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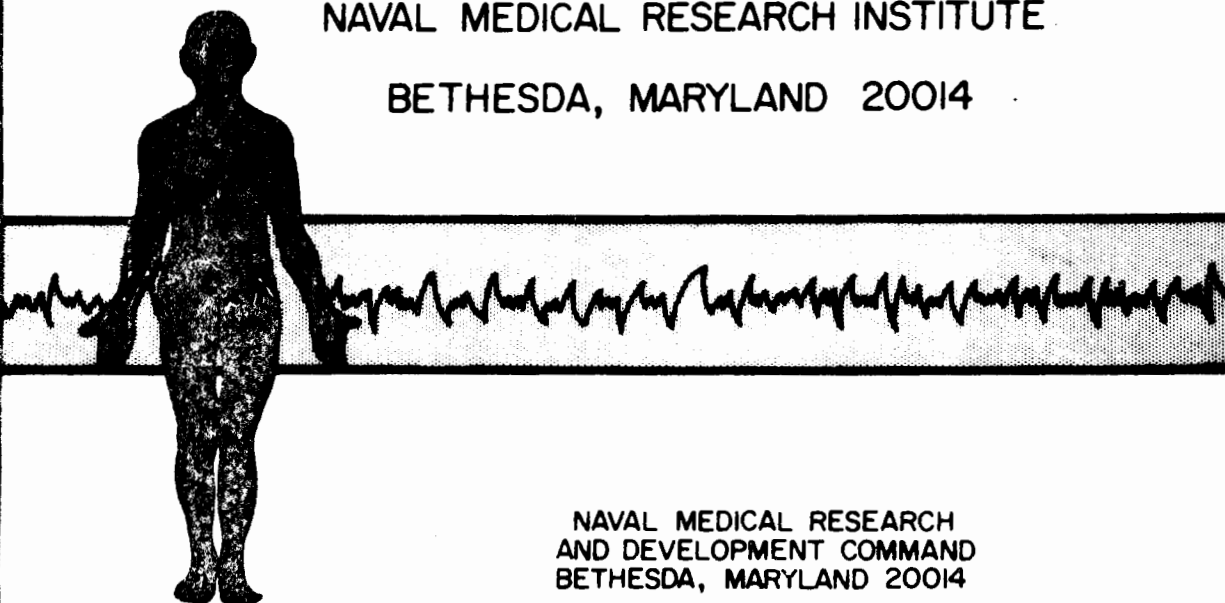
BIBLIOGRAPHY OF REPORTED BIOLOGICAL PHENOMENA
('EFFECTS') AND CLINICAL MANIFESTATIONS ATTRIBUTED
TO MICROWAVE AND RADIO-FREQUENCY RADIATION:
COMPILATION AND INTEGRATION OF REPORT AND SEVEN SUPPLEMENTS

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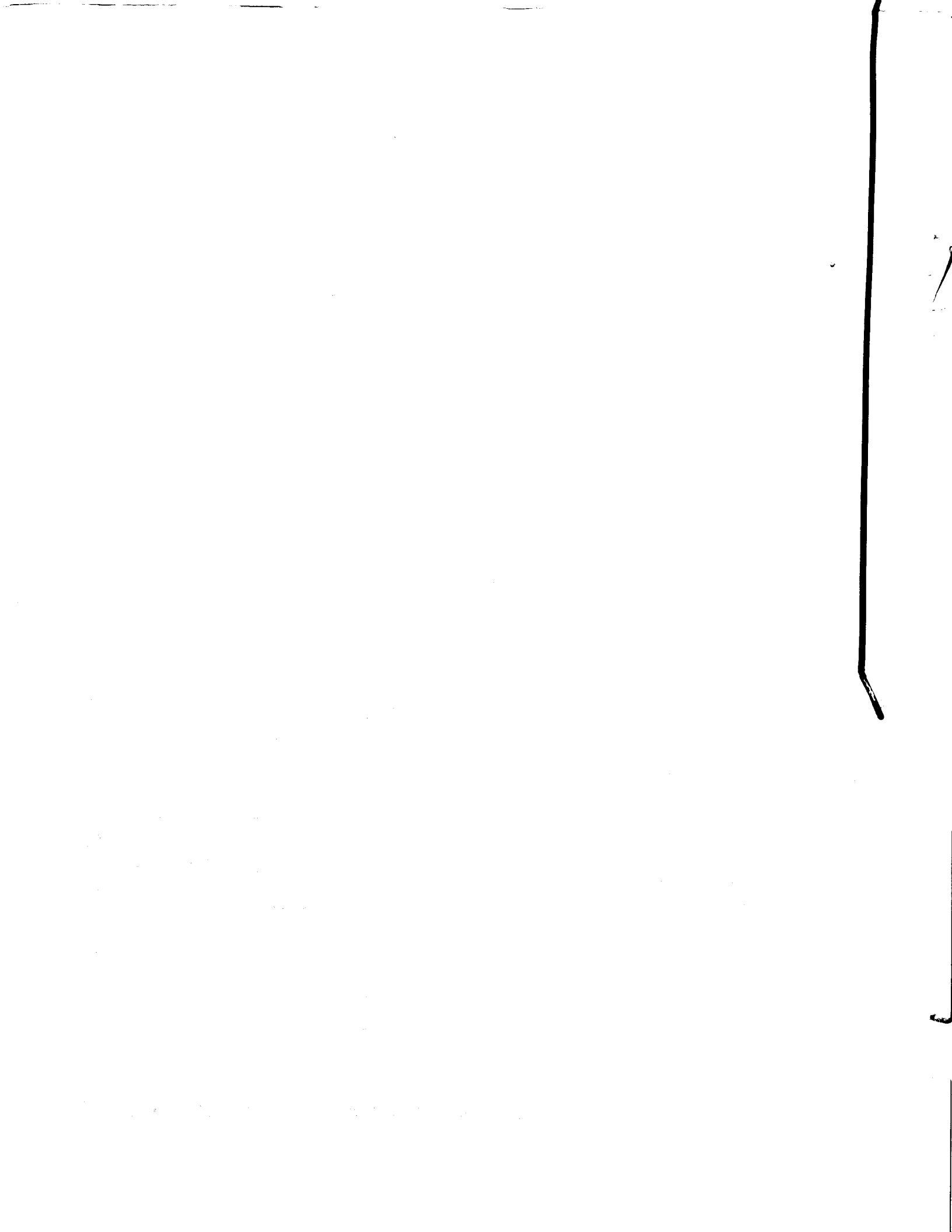
Naval Medical Research Institute Detachment
at Naval Surface Weapons Center
Dahlgren Laboratory
Dahlgren, VA 22448

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NAVAL MEDICAL RESEARCH INSTITUTE
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This report is a compilation and integration of the first seven supplements, and the alphabetical addenda (appended to the original bibliography), with the revised bibliography of April 1972. The report is a successor to Naval Medical Research Institute (NMRI, Bethesda, MD 20014) Research Report No. 2, completed under Research Work Unit MF12.524.015-0004B in October 1971, by the senior author, and available from National Technical Information Service (Springfield, VA 22151) as AD #734-391. The original report was revised and reprinted in April 1972, and also contains the first three supplements; No. 1 dated October 1971, No. 2 dated November 1971, and No. 3 dated April 1972. The revised report which consists of more than 2300 literature citations, is available from NTIS as AD #750-271, and includes, as the first chapter, an outline of the effects which have been attributed to radio frequency and microwave radiation. Supplement No. 4 (containing 327 citations) was completed in June 1973, as an Electromagnetic Radiation (EMR) Project Office Report, Bureau of Medicine and Surgery (Navy), (Washington, DC 20372), and is available from NTIS as AD #770-621. Supplement No. 5 (containing 497 citations) was completed in July 1974 as an EMR Project Office Report, Naval Medical Research and Development Command (NMR&DC, Bethesda, MD 20014), and is available from NTIS as AD #784-007. The sixth Supplement (containing 241 citations) was completed in June 1975 (also as an EMR Project Office, NMR&DC Report), and is available from NTIS as AD #A015-622. The seventh Supplement (containing 345 citations) was completed in May 1976 as a NMRI Report, and is available from NTIS as AD #A025-354. Supplement No. 8 (not included in this report, but containing 331 citations), was completed in August 1976 as a NMRI Report, and is available from NTIS as AD #A029-430.

27 September 1976

(Supersedes AD #734-391, #750-271, #770-621, #784-007, #A015-622, & #A025-354)

ABSTRACT

More than 3700 references on the biological responses to radio frequency and microwave radiation, published up to May 1976, are included in this bibliography of the world literature. Particular attention has been paid to the effects of non-ionizing radiation on man at these frequencies. The citations are arranged alphabetically by author (where possible), and contain as much information as possible so as to assure effective retrieval of the original documents. Soviet and East European literature is included in detail.

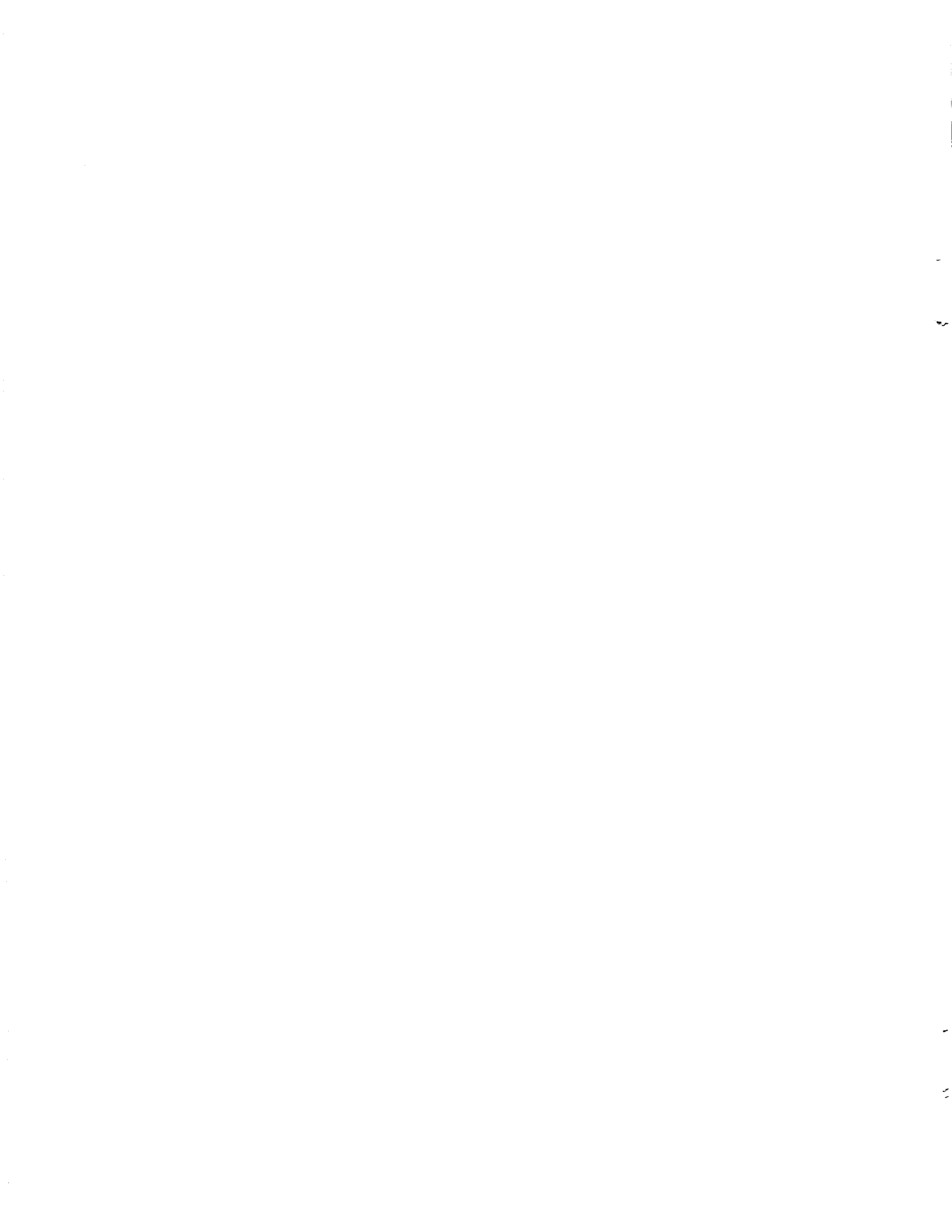
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Relevant presentations made at technical meetings are included in a separate section.

The "outline of bio-effects" which appeared in the original Bibliography has been included in this report as an Appendix.

Key Words

Biological Effects	Non-Ionizing Radiation
Bibliography	Microwave Radiation
Electromagnetic Radiation Bio-Effects	Electric-Field Bio-Effects
Radio Frequency (RF) Radiation	Magnetic Bio-Effects
Radiation Effects	Human Factors
Thermogenesis	Pulsed Electromagnetic Radiation
Health Effects	Stress Physiology
Radiobiology (Non-Ionizing)	Radar Safety



Bibliography of Reported Biological Phenomena ('Effects') and Clinical Manifestations Attributed to Microwave and Radio-Frequency Radiation; Naval Medical Research Institute Report No. 2 on Project MF12.524.015-0004B, dated 4 October 1971, (AD #734-391), and Report No. 2 (Revised), 20 April 1972, (AD #750-271) by Zorach-R. Glaser.

2639. AARONSON, S. (1974), *The Sciences*, 14(1):15-22, (Jan.-Feb.), "Pictures of an unknown aura: There's something in those Kirlian photographs, whatever it is", [high voltage photography].
1. AARONSON, T. (1970) *Environment* 12(4):2-10, "Mystery" [A good review article]
2312. AARONSON, T. (1970), *Environment*, 12(5):26-31, "Out of the frying pan", [Hazards from microwave ovens].
2. ABRAMSON, E. I., BELL, Y., REJAL, H., TUCK, S., BURNETT, C., & FLEISCHER, C. J. (1960) *Amer. J. of Physical Med.* 39:87-95, "Changes in blood flow, oxygen, uptake, and tissue temperatures produced by therapeutic physical agents, II. Effect of shortwave diathermy" [A2, B2, B3, B16]
3. ABRAMSON, D. I., HARRIS, A. J., BEACONSFIELD, P., & SCHROEDER, J. M. (1957) *Arch. of Physical Med.* 38:369-376, "Changes in peripheral blood flow produced by shortwave diathermy" (I) [B16, I2]
4. ABRIKOSOV, I. A. (1954) Dissertation, Moscow, "The Impulse UHF Field in Experimental and Clinical Practice" (NV)
5. ABRIKOSOV, I. A. (1955) Theses of Reports of the Scientific Session of the State Sci. Res. Inst. of Physiotherapy, Moscow, pp. 28-29, "The Action of a Pulsed Electric UHF Field on the Organism" (NV)
6. ADDINGTON, C. H., FISCHER, F. P., NEUBAUER, R. A., OSBORN, C., SARKEES, Y. T., & SWARTZ, G. (1958) *Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy* (Pattishall, E. G., & Banghart, F. W., eds.) 2:189-201, "Review of the work at University of Buffalo - Studies of the biological effects of 200 megacycles: I. Electrical facilities and instrumentation; II. Ophthalmological studies"
7. ADDINGTON, C. H., NEUBAUER, R. A., OSBORN, C., SWARTZ, G., FISCHER, F. P., & SARKEES, Y. T. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments* (Susskind, C., ed.) 3:1-9, "Biological effects of microwave energy at 200 megacycles upon the eyes of selected mammals" [A4, B22]
8. ADDINGTON, C. H., OSBORN, C., SWARTZ, G., FISCHER, F. P., & SARKEES, Y. T. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments* (Susskind, C., ed.) 3:10-14, "Thermal effects of 200 megacycles (cw) irradiation as related to shape, location, and orientation in the field"
9. ADDINGTON, C. H., OSBORN, C., SWARTZ, G., FISCHER, F. P., NEUBAUER, R. A., & SARKEES, Y. T. (1961) *Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation*, Vol. 1 (Payton, M. P., ed.) pp. 177-186, "Biological effects of microwave energy at 200 mc"
3379. ADEY, W.R. (1975), *Annals of the New York Academy of Sciences*, 247:15-20, (Feb. 28), "Introduction: Effects of electromagnetic radiation on the nervous system." [Cited also in #3117, this Biblio.]
10. ADLER, E., & MAGORA, A. (1955), *Amer. J. of Physical Med.*, 34:521-534, "Experiments on the relation between shortwave irradiation and the pituitary cortical adrenal system."
3137. ADRIAN, D.J. (1974), Megatek Corp., Harbor City, CA, Report No. P9058-074, (23 Aug.), "Exploratory studies of the effects of electrical currents on the human nervous system", [An exploratory study of visual effects (phosphenes) produced by transcranial electric stimulation using low frequency currents].
11. AFANAS'YEV, B. G., (1968) *Voyenno-Meditsinskiy Zh.* (1):73-74, "The functional condition of the adrenal cortex in ship specialists who are subjected to the action of a super-high frequency EM field" [M5]
3380. AHMED, N.A.G., CALDERWOOD, J.H., FROHLICH, H., & SMITH, C.W. (1975), *Physics Letters*, 53A(2):129-130, (2 June), "Evidence for collective magnetic effects in an enzyme: Likelihood of room temperature superconductive regions."
12. AKOYUNOGLU, G. (1964) *Nature (London)* 202(4931):452-, "Effect of a magnetic field on carboxydismutase" [J]
3138. ALBANESE, A.A. (1974), *New York State J. of Medicine*, 74(11):1925 only, (Oct.), "Editorial: Have radar ovens the potential to do harm?"
3139. ALBERT, E.N., McCOLLARS, G., & SHORE, M. (1974), *J. of Microwave Power*, 9(3):205-211, (Sept.), "The effect of 2450 megahertz microwave radiation on liver adenosine triphosphate (ATP)", [No significant difference in levels in Chinese hamsters irradiated at 50 mW/cm²].
13. ALBRECHT, W. (1935) *Arch. of Physical Therapy* 16:634 only, (Abstr. from: *Zeitschrift fur Gesamte Experimentale Med.* 93:816-, (Jun 1934)), "Development and form of shortwave thermal zones in an agar body" [A]
3140. ALEKSANDROVSKAYA, M.M., KRUGLIKOV, R.I., & KHOLODOV, Y.A. (1968), *Physiology and Pathology of Histo-Hematic Barriers*. (Fiziologiya i Patologiya Gisto-Gematcheskikh Bar'yerov), (Iz-vo Nauka), 352-357, (In Russ.), "Barrier mechanisms of the neuroglia in the process of inhibition under the effect of weak stimuli".
14. ALEKSEYENKO, N. YU. (1956) In: *Materialy po evolyutsionnoy fiziologii*. Simpozium (Materials on evolutionary physiology. Symposium), Moscow, Leningrad, 1:7-, [Title not given] [A UHF field evoked changes in muscle function of frogs]
15. ALEYEV, A. M., YELANTSEVA, V. R., & DZHUMAGALIYEV, M. (1961) *Zdravookhraneniye Kazakhstana* (Public Health of Kazakhstan) (4):75-78, (JPRS 9713), "Effect of a VHF-RF field on the course of experimental *echinococcus*" [B, J]
3381. ALI, J.S. (1975), *IEEE Transactions on Bio-Medical Engineering*, BME-22(1):76-77, "Versatile temperature controlled exposure chamber for microwave bioeffects research."
16. ALLAM, D. S. (1969) *J. Microwave Power* 4(2):108-114, "Conference Report: Radio and microwave radiations, applications, and potential hazards"
2640. ALLBERRY, J., et al. (1972), *Practitioner*, 208():687-688, (May), "Treatment of herpes zoster with short wave diathermy to the spinal cord".

2102. ALLIS, J. W., & JAMES, D. E. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRF/DBE 70-7), pp. 131-136, "Ultraviolet spectral changes in bovine serum albumin after irradiation with microwaves at 2.45 GHz"

17. ALM, H. (1958) (In German) Berliner Medizinische Verlagsanstalt G.m.b.H, Berlin, 174 pages, Introduction to Microwave Therapy

2641. ALM, H.F. (1966), Strahlentherapie, 130():464-478, (Jul.), (In Ger.), "Temperature measurement in human tissues following irradiation with decimeter waves".

2642. ALM, H.F., & DUTTIGM, H. (1961), Strahlentherapie, 116():297-310, (Oct.), (In Ger.), "Experimental and clinical studies with high frequency current in the upper decimeter wave region".

18. ALTABASHEVA, V. P., & IL'YASHEVICH, M. I. (1934) Biulleten Gosudarstvennogo Tsentral'nogo Instituta Sechenova (Bull. of the State Central Institute of Sechenova) 4-5, "The effects of the action of short waves on the morphology and the physical and chemical behavior of the blood of the rabbit"

19. ALTMAN, C. (1969) Zoologischer Anzeiger, Germany, 32(Suppl):416-430, (In German) "The physiological effect of electric fields on animals"

3382. ALTMANN, G. (1969), Arch. Met. Geoph. Biokl., Ser. B, 17():269-290, (in German), "The physiological effect of electrical fields on organisms."

3383. ALTMANN, G., ANDRES, G., & LEHMANN, M. (1972), Experientia, 28():422-424, (in German), "Influence of the atmospheric electrical field on the skin potential of Rana esculenta."

20. AMER, N. (1956) Proc. Institute of Radio Engineers 44:2A-, "An observation on the detection by the ear of microwave signals" [Q7]

3384. ANDERSON, D. (1972), Zeitschrift für Naturforschung, 27A(7):1094-1098 (July), (in Engl.), "A generalized expression for the energy density of electromagnetic waves in media with strong temporal dispersion."

3141. ANDERSEN, F.A., & PAY, T.H. (1974), Radiation Research, 59(1):115 only, "Survival of *Drosophila* eggs exposed to microwave energy and to heat". [See also citation #3123, this Biblio.]

2643. ANDERSON, J. (1971), Pensacola News-Journal, (Aug. 1), "Microwaves and men".

2644. ANDERSON, J. (1972), Pensacola-Fla. News-Journal, Sun., Nov. 12, p. 3B, "Microwave Guinea pigs", [describes low-level microwave studies at the Naval Aerospace Medical Research Institute, Pensacola, Fla.]

2313. ANDERSON, J. (1972), The Washington Post, p. C11, (May 4), in The Washington Merry-go-Round Column, "Some unexplored Kleindienst matters"; ibid., p. B15, (May 10), "'Brainwash' attempt by Russians?"; and ibid., p. , (Nov. 12), "Navy is testing microwave risks".

2645. ANDERSON, J. (1972/3?), Atlanta Constitution, Dec. 27, "Faulty [microwave] ovens hurt eyes".

2314. ANDERSON, J. (1973), The Washington Merry-Go-Round Column, in the Wash. Post, (March 10), p. D31, "Ultrasonic dangers for the unborn", [Includes comments on the Senate Committee hearing (Magnuson/Tunney) on microwave oven safety].

3142. ANDERSON, J. (1974), The Washington Post, page B15 (Tues., Dec. 10), "Ghastly new weapons [including 'microwave beams] on horizon".

3385. ANDERSON, J., & WHITTEN, L. (1975), The Washington Post, (Friday, May 16), p. D19 only, "Soviets' U.S.-aimed [microwave] beam perils Finns."

1967. ANDRAS, J. (1958) Sdelovaci technika 6(9):331-334, (In Czech.), "Problems of interference from industrial equipment"

3143. ANDREEN, M.A., & OSBORNE, S.L. (1936), Arch. of Otolaryng., 24():331-337, (Sept.), "Measurements of the temperature of the maxillary sinus after treatment by various methods of heating: A comparative study", [Among the methods used were diathermy and induction heating at high frequency].

2315. ANDREYEVA, V.M. (1966), In: Electrosleep and Electroanesthesia. Materials of the All-Union Symposium on Problems of Electrosleep and Electroanesthesia [Electronarcosis], Dedicated to the 20th Year of the Electrosleep Method, pp. 172-173, (In Russ.) Moscow (13-15 Oct.), "Change in the bioelectrical activity of the brain during electrosleep in patients with cardiac pain and neuresthenia".

21. ANDRIYASHEVA, N. M. (1937) In: The Biological Action of VHF-HF-Ultrashort Waves (Kupalov, P. S., & Frenkel, G. L., eds.), All Union Institute of Experimental Medicine, Moscow, pp. 373-379, "Occupational hazard of VHF-HF and the preventive measures"

22. ANIKIN, M. M., & RUMYANTSOVA-RUSSKIKH, M. V. (1961) J. of Neuropathology and Psychiatry imeni S.S. Korsakov 61(8):1122-1128, "High frequency currents in the treatment of poliomyelitis in adults" [Q4]

23. ANNE, A., SAITO, M., SALATI, O. M., & SCHWAN, H. P. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1 (Peyton, M. F., ed.) pp. 153-176, "Relative microwave absorption cross sections of biological significance"

24. ANNE, A., SAITO, M., SALATI, O. M., & SCHWAN, H. P. (1962), Univ. of Penna. Rpt. No. 62-13, 125 pages, RADC-TDR-62-244, (AD 284981), "Penetration and thermal dissipation of microwaves in tissues" [A]

25. ANNE, A., SALATI, O. M., & SCHWAN, H. P. (1961) Digest of the 4th Internat. Conf. on Medical Electronics, Biological Effects of Microwaves I (Athermal Aspects), (Frommer, P. L., ed.) Plenum Press, New York, p. 153, "Relative microwave absorption cross section of mankind"

26. ANNE, A., & SCHWAN, H. P. (1963) (From: Ph.D. Dissertation of A. Anne, Univ. of Penna., "Scattering and absorption of microwaves by dissipative dielectric objects: The biological significance and hazards to mankind")
3386. ANNINOS, P.A. (1973), T.I.T. Journal of Life Sci., 3():15-18, "Electromagnetic fields generated from neuronal activity."
2316. ANOHIN, P.K., SYDAKOV, K.V., & ANTIMONIJ, G.D., (Moscow Med. Inst., USSR, (1972), Abstr. of Fourth Internat. Cong. of the Internat. Union for Pure and Applied Biophysics, Moscow (7-14 Aug.), pp. 118-119, "Disturbances of goal-seeking behavior under action of electromagnetic field", [Changes in conditioned reactions were observed with rats irradiated at 39 MHz (modulated at 50 Hz), field density 100-200 v/m].
27. ANTONOV, G. S. (1964) Voprosy Kurortologii, Fizioterapii, i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Science, Physiotherapy and Medical Physical Culture) Moscow, 6(6):513-518, (JPRS 29384), "Combined treatment of pustulous skin diseases with ultra-high frequency electric field and staphylococcal anti-phagin electrophoresis" [B2, B16, B28, H2, H10, H13, H14, J6, Q4]
3387. ANTYUKH, Ye.V., LIVIN, Yu.Ya., NAD', F.Ya. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation," (JPRS #64532), p. 51 only, "Detection of millimeter and submillimeter emission by means of Josephson junctions."
2317. APPLETON, B. (1973), DHEW Pub. No. (FDA) 73-8031, BRH/DBE 73-3, (Feb.), From a lecture presented to the Division of Biological Effects, Rockville, Md., "Results of clinical surveys for microwave ocular effects".
3125. APPLETON, B. (1974), J. of the Amer. Med. Assoc., 229(4):407-408, (Jul. 22), "Microwave cataracts: Commentary on".
2318. APPLETON, B., & McCROSSAN, G.C. (1972), Arch. of Ophthalmology, 88(3):259-262, (Sept.), "Microwave lens effects in humans" [Biomicroscopic examination of personnel presumed to have been exposed on the basis of long-standing occupational circumstances to microwaves at the levels encountered in a military operational environment showed there to be no evidence of lens abnormality attributable to chronic microwave exposure when the group was statistically compared to a group of control personnel.]
3144. AREF, M.M., NOEL, J-G, & MILLER, H. (1972), J. of Microwave Power, 7(3):215-222, "Inactivation of alpha-amylase in wheat flour with microwaves".
2646. AREHART-TREICHEL, J. (1974), Science News, 105(19):309-310, (May 11), "Sperm don't like it hot: Electronic devices [including microwave generators] show promise as effective, safe and reversible male contraceptives".
2647. AREHART-TREICHEL, J. (1974), Science News, 105(26):409-424, (Jun. 29), "Electromagnetic pollution: Is it hurting our health?".
2648. ARENS, J.F., & LEONARD, G.L. (1971), J. of the Amer. Med. Assoc., 218(7):1045-1046, (Nov. 15), "Danger of overwarming blood by microwave [radiation]".
3145. ARIPOV, T.F., ARIPOVA, D.F., & L'VOV, K.M. (1974), Biofizika, 19(3):440-442, (In Russ.), (Transl. in JPRS No. 62942, Sept. 12, 1974, pps. 9-13), "Microwave saturation effects on paramagnetic centers of proteins irradiated with ultraviolet light".
2649. ARONOVSKY, D.H. (1971), Oral Surgery, Oral Medicine, Oral Pathology, 32(5):688-696, (Nov.), "Reduction of dental post-surgical symptoms using nonthermal [?] pulsed high-peak-power electromagnetic energy".
28. ARONOVA, S. B. (1955) Theses of Reports, Sci. Session of the State Sci. Res. Inst. of Physiotherapy, Moscow, "Comparative action of a pulse and continuous UHF field on the arterial pressure" [B16, I2] (NV)
1968. ARONOVA, S. B. (1961) Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Sci., Physiotherapy & Medical Physical Culture), Moscow, 3:243-246, (In Russian), "On the problem of the mechanism of the action of a pulsed UHF field on arterial pressure"
3388. ARONSKIY, A.I., & NURYAGDYEV, S.K. (1975), Izvestiya Akademii Nauk Turkmenskoy SSR, Seriya Biologicheskikh Nauk, 3(3):85-86, (in Russian), Transl. In: Effects of Non-Ionizing Electromagnetic Radiation (JPRS #L/5615), 10 Feb. 1976, pp. 38-40, "Biological test of decrease in carcinogenic activity of DMBA [7,12-dimethyl-benzanthracene] treated in a superhigh frequency electromagnetic field."
2650. ASABAEV, C. (1972), Biull. Eksp. Biol. & Med., 74(7):56-59, (In Russ.), "Determination of threshold of sensitivity of the rabbit brain to pulsed super-high frequency electromagnetic fields".
2651. ASABAEV, C. (1973), Bulletin of Experimental Biology & Med., 74(7):797-799, (Jan.), [Translated from Byulleten' Eksperimental'noi Biologii i Meditsiny', 74(7):56-59, (Jul. '72), (In Russ.)], "Determination of threshold of sensitivity of the rabbit brain to pulsed superhigh-frequency electromagnetic fields".
29. ASANOVA, T. P., et al. (1963) Materials of the Sci. Session Concerned with the Work of the Institute of Industrial Hygiene and Occupational Diseases for 1961-1962, Leningrad, pp. 52-54, "The problem of the effect of high voltage industrial frequency electric frequency field on the organism of workers" (NV)
30. ASANOVA, T.P., & RAKOV, A.N. (1966), Gigiena Truda i Professional'nye Zabolevaniya, USSR, 5(5):50-52, "The health of workers exposed to high voltage (400 to 500 KV) electric fields."
31. ASCHOFF, J. (1969) Aerospace Med. 40(8):844-849, "Desynchronization and resynchronization of human circadian rhythms" [Q10]
3389. ASLAN, E. (1972), IEEE Trans. on Instrum. & Meas., IM-21(4):421-424 (Nov.), "Broad-band isotropic electromagnetic radiation monitor."
2652. ASSIMACOPOULOS, D. (1968), Amer. Surg., 34():423-431, "Wound healing promotion by use of negative electric current".
32. ASTANIN, P. P. (1937) In: The Biological Action of VHF-HF-Ultrashort Waves, (Kupalov, P. S., & Frenkel, G. L., eds.), All Union Institute of Experimental Medicine, Moscow, [Title not given] (NV)
33. ATANELISHVILLI, E. V. (1965) Soobshcheniya Akademii nauk Gruzinskoi SSR 37(2):433-438, "Changes in the functional state of the CNS in patients with resected stomachs during various physiotherapeutical procedures" [B, C] (NV)

2327. BARBORIAK, J.J., KIM, T.S., SANCES, A., & LARSON, S.J. (1966), In: First International Symposium on Electrotherapeutic Sleep and Electroanesthesia, Graz, Austria, (12-17 Sept.), "Some metabolic effects of electroanesthesia in monkeys".
62. BARLOW, H. M. (1962) Institute of Radio Engineers Trans. on Instrumentation 1-2:257-, "Microwave power measurements"
63. BARNOTHY, M. F. (ed.) (1964, Vol. 1) (1969, Vol. 2) Plenum Press, New York, Biological Effects of Magnetic Fields
64. BARONENKO, V. A., & TIMOFEEVA, K. P. (1958) Zashchita ot deyatviya elektrom, poley i elektr. toka v prom, Leningrad, pp. 48-59, "The effect of high and ultrahigh frequency EMP on the organism of man and animal" (NV)
65. BARONENKO, V. A., & TIMOFEEVA, K. P. (1959) Fiziologicheskii Zh. SSSR Sechenov 45:184-188, "Effects of high frequency electromagnetic fields on the conditioned reflex activity and certain unconditioned functions of animals and men" [B13, C7] (NV)
66. BARRON, C. I., & BARAFF, A. A. (1958) J. of the Amer. Medical Assoc. 168(9):1194-1199 (Also U. S. Navy Medical News Letter 34(7):35-40, 1959), "Medical considerations of exposure to microwaves (radar)" [A, B, C, F, H, J, K]
67. BARRON, C. I., & BARAFF, A. A. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:112-117, "Medical considerations of exposure to microwaves (radar)" [A, B, C, F, H, J, K]
68. BARRON, C. I., LOVE, A. A., & BARAFF, A. A. (1955) J. of Aviation Med. 26:442-452, (Also Institute of Radio Engineers Trans. on Medical Electronics, PGME-4:44 only, Feb. 1956) (AD #63851), "Physical evaluation of personnel exposed to microwave emanations" [A, C, F, H, I, J, K, L]
2663. BARRON, R.D. (1960), Med. Serv. J. of Canada, 16():487-500, (Jun.), "Occupational injuries to the eye resulting from exposure to the electromagnetic spectrum".
69. BARTONICEK, V., & KLIMKOVA-DEUTCHOVA, E. (1964) Casopis Lekarů Ceských CZ 103(1):26-30, (ATD Transl. U-64-95, AD #460106), (Also in: Biological Effects of Microwaves, ATD P-65-68, Sept. 1965, pp. 13-14, "Effect of centimeter waves on human biochemistry"), "Some biochemical changes in workers exposed to centimeter waves"
2106. BARTSEVICH, B. M., ILIN, A. V., KRIVENKO, V. N., ROGUSSKII, S. S., & ULIFSII, L. A. (1970) Voenno-Meditsinskii Zhurnal :39-41 (In Russ.), (Abstr. #A70-20489), "Results of dynamic observation of persons working in the region of influence of a microwave field" [Study of behavior and blood chemistry (including proteins)]
70. BASS, D. E., KLEEMAN, C. R., QUINN, M., HENSCHER, A., & HEGNAUER, A. B. (1955) Medicine (Analytical Reviews of Gen. Med., Neurology, and Pediatrics) 34:323-380, "Mechanisms of acclimatization to heat in man"
2664. BASSEN, H. (1973), J. of Microwave Power, 8(3/4):421 only, "Correspondence on animal measurements"
1971. BASSETT, C.A.L. (1965), Scientific American, 213(4):18-25, "Electrical effects in bone."
2665. BASSETT, C.A.L., & HERMANN, I. (1968), J. of Cell Biol., 29():9- , "The effect of electrostatic fields on macromolecular synthesis by fibroblasts in vivo".
2666. BASSETT, C.A.L., & PAWLUK, R.J. (1972), Science, 178():982-983, (1 Dec.), "Electrical behavior of cartilage during loading".
2667. BASSETT, C.A.L., PAWLUK, R.J., & BECKER, R.O. (1964), Nature (London), 204():652-654, "Effects of electric currents on bone in vivo".
2668. BASSETT, C.A.L., PAWLUK, R.J., & PILLA, A.A. (1974), Science, 184(4136):575-577, (3 May), "Augmentation of bone repair by inductively coupled electromagnetic fields", [pulsed at low frequencies (1 to 65 Hz) and low peak field strength (2 to 20 mv/cm) in bone].
71. BASSETT, H. L., ECKER, H. A., JOHNSON, R. C., & SHEPPARD, A. P. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2)197-204, "New techniques for implementing microwave biological-exposure systems"
2669. BATTARRA, P. (1970), Minerva Medica, 61():4041-4043, (In Ital.), "Biological effects of radar waves on the human organism".
72. BAUER, J., & GUTMAN, G. (1940) Urologic and Cutaneous Review 44(1):64-66, "The effect of diathermy on testicular function"
2671. BAULCH, J.T. (1972), The Pensacola (Fla.) Journal, Feb. 11, "They'll study what TV [and microwave ovens] does to you... physically", [describes studies recommended by the OTE/ERMAC].
3391. BAUM, S.J., EKSTROM, M.E., SKIDMORE, W.D., WYANT, D.E., ATKINSON, J.L. (1975), Armed Forces Radiobiology Research Institute Rept. No. AFRRR-SR75-11 (April), "Biological measurements in rodents exposed continuously throughout their adult life to pulsed electromagnetic radiation."
2672. BAUM, S.J., SKIDMORE, W.D., & EKSTROM, M.E. (1973), Armed Forces Radiobiology Research Institute (Bethesda, MD) Report, AFRRR #SR73-23, (Dec.), "Continuous exposure of rodents to 10⁸ pulses of electromagnetic radiation".
73. BAUS, R., & FLEMING, J. D. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Suskind, C., ed.) 3:291-313, "Biologic effect of microwave radiation with limited body heating"
74. BAVRO, G. V., & KHOLODOV, YU. A. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 3-4, "The character of bioelectric reactions of the rabbit cerebral cortex during the influence of a SHF-UHF field"
75. BAVRO, G. V., & KHOLODOV, YU. A. (1963) Gigiena Truda i Biol. Deyst. Electrom. Poley Radiochastot (Trudy, Inst. of Industrial Hygiene & Occupational Diseases, Acad. Medical Sci., Moscow), Occupational hygiene & biological effects of RF fields, p. 108-, [Title not given]

2673. BAWIN, S.M., GAVALAS-MEDICI, R.J., & ADEY, W.R. (1973), *Brain Research*, 58():365-384, "Effects of modulated very high frequency fields on specific brain rhythms in cats".
76. BAZETT, H. C. (1949) In: Physiology of Heat Regulation and the Science of Clothing, (Newburgh, ed.), W. B. Saunders, Philadelphia, Pa., pp. 109-192, "The regulation of body temperatures"
2328. BECKER, C.M., MALHOTRA, I.V., & HEDLEY-WHITE, J. (1973), *Anesthesiology*, 38(2):106-122, (Feb.), "The distribution of radiofrequency current and burns" [to patients, at the site of the electrocardioscope electrodes during electrosurgery].
2674. BECKER, R.O. (1963), *Med. Electron. Biol. Engng.*, 1():293-303, "The biological effects of magnetic fields: A survey".
2675. BECKER, R.O. (1963), *N.Y. State J. of Med.*, 63():2215-2219, "Relationship of the geomagnetic environment to human biology".
2676. BECKER, R.O. (1967), *Medical Times*, 95(6):657-669, (Jun.), "Electrical control of growth processes".
2677. BECKER, R.O. (1972), *Nature*, 235():109-111, (Jan. 14), "Stimulation of partial limb regeneration in rats", [using 3-6 nA of direct current].
3148. BECKER, R.O. (1972), *Technology Review*, ():32-38, (Dec.), "Electromagnetic forces and life processes".
2678. BECKER, R.O., & MURRAY, D.G. (1967), *Transactions of the NY Acad. of Sciences, Series II*, 29(5):606-615, (Mar.), "A method for producing cellular dedifferentiation by means of very small electrical currents".
2107. BEEHING, C. H. (1969) Report (7 pages), U.S. Dept. Health, Education, & Welfare, Public Health Service, Consumer Protection & Environ. Health Service, Environ. Control Adm., Bur. of Rad. Health, "Biological effects of radio- and low-frequency electromagnetic radiation" (Preliminary Draft)
2679. BEISCHER, D.E. (1962), *Astronautics*, 7():24-25 & 46-48, "Human tolerance to magnetic fields".
77. BEISCHER, D. E. (1962) Naval School of Aviation Med., and NASA Rpt, "Survival of animals in magnetic fields of 120,000 Gauss"
2680. BEISCHER, D.E. (1963), In: XIIth International Astronautical Congress, BAKER, R.M.L., Jr., & MAKEMSON, M.W., (eds.), (Washington, D.C. 1961), pp. 515-525, Academic Press, NY, "Biological effects of magnetic fields in space travel".
2681. BEISCHER, D.E. (1964), In: Bioastronautics, SCHAEFER, K.E., (ed.), pp. 173-180, MacMillan, NY, "Biological effects of magnetic fields in their relation to space travel".
78. BEISCHER, D. E. (1964) In: Biological Effects of Magnetic Fields, Vol. 1, (Bartholy, M. F., ed.), Plenum Press, New York, Chapt. 11, pp. 201-, "Survival of animals in magnetic fields of 140,000 Oe"
2682. BEISCHER, D.E. (1965), *Ann. of the N.Y. Acad. Sci.*, 134():454-458, "Biomagnetics".
2683. BEISCHER, D.E. (1970), Informal Rept., Naval Aerospace Medical Institute, Pensacola, FL, (27 Mar.). "Literature references pertinent to Project SANGUINE", [on extremely low frequency electromagnetic radiation, including ELF field simulation, static electric and magnetic fields, phosphenes, electrosleep, electroanesthesia, and electric shock].
3149. BEISCHER, D.E. (1971), *Annals of the New York Acad. of Sciences*, 188():324-330, (Dec. 3), "The null magnetic field as reference for the study of geomagnetic directional effects in animals and man".
3392. BEISCHER, D.E. (1974), The Neurosciences Research Program, Session on Brain Interactions with Weak Electric and Magnetic Fields, (Boston, Mass., 10-12 Nov.), 35 pp., "Literature abstracts on extremely low frequency (ELF) electromagnetic fields."
79. BEISCHER, D. E., & COWART, G. S. (1970) Naval Aerospace Medical Institute Rpt NAMI-1105, "Growth of Staphylococcus aureus in a null magnetic field environment"
2684. BEISCHER, D.E., GRISSETT, J.D., & MITCHELL, R.E. (1973), Naval Aerospace Medical Research Lab., Pensacola, FL, Rept. No. NAMRL-1180, "Exposure of man to magnetic fields alternating at extremely low frequency".
2685. BEISCHER, D.E., & KNEPTON, J.C., Jr. (1964), *Aerospace Med.*, 35():939-944, "Influence of strong magnetic fields on the electrocardiogram of squirrel monkeys (Saimiri sciureus)".
80. BEISCHER, D. E., & KNEPTON, J. C., JR. (1964) Naval School of Aviation Med. and NASA Rpt, "Influence of strong magnetic fields on the electrocardiogram of squirrel monkeys (Saimiri sciureus)"
81. BEISCHER, D. E., & KNEPTON, J. C., JR. (1966) Naval Aerospace Medical Institute (and NASA) Rpt NAMI-972, "The electroencephalogram of the squirrel monkey (Saimiri sciureus) in a very high magnetic field"
82. BEISCHER, D. E., & MILLER, E. F. II (1962) Research Rpt, Bureau of Med. & Surg. (Navy), "Exposure of man to low intensity magnetic fields"
83. BEISCHER, D. E., MILLER, E. F., II, & KNEPTON, J. C., JR. (1967) Naval Aerospace Medical Institute (and NASA) Rpt No. 1018, AD #662672, "Exposure of man to low intensity magnetic fields in a coil system"
2686. BEISCHER, D.E., & RENO, V.R. (19), Paper reprinted from Conference Preprint No. 95, AGARD, NATO, "Magnetic fields and man: Where do we stand today?".
84. BEKAURI, N. V. (1941) *Fiziologicheskii Zh. SSSR* 30(2):173-, "The effect of ultrashort waves on the reflex excitability of frogs"

85. BEKKER, D. B., & MOCENDOVICH, M. R. (1948) In: Biological and Therapeutic Effect of a Magnetic Field and Strictly Periodic Vibrations, pp. 93-, "The effect of a magnetic field on osmotic processes in mice"
86. BELDING, H. S., & HATCH, T. F. (1955) Heating, Piping and Air Conditioning 27(8):129-136, "Index for evaluating heat stress in terms of resulting physiological strains"
87. BELITSKII, (BELICKII) B.M., & KNORRE, (KNOPPE) K.G. (1959), In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, [Title not given].
88. BELITSKII, (BELICKII) B.M., & KNORRE, (KNOPPE), K.G.(1960), Trudy Nil Gigyena Truda i Profzabolevaniya USSR, __ (1):107-117, (Also in: The Biological Action of Ultrahigh Frequencies, (Letavet, A.A., & Gordon, Z.V., eds.), Acad. of Med. Sci., USSR, Moscow (JPRS #12471, 1962, pp. 110-122)), "Protection from radiation in work with SHF-UHF generators."
2687. BELKHODE, M.L., JOHNSON, D.L., & MUC, A.M. (1974), Health Physics, 26():45-51, (Jan.), "Thermal and athermal effects of microwave radiation on the activity of glucose-6-phosphate dehydrogenase in human blood".
2688. BELKHODE, M.L., MUC, A.M., & JOHNSON, D.L. (1974), J. of Microwave Power, 9(1):23-29, (Mar.), "Thermal and athermal effects of 2.8 GHz microwaves on three human serum enzymes".
89. BELL, R. L., BLOCK, A. F., HERVIN, R. L., & GRAY, L. B. (1969) Goddard Space Flight Center, Greenbelt, Maryland, Rpt -205-69-405, "Microwave radiation - its potential health hazards and their control"
90. BELL, W. H., & FERGUSON, D. (1931) U. S. Navy Medical Bulletin 29:525-551, "Effects of super-high frequency radio current on health of men exposed under service conditions" (Also Arch. of Physical Therapy (12):pp--, (1932))
2689. BELOKRINITSKII, V.S. (1971), Zh. Vyssh. Nerv. Deiat., 21():525-534, (May-Jun.), (In Russ.), "Effect of large doses of super-high frequency electromagnetic fields on the nervous system of animals during conditioned reflex activity".
2108. BELOVA, S. E. (1962) In: The Effects of Radar on the Human Body (Results of Russian Studies on the Subject), Turner, J. J., (ed.), pp. 43-48, (AD #278172), "The effects of microwave irradiation on the eye"
91. BELOVA, S. F. (1957) In: Summaries of Reports, Part 2, Moscow, Jubilee Sci. Session of the Institute of Labor Hygiene & Occupational Diseases, dedicated to the 40th Anniv. of the Great October Socialistic Revolution, pp. 66-, "State of the organ of sight in persons subjected to the influence of ultrahigh frequency fields"
92. BELOVA, S. F. (1960) In: Physical Factors of the External Environment, Moscow, pp. 184-, "The state of the visual organ in persons exposed to superhigh frequency fields"
93. BELOVA, S. F. (1960) Trudy Nil Gigyena Truda i Profzabolevaniya, __ (1):86-89, (Abstr. in: The Biological Action of Ultrahigh Frequencies, (Letavet, A. A., & Gordon, Z. V., eds.), Acad. of Med. Sci., USSR, Moscow, (JPRS 12471, pp. 89-93, 1962)), "Change in the elastotonometric curve in rabbits under the influence of SHF-UHF"
94. BELOVA, B. F. (1962) In: The Biological Action of Ultrahigh Frequencies, (Letavet, A. A. & Gordon, Z. V., eds.), Moscow, (JPRS 12471, pp. 36-38, 1962), "Influence of UHF on the organ of sight"
95. BELOVA, S. F. (1964) Trudy Nil Gigyena Truda i Profzabolevaniya USSR, __ (2):119-121, "Results of sight organ examination in workers associated with MF-LF generators (150-600KC)"
96. BELOVA, S. F. (1964) Trudy Nil Gigyena Truda i Profzabolevaniya USSR, __ (2):140-143, "Functional state of the visual analyzer under the action of microwaves"
97. BELOVA, S. F. (1960) In: Nauchnoissledovatel'skiy Institut Gigiena Truda i Provozabolevaniya, Trudy __ (1):36-38 (Abstr. in: The Biological Action of Ultrahigh Frequencies, (Letavet, A. A., & Gordon, Z. V., eds.), Acad. of Med. Sci., USSR, Moscow, (JPRS 12471, 1962)), (ATD Rpt. P-65-17 (1965)), "The effect of UHF on the eye"
98. BELOVA, S. F., & GORDON, Z. V. (1956) Bulletin Experimental Biology & Med. 41:327-330, "The effect of centimeter waves on the eye"
2690. BENEDETTI, E. (1927), Atti. Accad. Lincei, 5():1024-1034, "Changes in the process of alcohol fermentation by the action of an oscillating electromagnetic field".
3150. BENEDICK, M.H., & GREENBERG, B. (1974), IEEE Transactions on Communications, COM-22(4):570-571, (Apr.), "The SANGUINE biological-ecological research program".
99. BENEDICT, W. L., DAILY, L., HERRICK, J. P., & WARIM, H. J. (1951) Amer. J. of Ophthalmology, Series 3, 34:1301-, "The effects of microwave diathermy on the eye of a rabbit"
1972. BENETATO, G., & DUMITRESKU-PAPACHADZHI, E. (1964) Rev. roumaine fiziol. 1:125-133, (In Russian), "Changes in the fibrinolytic activity of blood plasma under the influence of UHF radiation in the hypothalamic region in various age groups"
2691. BENJAMIN, J.M., SCHWAN, H.P., KAY, C.F., & HAFKENSCHIEL, J.H. (1950), Circulation, II(3): , (Sept.), "The electrical conductivity of living tissues as it pertains to electrocardiography: A review of the problem of homogeneity vs. nonhomogeneity, an outline of the technical aspects of tissue resistivity measurements, and a critical and experimental analysis of certain pertinent experiments".
2692. BENVENUTO, R., & MAYER P. (1971), Amer. Heart J., 81():738-742, "Emergency management of [electronic] pacemaker failure by means of radiofrequency energy".
100. BENYO, I., FUSY, F., & IHASZ, M. (1965) Kiserletes Orvostudomány 7(5):454-458, "Effect of shortwave irradiation of the liver on the elimination of bromsulphalein from the blood"
2693. BERCOT, M., et al. (1970), Path. Biol. (Paris), 18():635-638, (In Fr.), "Attempts at cardiac freezing. Rewarming by high-frequency radiation".

2109. BEREZINSKAJA, D. I. (1940) *Vestn. Oftal.* 16:466-470 (In Russ.), (Abstr. in: *Zentralbl. f.d. res. Ophth.* 47(1):21 (Sept 16, 1941)), "The effects of diathermy on the anterior part of the eye"
101. BEREZNIITSKAYA, A. N. (1968) *Gigiena Truda i Professional'nye Zabolevaniya*, Moscow, USSR, 12(9):33-37, "Some indicators of the fecundity in female mice irradiated with 10 cm waves"
102. BERG, A. I. (ed.) (1960) *Gosenergoizdat*, Moscow, Proc. Moscow Conf. Jan. 1959, 392 pages (see especially pages 60, 77, 92, & 123) (In Russian), (Abstr. in: *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, ATD Rept. P-65-17, Apr. 1965), Electronics in Medicine
103. BERGMAN, W. (1965) Transl. (from German) by Tech. Lib. Res. Serv., Ford Motor Co., Copyright by author, The Effect of Microwaves on the Central Nervous System
104. BERLIN, L. B., & ZHUPEN, V. P. (1962) (AD #400015), "Histological changes in skin following homoplasty to burns of irradiated rabbits."
105. BERLINER, M. L. (1951) *AMA Arch. of Ophthalmology*, Annual Reviews, 45(2):196-213, "Cornea and sclera"
106. BERNAL, E., & KEPLINGER, M. (1959) *Industrial Med. & Surgery* 28:535-538, "Effects of environmental temperature and air volume exchange on survival of rats exposed to microwave radiation of 24,000 megacycles"
2694. BERTAUD, A.J. (1973), *Electron. & Fis. Apl. (Spain)*, 16(3):517-522, "The effect of microwaves biological media."
2329. BERTEAUD, A.J., BOTTREAU, A.M., PRIORE, A., PAUTRIZEL, A.N., BERLUREAU, F., & PAUTRIZEL, R. (1971), *Comptes rendus des seances de l'Academie des Sciences*, 272():1003D-1006D, (15 Feb.), (In Fr.), "Experiment on the correlation between the evaluation of the action of *Trypanosoma equiperdum*, and the action of pulsed and modulated electromagnetic waves".
2330. BERTHARION, G., SERVANTIE, B. & JOLY, R. (1971), *J. of Microwave Power*, 6(1):62-63, "Electro-cortico-graphic modifications after exposure to microwave fields, on the white rat (Preliminary results)".
2331. BERTHARION, G., SERVANTIE, B., & JOLY, R. (1971), *Comptes rendus des seances de la Societe de Biologie*, 165(9-10):1928-1930, (In Fr.), "Study of the action of high frequency electromagnetic radiation on the central nervous system of the white rat. Electrocorticographic modifications".
2695. BESSELING, J.L.N., BULL, A.B., & duPLESSIS, J.M.E., et al. (1965), *S. Afr. Med. J.*, 39():137-140, "The rapid warming of blood for massive transfusion by radio frequency induction".
2110. BEUGNOT, L. R., FOX, K. I., LECHEWICH, R. V., & WEBSTER, F. H. (1969), (Abstr. #A69-80724), "Procedure for evaluating the effects of 2,450 MHz microwaves upon *Streptococcus faecalis* and *Saccharomyces cerevisiae*"
2070. BEYER, E. O., & PAY, T. L. (1970) In: *Radiation Bio-Effects Summary Report*, Hodge, D. M., (ed.), Jan-Dec 1969, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. DEL 70-1), pp. 185-169, "Genetics of *Drosophila melanogaster* exposed to 2450 MHz microwave radiation"
2111. BEYER, E. C., PAY, T. L., & IRWIN, E. T., Jr. (1970) In: *Radiation Bio-Effects Summary Report*, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRH/DBE 70-7), pp. 248-250, "Developmental and genetic testing of *Drosophila* with 2,450 MHz microwave radiation"
107. BICKFORD, R. G., & FREEMING, B. D. (1965) *Digest of 6th Internat. Conf. on Medical Electronics and Biological Engineering*, (Iwai, Y., Cha.) p. 112 only, "Neuronal stimulation by pulsed magnetic fields in animals and man"
3393. BIELEC, M. (1975), Ph.D. Thesis (in Polish), Center for Radiobiology and Radioprotection, 00-909 Warsaw, Poland, "Thermographic analysis of thermal effects of microwave radiation in experimental animals." [Use of thermography for quantitation of microwave energy absorbed in live rats and carcasses irradiated with microwaves. Review of the literature.]
3394. BIELEC, M., & SZMIGIELSKI, S. (1976), *Post. Fiz. Med.* (in Polish), (in press), "Thermographic analysis of energy absorption in animals irradiated with microwaves." [Use of colour thermovision AGA-680 for quantitation of microwave energy absorbed in dead animals irradiated in anechoic chamber. Method for quantitation of thermal energy absorbed from the surface observed by thermovision.]
2112. BIELICKI, Z., BARANSKI, S. CZERSKI, P., & RADUCH, S. (1963) *Rev. Med. Aero. (Paris)* 2:106-107 (Feb-Mar), (In Fr.), "Analysis of difficulties of occupational activity in personnel exposed to micrometric wave irradiation"
108. BIERMAN, W. (1934) *Amer. J. of Medical Science* 187:545-552, "The effect of hyperpyrexia induced by radiation upon the leukocyte count"
2332. BIERMAN, W. (1942), *The Williams & Wilkins Company* 2d ed., Baltimore, (Bibliography: p. 305-319. See also pages 59-114), The Medical Applications of the Short Wave Current.
109. BIERMAN, W. (1948) *Arch. of Physical Med.* 29:408-415, "Present status of fever therapy"
110. BIERMAN, W., HOROWITZ, W. A., & LEVENSON, C. L. (1935) *Arch. of Physical Therapy* 16:520-522, "Fever therapy in pelvic conditions: Results of experimental and clinical studies"
2696. BIGU del BLANCO, J., ROMERO-SIERRA, C., & TANNER, J.A. (1973), Presentation at the 10th International Conf. on Med. & Biological Engineering, Dresden, East Germany, (Aug.), "Microwave radiometry: A potential tool in biology and medicine".
3395. BIGU DEL BLANCO, J., & ROMERO-SIERRA, C. (1974), *Digest of Papers, 5th Canadian Medical and Biological Engineering Conference*, pp. 12/6A-6B, "Effect of 3 cm wavelength microwave radiation on the nastic response of the plant *Mimosa pudica*."
3396. BIGU DEL BLANCO, J., & ROMERO-SIERRA, C. (1974), *Digest of Papers of the 5th Canadian Medical and Biological Engineering Conference*, pp. 12/7A-7B, "The properties of bird feathers as dielectric receptors of microwave radiation at K_u-Band frequencies."

2333. BILBROUGH, J. (1969), *Non-ionizing Radiation*, 1(2):70-72, "Food sterilization by microwave radiation", [Destruction of mold spores and bacteria].
1973. BILITCH, M., LAU, F. Y. K., & COSSY, R. S. (1967) *Circulation* 36(Suppl. 2):68-, "Demand pacemaker inhibition by radio-frequency"
111. BILOKRYNYTS'KYI, V. S. (1966) *Fiziologichnyy Zh.* 12(1):70-78, (ATD Rpt 67-3, Jan. 1967), "Changes in the tigroid substance of neurons under the effect of radio waves"
112. BILOKRYNYTS'KYI, V. S. (1968) *Fiziologichnyy Zh.* 14(3):376-381, (Ukr. with English summary), "Morphological changes in the sciatic nerve of dogs affected with SHF electromagnetic fields"
2697. BIRENBAUM, L. (1972), *Proc. of the Inst. of Electrical & Electronics Engineers*, 60():1237-1238, (Oct.), Letter to the Editor: "Comment on 'Human exposure to non-ionizing radiant energy — Potential hazards and safety standards'", (by MICHAELSON, S.M., Citation #2471, this Bibliography), (and the author's reply).
113. BIRENBAUM, L., GROSOF, G. M., HAMMOND, A. H., ROSENTHAL, S. W., SCHMIDT, H., & ZARET, M. M. (1965, 1966) In *Progress Rpt. No. 28, AD 476288, Apr. 1965 - Sept. 1965; Progress Rpt. No. 29, AD 488303, Oct 1965 - Mar. 1966. Summary of Current Research in the Microwave Research Institute Programs*, Polytech. Inst., Brooklyn, N. Y., "Effects of microwave radiation on the eye"
114. BIRENBAUM, L., GROSOF, G. M., ROSENTHAL, S. W., & ZARET, M. (1969) *IEEE Trans. on Biomedical Engineering BME-16*(1): 7-14, "Effect of microwaves on the eye"
3397. BIRENBAUM, L., KAPLAN, I.T., METLAY, W., ROSENTHAL, S.W., & ZARET, M.M. (1975), *J. of Microwave Power*, 10(1):3-18 (Mar.), "Microwave and infrared effects on heart-rate, respiration rate and subcutaneous temperature of the rabbit."
115. BIRENBAUM, L., KAPLAN, I., ROSENTHAL, S. W., SCHMIDT, H., & ZARET, M. M. (1967) In: *Progress Rpt No. 32, AD 662885 (N68-16938), Mar. 1966 - Sept. 1967. A Summary of Current Research in the Microwave Research Institute Programs*, Polytech. Inst., Brooklyn, N. Y., pp. 50-51, "Effects of microwave radiation on the eye" [of the rabbit]
2698. BIRENBAUM, L., ROSENTHAL, S., KAPLAN, I., METLAY, W., SCHMIDT, H., & ZARET, M. (1969), *J. of Microwave Power*, 4():232-243, (Dec.), "Effect of Microwaves on the rabbit eye", [an extension of citation #116, this Bibliography].
116. BIRENBAUM, L., ROSENTHAL, S., KAPLAN, I., METLAY, W., SCHMIDT, H., & ZARET, M. (1968) Paper presented at meeting of . . . p. 68-, "Effect of microwaves on the rabbit eye"
117. BIRNBAUM, G., & FRANEAU, J. (1949) *J. of Applied Physics* 20:817-, "Measurement of the Dielectric constant and loss of solids and liquids by a cavity perturbation method"
3151. BISHOP, F.W., HORTON, C.B., & WARREN, S.L. (1932), *Amer. J. of Medical Sciences*, 184:515-533, "A clinical study of artificial hyperthermia induced by high frequency currents".
3398. BITTMAN-COROS, V.L., & MACELARIU, A. (1969), *Arch. Phys. Ther. (Leipzig)*, 21():127-134, (in German), "Experimental studies and theoretical considerations on the dynamics of the low frequency electro-magnetic fields produced with the Magnetodiaflux apparatus."
118. BLACKSMITH, P., & MACK, R. B. (1965) *Air Force Cambridge Res. Labs., Hanscom Field, Mass., AD 625163*, "On measuring the radar cross sections of ducks and chickens"
2114. BLAGODATIN, Ya. A. (1960) In: *Sbornik Rabot Kliniki Glaznykh Boleznai*, Gorkii, pp. 19-25, (In Russ.), (Abstr. in: *Abstr. of Soviet Med.* 5(5):745-746 (May, 1961)), "The effect of cyclodiathermy coagulation on the eye of rabbits"
119. BLAGOVIDOVA, L. A., BELEKHOVA, M. G., & ZAGORULKO, I. M. (1962) *Bulleten Eksperimental'noi Biologii i Meditsiny, Moscow*, 55:8-13, (AD 294524, FTD-TT-62-1482/1+2) "Changes in electrical activity of the diencephalic area and cortex of the rabbit's cerebral hemisphere under the effect of bitemporal diathermy"
3152. BLANCHI, D., CEDRINI, L., CERIA, F., MEDA, E., & RE, G.G. (1973), *Arch. of Fisiol.*, 70(1/2):30-32, (In Engl.), (Comunicazione al XLIV Congresso Nazionale della Societa Italiana di Fisiologia, Roma, 2-5 October 1972), "Exposure of mammals to strong 50 Mc electric fields: Part 1 - Effects on the proportion of the different leucocyte types", [male mice exposed to a field of 1 KV/cm]; and *ibid.*, p. 33-34, "...Part 2 - Effects on heart and brain electrical activity".
2334. BLASER, R., DITTRICH, H., KIRSCH, U., & SCHALDACH, M. (1972), *Dtsch. Med. Wochenschr.*, 97:559-562, (In Germ.), "Electromagnetic fields as a source of danger for pacemaker patients".
3153. BLASHY, M.R.M. (1970), *Fortschritte der Medizin*, 88(11):488-490, (Apr. 16), "Advances in shortwave therapy".
120. BLIEDEN, L., YERUSHALMI, S., FREI, E. H., BARR, I. M., & NEUFELD, E. N. (1968) *J. of Cardiovascular Surgery (Torino)* 9:49-53, "Environmental hazards associated with a radio frequency pacemaker"
121. BLINKOVA, T. P., BOGDANOV, O. V., & YAKOVLEVA, M. I. (1967) *Zh. Evolyutsionnoy Biokhimi i Fiziol.* 3(2):178-181, "Effect of superhigh frequency electromagnetic field on the pulse rate of chick embryos"
3154. BLOCK, J.B., & ZUBROD, C.G. (1973), *Cancer Chemotherapy Reports: Part 1*, 57(4):373-382, (Nov./Dec.), "Commentary: Adjuvant temperature effects in cancer therapy", [Brief mention of the use of microwave and short wave diathermy in cancer treatment].
2699. BLOEMBERGEN, N., PIERCE, J.A., & KING, R.W.P. (1973), In: *Twenty-five years of scientific research sponsored by the Joint Services Electronics Program at Harvard University*, pp. 16-17. (Presentation of talks given at the Technical Advisory Committee's annual review of the Joint Services Electronics Program at Harvard University, May 11 & 12, 1972), "Shielding and radio frequency hazards".
122. BLOIS, S. (1956) *Institute of Radio Engineers Trans. on Medical Electronics PGME-4*:35-37 (from *Symposium on Physiologic and Pathologic Effects of Microwaves*, Krusen, F. H., Chm., Sept. 1955), "Paramagnetic resonance methods in biological research"
 i e i in.
123. BLUDOVA, P. A., KURILOVA, L. M., & TIKHONOVA, M. A. (1953) *Zh. Nevropat./Psikhat./Korsakov* 53(10):790-, "The effect of shortwave diathermy on the function of the visual analyzer"

3399. BLUNDELL, D.J. (1975), J. of Physics, Section E: Scientific Instruments, 8 ():925-929, "The United Kingdom national standard of microwave noise at 4.1 GHz and 77K."
3155. BOCZYNSKI, E., & ZYSS, R. (1972), Otolaryng. Pol., 26(4):?412, (In Pol. with Engl. Summary), "Changes in activity of certain enzymes in the cells of Corti's organ in guinea pigs following long-term exposure to microwaves".
124. BODEN, C., & POMPE, H. J. (1962) *Elektronische Rundschau* 16(11):517-518, (In German) "The effect of HF-radiation on living organisms"
125. BODROVA, N. V., & KRAYUKHIN, B. V. (1965) In: *Bionics*, Nauka, Moscow, pp. 264-, "The lateral line of fish as an apparatus for the perception of an electric field"
2700. BOGAC, P.G., MURUTENKO, V.N., & DOLGIJ, N.A. (1972), In: Puti povyseniya produktivnosti sel'skhozjajstvennyh zivotnyh i pticy [Ways of increasing the productivity of agricultural animals and poultry], Odessa, ___ ():3- , "Effect of VHF electromagnetic fields on the membranous potential of smooth-muscle cells of the fundal area of the rat stomach".
2115. BOGGS, R. F., & SHEPPARD, A. P. (1971) Ph.D. Dissertation, Georgia Inst. of Technology, Atlanta, Dissertation Abstr. ___:766B, (134 pages), "Determination of the effects of electromagnetic energies on the hematologic system"
2116. BOGGS, R. F., SHEPPARD, A. P., & CLARK, A. J. (1972) *Health Physics* 22(3):217-224, "Effects of 2450 MHz microwave radiation on human blood coagulation processes"
3156. BOGININ, L.F., VASIL'YEV, N.V., DARCHUK, V.A., & MELIK-GAYKAZYAN, Ye.V. (1970), Kompleksnaya Reaktsiya Limfoidnoy Tkani na Vzdeystviye Peremennogo Magnitnogo Polya, ___ ():73-74, (In Russ.), "Complex reaction of lymphoid tissue to alternating magnetic fields", [Study on rats; 200 Oe magnetic field, at a frequency of 50 Hz].
126. BOITEAU, H. (1960) *Revue des Corps de Sante des Armees* 1:637-652, (In French) "Biological effects of radar waves"
127. BOITEAU, H. (1963) *Le Medecin de Reserve* 1:1-9, (In French) "Biological action of radar waves"
2701. BOLLINGER, J.N. (1971), Contract No. F41609-70-C-0025, SWRI No. 05-2808-01, Southwest Research Institute, San Antonio, TX, (Feb.), 38 pp., Detection and evaluation of radiofrequency electromagnetic radiation-induced biological damage in *Macaca mulatta*: Final report.
3400. BOLLINGER, J.N., et al. (1974), Southwest Research Institute Rept., San Antonio, TX (AD #A006-388), 140 pps. (Nov.), "Research on biological effects of VLF-band electromagnetic radiation."
128. BOLSHUKLIN, I. D. (1959) In: *Summaries of reports, Labor Hygiene and Biological Effect of Radio Frequency Electromagnetic Waves*, Moscow, "Results of shielding of certain kinds of MF-LF generators"
3157. BOND, V.P., & CRONKITE, E.P. (1974), *Naval Research Reviews (NAVSO P-510)*, 27(7):20-21, (July), "Possible effects of [non-ionizing] electromagnetic radiations".
2702. BONNEY, C.H., RUSTAN, P.L., Jr., & FORD, G.E. (1973), *IEEE Trans. on Biomedical Engineering*, *BME-20*(5):357-364, "Evaluation of effects of the microwave oven (915 and 2450 MHz) and radar (2810 and 3050 MHz) electromagnetic radiation on noncompetitive [electronic] cardiac pacemakers".
1974. BOOTH, L. F. (1970) *Naval Research Laboratory (NRL) Memo. Rept. 2178*, "Review of microwave safety"
3401. BOOTH, L.F. (1975), *Health Physics*, 28(1):86-87, "Microwave hazards associated with small discharge cavities."
129. BORDIER, H. (1935) *Arch. of Physical Therapy* 16:263-267, "Radiotherapy combined with diathermy and galvanization in infantile paralysis: Bordier method"
3158. BORNSTEIN, L.A. (1969), Presented at the XI Latin Amer. Congress of Plastic Surgery, Bogota, Columbia, (Oct.), "Acceleration of transfer of tube pedicles and flaps", [used pulsed, high frequency electromagnetic radiation].
2703. BORODAIKEVICH, D.T. (1972), *Gig. Tr. Prof. Zabol.*, 16():52-54, (In Russ.), "Effect of pulsed magnetic fields on some biochemical blood indices in albino mice".
3402. BOROVKOV, V.A., ZAYTSEV, D.L. (1975), *Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation,"* (JPRS #64532), p. 50 only, "Maximum flux density of the power from a broadcast satellite in the 620-790 MHz frequency band."
2074. BOSISIO, R. G., & BARTHAUER, N. (1969) *J. of Microwave Power* 4:190-, (Abstr. in: *Non-ionizing Rad.* 1(4):193 only, (1970)), "Microwave protection of plants"
2075. BOSISIO, R. G., BARTHAUER, N., & SPOONER, J. (1970) *J. of Microwave Power* 5:47-53, (Abstr. in: *Non-ionizing Rad.* 1(4):193 only, (1970)), "Microwave protection of a field crop against cold"
1975. BOTANI, B., FRANCIOSI, A., & LORENZINI, R. (1953) *Boll. soc. med. chir. Modena* 53:11-14, "Biochemical effects of adrenal short-wave therapy of patients with bronchial asthma"
2704. BOTHWELL, T.P., et al. (~1950), *Ref.?*, "Electrical properties of beef erythrocyte suspensions at low frequencies".
2705. BOTHWELL, T.P., et al. (~1950), *Ref.?*, "Electrical properties of the plasma membrane of erythrocytes at low frequencies".
2117. BOUCHEAT, J., & MARSOL, C. (1967) *Arch. Ophthalmol. (Paris)* 27(6):593-596 (In Fr.), "Bilateral capsular cataracts from radar"
3159. BOULANGER, R.J., BOERNEE, W.M., & HAMID, M.A.K. (1969), *J. of Microwave Power*, 4(3):194-209, "Comparison of microwave and dielectric heating systems for the control of moisture content and insect infestations of grain".

1976. BOURGEOIS, A. E., JR. (1967) Ph.D. Thesis, Baylor Univ., (N68-23132), (University Microfilms, Order No. 67-2927), "The Effect of Microwave Exposure upon the Auditory Threshold of Humans"
130. BOURGEOIS, A. E., JR. (1967) Ph.D. Thesis (in Experimental Psychology), Baylor Univ., 117 pages, "The effect of microwave exposure upon the auditory threshold of humans"
131. BOVILL, C. B. (1960) *British Communications and Electronics* 7:363-365, "Are radar radiations dangerous? A survey of possible hazards"
2335. BOVILL, G.B. (1960), *British Communications and Electronics* (May), pp. 363-365, "Are radar radiations dangerous?"
3160. BOWERS, J.A., FRYER, B.A., & ENGLER, P.P. (1974), *Poultry Science*, 53(2):844-846, "Vitamin-B6 in turkey breast muscle cooked in microwave and conventional ovens".
132. BOWMAN, R. R. (1970) In: *Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium*, (Cleary, S. F., ed.) Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 204-209, "Quantifying hazardous microwave fields: practical considerations"
2706. BOWMAN, R.R. (1973), In: *Symp. on Microwave Power*, Loughborough, UK, Sep. 10-13, "Some recent developments in the characterization and measurement of hazardous electromagnetic fields".
133. BOYD, G. A. (1947) *Biophysics Seminar*, School of Med. & Dentistry, Univ. of Rochester, (unpublished report), (Dec.), "Athermal biological effects of microwaves"
134. BOYENKO, I. D. (1963) In: *Interceptors and the Neural Control of System Functions Under Normal and Pathological Conditions*, Teziy dokladov, Ivano-Frankovsk, "Some general features of the effect of energy of electromagnetic oscillations of varied frequency and intensity on the quality of interoceptive reflexes"
135. BOYENKO, I. D. (1964) In: *Some Problems of Physiological Biophysics*, Voronezh, Izd-vo Voronezh. Univ., pp. 7-21, "Electromagnetic field as a stimulus"
136. BOYENKO, I. D., & SHAKHGELYAN, F. G. (1968) *Fiziologicheskii Zh.*, Sechenova, USSR 54(8):937-941, "The role of reflexogenic-vascular zones in blood coagulation changes during the action of electromagnetic oscillations on the organism"
137. BOYLE, A., COOK, H. F., & BUCHANAN, T. J. (1950) *British J. of Physical Med.* 13:1-9, "Effects of microwaves, preliminary investigations"
138. BOYLE, A., COOK, H. F., & WOOLF, D. L. (1952) *Annals of Physical Med.* 1:3-16, "Further investigation into the effects of microwaves"
139. BOYSEN, J. (1953) *AMA Arch. of Industrial Hygiene & Occupational Med.* 7(6):516-525, "Hyperthermic and pathologic effects of electromagnetic radiation (350 mc)"
140. BOYSEN, J. E. (1961) *Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation*, Vol. 1 (Peyton, M. F., ed.) pp. 309-317, "A review of unanswered biological hazard operational problems"
141. BOYSEN, J. E. (1962) *J. of Occupational Med.* 4(4):192-194, "U. S. Air Force experience with microwave exposure"
142. BOZIK, L., & GRUBEROVA, J. (1967) *Pracovní Lékařství*, Prague, 19(6):249-251, "The influence of electromagnetic waves upon the nervous system"
143. BRADLEY, F. J. (1969) *Conf. on Federal-State Implementation of P.L. 90-602*, (Mar. 1969), Montgomery, Ala., (Miller, J. W., & Gerusky, T. M., Co-chm.) U.S. Dept. of HEW, P.H.S., B.R.H. Rpt. #ORO 69-4, "Review of current standards for electronic products"
2336. BRADY, M.M. (1971), *Teknisk Ukeblad* (Oslo), 118(37):17-19 & 25, (In Norwegian), "The question of radiation hazard at microwave frequencies"
144. BRANDT, A. A. (1963) *Gosudarstvennoe Izdatel'stvo Fiziko-Matematicheskoy Literatury, Moscow, Research on Dielectrics at Superhigh Frequencies*
145. BRATKOVSKIY, R. YE. (1937) In: *The Biological Action of VHF-HF-Ultrashort Waves*, (Kupalov, P. S., & Frenkel, G. L., eds.) All Union Institute of Experimental Medicine, Moscow, pp. 227-251, "The influence of an ultrahigh frequency electric field on oxidation processes and nitrogen metabolism"
1977. BRATKOVSKIY, R. E. (1938) *Fizioterapiya* 3:53-58, (In Russian) "On the effect of a UHF electrical field on the oxidation processes of nitrogen exchanges in man"
1978. BRAUER, I. (1950) *Chromosoma* 3:483-509, (In German), "Experimental studies on the effect of meter waves of various field intensities on the growth of plants by division"
2707. BRAUN, G.M. (1965), *J. of the Amer. Podiatry Assoc.*, 55() :700- , "Pulsed electromagnetic energy: A new therapeutic modality in podiatry".
1979. BRAUN, H., & THOM, G. (1956) *Strahlentherapie* 99:617-623, (In German) "Microwave studies on experimental animals"
2118. BRICHER, S. (1970) In: *Radiation Bio-Effects Summary Report*, Hodge, D. M., (ed.), Jan-Dec 1969, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. DBE 70-1), pp. 176-177, "The reversal of mitotic effects of Colcemid in cultures of human peripheral lymphocytes"
2708. BREHL, R.J. (1973), *Naval Aerospace Medical Research Lab.*, Pensacola, FL, Rept. #NAMRL-1197, "Effects of extremely low frequency (ELF) fields on cellular organelles of liver parenchymal cells of the mongolian gerbil".

2709. BREHL, R.J. (1973), Naval Aerospace Medical Research Lab., Pensacola, FL, Rept. #NAMRL- , "Effects of ELF magnetic fields on liver triglycerides of mice".
146. BREITWIESER, K. F. (1935) Arch. of Physical Therapy 16:594-598, "Analysis of selective effects of shortwave therapy"
147. BREITWIESER, C. J., & HIBBEN, J. S. (1935) Arch. of Physical Therapy 16:228-234, "Comparative analysis of heat production: Physical analysis of high frequency, radio frequency, and conductive heat"
148. BRENGS, R., JR., & BRIGNOLI, F., (1969) U. S. Navy, (July), (unpublished report), "Preliminary notes on the Navy's RF hazards (RADHAZ) program"
2119. BRETZ, K., & KLZMANN, E. (1970) In: Proc. of Hungarian Acad. of Sci., & Sci. Soc. for Telecommunication, Colloq. on Microwave Communication, 4th, Budapest (Apr. 21-24, 1970), "Effect of microwave fields on biological structures" [Nossbauer spectrum of submolecular changes of oxy-hemoglobin in animal blood exposed to microwave irradiation]
3161. BREYSSE, P.A. (1969), J. of Microwave Power, 4(1):25-28, "Microwave uses on campus: A study of environmental hazards".
2076. BREYSSE, P. A. (1969) J. Microwave Power 4:25-29, (Abstr. in: Non-ionizing Rad. 1(2):102-103, (1969), Abstract #43), "Microwave uses on the Campus; a study of environmental hazards"
2710. BRINDLEY, G.S. (1955), J. of Physiol. (London), 127():189-200, "The site of electrical excitation of the human eye", [phosphenes].
2711. BRODKIN, R.H., & BLEIBERG, J. (1973), Acta Dermatovenere (Stockholm), 53():50-52, "Cutaneous microwave injury: A report of two cases", [Dystrophic changes in finger nail plate observed in 2 workers in a snack bar which uses a microwave oven].
149. BRODY, S. I. (1953) Aviation Med. 24:328-333, "The operational hazard of microwave radiation"
150. BRODY, S. I. (1956) Institute of Radio Engineers Trans. on Medical Electronics PGME-4:8-9 (from Symposium on Physiologic and Pathologic Effects of Microwaves, Krusen, F. H., Chm., Sept. 1955), "Military aspects of the biological effects of microwave radiation"
2337. BRODY, J.E. (1973), In: The New York Time, p. ?, (Mon. Apr. 16), "Healing of fracture in animals speeded by static electricity". [Discusses animal studies at Columbia Univ. in which metal plates (held externally on both sides of a fracture by a cast), connected to a dry-cell battery, have caused healing of fractures which would not heal on their own, and have increased the healing rate of stubborn fractures.]
3162. BROWN, C.C., (1975), American Psychologist, 30(3):402-410, (Mar.), "Electroanesthesia and electrosleep".
151. BROWN, F. A., JR. (1971) In: Conf. on "Orientation: Sensory Basis" (Adlar, H. E., (ed.) & Conf. Chairman), Acad. of Sciences 188:224-241, "Some orientational influences of non-visual, terrestrial electromagnetic fields" Ann. N. Y.
2712. BROWN, F.A., Jr. (1972), American Scientist, __ (): , (Nov.-Dec.), "The 'clocks' timing biological rhythms", [Recent discoveries suggest that the mysterious biological clock phenomenon results from a continuous interaction between organisms and the subtle geophysical environment].
3403. BROWN, F.A., Jr., & CHOW, C.S. (1973), Biol. Bull., 144():437-461 (June), "Interorganismic and environmental influences through extremely weak electromagnetic fields."
2338. BROWN, G.H. (1970?), Bur. of Radiological Health Seminar Paper No. 009, Public Health Service, Dept. of Health, Education, & Welfare, "Properties of liquid crystals and their application to the measurement of microwaves and infrared radiation".
152. BROWN, G. H., BOYLER, C. N., & BIERWIRTH, R. A. (1947) D. Van Nostrand Co., Inc., New York, 384 pages, Theory and Application of Radio Frequency Heating
153. BROWN, G. H., & MORRISON, W. C. (1954) Food Technology 8:361-366 (Also IRE Trans. on Medical Electronics PGME-4:16 only, (1955), (Abstr. from Symposium on Physiologic and Pathologic Effects of Microwaves, Krusen, F. H., Chm., Sept. 1955), "An exploration of the effects of strong RF fields on micro-organisms in aqueous solutions"
2129. BRUNN, P. F. (1965) Brit. Comm. & Electronics 12:20-23, (Abstr. #A65-14639), "Measuring intense RF radiation" [including radiation effects on humans]
2713. BROWN, T.P. (1972), The Wall Street Journal, Wed., Nov. 8, (p. 34 only), "Cool cooking: For housewife in a hurry, microwave oven becomes an increasingly popular appliance".
154. BROWN, W. S., JR. (1952) Lockheed Aircraft Corp., Burbank, Calif., (Rpt SDR-1072, AD 139961), "Physiological hazard of non-ionizing radiation"
2714. BRUESCHKE, E.E., & BRIDGES, J.E. (1970), Rept., IIT Research Institute, Chicago, IL "Effect of electromagnetic interference on cardiac pacemakers".
3404. BRUNHART, G., CARTER, R.E., & VALENCIA, V.I. (1973), Armed Forces Radiobiology Research Institute, Defense Nuclear Agency, Bethesda, MD, AFRRRI Technical Note No. TN73-14, "AFRRRI electromagnetic pulse (EMP) simulator."
155. BRUNNER, G. D., LEHMANN, J. F., McMILLAN, J. A., JOHNSTON, V. C., & GUY, A. W. (1963) Annals of Physical Med. 7(4):121-132 & p. 139, "Temperature distributions as produced by microwaves in specimens under therapeutic conditions"
156. BRYAN, R. M. (1966) Science 163(3738):897-899, "Retrograde amnesia: effects of handling and microwave radiation"

157. BUBAK, K. (1959) *Biological Abstracts* 36, pt. 670815, 2(1/3):358-363, "Biological effects of electromagnetic radiation within the scope of cm waves"
158. BUCHANAN, A. R., HEIM, H. C., & KRAUSHAAR, J. J. (1961) Air Force Systems Command (AD 265279), 166 pages, (see especially p. 95), "Biomedical effects of exposure to electromagnetic radiation. Part II. Biomedical effects on the eye from exposure to microwaves and ionizing radiations"
2121. BUCHMAN, M. F. (1971) *Pennsylvania Triangle* (A Univ. of Penna. Undergraduate Publication 59(2):6-9 (Nov), "Electromagnetic response in bone"
2122. BUND, E. A., LASKEY, J., & KELLY, C. (1970), In: *Radiation Bio-Effects Summary Report*, Hodne, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRH/DBF 70-7), pp. 161-163, "Hematological response of fetal rats following 2450 Mhz microwave irradiation;" and (with BOUTS, L.) pp. 164-166, "Kinetics of mouse hematopoietic colony-forming units following injury by 2450 Mhz microwave irradiation"
159. BUDKO, L. N. (1964) In: *Some Questions of Physiology and Biophysics*, Trudy Otdeleniya, Voronezh, Izd-vo Voronezh Univ., pp. 31-, "Dynamics of carbohydrate metabolism in isolated liver of white rats on exposure to electromagnetic fields of different frequencies"; and pp. 73-, "Change in blood carbohydrate content due to the action of electromagnetic radiation of audio- and radio-frequency ranges on organisms"
160. BUDKO, L. N., & KOSTYUK, A. YU. (1964) In: *Some Problems of Physiology and Biophysics*, Trudy Otdeleniya, Voronezh, Izd-vo Voronezh, Univ., pp. 21-25, "The effect of certain portions of the electromagnetic spectrum on the sorption of alkaline stain by the organs of white rats"
161. BUKSA, L. G. (1950) Tr. Pervakogo Gosudarstvennogo Med. Inst. (24-25):pp. ? "The effects of magnetic fields, electric fields, HF-VHF fields, and ultraviolet radiation on the reproduction of yeast"
2715. BULLOCK, T.H. (1973), *American Scientist*, 61(): , "Seeing the world through a new sense: Electroreception in fish," [Sharks, catfish, and electric fish use low or high frequency electroreceptors, actively and passively, in object detection and social communication].
1980. BURCHELL, H. B. (1961) *Circulation* 24:161-, "Hidden hazards of cardiac pacemakers"
162. BURGESS, J. S. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.), 1:32-34, "High power microwave facilities"
163. BURMAN, A. S. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:124-135, "Some recent developments in pulsed energy sleep"
2123. BURMISTER, H. (1956) *Klin. Wbl. Augenh.* 129(3):336-342, (In Ger.), (Abstr. in: *Zentralbl. f. d. ges. ophth.* 71(2):111 (July 1957)), "Results of irradiating the eyes with microwaves"
164. BURNER, A. M. (Chairman) (1968) Symposium on Microwave Power, Internat. Microwave Power Institute, Boston, Mass., (Transcript & Supplementary Material) San Francisco Press, Inc., *Biological Effects of Microwaves: Future Research Directions*
2124. BURNER, A. M. (1969), *IEEE Internat. Conf. on Communication*, Vol. 69C29-COM, (June 9-11), pp. 32-1 through 32-6, "Biologic effects of radio and microwaves: present knowledge; future directions"
165. BURNER, A. M. (Moderator), TELLES, N., MICHAELSON, S. J., FREY, A., ALPEN, E., CARPENTER, R. L., SUSSKIND, C., & HELLER, J. H. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 248-262, "Panel discussion II: Future needs in research on the biological effects of microwave and RF radiation"
166. BURR, H., & MAURO, A. (1949) *Yale J. of Biology and Med.* 21:455-, "Electrostatic fields and the sciatic nerve in the frog"
2716. BURROWS, D.C. (1973), Letter to Editor, *Microwaves*, 12(10):86 only, (Oct.) "Facial burns from a microwave oven?", and letter of response by VAN ALLEN, J.A.
2339. BURTON, C. (1971), *IEEE Trans. on Bio-Medical Engineering*, BME-18(3):242-245, "Conference on RF neuromagnetics — Summary of proceedings"
2340. BURTON, C., HILL, M., & WALKER, A.E. (1971), *IEEE Trans. on Bio-Medical Engineering*, BME-18(2):104-109, "The Thermoseed — A thermally self-regulating implant for the production of brain lesions"
167. BUSCO, R., & COMIGNANI, L. (1967) *Rivista di Medicina Aeronautica e Spaziale* (Rome) 30:469-528, "Current knowledge regarding the effects of radar waves on living organisms and the protective equipment involved. Part I. General principles of the physiological effects"; pp. 718-757, "Part II"
168. BUTKINA, T. K. (1959) In: *Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves*, Moscow, "Sanitary hygienic working conditions and the health of individuals exposed simultaneously to x-rays and centimeter waves"
169. BUTKINA, T. K., VORONTSOVA, A. S., GIRSKAYA, E. N., DUBROVSKAYA, L. R., & KLYACHINA, I. E. (1959) In: *Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves*; pages?; title ?
170. BYALKO, N. K., & SADCHIKOVA, M. A. (1964) *Trudy Nii Gigiyena Truda i Profzabolevaniya, USSR*, (2):137-139, "Some biochemical blood indices under the action of centimeter waves"
171. BYCHKOV, M. S. (1957) *Trudy Voen. Meditsinsk Akad. i Kirov, USSR*, 73:58-77, "Changes of electric activity of the cortex of the large hemispheres in animals exposed to SHF-UHF electromagnetic fields"
172. BYCHKOV, M. S. (1959) In: *Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves*, pp. 49 only, "Electrophysiological characteristic of the biological effect of microwave electromagnetic fields of various parameters"

2125. BYCHKOV, H. S. (1961) Tr Lening. Obshchestva Yestestvoispytatelye 62(1):110-, "The effect of an SHF electrical field on strychnine poisoning in white mice"
173. BYCHKOV, M. S. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad; pp. 6-8 & 8-9, "On the mechanism of action of a SHF-UHF electromagnetic field"
174. BYCHKOV, M. S. (1967) In: Abstracts of reports of the All Union Conference on Neurocybernetics, Rostov-on-Don, pp. 17-18, "Neurophysiological characteristics of the specific effects of radiowaves in the SHF-UHF range"
175. BYCHKOV, M. S., & MOREVA, Z. E. (1960) Trans. Leningrad Obshchest. Isp'tatel. Prirod. 71:178-, "The effect of radio-waves in the SHF range on a frog nerve-muscle preparation"
176. BYCHKOV, M. S., & SYNGAYEVSKAYA, V. A. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad. pp. 9-11, "Data on the non-thermal effect of SHF-UHF fields on the cholinergic systems of an organism"
177. BYNUM, J. A. (1966) Ph.D. Dissertation, Baylor Univ., 103 pages, "The effects of UHF fields on retention in a verbal learning task"
178. CAFFARATTO, T. M. (1946) La Ginecologia 12(9):237-249, "Leukocytis vaginicae following shortwave therapy"
179. CALDERON, A. P. (1953) Ohio State Univ. Research Foundation, Rpt 478-18, (AD 19536), "The computation of radiation and scattered electromagnetic fields"
2126. CALDWELL, J. C., CLARK, W. B., DOUGHERTY, J. D., & HOWE, W. M. (1965) Aerospace Medicine 36:466-471 (Rept. #A65-81073), Evaluation of an alleged case of radiation-induced cataract at a radar site"
2717. CALDWELL, W.E., GADDIS, E., & WEBBER, M. (1969), J. of Genetic Psychology, 115():7-16, "An operant [RF] electromagnetic chamber"
3405. CALDWELL, W.E., & RUSSO, F. (1968), The J. of Genetic Psychology, 113():233-252, "An exploratory study of the effects of an A.C. magnetic field upon the behavior of the Italian honeybee (*Apis mellifica*)."
2718. CAMERON, B.M. (1961), *Am. J. of Orthopedics*, __ ():336-343, (Nov.), "Experimental acceleration of wound healing", (using pulsed, high-frequency radio waves in dogs).
180. CAPPELLI, L. (Editor) (1935) Book (in 2 volumes) Bologna (Papers in English, French, German, or Italian), 1330 pages, Proc. of First International Congress of Electro-Radio-Biology, Sept. 1934, Venica
2127. CARAMAZZA, F. (1932) Atti Cong. Soc. Oftal. Ital. 31:264-274 (In Ital.), (Abstr. in: Zentralbl. f. d. ges. Ophth. 31(2): 71-72 (1934)), "Experimental research on adhesive chorioretinitis due to diathermy coagulation of the diasclera"
2128. CARAMAZZA, F. (1933) Boll. Ocul. 12:1357-1426, (In Ital.), (Abstr. in: Zentralbl. f. d. ges. Ophth. 31(11):658 (1934)), "Adhesive chorioretinitis after diascleral and transcleral diathermocoagulation"
181. CARD, R. H. (1937) Trans. of the National Safety Congress 8:8-12, "The hazard of radio transmitters and their correction"
182. CARLETON, R. A., SESSIONS, R. W., & GRAETTINGER, J. S. (1964) J. of the Amer. Medical Assoc. 190(10):938-940, "Environmental influence on implantable cardiac pacemakers"
183. CARLEY, W. S., & STURGILL, L. G. (1961) Unpublished (Report to Bureau of Ships, USN, from Jansky & Bailey, Division of Atlantic Research, Washington, D. C.), "Calculations of hazardous zones of electromagnetic radiation"
2129. CARLOTI, M., ROLAND, J., & ROLAND, M. (1936) Rev. Oto-neuro-oftal. 14(4):260-268, (In Fr.), (Abstr. in: Zentralbl. f. d. ges. Ophth. 36(11/12):644 (1936)), "The effects of short waves of very high frequency on the superficial circulation of the ocular globe, the retina, and the optic nerve"
2130. CARLSON, N. L. (1967) Report (N67-25893, NASA-CR 83925, NSR-36008027), "Dielectric constant of vegetation at 8.5 GHz"
184. CARNEY, S. A., LAWRENCE, J. C., & RICKETTS, C. E. (1968) British J. of Industrial Med. (Part I) 25:223-228; (Part II) 229-234; (Part III) *ibid.* 27:72-76 (1970), "Effect of microwaves at X-band on guinea pig skin in tissue culture. Part I. Microwave apparatus for exposing tissue and the effect of the radiation on skin respiration. Part II. Effect of the radiation on skin biochemistry. Part III. Effect of pulsed microwaves on skin respiration and biochemistry"
185. CARPENTER, C. M., & BOAK, R. A. (1930) Amer. J. of Syphilis 14:346-365, "The effect of heat produced by an ultrahigh frequency oscillator on experimental syphilis in rabbits"
186. CARPENTER, C. M., & PAGE, A. B. (1930) Science 71(1844):450-452, "Production of fever in man by short radio waves"
187. CARPENTER, R. L. (1957) Tufts Univ., Medford, Mass., Informal Progress Report to U. S. Air Force on the "Cumulative effects of 12.3 cm radiation on the eyes of rabbits"
188. CARPENTER, R. L. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:146-168, "Review of the work conducted at Tufts Univ. (USAF sponsored); experimental radiation cataracts induced by microwave radiation"
189. CARPENTER, R. L. (1959) Digest of Tech. Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chm.), Pub. Lewis Winner, New York, p. 52 only, "Opacities in the lens of the eye experimentally induced by exposure to microwave radiation"

190. CARPENTER, R. L. (1959) Proc. 3rd Tri-service Conf. on the Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:279-290 (RADC-TR-59140, AD 234788), "Studies on the effects of 2450 megacycle radiation on the eye of the rabbit"
191. CARPENTER, R. L. (1962) Rept. RADC-TDR-62-131 (AD 275840), (Also in Senate Hearings, pp. 991-1049), "An experimental study of the biological effects of microwave radiation in relation to the eye"
192. CARPENTER, R. L. (1965) Digest of 6th Internat. Conf. on Medical Electronics and Biological Engineering, pp. 573-574, "Suppression of differentiation in living tissues exposed to microwave radiation"
3163. CARPENTER, R.L. (1968), J. of Microwave Power, 3(1):3-20, "The action of microwave radiation on the eye".
[See also citation #203, this biblio.].
2719. CARPENTER, R.L. (1970), Archives of Ophthalmology (Chicago), 84():1- , "Reporting radiation [including non-ionizing?] incidents".
193. CARPENTER, R. L. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. P., ed.) Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 76-81, "Experimental microwave cataract: a review"
194. CARPENTER, R. L. (Chm.) (1971) "Microwave" Session of the Internat. Conf. on Non-Ionizing Radiation Safety, 29-31 Mar., Cincinnati, Ohio, sponsored by Medical Center of U. of Cincinnati
2341. CARPENTER, R.L. (19), Ref ?, "Case reports of effects associated with accidental exposure to microwaves".
195. CARPENTER, R. L., BIDDLE, D. K., & VAN UMMERSEN, C. A. (1959) In Investigators' Conf. on Biological Effects of Electronic Radiating Equipments (Knauf, G. M., Chm.) RADC-TR-59-67, pp. 12-15, (AD 214693), "Report on work in progress at Tufts University"
196. CARPENTER, R. L., BIDDLE, D. K., & VAN UMMERSEN, C. A. (1960) Institute of Radio Engineers Trans. on Medical Electronics, ME-7(3):152-157, "Opacities in the lens of the eye experimentally induced by exposure to microwave radiation"
197. CARPENTER, R. L., BIDDLE, D. K., & VAN UMMERSEN, C. A. (1960) From Proc. of 3rd Internat. Conf. on Medical Electronics, Part 3, London, pp. 401-408, (Also in Senate Hearings, pp. 982-990), "Biological effects of microwave radiation with particular reference to the eye"
198. CARPENTER, R. L., BIDDLE, D. K., & VAN UMMERSEN, C. A. (1961) Digest of Internat. Conf. on Medical Electronics, Biological Effects of Microwaves I (Athermal Aspects), (Frommer, P. L., ed.) Plenum Press, New York, pp. 196-, "Comparison of absorption by normal and phantom eyes exposed to cataractogenic doses of microwave radiation at 2450 mc and 10,050 mc"
199. CARPENTER, R. L., et al. (1961) Digest of Internat. Conf. on Medical Electronics, Biological Effects of Microwaves I (Athermal Aspects), (Frommer, P. L., ed.), Plenum Press, New York, New York, 26:5-, "The effect on the rabbit eye of microwave radiation at x-band regions"
200. CARPENTER, R. L., BIDDLE, D. K., VAN UMMERSEN, C., MANGAHAS, C. P., & FREEMAN, H. M. (1959) Amer. J. of Ophthalmology 47:94 only, (Abstract of paper presented at meeting of Eastern Section of Assoc. for Research in Ophthalmology, Inc., Nov. 1958, at New York Univ.), "Experimental radiation cataracts induced by microwave radiation"
201. CARPENTER, R. L., & CLARK, V. A. (1966) In: Environmental Biology, Altman, P. L., & Dittner, D. C. (eds.), Federation of Amer. Soc. for Experimental Biology, Bethesda, Md., (AD 646890), pp. 131-139, "Responses to radio frequency radiation"
202. CARPENTER, R. L., & LIVSTONE, E. M. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MIT-19(2):173-178, "Evidence for nonthermal effects of microwave radiation: abnormal development of irradiated insect pupae"
203. CARPENTER, R. L., & VAN UMMERSEN, C. A. (1968) J. of Microwave Power 3(1):3-19, (AD 668619), "The action of microwave radiation on the eye"
204. CARPENTER, R. L., & VAN UMMERSEN, C. A. (1968) Proc. of Hearings before Committee of Congress, U. S. Senate, 90th Congress, on Radiation Control for Health and Safety Act of 1967, Part 2, Serial No. 90-49, pp. 955-971, "The action of microwave radiation on the eye"
2720. CARR, P.H. (1966), Rept. No. AFCRL-66-802, Air Force Cambridge Res. Labs., L.G. Hanscom Field, Bedford, MA, (Dec.), "Harmonic generation of microwave phonons by radiation pressure and by the phonon-phonon interaction".
2131. CARROLL, D. E. & LOPEZ, A. (1969), J. of Food Science 34:320-324, "Lethality of radiofrequency energy upon microorganisms in liquid, buffered, and alcoholic food systems"
2132. CARSON, R. W., & INNIS, W. E. (1970) Naval Weapons Lab. (Dahlgren, Va.), Tech. Rept. TR-2481, "Electrical impedance of the human body for HF (2-30 MHz) band, (Initial results)"
205. CARSTENSEN, E. L. (1962) Army Report, Ft. Detrick Tech. Rept. MS-23, (AD 293693), 9 pages, "Internal conductivity of Escherichia coli"
2721. CARSTENSEN, E.L., LI, K., & SCHWAN, H.P. (1953), The J. of the Optical Soc. of Amer., 25(2):286-289, (Mar.) "Determination of the acoustic properties of blood and its components".
206. CASSIANO, O., & AUDISIO, B. (1966) Minerva Anestesiologica (Torino), 32:261-264, (In Italian) "Some neurovegetative responses to the action of electromagnetic fields in man"

207. CASSIANO, O., CARTA, Q., & TRONCONE, S. (1967) *Minerva Anestesiologica* (Torino), 33:326-329, (In Italian) "Action of electromagnetic fields on the glycaemic level of normal and diabetic subjects"
208. CASTALDI, L. (1934) Abstracts of the 1st Internat. Congress of Electro-radio-biology (Cappelli, L., ed., Bologna, Italy), pp. 277-335, (In Italian with English summary), "Biological effect of high-frequency waves"
3164. CATHCART, W.H., PARKER, J.J., & BEATTIE, H.G. (1946), *Food Tech.*, 1():174-177, "The treatment of packaged bread with high frequency heat".
3406. CATRAVAS, G.N. (1975), Armed Forces Radiobiology Research Institute Rept., (AFRRI TN75-8), (Dec.), 5 pps., "Styrofoam cages for rats used in microwave research: Coating with quinine" [to reduce chewing by the animals].
209. CAVALLARO, L. (1934) Abstracts of the 1st Internat. Congress of Electro-radio-biology (Cappelli, L., ed., Bologna, Italy), pp. 341-350, (In Italian with English summary) "Dispersion of radio frequency waves in protein systems"
210. CAZZAMALLI, F. (1952), *Neurologica*, 6:193- . (AD #273787), "The effects of radar on the human body."
211. CAZZAMALLI, F. (1960), In: Il Cervelle Radiante, (in Italian), (U.S. Army Engr. Res. & Dev. Lab. Transl. T-1695), (AD #422217, 42 page translated report), pp. 125-152, FTD-TT-65-759/1+2+3+4 (dtd 22 Mar 66), "On a cerebro-psyche radiation phenomenon (cerebro-psyche radiation reflex) as a means of psychophysical exploration."
212. CAZZAMALLI, F. (1960), In: Il Cervelle Radiante, (in Italian), (U.S. Army Engr. Res. & Dev. Lab. Transl. T-1696), (AD #422218, 40 page translated report), pp. 153-194, FTD-TT-65-759/1+2+3+4 (dtd 22 Mar 66), "Electromagnetic phenomena which radiates from the human brain during intense psychosensorial activity from dreamy, hallucinatory and telepsychic states."
2133. CEPERO-GARCIA, G., & COMAS-CESPEDES, L. (1933) *Rev. Cubana Oto-neuro-oftal.* 2:199-208 (July/Aug), (In Span.), (Abstr. in: *Zentralbl. f. d. ges. Ophth.* 30(9):488 (1934)), "The action of medical diathermy on the normal and pathologic eye"
2342. CHAI, S-Y., & VOGELHUT, P.O. (1967), *Journal of Applied Physics*, 38(2):613-618, "Hall effect in dielectric media. Microwave X-band Faraday rotation of water absorbed on hemoglobin".
213. CHALOV, V. G. (1968) *Voenno-Meditsinski Zh.* (5):24-26, "The effect of a SHF-UHF field on the functional condition of the otorhinolaryngological organs"
2722. CHAN, A.K., SIGELMANN, R.A., GUY, A.W., & LEHMANN, J.F. (1973), *IEEE Trans. on Biomed. Engineering*, BME-20(2):86-90, (Mar.), "Calculation by the method of finite differences of the temperature distribution in layered [biological] tissues [applicable to a thermal source such as microwave radiation]".
2134. CHASON, L. R. (19??) Ph.D. Dissertation, Baylor University, "The effects of visible light and microwave radiation on endocrine organs in the rat"
3165. CHELDIZE, T.L., KIKNADZE, V.D., & KEVLISHV, G.E. (1974), *Biofizika*, 19(3):479-483, "Dielectric spectroscopy of blood. 4. Dielectric spectra of blood after action of physical and chemical agents".
3407. CHENG, D.K. (1975), *European Scientific Notes* (Office of Naval Research), 29(12):515-518 (31 Dec.), "[Report on] Fifth European microwave conference: The invited papers."
2135. CHERNOVA, L. K. (1965) *Electronic Treatment of Material* (3):89-96, (N66-36597), "On the role of electrical and magnetic fields in the vital activities of biological systems"
3408. CHERNYSHEVA, M.A. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation," (JPRS #64532), p. 47 only, "Participation of the central nervous system in the regulation of carbohydrate metabolism in animals exposed to an ultrahigh-frequency field."
3409. CHERNYSHEVA, O.N., & KOLODUB, F.A. (1975), *Gigiyena Truda*, (11):20-23, (in Russian), Transl. In: *Effects of Non-Ionizing Electromagnetic Radiation* (JPRS #L/5615), 10 Feb. 1976, pp. 33-37, "Effect of a variable magnetic field of industrial frequency (50 Hz) on metabolic processes in the organs of rats."
2343. CHILTON, D.J. (1972), Ref. ?, "Human telecommunications: A review of the literature on 'Biological Radio Communication' and related topics".
214. CHIRKOV, M. M. (1964) In: Some Questions of Physiology and Biophysics, *Trudy Otdeleniya, Voronezh, Izd-vo Voronezh, Univ.*, pp. 25-31, (In Russian), "The effect of the energy of electromagnetic radiation of the acoustic spectrum on catalase activity in blood"
2344. CHISTIANKOVA, N.S., et al. (1972), *Voprosy Kurortologii Fizioterapii i Lechebnoi Fizicheskoi Kul'try*, 37:341-344, (July-Aug.), (in Russ.), "Dynamics of electrogastrographic indices during complex therapy involving the use of microwaves in patients with gastric and duodenal ulcers."
3166. CHISTIANKOVA, N.S., SKURIKHINA, L.A., MAMAEVA, Z.K., & ARAPOVA, A.D. (1972), *Vopr. Kurortol. Fizioter. Lech. Fiz. Kult.*, 37():341-344, (In Russ.), "Changes in electrogastrographic parameters in patients with peptic ulcers after combined therapy in which microwave radiation was used", [with chemotherapy].
3411. CHIZHENKOVA, R.A. (1962), *Zhurnal vysshey nervnoy deyatel'nosti*, (2):313-321, Transl. In: JPRS #64532 (cited #3410), "Role of different brain formations in EEG reactions of rabbits to a CMF and to UHF and SHF fields."
217. CHIZHENKOVA, R. A. (1967) *Fiziologicheski Zh. SSSR, Moscow* 53(5):514-519, (In Russian) (ATD Rpt 68-105-108-9, Abstract (June 1968), pp. 70-72, Soviet Radiobiology), "Brain biopotentials in the rabbit during exposure to electromagnetic fields"
218. CHIZHENKOVA, R. A. (1967) *Zh. Vysshei Nervnoi Deiatel'nosti, Moscow* 17(6):1083-1090 (In Russian, English abstract), "Electrical reaction of a rabbit's cerebral cortex to various electromagnetic fields"

215. CHIZHENKOVA, R. A. (1966) *Biulleten Eksperimental'noi Biologii i Meditsiny*, Moscow 61(6):11-15, "Changes in the EEG of rabbits during the action of a constant magnetic field"
216. CHIZHENKOVA, R. A. (1967) *Zh. Vysshei Nervnoi Deiatel'nosti imeni I. P. Pavlova*, Moscow 17(2):313-321, (In Russian, English abstract), (ATD Rpt 68-105-108-9, Abstract, (June 1968), p. 69 only, *Soviet Radiobiology*, AD 671436), "The role of various brain formations in EEG responses of rabbits to a constant magnetic field and to VHF-HF and SHF-UHF electromagnetic fields"
219. CHIZHENKOVA, R. A. (1969) *Zh. Vysshei Nervnoi Deiatel'nosti Pavlov USSR* 19(3):495-501, (In Russian, English summary), "Background and evoked neuron activity in the visual cortex of rabbits following exposure to the action of a SHF-UHF field"
3410. CHIZHENKOVA, R.A. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation," (JPRS #64532), pp. 10-22, "The role of different brain formations in EEG reactions of rabbits to a constant magnetic field and to ultrahigh- and superhigh-frequency electromagnetic fields."
220. CHRISTIANSON, C. (1963) Presentation: Naval Material Lab. Program Summary, "Radiation hazards body protection devices"
221. CHRISTIANSON, C., & RUTKOWSKI, A. (1966) Naval Applied Sci. Lab. Tech. Memo No. 3 (Jan 1967), Brooklyn; (AD 645696); (Also presented at 4th Annual Navy-wide Workshop in the Biological Sciences, Nav. Med. Res. Unit #4, Great Lakes, Ill., Oct. 1966), "Electromagnetic radiation hazards in the Navy"
222. CHRISTIE, R. V., & LOOMIS, A. L. (1929) *J. Experimental Med.* 49:303-321, "The relation of frequency to the physiological effects of ultra-high frequency currents"
3412. CHRISTMAN, C.L., HO, H.S., & YARROW, S. (1974), *IEEE Trans. on Microwave Theory and Techniques*, MTT-22(12):1267-1272 (Dec.), "Microwave dosimetry system for measured sampled integral-dose rate." [cited in #3121, this Bibli.]
223. CHUKHLOVIN, B. A. (1965) *Voенно-Meditsinskiй Zh.*, Moscow (Military Medical Journal), (7):25-29, "The effect of SHF-UHF electromagnetic radiation on the immunobiological properties of the organism"
2723. CHUKHLOVIN, B.A. (1977), *Soviet Military Med.*, ():27-32, "The effect of UHF electromagnetic radiation on the immunobiological properties of the organism".
224. CHUKHLOVIN, B., A., GRACHEV, B. N., & LIKINA, I. V. (1966) *Biulleten Eksperimental'noi Biologii i Meditsiny*, Moscow 61(6):53-55, "The detection of C- and C_x reactive protein in the blood serum during exposure of the organism to SHF-UHF electromagnetic waves"
225. CIECIURA, L., KARASEK, M., PAWLINKOWSKI, M., & MINECKI, L. (1965) *Folia Morphologica (Warszawa)* 28(3):343-351, (In Polish with English summary) "The influence of microwaves radiation on the ultrastructure of the pineal gland of white rats"
226. CIECIURA, L., & MINECKI, L. (1962) *Lekarz Wojskowy*, Poland 38(6):519-530, (In Polish, French summary), "Pathological changes in the testes of rats subjected to single or repeated doses of microwaves (S band)"
3413. CIECIURA, L., & MINECKI, L. (1964), *Medycyna Pracy*, 15(3):159-168, (in Pol. with Engl. summary), "Distribution and activity of some hydrolytic enzymes in the testicles of rats exposed to the action of microwaves ('S' Band)."
227. CIECIURA, L., & MINECKI, I.L. (1966), *Medycyna Pracy*, 17:507-514, "Histopathological changes in the testes of rats exposed to the action of microwave radiation in hypothermal condition."
228. CIGNOLINI, P. (1947) *Minerva Medicine* 38:284-285, (In Italian) "Dosimetry in shortwave therapy"
229. CIGNOLINI, P., & OLIVIERI, (). (1936) *Rev. de Physiotherap.* (3):212-, "The action of high frequency electromagnetic waves on the circulatory system"
230. CIMITAN, O. (1951) *Giornaledi Science Mediche (Venezia)* 6:138-140, "Effect of shortwave irradiation on bacteria"
2725. CLARK, C.L., PECK, R.A., & HOLLANDER, W.F. (1948), *J. of Applied Physics*, 19() :1183- , "The homing pigeon in electromagnetic fields".
231. CLARK, J. W. (1950) *Proc. of the Institute of Radio Engineers* 38(9):1028-1032, "Effects of intense microwave radiation on living organisms"
232. CLARK, J. W., HINES, H. M., & SALISBURY, W. W. (1949) *Electronics* 22:66-, "Exposure to microwaves: recent experiments on animals with high intensity 12 cm radiation"
233. CLARK, L. A. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments* (Suskind, C., ed.) 3:239-243, "Eye study survey"
234. CLARK, W. B. (1952) *Trans. of the Amer. Acad. of Ophthalmology* 56:600-607, "Microwave diathermy in ophthalmology: clinical evaluation"
2077. CLEARY, S. F. (1970) *Critical Reviews in Environmental Control* 1 (Chemical Rubber Co.):257-306, (Abstr. in: Non-ionizing Rad. 1(4):194 only, (1970)), "Biological effects of microwave and radio frequency radiation"
235. CLEARY, S. F. (Ed.) (1970) Symposium held at Medical College of Virginia, Richmond, 17-19 Sept. 1969, U. S. Dept. of Health, Education, and Welfare, Public Health Service, Bureau of Radiological Health, Division of Biological Effects, Rept. No. 70-2, (PB 193-898), *Proceedings, Biological Effects and Health Implications of Microwave Radiation*; Also: "Chairman's Remarks" and "Introductory Comments"
236. CLEARY, S. F. (1970) *Amer. Industrial Hygiene Assoc. J.* 31:52-59, "Considerations in the evaluation of the biological effects of exposure to microwave radiation"

2345. CLEARY, S.F. (1973). *Health Physics*, 25():387-404, "Uncertainties in the evaluation of the biological effects of microwave and radio-frequency radiation."
3414. CLEARY, S.F. (1974). Rept., Virginia Commonwealth University, Richmond, (AD #785-739), (ASR-2), 84 pps., "Effects of low intensity microwave radiation on mammalian serum proteins" [rabbits].
237. CLEARY, S. F., & HAM, W. T., JR. (1969) Task Force on Research Planning in Environmental Health Science, Subtask Force on Physical Factors in the Environment (background document), (unpublished), Part I. "Considerations in the evaluation of the biological effects of exposure to microwave radiation"
238. CLEARY, S. F., & PASTERNAK, B. S. (1966) *Arch. of Environmental Health* 12:23-29, "Lenticular changes in microwave workers"
(A65-82038)
239. CLEARY, S. F., PASTERNAK, B. S., & BEEBE, G. W. (1965) *Arch. of Environmental Health* 11:179-182, "Cataract incidence in radar workers"
240. CLEARY, S.F., PASTERNAK, B., & EISENBUD, M. (1964). Institute of Environmental Medicine, NY Univ. Med. Center, Report, (June), "Relationship of environmental factors to lenticular changes in microwave workers."
2726. CLEMEDSON, C.J. (1961), T. Milt. Halsov., (in Swedish), (86):69-163. (Transl. as FTD-TT-64-862/1+2, (1965), Wright-Patterson AFB, 132 pps.), "Biological effects of microwave radiation and possible risks from radar."
3415. CLEMENT-METRAL, J.D. (1975), *J. of the Federation of European Biological Societies*, 50(2):257-260, (February), "Direct observation [using fluorescence emission] of the rotation in a constant magnetic field [of strength up to 20 kG] of highly organized lamellar structures" [lettuce chloroplasts].
241. CLOSE, P. & BEISCHER, D. E. (1962) Naval School of Aviation Medicine, BUMED and NASA Report, "Experiments with Drosophila melanogaster in magnetic fields"
2727. COATS, G.I., NELSON, C.B., & UNDERWOOD, R.G. (1970), In: Proc. of the 4th Annual Midyear Topical Symposium, the Health Physics Soc., Louisville, Ky., 28-30 Jan.; Bureau of Radiological Health, U.S. Dept. of Health, Education & Welfare, Rept. No. BRH/DEP 70-26, (Oct.), pps. 141-158, "The di pole/slot radiation pattern and its use in understanding microwave leakage and survey techniques".
2728. COCHRAN, G.V.B., (19), *Arch. of the N.Y. Acad. of Med.*, 48(7): p. 7, (Aug.), "Experimental methods for stimulation of bone healing".
1982. COCOZZA, G., BLASIO, A., & NUNZIATA, B., (1960) *Pediatria rivista d'igiene med. e chir. dell'infanzia* 68(1):7-23, (In Italian) "Remarks on short-wave embryopathy"
242. COGAN, D. G. (1950) *J. Amer. Medical Assoc.* 142(3):145-151, "Lesions of the eye from radiation energy"
2136. COGAN, D. G. (1958) In: Systemic Ophthalmology, Part VI, Chapt. 4, sec. IV, pp. 637-643 (Sorsby, A., ed.), 2nd edition, London: Butterworth & Co., Ltd., "Radiant energy" [Effects on eye of various forms of radiation; including r-f, microwaves, etc.
243. COGAN, D. G. (1959) *AMA Arch. of Industrial Health* 20:293-, "Ocular effects of radiation"
2137. COGAN, D. G., DONALDSON, D. D., & REESE, A. B. (1952) *AMA Arch. of Ophthalmol.* 47:55-70, "Clinical and pathological characteristics of radiation cataract"
244. COGAN, D. G., FRICKER, S. J., LUBIN, M., DONALDSON, D. D., & HARDY, H. (1958) *AMA Arch. of Industrial Health* 18(4):299-302, "Cataracts and ultra-high-frequency radiation"
2138. COHEN, B.H., & LILIENTHAL, A.M. (1970), *Annals of the NY Academy of Science*, 171, Art.2:320-327, "The epidemiological study of mongolism in Baltimore." ["... there was a suggested relationship of Mongolism with paternal radar exposure"]
3416. COHEN, D. (1975), *Physics Today*, ():35-43, (August), "Magnetic fields of the human body."
2139. COHEN, L., & WOLICKI, E. A. (1971) Naval Research Laboratory Rept. #7306, 18 pp. (AD 887806L), "Nuclear resonance absorption as a diagnostic and investigative technique" [including a discussion of the interaction of short-wavelength electromagnetic radiation with matter]
2729. COHEN, M.E., & WHITE, P.D., (1951), *Psychosomatic Medicine*, 13():335-357, "Life situations, emotions, and neuro-circulatory asthenia".
245. COLSON, C., et al. (1970) *Bulletin de la Classe des Sciences, Academie Royale de Belgique* 56(9):960-, & 983-, "Action of electromagnetic radiations on proteins, Parts I & II"
1983. COMPERE, A. (1935) *C. r. seances soc. biol. filiales associees* 120:237-240, (In French) "Changes in blood composition during short-wave treatment"
2055. CONLLEY, C. C. (1969) In: Biological Effects of Magnetic Fields, Vol. 2, pp. 29-51, Plenum Press, "Effects of near-zero magnetic fields upon biological systems"
2730. CONLEY, C.C. (1970), NASA Technical Note No. TN D-5902, (Aug.), "A review of the biological effects of very low magnetic fields".

3417. CONOVER, D.L., & BETTER, R.J. (1974), Health Physics, 27(6):632-633, "Heating patterns induced by 2450 MHz microwave radiation in a trilayered spherical phantom."
3167. CONOVER, D.L., VETTER, R.J., WEEKS, W.L., ZIEMER, P.L., & LANDOLT, R.R. (1974), The J. of Microwave Power, 9(2):69-78, (June), "Temperature distributions induced by 2450 MHz microwave radiation in a trilayered [simulated fat, muscle, brain] spherical phantom".
246. CONSTANT, P. C., JR. (1963) Institute of Electrical and Electronics Engineers Student J. 1(1):36-, "Biological aspects of RF radiation"
247. CONSTANT, P. C., JR. (1967) Digest of the 7th Internat. Conf. on Medical and Biological Engineering, (Jacobson, B., ed.), Stockholm, 7:349 only, "Hearing EM waves"
248. CONSTANT, P. C., JR., ASHLEY, W. H., BALDWIN, B. R., MARTIN, E. J. JR., & RICE, R. F. (1960) Midwest Research Institute, Kansas City, Mo., Report to Navy (June 1960), "Survey of radio frequency radiation hazards"
249. CONSTANT, P. C., JR., & MARTIN, E. J. (1963) IEEE Trans. on Radio Frequency Interference 5(1):56-76 (also Report to Navy from Midwest Research Institute, Kansas City, Mo.), "The Navy's radiation hazards (RADHAZ) program on the formulation of standards"
250. COOK, H. F. (1951) British J. of Applied Physics 2:295-300, "The dielectric behavior of some types of human tissues at microwave frequencies"
251. COOK, H. F. (1952) J. of Physiology 118:1-11, "The pain threshold for microwave and infrared radiation"
252. COOK, H. F. (1952) British J. of Applied Physics 3:33-40, "Microwaves in medical and biological research"
253. COOK, H. F. (1952) British J. of Applied Physics 3:245-248, "A physical investigation of heat production in human tissue when exposed to microwaves"
254. COOK, H. F. (1952) British J. of Applied Physics 3:249-255, "A comparison of dielectric behavior of pure water and human blood at microwave frequencies"
2731. COOK, H., & BOYLE, A. (1950), Brit. J. of Physical Med., 13():2-9, "The effects of microwaves".
255. COOK, H. F., & BOYLE, A. (1952) British J. of Applied Physics 3:1-6, "Clinical picture of the chronic effect of electromagnetic microwave radiation"
3168. COOK, H.F., & BUCHANAN, T.J. (1950), Nature, 165():358-359, "Dielectric behavior of methyl palmitate in the microwave region".
2732. COOK, H.H., SONI, N.N., & MONTGOMERY, J.C. (1971), Oral Surgery, 32(6):1008-1016, "The effects of pulsed high frequency radio waves on the rate of osteogenesis in the healing of extraction wounds in dogs."
256. COOPER, R. (1946) J. of the Institute of Electronic Engineers 93(3):69-, "The electrical properties of salt-water solutions, over the frequency range 1-4000 Mc"
2733. COOPER, T., et al. (1962), Amer. J. of Physiology, 202(6):1171-1174, "Effects of reserpine on circulation of the rat after microwave irradiation".
257. COOPER, T., JELLINEK, M., PINAKATT, T., & RICHARDSON, A. W. (1965) Experientia 21:28-29, "The effect of pyridoxine and pyridoxal on the circulatory responses of rats to microwave irradiation"
258. COOPER, T., PINAKATT, T., JELLINEK, M., & RICHARDSON, A.W. (1962), Aerospace Med., 33(7):794-798, "Effects of adrenalectomy, vagotomy, and ganglionic blockade on the circulatory response to microwave hyperthermia."
2734. COPE, F.W. (1973), Physiol. Chem. & Physics, 5():173-176, "Biological sensitivity to weak magnetic fields due to biological superconductive Josephson junctions?".
2346. COPELAND, E.S., & MICHAELSON, S.M. (1970), Acta Radiologica, 9(4):323- , "Effect of selective tumor heating: the localization of 131 I fibronogen in the Walker carcinoma 256: II. Heating with microwaves".
260. COPSON, D. A. (1956) Institute of Radio Engineers Trans. on Medical Electronics, PGME-4:27-35 (from Symposium on Physiologic and Pathologic Effects of Microwaves, Krusen, F. H., Chm., Sept. 1955), "Microwave energy in food procedures"
261. COPSON, D. A. (1961) Digest of the 1961 Internat. Conf. on Medical Electronics, Biological Effects of Microwaves, I (Athermal Aspects), (Frommer, P. L., ed.), Plenum Press, New York; pp. 228-, "Theory of thermal dissipation of microwave energy, and microwave engineering"
262. COPSON, D.A. (1962), Microwave Heating [in the food industry], Avi Pub. Co., Inc., Westport, Conn., Esp. Chapt. 19, "The radiation biology of microwaves."
259. COPSON, D. A. (1967) Digest of the 7th Internat. Conf. on Medical and Biological Engineering, (Jacobson, B., ed.), Stockholm, p. 404 only, "Athermal and thermal absorption processes with microwaves from 1 mm to 30 cm"
263. COPSON, D. A., NEUMAN, B. R., & BRADY, A. L. (1955) J. of Agricultural/Food Chemistry 3(5):424-427, "Browning methods in microwave cooking"

3418. CORKER, G.A., & SHARPE, S.A. (1974), *Photochemistry and Photobiology*, **19**():443-455, "Kinetics of the photo-induced EPR signal in whole-cell *Rhodospirillum rubrum*: Effects of light intensity, dark adaptation, temperature, and microwave power."
2140. CORRADO, M. (1938) *Ann. Ottalm. e Clin. Ocul.* **66**(10):721-739, (In Ital.), (Abstr. in: *Zentralbl. f. d. ges. Ophthalm.* **43**(6):349 (June 27, 1939)), "The effects of short-wave irradiation (short waves of 30 m and ultrashort waves of 6 m) on the circulation of the ocular fundus"
3169. CORY, W.E., & FREDERICK, C.L. (1974), *IEEE Transactions on Aerospace & Electronic Systems*, **AES-10**(5):738-742, (Sept.), "Effects of electromagnetic energy on the environment: A summary report".
264. COSIC, V., KRANER, M., & GALA, A. (1963) *Vojnosanit Pregl* **20**(3):119-126, "Effects of radar installations on the human body"
3419. COSTER, H.G.L., & ZIMMERMANN, U. (1975), *Zeitschrift Naturforsch.*, **30c**():77-79, "Direct demonstration of dielectric breakdown in the membranes of *Valonia utricularis*" [using approx. 500 microsec. current pulses].
265. COULTER, J. S., & CARTER, H. A. (1936) *J. of the Amer. Medical Assoc.* **106**:2063-2066, "Heating of human tissues by short wave diathermy"
266. COULTER, J. S., & OSBORNE, S. L. (1936) *Arch. of Physical Therapy* **17**:135-139, "Shortwave diathermy: a comparative study in pelvic heating"
2735. COZZENS, D.E. (1967), *Microwaves*, **10**():58-60, (Jul.), "High-power microwave safe-distance nomogram".
267. CRAPUCHETTES, P. W. (1970) In: *Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium*, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 210-216, "Microwave leakage instrumentation"
3170. CRAVEN, S.E., & LILLARD, H.S. (1974), *J. of Food Science*, **39**(1):211-212, "Effect of microwave heating of pre-cooked chicken on *Clostridium perfringens*".
2736. CREWS, G.W., GOERTZ, G.W. (1973), *Poultry Science*, **52**(4):1496-1500, "Moisture and microwave effects on selected characteristics of turkey pectoral muscles".
2347. CRICHTON, M. (1972), *Playboy (Magazine)*, **19**(5):154-156, 170, 244, 246, 248-250, 251, 254-258, & 260, Third final installment of the condensed version of *The Terminal Man*. [Fiction; use is made of a microwave oven (having defective door interlock) as a lethal weapon. (asp. p. 246)].
3420. CULKIN, K.A., & FUNG, D.Y. (1975), *J. of Milk & Food Technology*, **38**(1):8-15, "Destruction of *Escherichia coli* and *Salmonella typhimurium* in microwave-cooked soups."
2348. CUMMINS, J.T., VAUGHAN, B.E., & PESSOTTI, R.L. (1968), U.S. Naval Radiological Defense Laboratory Report No. TR-68-105, "Depolarization of the neurally blocked gastric mucosa of the rat", [At AC frequencies from 10 to 14⁴ cycles]
3171. CURTIS, W.E., DICKENS, F., & EVANS, S.F. (1936), *Nature*, **138**():63-65, (July 11), "The 'specific action' of ultra-short wireless waves", [A well-written early review article]; and, "Letter in response to 'Letter to the Editor'", by SZYMANOWSKI, W., *Nature*, **138**():1100-1101, (Dec. 26).
268. CUSTIN, T. G. (1961) *Proc. of the Institute of Radio Engineers* **49**:1574 only, "Microwave radiation hazards"
269. CUTLER, R. S. (1958) (compiler) National Library of Medicine, Washington, D. C., (unpublished report), "Biological effects of non-ionizing radiation on humans and higher animals; selected references in English 1916-1957"
3421. CZERSKI, P. (1975), *Proceedings of the IEEE*, **63**(11):1540-1544 (Nov.), "Experimental models for the evaluation of microwave biological effects."
2349. CZERSKI, P., BARANSKI, S., & SIERKIERZYNSKI, M. (1972), Third Internat. Conf. on Med. Physics, Göteborg, Abstr. #39.9, (in Engl.), (Aug. 4), "Microwave irradiation and bone marrow function."
1984. CZERSKI, P., HORNOWSKI, J., & SZENCYZYKOWSKI, J. (1964), *Med. pracy*, **15**:251-253, (in Polish), "A case of microwave syndrome."
2737. CZERSKI, P., OSTRUSKI, K., SILVERMAN, C., et al. (eds.) (1974), Polish Medical Publishers, Warsaw, Poland, *Biologic Effects and Health Hazards of Microwave Radiation: Proceedings of an International Symposium*, (held in Warsaw, Oct. 15-18, 1973), 350 pps. [Citation #2638, this Biblio.; see also citation #3114.]
2738. CZERSKI, P., PAPROCKA-SLONKA, E., & STOLARSKA, A. (1974), *J. of Microwave Power*, **9**(1):31-37, (Mar.), "Microwave irradiation and the circadian rhythm of bone cell marrow mitoses".
2739. CZERSKI, P., & PIOTROWSKI, M. (1972), *Medycyna Lotnicza*, **39**():127-139, (In Pol), (Transl. #JPRS-59709, dtd 3 Aug 1973, transl. of East. Europe scientific affairs No. 343), "Proposals for specification of allowable levels of microwave radiation".
2740. CZERSKI, P., SIERKIERZYNSKI, M., & GIDYNSKI, A. (1974), *Aerospace Med.*, (In press), "Health surveillance of personnel occupationally exposed to microwaves. Part I: Theoretical considerations and practical aspects".
3172. CZERSKI, P., SIERKIERZYNSKI, M., & GIDYNSKI, A. (1974), *Aerospace Medicine*, **45**(10):1137-1142, (Oct.), "Health surveillance of personnel occupationally exposed to microwaves: Part I - Theoretical considerations and practical aspects". [See citation #2740, this Biblio.]

270. DADIRRIAN, A. N. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Suskind, C., ed.) 3:271-278, "A microwave medical safety program in an industrial electronics facility"
2741. DAELS, J. (1973), *Obstetrics & Gynecology*, 42(1):76-79, "Microwave heating of the uterine wall during parturition."
271. DAHLEN, R. W. (1960) *Dissertation Abstracts* 21(6):1612-, "Effects of irradiation of the head region of dogs with 2450 Mc microwaves"
272. DAILY, L.E. (1943), *U.S. Navy Medical Bulletin*, 41(4):1052-1056, "A clinical study of the results of exposure of laboratory personnel to radar and high frequency radio."
273. DAILY, L., JR., WAKIM, K. G., HERRICK, J. F., PARKHILL, E. M., & BENEDICT, W. L. (1950) *Amer. J. of Ophthalmology* 33: 1241-1254, "The effects of microwave diathermy on the eye: an experimental study"
274. DAILY, L., JR., WAKIM, K. G., HERRICK, J. F., PARKHILL, E., & BENEDICT, W. L. (1952) *Amer. J. of Ophthalmology* 35: 1001-1017, "The effects of microwave diathermy on the eye of the rabbit"
275. DAILY, L., JR., ZELLER, E. A., WAKIM, K. G., HERRICK, J. F., & BENEDICT, W. L. (1951) *Amer. J. of Ophthalmology* 34: 1301-1306, "Influence of microwaves on certain enzyme systems in the lens of the eye"
276. DAILY, L., JR., WAKIM, K. G., HERRICK, J. F., & PARKHILL, F. M. (1948) *Amer. J. of Physiology* 155:432 only, (Also *Institute of Radio Engineers Trans. on Medical Electronics*, PGME-4:25-26 (1956); (from *Symposium on Physiologic and Pathologic Effects of Microwaves*, Krusen, F. H., Chm., Sept. 1955), "The effects of microwave diathermy on the eye"
2141. DAINOTTO, F., et al. (1962) *Policlinico* 69:270-, (In Ital.), "Study of glycositic fractions in the skeletal muscle of experimental animals treated with microwaves"
3173. DAKIN, H.S. (1972), *High-Voltage Photography*, 65 pps., Publisher?
2742. DALILI, H., ADRIANI, J., WU, W.T., & SAMUELS, M.S. (1973), *Southern Medical J.*, 66(11):1254-1259, (Nov.), "Radio-wave and microwave blood warmers: Comparison with water bath blood warming units".
2350. DALTON, P.P. (1937), *British J. of Physical Medicine*, 11:221- , "Low intensity short waves (11.3 meters); preliminary observations concerning their effects on living tissues".
2351. DALTON, P.P. (1937), *British J. of Physical Medicine*, 12:170- , "Experimental proof of the specific effects of low intensity short waves on living tissues".
2352. DALZIEL, C.F. (1972), *IEE Spectrum*, 9(2):41-50, "Electric shock hazard".
2142. DANIELIN, J. (1971) *Federal Communication Commis. Rept. No. 7104*, "VHF-UHF radiation hazards and safety guidelines"
2143. DANIELS, R. (1969) In: *Frequency Technology* 7(10):38-40, "Some side effects of EMC (electromagnetic compatibility)"
277. DANIELS, R. G., & GOLDSTEIN, B. (1965) *Federation Proceedings Supplement #14*, S-27-, "Lasers and masers - health hazards and their control"
3422. DANILEGKO, V.I., et al. (1974), *Fiziologichnyy zhurnal Akademii Nauk Ukr. SSR*, 20(3):364-369 (in Ukrainian), "Complex investigation of the influence of electrical stimulation of muscles upon the human organism in hypokinetic conditions."
1985. DANILEVSKIY, B., & VOROBIEV, A. (1935) *Pflugers Arch. Ges. Physiol.* 236:440-451, (In German) "On the long-range effect of electrical high-frequency currents on the nerves"
2743. DARDANO, J.F. (1969), *Rept., Johns Hopkins Univ., Baltimore, MD, (AD #697 161)*, (Oct.), "Research and development of fundamental performance information relevant to the behavioral effects of low level microwave exposure".
278. D'ARSONVAL, A. (1932) *Arch. of Physical Therapy* 13:715-717, "Therapeutic applications of high frequency currents"
279. D'ARSONVAL, A. (1934) *Abstracts of the 1st Internat. Congress of Electro-Radio-Biology*, (Cappelli, L., ed.), Bologna, Italy, pp. 111-114, "Biological effects of high frequency fields"
280. D'ARSONVAL, A., & CHARBIN, A. (1896) *Comptes Rendus Societe de Biologie* 48:121-123, (In French) "The action of electricity on bacterial toxins"
2353. DAUBS, J.G. (1969), *J. of the Amer. Optometric Assoc.*, Ref ?, "Eye hazards of airborne radar".
2144. DAVIE, S. J., ROMERO-SIERRA, C., TAMMER, J. A., & VILLA, F. (1969) In: *Proceedings, World Conf. on Bird Hazards to Aircraft*, Nat. Res. Council, Queen's Univ. Kingston, Ontario, Can., pp. 215-221, (Abstr. #A79-35993), "Microwaves - a potential solution to the bird hazard problem in aviation"
2354. DAVIES, M., MAUREL, P., & PRICE, A.H. (1972), *J. of the Chemical Soc., (Faraday Trans. 1)*, 6:1041-1044, "Microwave absorption in a helical polypeptide molecule".
2078. DAVIS, F. S., WAYLAND, J. R., & MERKLE, M. G. (1971) *Science* 173:535-537, (6 Aug.), "Ultrahigh-frequency electromagnetic fields for weed control: Phytotoxicity and selectivity"

3174. DAVIS, F.S., WAYLAND, J.R., & MERKLE, M.G. (1973), *Nature*, 241():291-292, (Jan. 26), "Phytotoxicity of a UHF electromagnetic field". [Exposure of plant seeds at 2450 MHz affects seed germination.]
281. DAVIS, H. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:19-32, "Discussion of long range research and development plans in the Air Force"
3423. DAVIS, J.A. (1973), Engineering Report, (Dept. of Transportation, Oklahoma City), AAC-213-7, (73-749-130A), "Microwave oven radiations: Information paper."
2355. DAVIS, J.E. (1972), Address presented to the Industry Advisory Committee, Defense Electric Power Administration, Department of Interior, Washington, D.C., (Nov. 16), on "Electromagnetic pulses (EMP)".
2744. DAVIS, R. (1973), *Microwaves*, 12(5):9 & 16, (May), "Microwave oven controversy sizzles", [Report by Consumers Union criticizes standard and method of testing and claims possibility of radiation hazards exists. Government and industry maintain ovens are safe. Amana files complaint with FTC against CU].
2746. DAVIS, R. (1973), *Microwaves*, 12(6):9 only (June), "Short on space? Try the compact range. Far field measurements of microwave antennas [and biological studies] are now possible using a compact range technique. It consists of a simple feed and large paraboloidal reflector."
2745. DAVIS, R. (1973), *Microwaves*, 12(7):9 & 12, (Jul.), "Tests show common radiation may cause serious malfunctions in pacemakers".
2356. DAVIS, R.T. (1972), *Microwaves*, 11(4):12-14, (April), "Long range [microwave] radiation hazard experiment gets underway using human volunteers", [Describes planned experiments of D. BEISCHER at the Naval Aerospace Medical Institute, Pensacola, Fla., at power densities below 1 mw/cm²].
2357. DAVIS, R.T. (1972), *Microwaves*, 11(4):12, "What's a safe standard?", and p. 32 (editorial), "Radiation standards, an end in sight?", [The U.S. "standard" is mis-stated in each article as 1 mw/cm²].
282. DAVIS, R. T., ELAM, C. B., & McDOWELL, A. (19) Report, School of Aviation Med., Randolph Air Force Base, (AD 204696), "Latent effects of chronic whole body irradiation of monkeys with mixed source radiation"
283. DAVIS, T. P. (1959) Digest of Tech. Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chm.), pp. 90-91, "The temperature response of skin exposed to penetrating and non-penetrating radiation"
284. DAVIS, T. R. A., & MAYER, J. (1954) *Amer. J. of Physiology* 178:283-287, "Uses of high frequency electromagnetic waves in the study of thermogenesis"
2747. DAWES, D.L., & GASKILL, J.W. (1972), *IEEE Trans. on Biomedical Engineering*, BME-19(5):391-395, (Sept.), "Interaction between a linearly polarized electromagnetic plane [wave] and a double spherical shell [used as an environmentally controlled exposure chamber for experimental animals during microwave irradiation]"
285. DAY, G. C. (1955) *British J. of Physical Med.* 18:14-16, "The subjective affects of general irradiation"
286. DAYTON, W. P. (1961) Ground Electronics Engineering Installation Agency, Griffiss Air Force Base, Rpt. GEEIA TR-61-1, (AD 253671), "Microwave radiation effects program"
2358. D'CUNHA, G.F., NICOU, T., PEMBERTON, A.H., ROSENBAUM, F.F., & BOTTICELLI, J.T. (1973), *Amer. J. of Cardiology*, 31:789-791, (June), "Syncope attacks arising from erratic demand pacemaker function in the vicinity of a television transmitter"
3424. de la WARR, G.W. (1967), Delawarr Laboratories LTD Rept., Oxford, England, "Biomagnetism."
3425. de LORGE, J. (1973), Naval Aerospace Medical Res. Lab. (Pensacola, FL), Technical Report No. NAMRL-1179, "Operant behavior of Rhesus monkeys in the presence of extremely low frequency-low intensity magnetic and electric fields: Experiment 2."
3426. de LORGE, J. (1973), Naval Aerospace Medical Res. Lab. (Pensacola, FL), Technical Rept. No. NAMRL-1196, "Operant behavior of Rhesus monkeys in the presence of extremely low frequency-low intensity magnetic and electric fields: Experiment 3."
3427. de LORGE, J. (1974), Naval Aerospace Medical Res. Lab. (Pensacola, FL), Technical Rept. No. NAMRL-1203, "A psychobiological study of Rhesus monkeys exposed to extremely low frequency-low intensity magnetic fields."
3428. de LORGE, J., & MARR, M.J. (1974), In: Extremely Low Frequency (ELF) and Very Low Frequency (VLF) Electromagnetic Field Effects on Behavioral-Biochemical Systems. (PERSINGER, M.A., (Ed.)), Plenum Press, New York, "Operant methods assessing the effects of ELF electromagnetic fields."
287. DEBRONS, A. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:105-111, "Human engineering applications as related to personnel protection"
2359. DECAREAU, R.V. (After 1970) In: CRC (Chemical Rubber Co.) Critical Reviews in Food Technology, (FURIA, T.E. (ed.)), "Microwave energy in food processing applications".
2748. DECAREAU, R.V. (ed.), *Microwave Energy Applications Newsletter*, (P.O. Box 241, Amherst, New Hampshire 03031), [devoted exclusively to applications of microwave energy to food service & food processing].

288. DeCHOLNOKY, T. (1935) Arch. of Physical Therapy 16:587-594, "Shortwave therapy in pyogenic skin infection"
2360. DEGEN, I.L. (1971), Klinicheskaya khirurgiya, (3):75-59, (JPRS abstract), "Therapeutic action of magnetic fields in surgery".
3175. DEGEN, I.L. (1971), Vrachebnoye Delo (Kiev), 2(3):124-128, (Mar.), (In Russ.), "Therapeutic effect of constant and low-frequency alternating magnetic fields: Survey of the literature".
289. DEICHMANN, W. B. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Suskind, C., ed.) 3:72-74, "Results of (pathological) studies of microwave radiation"
290. DEICHMANN, W. B. (1961) Biochemical Pharmacology 8(1):^{pp.?}"Introducing the irradiation cycle rate in microwave radiation exposures"
291. DEICHMANN, W.B. (1966), Archiv fur Toxikologie, 22(1):24-35, (in Engl.), "Biological effects of microwave radiation of 24,000 megacycles."
292. DEICHMANN, W. B., & BERNAL, E. (1963) Univ. of Miami, (AD 400345), "Chronic exposure of dogs to microwave radiation of 24,000 megacycles and a power density of 20 mw/sq cm"
293. DEICHMANN, W. B., BERNAL, E., STEPHENS, F., & LANDEEN, K. (1963) J. of Occupational Medicine 5(9):418-425, "Effects on dogs of chronic exposure to microwave radiation"
294. DEICHMANN, W. B., KEPLINGER, M., & BERNAL, E. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Suskind, C., ed.) 3:77-81, (Also, Industrial Med. & Surgery 28(5):212-213 (1959), and RADC-TN-59-302, AD 228987), "Relation of interrupted pulsed microwaves to biological hazards"
295. DEICHMANN, W.B., KEPLINGER, M., & BERNAL, E. (1959), Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Suskind, C., ed.), 3:62-70, (Also, Industrial Med. & Surgery, 28(12):535-), (Rome Air Development Center, RADC-TN-59-303, AD #228993), "Effects of environmental temperature and air volume exchange on survival of rats exposed to microwave radiation of 24,000 megacycles."
296. DEICHMANN, W. B., MIALE, J., & LANDEEN, K. (1962) Report, Univ. of Miami, RADC-TDR-62-192, (AD 278022), 16 pages, "Effects of microwave radiation of 10 and 20 mw/cm² (24,000 megacycles)"
297. DEICHMANN, W. B., MIALE, J., & LANDEEN, K. (1964) Toxic Applied Pharmacology 6(1):71-77, "Effect of microwaves on the hemopoietic system of the rat"
298. DEICHMANN, W. B., & STEPHENS, F. H., JR. (1961) Digest of the 1961 Internat. Conf. of Medical Electronics, Biological Effects of Microwaves, I (Athermal Aspects), (Frommer, P. L., ed.) Plenum Press, New York, pp. 191-, (Also, Industrial Medicine and Surgery 30:264-(1961)), "Factors that influence the biological effects of microwave radiation"
299. DEICHMANN, W.B., & STEVENS, F.H., Jr. (1961), Industrial Med. & Surgery, 30:221-228, "Microwave radiation of 10 mw/cm² and factors that influence biological effects at various power densities."
300. DEICHMANN, W. B., STEPHENS, E. H., JR., KEPLINGER, M., & LAMPE, K. E. (1959) J. of Occupational Med. 1(7):369-381, "Acute effects of microwave radiation on experimental animals (24,000 megacycles)"
(PAFF, G.H., BRAUZER, B., & FIBBERTY, D. E.)
301. DEICHMANN, W. B., et al. (1959) Section in: Microwave Radiation Research, Univ. of Miami Annual Report, RADC-TN-59-228, (AD 232925), pp. 11-14, "Hyperpyrexia - microwave versus infrared"; pp. 14-15, "Comparative sensitivity of head, lumbar, and abdominal region to microwave radiation"; pp. 15-18, "Comparative rises of temperature in various organs"; pp. 19-25, "The effect of single and repeated microwave exposures on the formed elements in the blood of rats"; p. 25 only, "Skin cancer study"; pp. 26-28, "Chronic microwave studies"; pp. 29-32, "Observations on the effects of radar upon the embryonic heart"
302. DEICHMANN, W. B., et al. (1960) Section in: Microwave Radiation Research, Univ. of Miami Annual Report, RADC-TN-61-42, (AD 256500), pp. 4-10, "Organ temperature studies"; pp. 11-24, "The effect of microwave radiation of 10 mw/sq. cm. in the treatment of acute leukemia of the rat"; pp. 25-46, "Chronic, intermittent, exposure of experimental animals to microwave radiation"; pp. 36-41, "Chronic exposure of Beagle dogs to microwave radiation of 20 mw/sq. cm."
2749. DELGADO, J.M., et al. (1968), Nervous & Mental Disease Monograph Series, 147():329-340, (Oct.), "Intracerebral radio [frequency] stimulation and recording in completely free patients".
303. DELGADO, J. M. R. (1969) Presented at the Hazards and Utility of Microwaves and Radiowaves Seminar, (Heller, J., Chm.), 11-12 Dec., Boston, "Effects of radio-frequency on the central nervous system"
3176. DELGADO, J.M.R., LIPPONEN, V., WEISS, G., DEL POZO, F., MONTEAGUDO, J.L., & McMAHON, R., (1975), American Psychologist, 30(3):265-273, (Mar.), "Two-way transdermal communication with the brain". [Using RF stimulation and EEG telemetry ("stimoceiver").]
2361. DeLATEUR, B.J., LEHMANN, J.F., STONEBRIDGE, J.B., WARREN, C.G., & GUY, A.W. (1970), Arch. of Phys. Med. & Rehabilitation, 51:147-151, (March) "Muscle heating in human subjects with 915 MHz microwave contact applicator".
304. DeLHERY, G. P., DERKSEN, W. L., & MONAHAN, T. I. (1959) Naval Material Lab., Brooklyn, AFSWP-114, (AD 220576), "Research on the thermal conductivity and diathermancy of Albino rat skin"
305. DELHERY, G. P., DERKSEN, W. L., & MONAHAN, T. I. (1959) Digest of Technical Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chm.), p. 92 only, "Some thermal and optical properties of rat skin"

306. De LOOR, G. P. (1968) *J. of Microwave Power* 3(2):67-73, "Dielectric properties of heterogeneous mixtures containing water"
2750. deLOOR, G.P. (1973), *J. of Microwave Power*, 8(1):67-68, Letter to the Editor: "Bound water in biological material", [studied at microwave frequencies].
2362. DeLORGE, J. (1972), Naval Aerospace Medical Research Laboratory Rept. # NAMRL-1155, under project No. MF51.524.015.0014, (November), "Operant behavior of Rhesus monkeys in the presence of extremely low frequency-low intensity magnetic and electric fields: Experiment #1".
307. De LOZ, A. (1951) *Le Scalpel* 104(21):591-598, (In French) "Influence of high frequency radiowaves on 'hypercholesterinemia'"
3429. DEMETSKIY, A.M., & SOBOLEVSKAYA, N.P. (1975), *Zdravookhraneniye Belorussii*, 7(7):27-31 (in Russian), (July), Transl. as JPRS #66339 (10 Dec. 1975), "Use of artificial electromagnetic fields in medicine."
308. DeMINCO, A. P., (1961) *Proc. 4th Tri-service Conf. on Biological Effects of Microwave Radiation*, Vol. 1 (Peyton, M. F., ed.) pp. 33-46, (Also, RADC-TR-60-185, Nov. 1960), "Generation and detection of pulsed x-rays from microwave sources"
309. DEMIRCHOGLYAN, G. G. (1953) *Problemy Fiziologicheskoi Optiki (Akademia nauk SSR, Moscow*, 8):203-, "Photopotential of the retina and its variation under the action of SHF-UHF fields"
2751. DeMOSS, R.A. (1971), Bell Laboratories "Memorandum for File", (Jan. 30), 39 pps., "Electromagnetic hazards to personnel in EMP [electromagnetic pulse] simulations".
310. DENIER, . (1933) *Arch. of Electron. in Medicine* 41:273-276, (In French) "Biological action of high frequency ultrashort radio waves of 80 cm"
2752. DEROCHE, M. (1971), *Arch. Maladies Professionnelles*, 32():679-683, (In Fr.), "Study of biological disturbances in operating room technicians in some high-frequency electromagnetic fields".
311. DESSAUER, F. (1934) *Abstracts of the 1st Internat. Congress of Electro-Radio-Biology*, (Cappelli, L., ed.), Bologna, Italy, pp. 336-340 (In German, English summary), "Reference concerning electrical waves and biological phenomena"
3177. DeVORE, R.T., & VAN de GRIEK, A. (1973), *FDA Consumer*, (Apr.), p. 25-26, "The microwave oven safety debate", [comments on the Consumer Union position (Apr. 1973) on microwave ovens].
3430. DEVYATKOV, N.D., KHRAPOV, V.V., GARIBOV, R.E., KUDRYASHOVA, V.A., GAYDUK, V.I., BAKAUSHINA, G.F., KHRAPKO, A.M., LEVINA, A.A., & ANDREYEVA, A.P. (1975), *Doklady Akademii Nauk SSSR*, 225(4):962-965, (in Russian), Transl. In: *Effects of Non-Ionizing Electromagnetic Radiation (JPRS #L/5787)*, 26 Mar. 1976, pp. 14-18, "Effect of low-intensity millimeter radiation of gamma-resonance spectrums of hemoglobin" [Mossbauer spectrometer, using ⁵⁷Fe isotope].
3178. DIACHENKO, J.A., & MILROY, W.C. (1975), Naval Surface Weapons Center (Dahlgren, VA), Technical Report No. NSWC/DL TR-3230, (Jan.), "The effects of high power pulsed and low level CW microwave radiation on an operant behavior in rats".
312. DIAS, J. F. (1965) *J. of the Internat. College of Surgeons* 43:505-, "Eye disease from natural and man-made radiation"
3179. DICKENS, F., EVANS, S.F., & WEIL-MALHERBE, H. (1936), *Amer. J. of Cancer*, 28():603-620, "The action of short radio waves on tissues: I. Effects produced *in vitro*; with some observations on the action of heat on tissue metabolism"
3180. DICKENS, F., EVANS, S.F., & WEIL-MALHERBE, H. (1937), *Amer. J. of Cancer*, 30():341-354, "The action of short radio waves on tissues: II. Treatment of animal tumors *in vivo*".
2753. DIETZEL, F., et al. (1971), *Biomed. Tech. (Stuttg.)*, 16():213-220, (6 Dec.), (In Ger.), "Tumor therapy with high frequency hyperthermia (decimeter waves): Animal experiments"
2363. DIETZEL, F., KERN, W., & STECHENMESSER, R. (1972), *Muench. Med. Wochenschr.*, 114(11):228, (In Ger.), "Deformity and intra-uterine death after short-wave therapy: Investigations on experimental animals"
313. DINKLOH, H. (1966) *Wehrmedizin* 4(6/7):123-131, "Health damage caused by microwaves, especially radar waves"
2364. DITTRICH, H. (1969), *Thoraxchirurgie*, 17:546- , (In Ger.), "The influence on synchronized pacemakers of electrical and pulsed magnetic fields".
3431. DJORDJEVIC, Z. (1975), *Vojnosanitetski Pregled*, 32(1):51-53, (in Serbo-Croatian), Transl. in: *Effects of Non-Ionizing Electromagnetic Radiation (JPRS #L/5787)*, 26 Mar. 1976, pp. 34-37, "Addendum to study of biological effects of microwave radiation of intensity of 5 to 50 mW/cm² under conditions of prolonged exposure of rats in the field of radiation" [confirmed 10 mW/cm² at 2400 MHz (from a diathermy device) as the "threshold dosage" for biological effects in Wistar rats].
2754. DJORDJEVIC, Z., & KOLAK, A. (1973), *Aerospace Medicine*, 44(9):1051-1054, "Changes in the peripheral blood of the rat exposed to microwave radiation (2400 MHz) in conditions of chronic exposure".
2079. DOBREV, B., et al. (1967) *Works of the Scientific Research Institute of Labour Protection and Occupational Diseases (Sofia, Bulgaria)*, 17:31-40, (Abstr. in: *Non-ionizing Rad.* 2(1):43 only, 1971)), "High frequency electromagnetic waves and (production of) ozones"

2145. DOCHKIN, I. I. (1970) Voenno-Meditsinskiy Zhurnal __:42-43, (In Russ.), (Abstr. #A71-20539), "Influence of a microwave field on the hemopoietic system"
2755. DODDS, D.E. (1968), M.S. thesis in Biomedical Engineering, Dept. of Electrical Engineer., Univ. of Saskatchewan, Saskatoon, Canada, "Absorption of microwaves by molecules".
2365. DODGE, C. (1967), Foreign Science Bulletin, Library of Congress, 3(3):46-64, "Electrosleep, electroanesthesia, and electroneural diagnostics and therapeutics".
314. DODGE, C. H. (1965) ATD Bulletin (Library of Congress) 1(2):33-38, "The influence of microwaves on the functional condition of the nerve" (Transl. of Kamenskiy (1964), citation #703, this Bibliography)
315. DODGE, C. H. (1965) Foreign Science Bulletin (Library of Congress) 1(2):7-19, "Biological and medical aspects of microwaves"
[See also citation numbers 1931 and 1932, this Bibliography]
316. DODGE, C. H. (1966) Unpublished report, Biosciences Div., U. S. Naval Observatory, Washington, D. C., "Clinical and hygienic aspects of exposure to electromagnetic fields (a review of the Soviet and Eastern European literature)" [Expanded in citation #317]
317. DODGE, C. H. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium. (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 140-149, "Clinical and hygienic aspects of exposure to electromagnetic fields"
2756. DODGE, C.H. (1972), Health Physics, 23():583 only, (Oct.), in "Book Reviews" section, "Bibliography of reported biological phenomena ('effects') and clinical manifestations attributed to microwave and radio-frequency radiation", by GLASER, Z.R.
318. DODGE, C.H., & KASSEL, S. (1966), ATD Report (Library of Congress) #66-133, (AD #645-979), "Soviet research on the neural effects of microwaves."
319. DOLATKOWSKI, A., LENKO, J., MROZ-WASILEWSKA, __. & Wochna, Z. (1964) Polish Medical J. 138(3):1156-1163, "Studies on the effect of microwaves emitted by radar devices on the testicles and epididymides of the rabbit"
320. DOLINA, L. A. (1959) In Book, Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, pp. 44-45 [Title not given]
321. DOLINA, A. (1961) Arkhiv fur patologii 23(1):51-57, "Morphological changes in the central nervous system following the action of centimeter waves on the organism. (An experimental investigation)"
322. DONDERO, R. L. (1958) Medical News Letter 31(2):22-, (Abstracted from Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:115-118, (1957)), "Determination of power density at microwave frequencies"
1986. DONETSKAYA, O. L. (1959) Gigiyena i sanitariya 9(9):29-35, (In Russian) "Use of ultrasound and high-frequency currents to counteract the carcinogenic effect of shale chamber tar"
3432. DONNELLY, W.H., & McCULLOUGH, J.M. (1971), Science Policy Research Division Rept. (Congressional Research Service, Library of Congress), Rept. No. 71-198 SP [QC 170 U.S. B] (Aug. 27), "Microwave radiation and environmental health—A brief review and bibliography."
323. DOOLEY, E. S., GILLENWATER, J. Y., & FROHLICH, E. D. (1963) U. S. Army Medical Research Lab., Fort Knox, Rpt. 565, (AD 411221), 23 pages, "Altered repressor response-pattern to endotoxin radiated with radio-frequency energy"
2757. DORDEVIC, Z. (1970), Vojnosanitetski Pregled, 27():52-54, (In Slovak), "Intensity of microwave radiation in radar units, and changes in the blood picture in radar operators".
3181. DORFMAN, Ya.G. (1971). In: KROKHIN, Ya.A. (ed.), Meditsina i Mirovaya Vozdukhnaia Energiya (Citation No.3230, this Bibliography), pp. 11-12, "Medical aspects of exposure to low-power radio-frequency electromagnetic fields".
324. DOUGHERTY, J. D., CALDWELL, J. C., HOWE, W. M., & CLARK, W. B. (1965) Aerospace Med. 35:466-471, "Evaluation of an alleged case of radiation induced cataract at a radar site"
2758. DOURY, P., BOISSELIER, P., & BERNARD, J.G. (1970), Semaine des Hospitiaux, 46():2481-2482, "Pathological effects of aviation radar UHF electromagnetic radiation on man: An observation".
2759. DOWNEY, J.A., et al. (1970), Arch. of Physical Med., 51():354-357, "Vascular response in the forearm to heating by shortwave diathermy".
2760. DOYLE, J.R., & SMART, B.W. (1963), J. of Bone & Joint Surg., 45A(1):15-24, (Jan.), "Stimulation of bone growth by shortwave diathermy".
3182. DRAKE, P.T. (1974), Translational Research, 1():1-2, (Nov.), "What is the effect on the human eye of the most noteworthy physical effects on the globe (lens) of RF radiation: a review of the literature on the eye".
325. DROGICHINA, E. A. (1960) In: The Biological Action of Ultrahigh Frequencies, (Latavet, A. A., & Gordon, Z. V., eds.), Moscow, (JPRS #12471, pp. 22-24, (1962)), (Translation of O Biologicheskoy Vordeistvii Sverkhvysokikh Chastot, Moscow, Acad. of Med. Sci., USSR, 1960, pp. 29-31); (Also in Biological Effects of Microwaves, "Effect of chronic exposure to UHF on the human organism", pp. 7-8, ATD P-65-68, Sept. 1965), "The clinical aspects of chronic influence of SHF/UHF on the human organism"

326. DROGICHINA, E. A., & SADCHIKOVA, M. A., (1963) Abstracts of Conf. on Industrial Hygiene and the Biological Action of Radio Frequency Electromagnetic Fields. Institute of Industrial Hygiene and Occupational Diseases, Acad. Med. Sci., Moscow; 29 pages
327. DROGICHINA, E. A., & SADCHIKOVA, M. A. (1964) Trudy Nil Gigiena Truda i Profzabolevaniya, USSR, (2):105-109, "Clinical syndromes during the action of various radio frequency ranges"
328. DROGICHINA, E. A., & SADCHIKOVA, M. N. (1965) Gigiyena Truda i Professional'nyye Zabolevaniya (Labor Hygiene and Occupational Diseases) 9(1):17-21 (JPRS #29694, TT:65-30791), "Clinical syndromes arising under the effect of various radio frequency bands"
329. DROGICHINA, E. A., SADCHIKOVA, M. A., & GINZBURG, D. A. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, p. 22 only, "Clinical symptoms of acute phases of continuous action of centimeter waves"
330. DROGICHINA, E. A., SADCHIKOVA, M. A., GINZBURG, D. A., & CHULINA, N. A. (1962) Gigiyena Truda i Professional'nye Zabolevaniya, USSR, 6(1):28-34, (JPRS 13157), "Certain clinical manifestations from chronic exposure to centimeter waves"
331. DROGICHINA, E. A., SADCHIKOVA, M. N., SNEGOVA, G. V., KONCHALOVSKAYA, N. M., & GLOTOVA, K. V. (1966) Gigiyena Truda i Professional'nye Zabolevaniya 10(7):13-17, (JPRS 38663, LC-ATD-66-124, AD 644360), "The problem of autonomic (vegetative) and cardiovascular disorders during the chronic action of SHF electromagnetic fields"
2366. DRONOV, I.S., & KIRITSEVA, A.D. (1971), Gigiyena i Sanitariya, 36(7-9):51-53, (July-Sept.), (in Russ.); (Engl. transl. in Hygiene and Sanitation (USSR), 36(7):63-66 (1971)); "Immunological changes in immunized animals on long-term exposure to SHF radio waves." [Rabbits exposed 4 hours/day for 4 months pre-, during-, and post-exposure to typhus antigen. Antibody formation inhibited at 50 microwatt/cm², but unaffected at 10 microwatt/cm².]
2761. DRONOV, I.S., & KIRITSEVA, A.D. (1972), Gigiyena Truda i Professional'nyye Zabolevaniya, (9):15-18, (In Russ.), (transl. as JPRS No. 57711), "Immunological reactivity of animals in prolonged irradiation by ultra high frequency radio-waves".
332. DRUZ, V. A., & MADIYEVSKII, V. M. (1966) Biophysics 11:724-731 (In English), (Biofizika 11(4):631-637), "Effect of constant magnetic and low-frequency electromagnetic fields on the hydration capacity of surviving tissues"
3433. DUFFY, E.F., CAIN, F.L., & COWN, B.J. (1976), Naval Engineers Journal, (Feb.), pp. 55-65, "General considerations in determining the potential personnel radiation hazards from phased-array radars aboard ships."
333. DUHAMEL, J. (1959) Presse Med. 67(4):151-, (In French) "Biological effects of ultrahigh frequency radio waves"
2146. DUKE-ELDER, W. S. (1926) Lancet 1:1137-1140, 1188-1191, 1250-1254, "The pathological action of light upon the eye" [including very long wavelength "light"]
3183. DUMANSKY, J.D., & SANDALA, M.G. (197), Ref. 7, (Proceedings):289-293, "The biologic action and hygienic significance of electromagnetic fields of superhigh and ultrahigh frequencies in densely populated areas".
334. DUMANSKIY, YU. D. (1966) (Ref.7) ATD-66-92, "Hygienic evaluation of radio frequency electromagnetic waves"
335. DUMANSKIY, YU. D. (1967) Vestnik Akademii Meditsinskikh Nauk USSR, 22(8):47-52, (ATD 68-105-108-9, Soviet Radiobiology (June 1968)) (AD 671436), "Hygienic evaluation of radio frequency electromagnetic fields in populated areas"
3434. DUMANSKIY, YU.D., & STEPANOV, A.G. (1975), Gigiyena Naselennykh Mest, (14):117-120, (in Russian), Transl. In: Effects of Non-Ionizing Electromagnetic Radiation (JPRS #L/5615), 10 Feb. 1976, pp. 26-28, "On the question of the permissible levels of exposing the population to electromagnetic fields with frequencies up to 3×10^8 Hz."
3435. DUNCAN, R.I., & MACMILLAN, A.D. (1975), Nature, 257():162 only, (Sept. 11), "Embryonic chick tibiae in steady electric fields." [No change in growth rate predicted for constant E-field; as opposed to a pulsed E-field]; [See also WATSON, et al., citation #3670, this Biblio.]
2367. DuPLESSIS, J.M.E., BULL, A.B., & BESSELING, J.L.N. (1967), Anesthesia & Analgesia, 46():96-100, "An assessment of radio frequency induction heating of blood for massive transfusion."
2762. DURNEY, C.H., MASSOUDI, H., & JOHNSON, C.C. (1974), (In Press), "Long wavelength analysis of plane wave irradiation of a prolate spheroid model of man".
1987. DUVALL, E. (1971) Mead (Data) Central, Inc., (1254 Jefferson Davis Highway, Arlington, Va., 22202), "Computer storage of selected articles on the biological effects of electromagnetic radiation"
3436. DWIVEDI, R.S., OGUNMUJI, S., & McCLEOD, W. (1974), J. of Cell Biology, 63(2):90- , "Some biological and cytological observations on the effect of non-ionizing (microwave) radiation."
2147. DYACHENKO, N. A. (1970), Voenno-Meditsinskii Zhurnal :35-37, (In Russ.), (Abstr. #A70-28358), "Effect of electromagnetic microwave radiation on the functional state of the myocardium" [human studies]
2148. DYACHENKO, N. A. (1970) Gigiyena Truda i Professional'nyye Zabolevaniya, Moscow, (7):51-52, (In JPRS 51238, & N70-39486), "Change in thyroid function [using ¹³¹I in humans] after chronic exposure to microwave irradiation"
336. DYAKOV, YU, P. (1957) Trudy Voj Med. Akad. i Kirov, USSR, 73:20 only, [Title not given]

2763. D'YARENKO, N.A. (1970), *Voenno-Meditsinskii Zhurnal* (Moskva), 9():45-47, (In Russ.), "The prevention of functional interference of the cardiovascular system among radar operators". (Another transl. of citation #2368, this Biblio., listed for D'YACHENKO?).
337. DZYAMIDAVA, S. I., & KULIN, YA. T. (1967) *Akademiia Navuk BSSR, Minsk, Vesti Seryya Biyalahichnykh Navuk* (2):84-86, (Abstr. in *ATD Rpt 68-105-108-9, Soviet Radiobiology*, p. 73 only, (June 1968), AD 671436), "Effects of ultrahigh frequency exposure on the amount of glycolysis-intermediate products in yeast cells"
338. EAKIN, S. K. (1964) Doctoral Dissertation, Baylor Univ., "Behavioral effects of stimulation by UHF radio fields"
338. EAKIN, S. K., & THOMPSON, W. D. (1962) *Psychological Reports* 11:192 only, "Effects of microwave radiation on the activity level of rats"
2149. EAKIN, S. K., & THOMPSON, W. D. (1965) *Psycholog. Rept.* 17:595-602, "Behavioral effects of stimulation by UHF radio fields"
2369. EBERSOL, E.T. (1973), *Microwaves*, 12(3) p. 16 only, (March), "Microwaves to substitute for DDT", [In mosquito control; irradiation at 24 GHz, 1 to 3 minutes, 2000 pulses/sec, 0.5 usec. pulses, so that the power density was about 2 mw/cm² caused significant mortality to larvae and unhatched eggs.]
3437. ECKER, H.A. (1975), *Microwave Journal*, 7():47- (July), "Biomedical applications of EM radiation" [particularly in the microwave region].
2370. ECKER, H.A., BURNS, C.P., & MAGIN, R.L. (19??), Ref ?, pp. 143-145, "Enhancement of cancer chemotherapy by selective electromagnetic heating of tumors".
340. ECKER, H. A., ZIMMER, R. P., & CAMP, R. W. (1969) Georgia Institute of Technology, Tech. Note #1, "Preliminary investigation of the use of electromagnetic radiation in differential hypothermia"
341. EDELWEJN, Z. (1968), *Acta Physiologica Polonica*, 19(6):897-906, (in Polish with English summary), (in Engl. Edition, 791-799), "An attempt to assess the functional state of the cerebral synapses in rabbits exposed to chronic irradiation with microwaves."
342. EDELWEJN, Z., & BARANSKI, S. (1966) *Lekarz Wojskowy, Poland*, __ (9):781-786, (In Polish), (NASA TT-F-10-612, Jan. 1967), "Investigation of the effects of irradiation on the nervous system of personnel working with microwave fields"
343. EDELWEJN, Z., & HADUCH, S. (1962) *Acta Physiologica Polonica* 13(3):431-435, (In Polish), (*Physiological Polonica* 13(3): 371-374, (1963), English transl.), "Electroencephalographic studies in persons exposed to microwaves"
344. EDEN, W.M. (1970) Paper presented at 4th Annual Midyear Topical Symposium, Health Physics Soc., Electronic Product Radiation and the Health Physicist, Louisville, Ky., 28-30 Jan.; *Bur. of Radiation Health, Div. of Electronic Product Rept.* No. 70-26, pp. 159-172, "Microwave oven repair: hazard evaluation"
2764. EDEN, W.M. (1970), In: Proc. of the 4th Annual Midyear Topical Symposium, the Health Physics Soc., Louisville, KY, 28-30 Jan.; Bureau of Radiological Health, U.S. Dept. of Health, Education & Welfare, Rept. No. BRH/DEP 70-26, (Oct.), pps 159-172, "Microwave oven repair: Hazard evaluation".
2765. EDMONDS, C., et al. (1970), *Amer. J. of Ophthal.*, 69():65-72, "Histopathologic changes following cryosurgery and diathermy of the rabbit ciliary body".
2150. EDMONDS, F., & HARTMANFT, J. (1971) *Health Physics* 21(3):457-461, "A survey of residential and commercial microwave ovens in Orange County, California"
345. EDMONDS, F. E. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1 (Payton, M. F., ed.) p. 327-, "Naval exposure environment"
3438. EDRICH, J., & HARDEE, P.C. (1975), *Digest of Tech Papers, Internat. Microwave Symp. (Palo Alto, CA)*, "Microwaves in Service to Man," May 12-14, (A75-36523), pp. 288-290, "Complex permittivity and penetration depth of certain biological tissue between 40 and 90 GHz."
3184. EDWARDS, G.H. (1964), *J. Sci. Food Agric.*, 15():108-114, "Effects of microwave radiation on wheat and flour: The viscosity of the flour pastes".
346. EGAN, W. G. (1957) *Electrical Engineering* 75:126-, "Eye protection in radar fields"
2151. EINHÄUGLER, R. B., & KURZ, G. B. (1968), *Amer. J. of Ophthalmology* 65(5):866-869, (Abstr. #A60-80371), "Cataract secondary to microwave radiation"
2152. EINOLF, C. W. (1968), Ph.D. Dissertation, U. of Rochester (Dissertation Abstr. 29(5):1568B (Nov)), "The low frequency dielectric dispersions of microorganisms"
2766. EISENBERG, L., MAURO, A., GLEEN, W.W.L., & HAGERMAN, J.H. (1965), *Science*, 147():pps. ?, "Radio frequency stimulation: A research and clinical tool".
347. EISENBUD, M. (1964) Annual Progress Report to the Commission on Environmental Hygiene of the Armed Forces Epidemiological Board, (AD 431047L), "Exposure of radar workers to microwaves"

348. EL'DAROV, A. I., & KHOLODOV, YU. A. (1964) *Zh. Obshchei Biologii* 25(3):224-229, "The effect of a permanent magnetic field on the motor activity of birds"
349. ELDER, R. L. (1971) In: Proc. "Biological Effects of Non-Ionizing Radiation" Symposium, (Rosenthal, S. W., Chm.), New York, 22-25 Mar., "Introduction-development of regulatory programs under the Radiation Control for Health and Safety Act of 1968"
2371. ELDER, R.L., & BAUGH, W.C., Jr. (1972), *IEEE Transactions on Biomedical Engineering*, BMF-19(4):300-304, "Development of regulatory programs under the radiation control for Health and Safety Act of 1966".
3185. ELDER, R.L., EURE, J.A., & NICOLLE, J.W. (1974), *The J. of Microwave Power*, 3(2):51-61, (June), "Radiation leakage control of industrial microwave power devices".
3186. ELDER, R.L., & GUNDAKER, W.E. (1971), *J. of Milk Food Technol.*, 34(9):444-446, "Microwave ovens and their public health significance".
350. ELEAZAROVA, M. P. (1940) *Moskovskaia oblastnaia klinika fizicheskikh metodov lechenia. Trudy (Moscow)* 4:177-, "Changes in protein metabolism under the influence of UHF fields"
2768. ELEY, D.D., et al. (1971), *Bioenergetics*, 2():39-45, "Microwave Hall mobility measurements on rat liver mitochondria and spinach chloroplasts".
2372. ELEY, D.D., MAYER, R.J., & PETHIG, R. (1972), *Bioenergetics*, 3:271-275, "Microwave charge carrier Hall mobility measurements on cytochrome-oxidase prepared from heavy beef heart mitochondria".
2767. ELEY, D.D., MAYER, R.J., & PETHIG, R. (1973), *Bioenergies*, 4():187-200, "Microwave Hall mobility [at 9.2 GHz] measurements on heavy beef heart mitochondria".
2373. ELEY, D.D., & PETHIG, R. (1971), *Discuss. of the Faraday Soc.*, 51():164-175, "Microwave dielectric and Hall effect measurements on biological materials".
351. ELISEEV, V. V. (1964) In: *The Biological Action of Radio-Frequency Electromagnetic Waves*, Moscow, p. 94-, "Method of irradiating animals in experimental investigations of the action of radio-frequency electromagnetic waves"
352. ELISEEVA, M. I. (1937) *Sbornik Biol. deistvii UHF*, (Compilation of Biological Effects of UHF Radiation), (In Russian), 261 pages, "Glycaemic reaction in rabbits to the action of electrical fields of UHF"
3187. ELLIOT, F.C., KHOURI, E.M., SNOW, J.A., & GREGG, D.E. (1974), *Circ. Res.*, (USA), 34(3):374-383, (Mar.), "Direct measurement of coronary collateral blood flow in conscious dogs by an electromagnetic flowmeter".
353. ELY, T. S. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:97-104 (AD #131477), "Field trial of Richardson microwave dosimeter"
354. ELY, T. S. (1959) Digest of Technical papers, Proc. of 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chm.), Lewis Winner, pub., New York, "Review of some recent research on the whole body effects of microwaves"
2770. ELY, T.S. (1969), *J. of Occupational Med.*, 11(4): P. 7, (Apr.), "Potential hazards of microwave ovens".
2769. ELY, T.S. (1971), *Amer. Indust. Hygiene Assoc. J.*, 32():267-268, (Apr.), "A microlite detector modification for microwave oven maintenance".
2153. ELY, T. S. (1971) In Letters to the Editor section of *J. Amer. Med. Assoc.* 217(10):1394 only, "Microwave death" [quotes section of an Armed Forces Inst. of Pathology rept. which discounted a report (citation #953, this Biblio.) of a human death allegedly induced by radar]
355. ELY, T. S., & GOLDMAN, D. E. (1957) Proc. of 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:64-75, (Also Naval Medical Research Institute Research Rpt 15, 77-138, (1957); (with Hearon, J. Z.), *IEEE Trans. on Bio-Medical Engineering*, BME-11(4):123-137, (1964); and *Inst. of Radio Engineers Trans. on Med. Electronics*, PGME-4, 38-43 (1956)), "Heating characteristics of laboratory animals exposed to ten centimeter microwaves - summary"
356. ENGELBRECHT, R. W., & MUMFORD, W. W. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1 (Peyton, M. F., ed.) pp. 55-70, "Some engineering aspects of microwave radiation hazards"
2154. ENGLAND, T. (1949) *Nature* 163(4143):487-, "Dielectric properties of the human body in the microwave region of the spectrum"
- 481
357. ENGLAND, T. S. (1950) *Nature* 166(4220):480-, "Dielectric properties of the human body for wave-lengths in the 1-10 cm range"
358. ENGLAND, T. S., & SHARPLES, N. A. (1949) *Nature* 163(4143):487-488, "Dielectric properties of the human body in the microwave region of the spectrum"
359. ENGLE, J. P., HERRICK, J. F., WAKIM, K. G., GRINDLAY, J. H., & KRUSEN, F. H. (1950) *Arch. of Physical Med.* 31:453-461, "The effects of microwaves on bone and bone marrow, and on adjacent tissues"

2771. ENNOW, K. (1971), *Fra Sundhedsstyr*, 5():277-279, (Jan.), (In Danish), "Harmful effects of radiation from microwave ovens".
2772. ENVALL, K.R., PETERSON, R.W., & STEWART, H.F. (1972), Division of Electronic Products, Public Health Service, Bureau of Radiological Health Rept. No. BRH/DEP 72-4, DHEW Publication No. (FDA) 72-9012, "Measurement of electromagnetic radiation levels from selected transmitters operating between 54 and 220 MHz in the Las Vegas, Nevada, area".
360. EPSTEIN, N., & COOK, H. (1951) *British J. of Cancer* 5:244-, "The effects of microwaves on the 'Rous N-1' fowl sarcoma virus"
2773. ERDMAN, W.J. (1960), *Amer. J. of Orthopedics*, 2():196-197, (Aug.), "Peripheral blood flow measurements during application of pulsed high frequency currents".
361. ERICKSON, E. E., & KINNEY, R. A. (1969) Louisiana State Univ., Baton Rouge, Tech. Rpt #2, (AD 685644), "A study of the feasibility of stimulating neurons by electromagnetic waves"
3188. ERMAN, J.J. (1970), *J. of the American Assoc. of Foot Specialists*, 1():1-2, (Jan.), "Physical medicine in podiatry: a new concept", [pulsed, high-frequency electromagnetic radiation].
2774. ERMANKOV, E.V., et al. (1970), *Soviet Med.*, 33():138-139, (Sept.), (In Russ.), "Etiology of neuroendocrine disturbances in the prolonged effects of an ultra-high frequency electromagnetic field".
362. ERRERA, J. (1939) *ACTA Unio Internationalis contra cancerum (Paris)* 4:195-203, (In French) "Colloidal solutions and high frequency radio waves"
363. ERSHOVA, L. K., & DUMANSKII, YU. D. (1969) *Fiziologichnyy Zh. (Kiev)* 15(6):777-780, (In Ukr. with English summary), "Cortical biopotentials in rabbits under the effect of low intensity electromagnetic fields with radio frequency waves"
3439. ERSHOVA, L.K., & MUKHARSKIY, M.S. (1975), *Gigiyena Naselennykh Mest*, 14(14):105-109, (in Russian), Transl. In: *Effects of Non-Ionizing Electromagnetic Radiation (JPRS #L/5615)*, 10 Feb. 1976, pp. 20-25, "Effect of medium- and short-wave electromagnetic fields on several indicators of the functional state of the nervous system."
364. ESAY, A., et al. (1936) *Naturwissenschaften* 24:520-, "Temperature measurements of biological tissue layers at frequencies of 2.7×10^7 Hz to 1.2×10^8 Hz"
2374. ESCHER, D., PARKER, B., & FURMAN, S. (1971), *Circulation* 43-44:Suppl. II: 162- , "Influence of alternating magnetic fields on triggered pacemakers".
365. ESSMAN, L., & WISE, C. (1950) *Arch. of Physical Med.* 31:502-507, "Local effects of microwave radiation on tissues in the Albino rat"
366. ETTER, H. S., PUDENZ, R. H., & GERSH, I. (1947) *Arch. of Physical Med.* 28:333-344, "Injurious effects of tissues contiguous to implanted surgical methods"
367. ETTINGER, H. J. (1963) Los Alamos Sci. Lab., USAEC Health and Safety Information, Issue 171 (Sept.), "Microwave hazards"
2375. EURE, J.A., NICOLLS, J.W., & ELDER, R.L. (1972), *Amer. J. of Public Health*, 62(12):1573-1577, "Radiation exposure from industrial microwave applications".
2775. EVTUSHENKO, G.I., KOLODUB, F.A., YASHINA, L.N., & TKACHENKO, V.V. (1972), *Gigiyena i Sanitariia (Moskva)*, 37():35-38, (In Russ. w/Engl. abstr.), "Hygienic assessment of pulsed electromagnetic fields of low frequency".
2155. FABIAN, F. W., & GRAHN, H. T. (1933) *J. of Infectious Diseases* 55:76-88, "Influence of high-frequency displacement currents on bacteria"
368. FAGO, E. T. (1966) Midwest Research Institute, Kansas City, Mo., Final Rpt. (March 1965 to August 1966) to the Naval Ship Systems Command, "Evaluation of radio-frequency protective clothing and measuring instruments"
369. FAITEL'BERG-BLANK, V. R. (1962) *Fiziologicheskii Zh. SSSR* 48(6):735-741, (In Russian) "Absorptive, gastric, and intestinal activity under the influence of the microwave electric field"; (Also, *Federation Proc.* 22, Trans. Supp. pp. T301-T305 (1963), (in English), "Absorptive activity of stomach and intestine under the influence of a UHF electric field")
370. FAITEL'BERG-BLANK, V. R. (1962) *Akademiia nauk SSSR, Kiev Dopovidi* 10(10):1367-1370, (In Russian), "The effect of centimeter-band radio waves on the absorption of amino acids, chlorides, and water in the stomach and intestine"
371. FAITEL'BERG-BLANK, V. R. (1963) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 56(8):70-74, (In Russian); (Also, *Chemical Abstracts* 59:14387-g), "Effect of long-wave diathermy on the absorption by the stomach and intestine"
372. FAITEL'BERG-BLANK, V. R. (1964) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 57(1):45-48, (In Russian); (Abstr. in *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, ATD Rept. P-65-17, Apr. 1965), "Effect of high frequency waves of centimeter wavelength on the absorptive activity of the stomach and intestine"

373. FAITEL'BERG-BLANK, V. R. (1965) Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya (Moskva) 9(4):90 only, (In Russian) "Changes in absorptive and secretory functions of the stomach affected by experimental ulcers from exposure of the organism to high frequency physical agents"
374. FAITEL'BERG-BLANK, V. R. (1965) Fiziologicheskii Zh. SSSR Sechenova 51(3):372-377, (In Russian) "Variation in mechanism of gastric and intestinal absorptive activity upon exposure to SHF-UHF radiowaves (in the centimeter range)"
375. FAITEL'BERG-BLANK, V. R. (1965) AN UKR RSR Dopovida Akad. Sci. (1):113-116, (In Russian); (Abstr. in Biological Effects of Microwaves, ATP-P-65-68, pp. 56-58), "Role of the CNS and autonomic nervous system in the mechanism of the action of SHF-UHF on gastrointestinal absorption"
2776. FAITEL'BERG-BLANK, V.R., & SIVORINOVSKY, G.A. (1972), Fiziol. Zh., 18():808-814, (Nov.-Dec.), (In Russ., w/Engl. summary), "The effect of ultrasound and superhigh frequency (3-cm wavelength) electromagnetic field [independently applied to rat stomach at 25 to 100 $\mu\text{W}/\text{cm}^2$] on liver and kidney mitochondrial oxidative phosphorylation", [observed decrease in phosphorylation efficiency; suggest possible "adaptation" to effect of low intensity of microwaves".
2777. FAITEL'BERG-BLANK, V.R., et al. (1970), Fiziol. Zh., 16():379-384, (May - Jun.), (In Ukr.), "Changes in the absorption ability of pleura under the effect of high-frequency electromagnetic oscillations".
2778. FAITEL'BERG-BLANK, V.R., et al. (1972), Voprosy Kurortologii Fizioterapii i Lechebnoi Fizicheskoi Kul'tury (Moskva), 37():426-432, (Sep.-Oct.), (In Russ., no Engl.), "Change in the tissue respiration and oxidoreductases in the digestive organs under the influence of meter-band electromagnetic fields".
2156. FANNEY, J. H., & POWELL, C. H. (1967) Amer. Industrial Hygiene Assoc. J. 28(4):335-342, "Field measurement of ultraviolet, infrared, and microwave energies"
3440. FANLOW, G.E., TOLLEFSON, J.J., & OWENS, J.C. (1975), J. of Microwave Power, 10(3):321-326 (Sept. 1975), "Ovicidal levels of 2.45 GHz electromagnetic energy for the southern corn rootworm."
2376. FASTYKOVSKII, A.D. (1972), Voprosy Kurortologii Fizioterapii i Lechebnoi Fizioterapii Kul'tury, 37(4):317-320, (July-Aug.), (in Russ.), "Microwave therapy of patients with hypertensive disease."
3441. FASTYKOVSKIY, A.D. (1974), Vrachebnoye Delo, (9):56-59 (in Russian), Transl. In: Effects of Non-Ionizing Electromagnetic Radiation (JPRS #66512), (7 Jan. 1976), pp. 47-50, "Effect of a UHF field on the course of hypertensive disease."
3442. FAYTEL'BERG-BLANK, V.R., & ORLOVA, A.V. (1975), Vestnik Sel'skhozayaystvennoy Nauki, (8):89-91, (in Russian), Transl. In: Effects of Non-Ionizing Electromagnetic Radiation (JPRS #L/5615), 10 Feb. 1976, pp. 54-57, "The effect of microwaves on permeability of histo-hematic barriers in radiation sickness."
3443. FAYTEL'BERG-BLANK, V.R., & ORLOVA, A.V. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation," (JPRS #64532), pp. 37-41, "The effects of a combination of microwaves and X-rays on the permeability of histo-hematic barriers." [*also spelled Faytel'berg-Blank]
3444. FAYTEL'BERG-BLANK, V.R., PEREVALOV, G.M., & GERASYMOVYCH, E.V. (1975), Fiziologichnyy Zhurnal, 21(6):833-839, (in Ukrainian), Transl. In: Effects of Non-Ionizing Electromagnetic Radiation (JPRS #L/5787), 26 Mar. 1976, pp. 24-33, "Dynamics of the bioelectrical activity of bird brain under the effect of microwaves and ultraviolet rays" [chickens with implanted metallic electrodes irradiated at 2375 MHz (12.6 cm) from a "Luch-58" apparatus at between 5 and 300 mW/cm^2 for 10 min. exposure].
3189. FAYTEL'BERG-BLANK, V.R., & PEREVOSHCHYKOV, Yu.O. (1973), Fiziologichnyy Zhurnal Akademiyi Nauk Ukrayins'koyi RSR, 19(3):pp ?, [Transl. in "Effect of non-ionizing electromagnetic radiation", JPRS #62462, July 1974, Citation #3134 this biblio., pgs. 14-24], "Absorption of radiophosphorus across the synovial membrane of the knee joint under the influence of sinusoidal modulated current pulses". [*also spelled Faitel'berg-Blank.]
3445. FAYTEL'BERG-BLANK, V.R., & SHAPOVALOVA, L.A. (1975), Patologicheskaya Fiziologiya i Eksperimental'naya Terapiya, (1):75-78, (in Russian), Transl. In: Effects of Non-Ionizing Electromagnetic Radiation (JPRS #66512), 7 Jan. 1976, pp. 25-29, "Effects of experimental toxic hepatitis and microwaves on the function of hepatic and renal mitochondria."
3446. FAYTEL'BERG-BLANK, V.R., & SHAPOVALOVA, L.A. (1975), Dopovidi Akademiyi Nauk Ukrayins'koyi RSR, Seriya B, Heolohiya, Heofizika, Khimiya Ta Biolohiya, (7):651-654, (in Ukrainian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 67-72, "Effect of microwaves on the function and structure of hepatic and renal mitochondria." [*also spelled Faytel'berg-Blank]
3447. FAYTEL'BERG-BLANK, V.R., & SHENKERMANN, Ye.D. (1974), Fiziologichnyy zhurnal Akademii Nauk Ukr. SSR, 20(3):378-385 (in Ukrainian), "Methionine absorption in the digestive tract of chickens under the influence of microwaves."
376. FEDORENKO, N. YE., & SPASSNIY, A. A. (1966) Elektronnaya Obrabotka Materialov 5:55-62, (Abst. in ATD Rpt 68-105-108-9, Soviet Radiobiology, p. 74 only (June 1968), AD 671436), "Method of exposing the active electrical field of living organisms"
3190. FEDOROVA, I.S., & EMEL'YANOV, V.B. (1973), Biofizika, 18(6):1014-1019, (In Russ.), [Transl. in JPRS No. 62942, Sept. 12, 1974, pp. 1-8], "Calculation of the distribution function for the diameters of thin-walled spheres on the basis of electromagnetic radiation scatter data". [Biological applications]
1988. FEIN, R. L. (1967) J. of the Amer. Medical Assoc. 202:101-103, "Transurethral electrocautery procedures in patients with cardiac pacemakers"

377. FELLOWS, O. N., GRAY, O. S., & SANDERS, M. (1970) Presented before the New York Academy of Sciences, Nov. 1970 at the Symposium on "Effect of Controlled Electromagnetic Energy on Biological Systems", 7 pages, "Selective effect of electromagnetic energy on viruses"
378. FENN, J. E. (1969) Canadian Medical Assoc. 100:251-254, "Effect of pulsed electromagnetic energy (Diapulse) on experimental hematomas"
379. FERREIRA, J., & CARDANELLI, J. (1957) Case Practice Medicine 34:262-, "Lipophegin granulosa of abdominal wall due to diathermy"
2779. FERRI, S., & CIVIERO, G. (1972), *Cardiologia Pratica*, 23():45-53, (In Ital., w/Engl. summary), "Changes induced by short waves in the peripheral circulation: Study of normal subjects".
380. FERRIS, B.G., Jr. (1966), *New England J. of Med.*, 275:1100-1105, "Environmental hazards: Electromagnetic radiation." [including a section on microwave radiation]
381. FEUCHT, B. L., RICHARDSON, A. W., & HINES, H. M. (1949) *Arch. of Physical Med.* 30:164-169, "Effects of implanted metals on tissue hyperthermia produced by microwaves"
2780. FEY, F.L., Jr. (1967), U.S. Atomic Energy Commiss., Univ. of Calif., Los Alamos Sci. Lab., No. 1-5, (LA-3722, UC-41), (N67-37356), (12 Jul.), "A personnel radio-frequency radiation monitor".
382. FIDEL'MAN, F. M., & RASINA, G. YA. (1967) *Gigiena Truda i Professional'nye Zabollevania (Moskva)* (8):56-57, (ATD Rept. 68-105-108-9 *Soviet Radiobiology*, pp. 74-75 (June 1968); AD 671436), "Hygienic evaluation of intensity levels for HF electromagnetic fields at Chelyabinsk Industrial plants, and the means of protection against the fields"
2377. FIENI, D.O. (1972), Rept. #ECAC-PR-72-034 of Department of Defense Electromagnetic Compatibility Analysis Center, (July), "Metropolitan radiation hazards, Part II", [Within the U.S., including Alaska and Hawaii; non-ionizing]
2378. FIENI, D.O. (1972), Rept. # ESD-TR-72-006 of Department of Defense Electromagnetic Compatibility Analysis Center, (March), "Metropolitan [non-ionizing] radiation hazards, Part I", [Within a 50-mile rad. of Wash., D.C.]
383. FIGAR, S. (1963) *Ceskoslovenska Fysiologie (Praha)* 12(5):316 only, (In Czech), (ATD Rept. U-64-110 (English abst.), 7 pages, AD 623253), "Effect of a strong electromagnetic field on vasomotor activity"
2379. FINCH, E.D., & McLEES, B.D. (1972), Naval Medical Research Inst., Bethesda, Res. Rept. No. 7 on Project No. MF51.524.015-0001BD7X, "An examination of gamma globulin, acetylcholinesterase, and chymotrypsin following radio frequency irradiation".
2781. FINCH, E.D., & McLEES, B.D. (1973), Naval Medical Research Institute (Bethesda, MD), Rept. No. 7 on project MF51.524.015-001BD7X, (Dec.), [Absence of structural or functional changes in solutions of], "Gamma globulin, acetylcholinesterase, and chymotrypsin following [pulse modulated] radiofrequency [10-15 MHz] irradiation", (clarification of previously cited rept.).
2782. FINCH, E.D., & McLEES, B.D. (1974), Naval Medical Research Institute, (Bethesda, MD), Rept. No. 1, under MF51.524.015-0001, (Jan.), (AD #774-470), "Gamma globulin, acetylcholinesterase, and chymotrypsin following radiofrequency irradiation".
384. FINCH, H. (1955) General Electric Lab., BA102 Data Folder DF55CL-278, "Bibliographical abstract of biological effects of electromagnetic radiation"
385. FINKELSTEIN, S., & ROTH, E. M. (1968) In: Compendium of Human Responses to the Aerospace Environment, 1, (5), pp. 1-22, "Electrical current"
386. FISCHER, F. P., NEUBAUER, R. A., & SARKEES, Y. T. (1959) In: Investigators' Conf. on Biological Effects of Electronic Radiating Equipments, (Knauf, G. M., Chm.), pp. 19-25 (for Parts I, II, & III), Part I, "Studies on the biological effects of 200 megacycles"; Part II, Osborn, C. M., (title not given), and Part III, Addington, C., "Ophthalmological studies"
387. FISCHER, F. P., NEUBAUER, R. A., SARKEES, Y. T., ADDINGTON, C. H., OSBORN, C., & SWARTZ, G. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments* (Susskind, C., ed.) 3:15-21, "Electrical instrumentation of bio-electric hazards at 200 mc, and the development of a miniature hazard meter"
2157. FISCHER, H., & MULLER, H. (1964) *Truppenpraxis (Tactics, Technique, and Training for Officers of the Military)*, Rept. No. 10, pp. 757-758, (A65-80058), "Are radar waves dangerous to man?"
388. FISHER, L. I. (1964) *Voprosy Kurortologii Fizioterapii, i Lechebnoy Fizicheskoy Kultury (Problems of Health-Resort Science, Physiotherapy, and Therapeutic Physical Culture)*, 29(2):149-154, (OTS-64-31500; JPRS 25121, pp. 9-16), "Use of SHF-UHF therapy in acute nephritis"
2380. FISHER, L.J. (1966), M.S. Thesis, Tufts U., "Microwave field measurements in the vicinity of a biological specimen".
2158. FISHER, L. J. (& CARPENTER, R. L.), (1969) Ph.D. Dissertation, Tufts Univ. (University Microfilms, Inc., No. 70-18,002), "Peak versus average power in microwave induction of lenticular cataracts"
389. FIXOTT, R. S., & ROSE, __. (1956) Rpt, School of Aviation Medicine, U. S. Air Force (March), "Ocular findings on electronics personnel"

390. FLAX, H. J., MILLER, R. N., & HORVATH, S. M. (1949) Arch. of Physical Med. 30:630-637, "Alterations in peripheral circulation and tissue temperature following local application of short wave diathermy"
391. FLEMING, H. (1944) Electrical Engineering 63(1):18-21, "Effect of high frequency fields on micro-organisms (bacteria)"
392. FLEMING, J., JR., PINNEO, L., BAUS, R., JR., & McAFEE, R. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1 (Peyton, M. F., ed.), pp. 229-249, "Microwave radiation in relation to biological systems and neural activity"
393. FOFANOV, P. N. (1966) Klinicheskaya Meditsina 44(4):18-22, (JPRS 36301; IT-66-32733), "Features peculiar to hemodynamics in persons working in conditions of protracted electromagnetic high frequency radiation"
394. FOFANOV, P. N. (1966) Probl. Endokrinologii i Gormonoterapii, Moscow 12(5):16-17, (In Russian), (JPRS-39265), "On functional changes of the thyroid gland in persons exposed to the effect of microwave irradiation (preliminary report)"
395. FOFANOV, P. N. (1968) Sovetskaya Meditsina 31(9):107-110, (In Russian), "Clinical picture of continuous action of SHF-UHF electromagnetic radiation on man"
396. FOFANOV, P. N. (1969) Kardiologiya 9(4):124-126, (JPRS 48481, July 1969), "Hemodynamic changes in individuals working under microwave irradiation"
397. FOLLIS, R. H., JR. (1946) Amer. J. of Physiology 147:281-283, (Also, Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1 (Peyton, M. F., ed.) pp. 229-249, "Studies on the biological effects of high frequency radio waves (radar)" 1961),
398. FORTUNATOW, E. (1968) Report, ATD 68-105-108-9; N68-33037; AD 671436, "Soviet Radiobiology"
2783. FOSTER, K.R., & FINCH, E.D. (1974), Presented at the Biophysics Soc. Meeting, Minneapolis, Minn., 4 June 1974, "Micro-wave hearing: Thermoacoustic stimulation of the human auditory system by pulsed microwaves".
2784. FOSTER, K.R., & FINCH, E.D. (1974), Science, 185(4147):256-258, (19 July), "Microwave hearing: Evidence for thermoacoustic auditory stimulation by pulsed microwaves."
399. FRAENKEL, G. (1937) Archives Des Sciences Biologiques 47(3):115-132, (Arkh. Biol. Nauk), (In Russian) "A summary of our studies in the electric field of ultra-high frequency"
400. FRANKE, V. A. (1957) In: Proc. of Jubilee Scientific Session of Institute of Labor Hygiene and Occupational Diseases of Academy of Medical sciences of the USSR, Moscow, pp. 71-, "Measurement of electric and magnetic components of a high-frequency field in the immediate vicinity of radiation sources (in the induction zone) in the range 100 kHz - 300 MHz"
401. FRANKE, V. A. (1958) In: Protection from the Action of Electromagnetic Fields and Electric Current in Industry, Leningrad, p. 64-, "Measurement of electric and magnetic components of a high-frequency field in the frequency range 100 kHz to 3 MHz, and the design of equipment"
402. FRANKE, V. A. (1959) In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, "Dependence on the frequency of the absorption of energy by a human in an electromagnetic field"
1989. FRANKE, V. A. (1960) In: Collection of Scientific Papers of the VCSPPS Institutes of Industrial Safety, Leningrad, 3:36-45, (In Russian) "Calculation of the absorption of energy from an electromagnetic field by means of semiconductor models resembling the human body"
1990. FRANKE, V. A. (1961) In: High-Frequency Electrothermal Apparatus, Leningrad, pp. 138-144, (In Russian) "Problems of safety when working with RF and UHF installations in industry"
403. FRANKE, V. A., et al. (1962) Circulation Research 10:870-, "Study of high-frequency components in electrocardiograms by power spectrum analysis"
404. FRANKE, V. A., & USHINSKAYA, O. (1962) Arbeitssoekonomik und Arbeitsschutz (Labor Economy and Occupational Safety) 6(1): 65-71, (In German) "Personnel safety problems confronting operators of (HF and VHF) radio frequency equipment"
405. FRANK-KAMENETSKIY, D. A. (1961) Nauka i Zhizn' (7):88-90, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17 (Apr. 1965)), "Observations by physics (electromagnetics)" [Use of electromagnetic fields in biological studies]
406. FRANK-KAMENETSKIY, D. A. (1961) Doklady Akad. Sci. USSR 136(2):476-478, (In Russian), (Also Transl. in Soviet Physics Doklady (in English) 6:91-92 (1961)), "Plasma effects in semiconductors, and the biological effect of radiowaves"
407. FRANKLIN, P. (ed.) (1969) Microwaves 8(9):13-14, "Microwave safe exposure level scrutinized"; p. 14, "Low level microwaves stop frogs' hearts"; (1969) p. 16, "Monkey deaths denied in RF bio-tests at Sanders"
408. FRASER, A., & FREY, A. H. (1968) Biophysical J. 8(6):731-734, "Electromagnetic emission at micron wavelengths from active nerves"
2381. FREDERICK, C.L. (19??), Rept., 66 pps., Ref ?, "Effects of electromagnetic energy on man".
409. FRENCKEL, G. L. (1941) Arkh. Biologii Nauk, Archives Des Sciences Biologiques 61(1):147-156, "Urgent problems of high frequency therapy and their experimental accomplishment"

410. FRENKEL', G. L. (1937) In: All Union Institute for Experimental Medicine, Moscow, pp. 115-137, also p. 410, "Some characteristics of the biological effect of VHF-HF"
411. FRENKEL', G. L. (1939) The Electrical (UHF-VHF-HF) Field (Ultrashort Waves) in Biology and Experimental Medicine, Vols. I and II; Vols. III and IV (1940) (Elektricheskaya pole ul'travysokoy chastoty (ul'trakovotziye volny) v biologii i eksperimental'noy meditsine, Medgiz, Moscow, Leningrad)
412. FRENKEL', G. L., & KUPALOV, P. S. (1937), See Kupalov and Frenkel' (1937)
413. FREY, A. H. (1961) Aerospace Med. 32(12):1140-1142, "Auditory system response to radio frequency energy: technical note"
414. FREY, A. H. (1961) Presented at Aerospace Medical Assoc. Meeting, April, (Also at 4th Internat. Conf. on Medical Electronics, 20 July, Cornell Univ., Ithaca, N.Y.), "Auditory system response to modulated radio frequency energy"
415. FREY, A. H. (1961) In: Digest of the 1961 Internat. Conf. on Medical Electronics, 4th, (Frommer, P. L., ed.), p. 158 only, "Human auditory system response to modulated radio frequency energy"
416. FREY, A. H. (1962) J. of Applied Physiology 17(4):689-692, "Human auditory system response to modulated electromagnetic energy"
417. FREY, A. H. (1963) Amer. J. of Medical Electronics 2(1):28-31, "Some effects on human subjects of ultra-high frequency radiation"
418. FREY, A. H. (1963) Naval Research Reviews 16:1-, "Human response to very-low-frequency (VLF) electromagnetic energy"
419. FREY, A. H. (1965) Psychological Bulletin 63(5):322-337 (Also Rpt. #64-01, Institute for Research, State College, Pa., (47 pages), AD #606961), "Behavioral biophysics"
420. FREY, A. H. (1967) J. of Applied Physiology 23(6):984-988, (AD 678943), "Brain stem evoked responses associated with low-intensity pulsed UHF energy"
421. FREY, A. H. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 134-139, (AD 698195; N70-20352), "Effects of microwave and radio frequency energy on the central nervous system"
1991. FREY, A. H. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):153-164, "Biological function as influenced by low-power modulated RF energy"
2383. FREY, A.H. (1971?), Rept., Ref ?, 6 pps., "Cardiac and neural effects of radar wavelengths".
2159. FREY, A. H., & EICHERT, E. E., III (1971) Pandomline, Inc., (Willow Grove, Pa.), Rept., 63 pages, "On the nature of electro-sensing in the fish"
3448. FREY, A.H., & FELD, S.R. (1975), J. of Comparative and Physiological Psychology, 89(2):183-188, "Avoidance by rats of illumination with low power nonionizing electromagnetic energy."
2785. FREY, A.H., FELD, S., & FREY, B. (1974), (In Press), "Modification of brain barriers' permeability by in vivo illumination with microwaves".
2786. FREY, A.H., & MESSENGER, R., Jr. (1973), Science, 181():356-358, "Human perception of illumination with pulsed ultra-high-frequency electromagnetic energy".
2382. FREY, A., MESSENGER, R., & EICHERT, E. (1972), Final Rept. to U.S. Army Mobility Equipment Res. & Dev. Ctr., Ft. Belvoir, Va.; from Randomline Inc., Willow Grove, Pa., "A psychophysical study of the RF sound phenomenon." [A study of the RF parameters relevant to the preception of sounds when the head of man is irradiated.] [AD #747684]
422. FREY, A. H., & SEIFERT, E. (1968) Life Sciences 7 (part II):505-512, (AD 678942), "Pulse modulated UHF energy illumination of the heart associated with change in heart rate"
2384. FREY, J., & BOWERS, R. (1972), IEEE Spectrum, 9(3):41-47, "What's ahead for microwaves", [Contains section on microwaves as health hazard.]
2160. FREY, J., & BOWERS, R. (1972) Spectrum, Inst. of Electrical & Electronics Engineers, Inc., 9(3):41-47, "What's ahead for microwaves" [including research on health hazards]
2787. FREYSZ, T., SCHWARZ, H., & HOSSLER, G. (1967), as quoted in RESTALL, C.J., LEONARD, P.F., & TASWELL, H.F., et al., Anesth. & Analg., 46():625-628, "A microwave blood warmer: Preliminary report".
2788. FRICKE, H., SCHWAN, H., KAM, L., & BRYSON, V. (1950?), Rept., "A dielectric study of the low-conductance surface membrane in E. coli".
423. FRICKER, S. J. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:77-78, "Biologically meaningful units of RF measurement and dosimetry development"
424. FRICKER, S. J. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1(Appendix C):104-108, "Summary of results of UHF radiation hazard experiments at Lincoln Laboratory, MIT"

425. FRICKER, S. J. (Moderator) (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:79-88, "Microwave exposure discussion"
2385. FRIEDENBERG, Z.B., HARLOW, M.C., & BRIGHTON, C.T. (1971), J. of Trauma, 11(10):883-885, "Healing of non-union of the medial malleolus by means of direct current: A case report"
2789. FRIEDENBERG, Z.B., ROBERTS, P.G., DIDIZIAN, N.H., & BRIGHTON, C.T. (1971), J. of Bone & Joint Surg., 53-A():1400-1408, "Stimulation of fracture healing by direct current in the rabbit fibula"
3449. FRIEDMAN, H., BECKER, R.O., & BACHMAN, C.H. (1967), Nature, 213(5079):949-956, (Mar. 4), "Effect of magnetic fields on reaction time performance."
3450. FRIEDMAN, H., & CAREY, R.J. (1969), Physiology & Behavior, 4():539-541, "The effects of magnetic fields upon rabbit brains."
426. FRIEND, A. W., JR. (1970) Report, Moore School of Electrical Engineering, Univ. of Pennsylvania, "Some research results concerning the effects of AC electric fields and pulses on the Giant Amoeba, Chaos chaos"
427. FRIEND, A. W., JR. (1970) (A Report proposal for a course at Univ. of Pennsylvania, May), "An investigation of motion of living cells and related electrical, mechanical, and optical phenomena, using giant amoebae and the techniques of micro-circuitry"
2161. FRIEND, A.W., Jr. (1972), Naval Medical Res. Inst. (Bethesda, MD), Research Rept. No. 6 on Project MF12.524.015-00018), (AD #752451), "Low frequencies, motile cells, measurements, and models: Part I. The effects of low frequency electric fields on amoebae and their uses as tools for studying cellular structure."
3192. FRIEND, A.W., Jr., FINCH, E.D., & SCHWAN, H.P. (1975), Science, 187(4170):357-359, (Jan. 31), "Low frequency [1 Hz - 10 MHz] electric field-induced changes in the shape and motility of amoebae"
2790. FRINGS, H. (1952), J. of Econ. Entomol., 45():396-408, (Sept. 29), "Factors determining the effects of radio-frequency electromagnetic fields on insects and materials they infest".
428. FROLOVA, L. T. (1963) Gigiena Truda i Professional'nye Zabolevaniya (Moskva) (Labor Hygiene and Occupational Disease) 2(2):27-29, (JPRS 19068, pp. 6-9, OTS 63-21756, N64-11858), "Hygienic evaluation of the working conditions in work with high-frequency currents"
429. FROMMER, P. L., (ed.) (1961) Digest of the 1961 Internat. Conf. on Medical Electronics. Plenum Press, New York, Biological Effects of Microwaves, I (Athermal Aspects)
430. FUCHS, G. (1952) Wiener Medizinische Wochenschrift 102:583-588, (In German) "The combined shortwave and x-ray therapy of malignant tumors"
2162. FUGITT, C. H. (1960) Office of Naval Research (London) Rept., 5 pages (AD #2448671), on the "Fourth Annual Tri-Service Conference on the Biological Effects of Microwave Radiation"
431. FUKALOVA, P. P. (1964) Trudy Nii Gigiena Truda i Profzabolevaniya, USSR, 2(2):78-79, (JPRS #34,963) "The effect of short and ultrashort waves on body temperature, and the survival rate of experimental animals"
- In:
432. FUKALOVA, P. P. (1964) Biological Effects of Radio Frequency Electromagnetic Fields, Inst. of Industrial Hygiene and Occupational Diseases, Academy of Med. Sci., USSR. (Trudy Nii Gigiyena Truda i Profzabolevaniy, Moscow, USSR, 2(2):144-148) (In Russian) "Sensitivity of olfactory and visual analyzers in individuals exposed to continuously generated short and ultrashort waves"
433. FUKALOVA, P. P. (1964) In: Biological Effects of Radio Frequency Electromagnetic Fields, Inst. of Industrial Hygiene and Occupational Diseases, Academy of Med. Sci., USSR, Moscow (Trudy Nii Gigiyena Truda i Profzabolevaniy 2(2):158-163) (Transl. in: The Biological Action of Radio Frequency Electromagnetic Fields), "Hygiene characteristics of working conditions with sources of shortwave and ultrashort waves at radio and television stations"
434. FUKALOVA, P. P. (1966) Gigiena i Sanitariya, USSR, 31(2):306-308, (IT 66-51160/4-6, in English), "Effectiveness of protection against shortwave and ultrashortwave electromagnetic fields at radio and TV stations"
435. FUKALOVA, P. P., & SMUROVA, YE. I. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 57-58, "Changes in the functional condition of some analyzers (sense receptors?) in persons exposed to SHF-UHF fields"
436. FUKALOVA, P. P., TOLGSKAYA, M. S., NIKOGOSYAN, S. V., KITSOVSKAYA, I. A., & ZENINA, I. N. (1966) Gigiena Truda i Professional'nye Zabolevaniya (Moskva) USSR, 10(7):5-9, (ATD Rpt 66-126, JPRS 33,663 (16 Nov. 1966), AD 644537), "Research data on the standardization of electromagnetic fields in the short and ultrashort wave ranges"
2386. FULK, D.W., & FINCH, E.D. (1972), Naval Medical Research Institute Research Report #5 on Project # MF51.015-0001BD7X, (AD #752452), "An examination of certain blood serum constituents in the rat following microwave irradiation"
437. FUREDI, A. A., & OHAD, I. (1964) Biochimica et Biophysica Acta 79:1-8, "Effects of high-frequency electric fields on the living cell: I. Behavior of human erythrocytes in high-frequency electric fields and its relation to their age"
438. FUREDI, A. A., & VALENTINE, R. C. (1962) Biochimica et Biophysica Acta 56:33-42, "Factors involved in the orientation of microscopic particles in suspensions influenced by radio-frequency fields"

439. FURMAN, S., PARKER, B., KRAUTHAMER, M., & ESCHER, D. J. W. (1968) *Annals of Thoracic Surgery* 6(1):90-95, "The influence of an electromagnetic environment on the performance of artificial cardiac pacemakers"
3451. GABOVICH, R.D., MINKH, A.A., & MIKHALYUK, I.A. (1975), *Vestnik Akademii Meditsinskikh Nauk SSSR*, (3):16-22, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 33-42, "Effects of superhigh frequency fields of different intensity on the balance and metabolism of copper, manganese, molybdenum and nickel in the organism of experimental animals."
2791. GABRIEL, E., et al. (1967), *Confinia Neurologica* (Basel), 29():213-219, "Radio frequency pulsed coagulation: An improved method for controlled thermoelectrode tissue denaturation of electrical and thermal conductivity changes".
2163. GALANIN, N. F., POLYAK, B. L., VOLKOV, V. V., KRICHAGIN, V. I., & MEDVEDEV, V. I. (1956) *Voennomed Zh.* (9):25-37, "Work conditions for radar set operators and the possible preventive measures against general fatigue and eye fatigue"
440. GALE, C. K. (1935) *Arch. of Physical Therapy* 16:271-277, "Penetrative and selective heat effects of short and ultrashort waves. (An experimental study with unicellular organisms and with electrolytes)"
3193. GALIANA, H.L. (1969), Rept. No. MVLS-69-1 of the Man-Vehicle Lab., Mass. Inst. of Tech., Cambridge, MA, "Ionizing radiation and magnetic fields: A review of their effects on the nervous system".
3194. GAMB, R.I., & HARRIS, J.F. (1973), *Scientific American*, 228(5):94-100 & p. 120, (May), "The infrared receptors of snakes: The snakes of two large families have sensitive organs that can detect the heat radiation emitted by their prey. The performance of these detectors is investigated with the aid of an infrared laser".
2792. GANDHI, O.P. (1973?), *Proc. of IEEE*, 62(8):1171-1175 (Aug. '74), "Polarization and frequency effects on whole animal absorption of RF energy."
2793. GANDHI, O.P. (1974), (In Press), *IEEE Trans. on Biomedical Engineering* (?), "Orientational and frequency effects on whole animal absorption of RF energy."
3195. GANDHI, O.P. (1974), *Proceedings of the IEEE*, 62(8):1171-1175, (Aug.), "Polarization and frequency effects on whole animal absorption of RF energy". [See also citation #2792, this Biblio.]
3452. GANDHI, O. (1975), *IEEE Trans. on Microwave Theory & Techniques*, MTT-23(12):1021-1029 (Dec.), "Conditions of strongest electromagnetic power deposition in man and animals."
3453. GANDHI, O.P. (1975), In: *Digest of Tech. Papers, Microwaves in Service to Man; International Microwave Symposium* (Palo Alto, CA), May 12-14, 1975, (A75-36461, 17-33), pp. 282-284, "Resonant electromagnetic power deposition in man and animals."
3454. GANDHI, O.P. (1975), *IEEE Transactions on Biomedical Engineering*, BME-():536-542 (Nov.), "Frequency and orientation effects on whole animal absorption of [RF] electromagnetic waves."
441. GAPEYEV, P. I. (1957) *Trudy Voenno-meditsinskoi akademii Krasnoi Armii imeni S. M. Kirova* 73:152-, "The effect of SHF-UHF fields on sight organs"
3455. GARFIELD, E. (1975), *Current Contents*, 18(25):5-6 (June 23), "Openmindedness in science and medicine" [suggests a possible relationship between "depression" and electromagnetic radiation].
442. GATEV, S. (1965) *Voenno Meditsinski delo* 20(3):30-35, (In Russian) "Treatment of tenovaginitis with microwave (radar) and hydrocortisone phonophoresis"
3196. GAVALAS, R.J., WALTER, D.O., HAMER, J., & ADEY, W.R. (1970), *Brain Research*, 18():491-501, "Effect of low-level, low-frequency electric fields on EEG and behavior in *Macaca Nemestrina*".
2794. GAZIVODA, N. (1970), *Vojnosanitetski Pregled*, 27():542-545, (In Slovak(?)), "Comparative electroencephalographic and clinical neurological studies in radar operators".
2795. GEERAETS, W.J. (1969), *Sightsaving Rev.*, 39():181-196, "Radiation effects on the eye", ^{including} [non-ionizing].
443. GEL'FON, I.A. (1964) In: *Biological Effects of Radio Frequency Electromagnetic Fields*, Inst. of Industrial Hygiene and Occupational Diseases, Academy of Med. Sci., USSR, Moscow, pp. 68-69, "The effect of 10 cm low-intensity electromagnetic waves on the histamine content in the blood of animals"
444. GEL'FON, I. A., FEDOROVA, V. I., & PATUSHINSKII, G. I. (1965) *Gigiena Truda i Professional'nve Zabolevaniia* (Moskva) USSR, 9(5):28-33, (In Russian), (JPRS 31877, English summary), "Effect of VHF-HF therapy on connective tissue proteins of the lungs in experimental silicosis"
445. GEL'FON (1960) *Trudy Nii Gigyena Truda i Profzabolevaniy*, USSR (1):46-49, (In Russian), (Also an article with similar title: ibid. (2):133-136, (1964); (Also in *Biological Action of UHF*, Letavet, A. A., & Gordon, Z. V., (eds.), Academy of Medical Sciences USSR, Moscow, (OTS 62-19175), (JPRS 12471, pp. 42-46), "Protein fractions and histamine of the blood under the influence of SHF-UHF and HF radio waves"
2164. GELLIN, G. A. (1971) In the Questions & Answers section of *J. Amer. Med. Assoc.* 216(10):1651 only, "Effect of microwave oven on facial radiodermatitis"

446. GEMBITSKIY, YE. V. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 14-15, "Material on the clinical aspects of chronic microwave effects"
447. GEMBITSKIY, S. V. (1968) Hovvedorvos _2_(Apr-Jun):114-115, "Some problems in the area of the biological effects of high-frequency electromagnetic fields"
448. GEMBITSKIY, YE. V., KOLESNIK, F. A., & MALYSHEV, V. M. (1969) Voyenno-Meditsinskiy Zh. (Military Medical J.) _5_:21-23, "Changes in the blood system during chronic exposure to a superhigh-frequency field"
449. GENTILE, N. (1934) (In Italian with English summary) Abstracts of the 1st Internat. Congress of Electro-radio-biology, Cappelli, L., (ed.), Bologna, Italy, pp. 356-359, "Induced human radiation"
450. GERNSBACH, H. (1959) Radio Electronics _(?)_:29-, "Lethal radio waves"
2387. GERSHMAN, L.C. (1972), Naval Medical Research Institute (Bethesda), Report No. 3 on Project MF12.524.015-0004B, "Effects of microwave irradiation in vivo on rabbit blood serum".
451. GERSTEN, J. W., WAKIM, K. G., HERRICK, J. F., & KRUSEN, F. H. (1949) Arch. of Physical Med. 30:7-25, "The effect of microwave diathermy on the peripheral circulation and on tissue temperature in man"
452. GERSTEN, J. W., WAKIM, K. G., & KRUSEN, F. H. (1950) Arch. of Physical Med. 31:281-286, "A method for decreasing reflection of microwaves by tissue"
2796. GETMAN, E.G. (1972), Klin. Khir., _8_:82-84, (In Russ.), "Experience with microwave treatment of diseases of the organs of locomotion."
3456. GHELETA, K. (1976), Microwave Systems News, 6(2):13-15 (April/May), "Moscow microwaves: Lethal intrigue."
453. GHETTI, B. (1934) (In Italian with English summary) Abstracts of the 1st Internat. Congress of Electro-radio-biology, Cappelli, L., (ed.), Bologna, Italy, pp. 360-366, "Report on tests to determine the possible influence of very short electromagnetic waves (2-3 m) on seed germination and plant development"
3457. GHOSH, S.K., & DASGUPTA, A.K. (1974), Health Physics, 27(6):616- , "Permissible levels of exposure to microwave radiation."
3197. GHOSH, S.K., & MUC, A.M. (1972), Proc. of Microwave Power Sympos. [Internat. Microwave Power Inst., Canada], (May), p. 25-28, "The biological effects of electromagnetic waves and their relationship to pending Canadian regulations". [See also citation #2629, this Biblio.]
2797. GHOSH, S.K., MUC, A.M., LECUYER, D.W., & DIOTTE, M.P. (1974), Health Physics, 26(4):360-362, "A proposal for a microwave radiation warning sign".
2798. GIAROLA, A.J., & KRUEGER, W.F. (1974), IEEE Trans. on Microwave Theory & Techniques, MTT-22(4):432-437, (Apr.), "Continuous exposure of chicks and rats to electromagnetic fields", [smaller adrenal glands observed in chicks exposed at 880 MHz at ~ 1.0 mW/cm², and growth depression observed in rats under same conditions. No change in adrenal weight of rats, however spleen and thymus weights were higher].
2799. GIBSON, R.S., & MORONEY, W.F. (1973), Naval Aerospace Medical Res. Lab., Pensacola, FL, Rept. No. NAMRL-1195, "The effect of extremely low frequency radiation on human performance: A preliminary study".
3458. GIBSON, R.S., & MORONEY, W.F. (1974), Naval Aerospace Medical Research Laboratory Rept., Pensacola FL (AD #A005-898), 24 pps. (Aug.), "The effect of extremely-low frequency radiation on human performance: A preliminary study."
454. GIESE, A. C. (1947) Quarterly Review of Biology 22(4):253-283, "Radiations and cell division"
2800. GILBERT, H. (1970), Amer. Industrial Hygiene Assoc. J., 31():772- , "A study of microwave radiation leakage from microwave ovens".
455. GILL, S. J. (1959) Univ. of Colorado, Progress Rpt. to Office of Naval Research (Nov.), (AD 229625), "Magnetic susceptibility of single biological cells"
456. GILLES, E. (1944) Comptes Rendus 123:546-547, (In French) "Lethal effects of ultrashort waves on microorganisms"
457. GILLES, E. (1944) Comptes Rendus 123:565-567, (In French) "Fungicidal and bactericidal effects of ultrashort waves are a consequence of selective thermal action under certain conditions"
3198. GINSBERG, A.J. (1934), Medical Record, _ ():pp ?, (Dec. 19), "Ultrashort radio waves as a therapeutic agent".
2801. GINSBERG, A.J. (1961), Internat. Record of Medicine, 174(2):71-74, (Feb.), "Pulsed short wave [27 MHz, electromagnetic radiation] in the treatment of bursitis with calcification".
458. GINZBURG, D. A., & SADCHIKOVA, M. A. (1964) Trudy nli Gigyena Truda i Profzaboleaniy, USSR, _2_:126-132, (Abstr. in: The Biological Action of Radio Frequency Electromagnetic Fields, Moscow), "Changes of the electroencephalogram under continuous action of radio waves"

2388. GIORI, F., & ENGLER, P. (1972), JAAMI, 6:167- , "Techniques for testing performance of medical electronic devices in the presence of radio waves".
459. GIORI, F. A., & WINTERGERBER, A. B. (1967) Biomedical Sciences Instrumentation 3:291-308, "Remote physiological monitoring using a microwave interferometer"
3459. GLASER, P.E. (1975), Presented at the 21st Annual Meeting of the American Astronautical Society, "Space Shuttle Missions of the 80's," Denver, CO, (27 Aug.), 26 pps., "The satellite solar power station—a focus for future space shuttle missions [collecting and converting solar energy to microwave power, transmitting it to earth, then converting it to electricity; with some consideration of effects to bio-systems of microwave exposure (p. 20-21)]."
2389. GLASER, Z.R. (1972), Naval Medical Research Institute (Bethesda) Report No. 2 (Revised) on Research Task MF12.524.015-0004B, "Bibliography of Reported Biological Phenomena ('Effects') and Clinical Manifestations Attributed to Microwave and Radio-Frequency Radiation", [AD #750271].
2802. GLASER, Z.R. (1973), Electromagnetic Radiation Project Office, Bureau of Medicine & Surgery, Dept. of Navy (Washington, DC), Rept., (June), "Fourth supplement to Bibliography of reported biological phenomena ('effects') and clinical manifestations attributed to microwave and radio-frequency radiation", (NTIS No. AD 770-621).
3199. GLASER, Z.R. (1974), Electromagnetic Radiation Project Office, Naval Medical Research & Development Command (Nat'l Nav. Med. Ctr., Bethesda, MD), Rept. (July), (AD #784-007), "Fifth supplement to Bibliography of reported biological phenomena ('effects') and clinical manifestations attributed to microwave and radio-frequency radiation".
3460. GLASER, Z.R. (1975), Rept., Electromagnetic Radiation Project Office, Naval Medical Research & Development Command (Nat'l Nav. Med. Ctr., Bethesda, MD), (June), (AD #A015622), "Sixth supplement to Bibliography of reported biological phenomena ('effects') and clinical manifestations attributed to microwave and radio-frequency radiation."
460. GLASER, Z. R., & HEIMER, G. M. (1971) Institute of Electrical and Electronics Engineers, Trans. on Microwave Theory and Techniques, (Special Issue on the Biological Effects of Microwaves), MTT-19(2):232-238, "Determination and elimination of hazardous microwave fields aboard Naval ships"
2165. GLASER, Z. R., & HEIMER, G. M. (1972) Bioenvironmental Safety 4(1):10-15, (Jan), "Determination and elimination of hazardous microwave fields aboard Naval ships"
2390. GLASSER, O. (1950), Year Book Publishers, Chicago; see esp. pp. 710-712, in Vol II, Medical Physics.
2803. GLENN, W.W.L., HAGEMAN, J.H., MAURO, A., EISENBERG, L., FLANIGAN, S., & HARVARD, M. (1964), Ann. of Surg., 160(): 338-350, "Electrical stimulation of excitable tissue by radio-frequency transmission".
461. GLEZER, D. YA. (1936) Fiziologicheskii Zh., SSSR 20:5-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17 (Apr. 1965)) [Title not given]
462. GLEZER, D. YA. (1937) In: Materials of the Leningrad Conference on VHF-MF Waves, Leningrad, pp. 5-18, [Title not given]
463. GLEZER, D. YA. (1940) Referaty rabot uchrezhdeniy otdeleniya biologicheskikh nauk za, (Abstracts of Studies by the Department of Biological Sciences for 1940), Moscow - Leningrad, pp. 318-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965) [Irradiation of the heads of dogs with 7.7 m electromagnetic waves]
464. GLEZER, D. YA. (1940) Nauchnyi Institut imen' P. F. Lesgaft, Leningrad Izvestiia, 22:5-146, (In Russian with German summary pp. 142-146) (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, 1965), "Ultra short waves and their effect on the organs of the circulatory system"
465. GLEZER, D. YA. (1940) Referaty nauchno-issledovatel'skogo uchrezhd, OBYAN SSSR, Leningrad, "The effect of ultra short waves on the higher nervous activity"
2166. GLOTOVA, K. V., & SADCHIKOVA, M. N. (1970) Cieliyena Truda i Professional'nove Rabolevaniva, Moscow, 7(7):24-27. (In JPRS 51238, #70-39485), "Development and clinical course of cardiovascular changes after chronic exposure [of humans] to microwave irradiation"
466. GLOTZ, H. C. (1951) Archiv fur Physikalische Therapie 3:45-50, "The increase in fluid production during ultrashort wave irradiation of the head"
2804. GNEVYSHEV, M.N., & NOVIKOVA, K.F. (1972), J. of Interdiscipl. Cycle Res., 3(1):99-104, "The influence of solar activity on the earth's biosphere: Part I", [heliobiology].
467. GOFF, L. G. (1957) Proc. Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1: p. 76 only, "Remarks at microwave conference" (Pertinent to Navy's program of microwave research)
468. GOGIBEDASHVILI, V. G. (1954) Gosudarstvennyy nauchno-issledovatel'skiy Institut Kurortologii i Fizioterapii, Referativnyy Sbornik Trudov, Tbilisi, 22:151-178, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Concerning the participation of the nervous system in the mechanism of UHF action on the secretory function of the stomach"
469. GOGIBEDASHVILI, V. G. (1954) Gosudarstvennyy nauchno-issledovatel'skiy Institut Kurortologii i Fizioterapii, Referativnyy Sbornik Trudov, Tbilisi, 21:176-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Influence of UHF fields on the secretory function of the stomach"

2805. GOLD, J.H., & SCHUDER, J.C. (1973), Proc. of the 26th Ann. Conf. on Engineering in Medicine & Biology, "Theoretical analysis of tissue stimulation by implanting solid-state diode", [to produce DC currents in nerves by an RF electrical field established in the surrounding tissue], p. 94.
2167. GOLDBLITH, S. A. (1966) *Advances in Food Research* 15:277-301, "Basic principles of microwaves and recent developments"
2168. GOLDBLITH, S. A. (1967) *J. of the Amer. Dietet. Assoc.* 51:233-237, "Possible applications to food of ionizing and nonionizing radiations"
2806. GOLDBLITH, S.A., & DECAREAU, R.V. (1973), MIT Press, (Cambridge, Mass.), 356 pp., An annotated bibliography on microwaves: Their properties, production, and applications to food processing.
470. GOLDBLITH, S.A., & WANG, D.I. (1967), *Applied Microbiology*, 15(6):1371-1375, "Effect of microwave on *Escherichia coli* and *Bacillus subtilis*."
471. GOLDMAN, D. E. (1960) *NMRI Lecture & Review Series*, No. 60-6, 1959-1964, (Sept.) pp. 247-255, (Also AD 252582) "Short wave electromagnetic radiation as a hazard to personnel"
472. GOLENBERG, A. D., YEVSTIFEYEVA, M. I., GLAZUNOVA, YE. I., LYZHKOVA, A. YA., & OSTRYAKOVA, A. N. (1965) *Voprosy Kurortologii, Fizioterapii, i Lechebnoy Fizicheskoy Kul'tury* (Problems in Health Resort Science, Physiotherapy and Medical Physical Culture) Moscow, 30(1):45-47 (JPRS #29914, pp. 9-13, TT 65-30903), "Experience with microwave therapy"
473. GOLISCHEVA, K. P. (1937) In: Problems of Metrics and Dosimetry of Ultrahigh Frequency in Biology and Medicine, Moscow, pp. 63-74
474. GOLISCHEVA, K. P. (1937) *Archiv Des Sciences Biologiques (Arkh. Biol. Nauk)*, 47(3):133-140, (In Russian with English Summary), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Report P-65-17) "Experimental study on the thermal effect of the electrical ultrahigh frequency field, II"; and pp.141-145, "Experimental study on the thermal effect of the electrical ultrahigh frequency field, III"
475. GOLISCHEVA, K. P. (1939) *Arkhiv patologicheskoy anatomii i patologicheskoy fiziologii* 5:5-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr.) [Title not given], [Irradiation of rabbits at UHF fields]
476. GOLISCHEVA, K. P. (1941) *Arkhiv Patologicheskoi Anatomii*, Moscow, 7(2):119-122, (In Russian), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr.), "The effect of the electric field of ultrahigh frequency upon the temperature reaction and glycogen contents in denervated liver in cats"
477. GOLISCHEVA, K. P., & ANDRIYASHEVA, N. M. (1937) In: The Biological Action of Ultrahigh Frequency Waves, Frenkel', G. L., & Kupalov, P. S., (eds.), All Union Institute for Experimental Medicine, Moscow, pp. 309-324, "The effect of ultrahigh frequency on embryonic development of white mice"
478. GOLISCHEVA, K. P., & GAL'PERIN, S. I. (1941) *Bulleten' Eksperimental'noy Biologii i Meditsiny* 12(5-6): (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17) [Title not given]
3201. GOLOBOKIY, N.K., & KROTOV, A.V. (1973), *Vrachebnoye Delo*, 7(7):pp 2, [Transl. in: "Effect of nonionizing electromagnetic radiation", JPRS No. 62462, July 1974, Citation #7134 this biblio, pp. 41-44], "The effect of brief exposure to a magnetic field on the blood sedimentation rate in health and disease".
3461. GOMES, A.M.F., LEONHARDT, G.F., TORLONI, M., & BORZANI, W. (1975), *J. of Microwave Power*, 10(3):265-270 (Sept.), "Microwave drying of microorganisms. I. Influence of the microwave energy and of the sample thickness on the drying of yeast."
479. GONCHAROVA, N. N., KARAMYSEV, V. B., & MAKSIMENKO, N. V. (1966) *Gigiena Truda i Professional'nye Zabolovaniia (Moskva) USSR*, 10(7):10-13 (JPRS #38653, ATD Rpt 66-125), "Occupational hygiene problems in working with ultrashort-wave transmitters used in TV and radio broadcasting"
2807. GONCHAROVA, N.N., PISKUNOVA, V.G., KARAMYSEV, V.B., MAKSIMENKO, N.V., ANATOVSKAYA, V.S., & MISHCHENKO, L.I. (1966), In: Questions on work hygiene and occupational pathology in the chemical and mechanical engineering industries, reports of the 14-18 June 1966 Scientific Session of the Institute, Khar'kov, pp. 104-106, "The clinical-hygienic characteristics of working conditions of persons operating high-frequency equipment", [The earliest and most regular shifts noted during the clinical examination of workers were those in the functional condition of the nervous system. This was exhibited as increased fatigue, asthenia, instability of vegetative reactions, disturbed reflexes and coordination, emotional disturbances, changes in the endocrine profile, etc.].
480. GONCHARUK, E. N., & PIVOVAROV, M. A. (1964) 3rd All Union Conf. on Radio Electronics, *Tezisy Dokladov*, Moscow, "The effect of UHF-VHF electromagnetic field on the motor reactions of man"
3462. GOODMAN, E.M., MARRON, M., & GREENEBA, B. (1974), *J. of Cell Biology*, 63(2):117- , "Long term effects of [ELF] electromagnetic fields on *Physarum polycephalum*."
3463. GOODWIN, B.C., & VIERU, S. (1975), *Physiol. Chem. & Phys.*, 2():89-90, "Low energy electromagnetic [U.V. and Vis.] perturbation of an enzyme substrate."
2391. GORBONOSOVA, N.B., & USPENSKAYA, N.V. (1971), *Gigiena truda i professional' nyve zabolovaniya*, 7(7):41-44, (JPRS abstract), "Health status of ship radio operators".
481. GORDON, D. A. (1948) *Science* 108(2817):710-, "Sensitivity of the homing pigeon to the magnetic field of the earth"

2169. GORDON, S. A., & MILLER, J. S. (1962) Interim Report (NASA-R-46, N63-11540), "Growth and development of plants in compensated gravitational, magnetic, and electrical fields"
2808. GORDON, W. (1973), *Tower Internat. Technomedical Inst. J. of Life Sciences*, 3(4):127-137, "Use of dielectric phenomena in measuring the capacitance and permeability of biological membranes, with special reference to chloroplast internal membranes", [dielectric dispersion and admittance data between 0.5 and 500 kHz].
482. GORDON, Z. V. (1952) *Zh. Gigiyena Epidemiologii Mikrobiologii i Immunologii*, Prague (1):399-404, "Problems of labor hygiene during work with centimeter wave generators"
483. GORDON, Z. V. (1955) *Gigiyena i Sanitariya* (12):16-19, (Abstr. in Biological Effects of Microwaves, ATD P-65-68, Sept., 1965, pp. 24a-26, entitled "Effects of centimeter waves on the development of rats"), "Certain data on the action of centimeter waves"
484. GORDON, Z. V. (1957) *Gigiyena Truda i Professional'nye Zabolovaniya* (Moskva) (6):14-18, "Certain problems of labor hygiene related to the influence of a UHF field"
485. GORDON, Z. V. (1957) In: Summaries of reports, Part 2, Jubilee Scientific Session of Inst. of Labor Hygiene & Occupational Diseases Dedicated to 40th Anniv. of the Great October Socialist Revolution, Moscow, [Title not given]
486. GORDON, Z. V. (1960) *Nauchno-Issledovatel'skiy institut gigiyena i profzabolovaniya* (1):22-25 (Abstr. in: Biological Effects of Microwaves, ATD P-65-68, Sept. 1965, pp. 21-22,; also in: Letavet, A. A., & Gordon, Z. V., (eds.) (1960), pp. 18-21 (JPRS 12471) The Biological Action of Ultrahigh Frequencies), "Hygienic evaluation of the working conditions in the vicinity of UHF generators"
487. GORDON, Z. V. (1960) *Trudy Nii Gigiyena Truda i Profzabolovaniya, USSR*, (1):65-68 (also in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, JPRS 12471, pp. 64-67), "Investigation of the blood pressure in rats (bloodless method) under the influence of SHF-UHF"
488. GORDON, Z. V. (1960) *Trudy Nii Gigiyena Truda i Profzabolovaniya, USSR*, (1):5-7, (Abstr. in Biological Effects of Microwaves, ATD-P-65-68, pp. 71-72; also, abstr. in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), Academy of Medical Sciences, USSR, Moscow, p. 2-, (JPRS 12471, OTS 62-19175), "The problem of the biological action of UHF"
489. GORDON, Z. V. (1960) In: Physical Factors of the Environment, Letavet, A. A., (ed.), p. 135-
490. GORDON, Z. V. (1960) *Vestnik Akademii Meditsinskikh nauk SSSR*, Moskva, 15(4):82-86, All Union Scientific Conf. on Problems of Industrial Hygiene and the Biological Action of Electromagnetic Waves
491. GORDON, Z. V. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 15-16, "Certain features of the biological effect of microwaves of various ranges"
492. GORDON, Z. V. (1964) In: Biological Action of Radio Frequency Electromagnetic Fields, Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Science, USSR, Moscow, (*Trudy Nii Gigiyena Truda i Profzabolovaniya, USSR*, (2): pp. 57-60), "The effect of microwaves on blood pressure level in test animals"
493. GORDON, Z. V. (1964) In: *Akademiya meditsinskikh nauk, Vestnik*, 19(7):42-49, (Abstr. in: The Biological Effects of Microwaves, ATD-P-65-68, pp. 90-92; also, Herald of the Academy of Medical Sciences USSR, JPRS 27032; TT 64-51288, Oct. 1964, pp. 61-71), "Problems of industrial hygiene and the biological effect produced by radio waves of various bands"
494. GORDON, Z. V. (1964) In: Biological Action of Radio Frequency Electromagnetic Fields, Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Science, USSR, Moscow, (*Trudy Nii Gigiyena Truda i Profzabolovaniya, USSR*, (2):3-9) "Results of a comprehensive study of the biological effects of radio frequency electromagnetic waves and the outlook for further research"
495. GORDON, Z. V. (1966) *Gigiyena Truda i Professional'nye Zabolovaniya* (Moskva), 10(10):3-6, (JPRS 39820), "Electromagnetic radio frequency fields as a health factor"
496. GORDON, Z. V. (1966) (Book Review, in *Foreign Science Bulletin* 3(1):46-50, Jan. 1967), Biological Effects of Microwaves: Problems of industrial hygiene and the biological effects of ultrahigh-frequency electromagnetic waves, Izdatel'stvo "Meditsina", Leningrad Izdelenie, 154 pages, (Transl. by Israel Program for Scientific Translations, Ltd., Pub. by Nat. Aeronautics & Space Admin., and Nat. Sci. Foundation (TT-70-50087; NASA TT-7-633), (1970), Biological Effects of Microwaves in Occupational Hygiene)
3200. GORDON, Z.V. (1966), In: Z.V. Gordon. Biological Effect of Microwaves in Occupational Hygiene, Academy of Medical Sciences of the USSR, Izdatel'stvo "Meditsina", Leningrad, (Israel Program for Scientific Translations, Jerusalem, 1970), pp. 15-23, "Characterization of the hygiene conditions of personnel working with SHF sources".
2809. GORDON, Z.V. (1970), *Gigiyena Truda Provozabolovaniya*, 14():32-34, (Apr.), (In Russ.), "New data and tasks in the hygienic and experimental study of the effects of radio-frequency electromagnetic fields".
2170. GORDON, Z. V. (1970), In: Ergonomics & Physical Environmental Factors, (Vol. 21 of the Occupational Safety and Health Series), Internat. Labour Office, Geneva, pp. 159-172, (In Fr.), "Occupational health aspects of radio-frequency electromagnetic radiation"
3464. GORDON, Z.V. (1974), Transl. in JPRS #63321, 268 pps. (30 Oct.), "Biological effects of radiofrequency electromagnetic fields."
497. GORDON, Z. V., & BELITSKIY, B. M. (1959) In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, pp. 7-8

498. GORDON, Z. V., & ELISEEV, V. V. (1964) In: The Biological Action of Radio-Frequency Electromagnetic Fields, Moscow, pp. 151-, "Means of protection from SHF radiation and their effectiveness"
499. GORDON, Z.V., KITSOVSKAYA, I.A., TOLGSKAYA, M.S., & LETAVET, A.A. (1961), Digest of Internat. Conf. on Medical Electronics, In: Biological Effects of Microwaves (Athermal Aspects) I, (Frommer, P.L., ed.) Plenum Press, NY, p. 153 only.
500. GORDON, Z.V., LOBANOVA, Ye.A., KITSOVSKAYA, I.A., & TOLGSKAYA, M.S. (1963), Medical Electronics and Biological Engineering, 1(1):67-69 (Presented at 4th Internat. Conf. on Medical Electronics, NY, July 1961), "Biologic effects of microwaves of low intensity."
501. GORDON, Z. V., LOBANOVA, YE. A., KITSOVSKAYA, I. A., & TOLGSKAYA, M. S. (1969) Bulletin Eksperimental'noy Biologii Meditsiny 68(7):37-39, (In Russian with English summary), "Experimental studies of the biological effect of electromagnetic waves with wavelengths of about a millimeter"
2810. GORDON, Z.V., LOBANOVA, E.A., KITSOVSKAYA, T.A., & TOLGSKAYA, M.S. (1969), Bulletin of Experimental Biology and Medicine (Eng. Transl.), 68(7):734-736, "Investigation of the biological action of millimeter electromagnetic waves", (Engl. transl. of citation #501, this Biblio.).
502. GORDON, Z. V., LOBANOVA, YE. A., & TOLGSKAYA, M. S. (1955) Gigiena i Sanitariya USSR, (12):16-18, "Some data on the (bio) effects of microwaves"
503. GORDON, Z. V., LOBANOVA, YE. A., KITSOVSKAYA, I. A., NIKOGOSYAN, S. V., & TONASKAYA, M. S. (1962) In: Summaries of reports, Second All Union Conf. on the Application of Electronics in Biology and Medicine, (Moscow, Niteir), p. 20-, "Data on the biological effect of microwaves of various frequencies"
504. GORDON, Z. V., & LOBANOVA, YE. A. (1960) Trudy Nii Gigiena Truda i Profzabolevaniy USSR, (1):59-60, (Abstr. in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), JPRS 12471, pp. 57-59), "Temperature reaction of animals under the influence of SHF-UHF"
505. GORDON, Z. V., & PRESMAN, A. S. (1955) Gigiena i Sanitariya USSR, (12):16-18, "Certain data on the action of centimeter waves (experimental investigation)"
506. GORDON, Z. V., & PRESMAN, A. S. (1956) Bureau of Technical Information, Ministry of the Radio Engineering Industry, Moscow, 14-, Preventative and Protective Measures in Work with Generators of Centimeter-Waves
2811. GORDON, Z.V., & TOLGSKAYA, M.S. (1971?), ref ?, "Morphophysiological changes due to the effect of electromagnetic waves at radio frequencies".
507. GORDON, Z. V., TOLGSKAYA, M. S., & ALEKSANDROVA, L. S. (1963) Abstr. of the Conf. on Industrial Hygiene and the Biological Action of Radio Frequency Electromagnetic Fields, Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Sciences, Moscow, p. 23-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, Apr. 1965)
508. GORDON, Z. V., & YELISEYEV, V. V. (1964) Trudy Nii Gigiena Truda i Profzabolevaniy USSR (2):151-157 (ATD abstr., JPRS 34,963), "Devices for protection against SHF-UHF radiation and their effectiveness"
509. GORDON, Z. V., et al. (1957) In: Summaries of reports, Part 2: Jubilee Scientific Session of the Institute of Labor Hygiene and Occupational Diseases Dedicated to the 40th Anniv. of the Great October Socialist Revolution, Moscow, "Morphological changes in animals under the action of ultrahigh frequencies"
510. GORDON, Z. V., et al. (1963) Biol. i Medits. Elektronika (6):72-, "On the biological action of microwaves of various frequencies"
511. GORE, I., & ISAACSON, N. H. (1949) Amer. J. of Pathology 25:1029-1046, "The pathology of hyperpyrexia: observations at autopsy in 17 cases of fever therapy"
2171. GORODETSKA, S. F., LISINA, G. G., & RAPOPORT, M. B. (1969), Fiziologichnyi Zhurnal 15:805-811, (In Ukrain.), (Abstr. #A70-18730), "Hemopoietic condition due to the action of radio waves" [rabbits and mice]
512. GORODETSKAYA, S. F. (1960) Fiziologicheskii Zh. Akad. nauk UKR SSSR, 6(5):622-628, "The effect of centimeter-band radio waves on hematogenic organs, reproduction, and the higher nervous activity"
513. GORODETSKAYA, S. F. (1961) Fiziologicheskii Zh. Akad. nauk UKR SSSR, 7(5):672-674, "The effect of 3 cm radiowaves on the functional condition of the adrenal cortex"
514. GORODETSKAYA, S. F. (1962) Fiziologicheskii Zh. Akad. nauk UKR SSSR, 8(3):390-396, (Also, FTD-TT-62-1361/1+2, AD #292205), "Morphological changes in internal organs when the organism is exposed to the effect of centimeter waves"
515. GORODETSKAYA, S. F. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, "The effect of SHF-UHF on reproductive organs"
516. GORODETSKAYA, S. F. (1963) Fiziologicheskii Zh. Akad. nauk UKR SSSR, 9(3):394-395, (Also, JPRS 21200, OTS 63-31815, and N63-22588), "The effect of centimeter radio waves on mouse fertility"
517. GORODETSKAYA, S. F. (1964) Fiziologicheskii Zh. Akad. nauk UKR SSSR, 10(4):494-500 (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), (Also, JPRS 26990, N64-33486), "Effect of a SHF-UHF field and convectional heat on the estrual cycles of mice"
518. GORODETSKAYA, S. F. (1964) In: Problems of the Biophysics and Mode of Action of Radiation, (Also, JPRS 34963), pp. 70-74, "Characteristics of the biological effect of 300 cm radio waves on animals"

519. GORODETSKAYA, S. F. (1964) In: Biological Action of Ultrasound and SHF-UHF Electromagnetic Oscillations, Gorodetskiy, A.A., (ed.), Academy of Sciences, Institute of Physiology, imeni A. A. Bogomolets, Kiev, UKR SSR, (JPRS 30860, Abstr. in: Biological Effects of Microwaves, ATD-P-65-68, (1965), pp. 53-54, and N65-28706), pp. 80-91, "Effect of a SHF-UHF electromagnetic field on the reproduction, peripheral blood composition, conditioned reflex activity, and the morphology of the internal organs of white mice"
520. GORODETSKAYA, S. F., & KEROVA, N. (1966) *Fiziologicheskii Zh. Akad. nauk UKR SSSR*, 12(2):246-253, "Changes in some functional and biochemical indices in the testicles of animals exposed to 3 cm radiowaves"
521. GORODETSKIY, A. A. (ed.) (1964) Academy of sciences, Institute of Physiol. imeni A. A. Bogomolets, Kiev, UKR SSR, 120 pages, (JPRS 30860, IT-65-31380, and N65-28700), Biological Action of Ultrasound and Super High Frequency Electromagnetic Oscillations
522. GORODETSKIY, A. A., YEVDOKIMOV, I. R., KOLESNI, V. M., & SHEVRO, G. N. (1967) *Fiziologicheskii Zh.* 13(2):230-233, [Title?]
523. GORSHEVINA, T. I. (1963) *Materialy Teoreticheskoy i klinicheskoy meditsiny (Tomsk)*, (2):pp.? "Early morphological changes after exposure to experimental electromagnetic fields"
524. GORSHEVINA, T. I. (1964) *Materials of the 1st Scientific Conf. of the Central Scientific Research Lab. (Tomsk)*, "Changes in the lungs induced by alternating electromagnetic fields"
525. GORSKI, S., KWASNIEWSKA-BLASCZYK, M., & MACKIEWICZ, S. (1967), *Polski tygodnik lekarski, Warszawa*, 22:940-943, "Isotope evaluation of the effect of microwaves on capillary circulation in muscles of the extremities"
2812. GOURNAY, L.S. (1966), *J. of the Acoustic Soc. of Amer.*, 40():1322- , "Conversion of electromagnetic to acoustic energy by surface heating".
526. GRAHAM, G. D. (1935) *Arch. of Physical Therapy* 16:741-742, "Desiccation of hemorrhoids"
2813. GRAHAM, R.B., & HEMPHILL, J.M. (1972), *USAF Radiological Health Laboratory, Wright-Patterson AFB, Ohio, Rept. No. 72W-51, (16 May)*, "Preliminary evaluation of the Narda Model 8300 power density meter".
527. GRANBERRY, W. M., & JAMES, J. M. (1963) *J. of Bone and Joint Surgery* 45A:773-777, "The lack of effect of microwave diathermy on bone of the growing dog"
528. GRANOVSKAYA, R. M. (1961) *Leningrad Obshchestva Yestestvoispytateley* 72(1):pp.? "The problem of electromagnetic brain fields"
529. GRANT, E. H. (1969) *Non-Ionizing Radiation* 1(2):77-79, "Fundamental physical concepts underlying absorption of microwave energy by biological material"
530. GRANT, E. H., KEEFE, S. E., & TAKASHIMA, S. (1968) *J. of Physical Chemistry* 72:4373-, "The dielectric behavior of aqueous solutions of bovine serum albumin from radiowave to microwave frequencies"
531. GRAY, O. S. (1970) Feb. 10, U. S. Patent Office, Pat. #3,494,722, "Method and apparatus for sterilizing [using microwave radiation & heat & pressure]"; Pats. #3,494,723, and #3,494,724, "Method and apparatus for controlling microorganisms and enzymes"
532. GRAY, O. S., & SANDERS, M. (1970) Paper presented to Section of Environmental Sciences of the New York Academy of Sciences, (4 Nov.), 7 pages, "Effect of controlled electromagnetic energy [microwave] on biological systems"
533. GRESEZHENIKOVA, A. (1962) In: *Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field*. Kirov Order of Lenin Military Medical Academy, Leningrad, p. 17-, "The effect of SHF-UHF fields in the decimeter and meter wave ranges on the motor evacuator function of the gastrointestinal tract in dogs and guinea pigs"
2392. GRECHUSHKINA, V.A. (1972), *Oftal'mologicheskii Zhurnal*, 27:226-228. (in Russ.), "Clinico-morphological and biochemical changes in experimental microwave cataracts."
2393. GRECHUSHKINA, V.A. (1972), *Voprosy Kurortologii Fizioterapii i Lechebnoi Fizioterapii Kul'try*, 37(4):337-341 (July-Aug.), (in Russ.), "Mechanism of action of microwave therapy in ophthalmological practice."
3202. GREENBERG, B., & ASH, N. (1974), *Environmental Entomology*, 3(5):845-853, (Oct.), "Impact of extremely low frequency electromagnetic fields on soil arthropods in nature".
2814. GREENBERG, D.S. (1973), *Saturday Review of the Sciences*, 1(4):36-44, (28 Apr.), "The French concoction", ["L'Affaire Priore"; electromagnetic radiation and its effect on cancer in rats and African sleeping sickness (via the blood parasite *Trypanosoma*) in mice].
3465. GREENE, F.M. (1975), *National Bureau of Standards, Technical Note 658*, "Development of electric and magnetic near-field probes."
3466. GREENE, F.M. (1975), *National Bureau of Standards, Rept., Boulder, CO, No. NIOSH-75-127*, "Development of magnetic near-field probes" [for determination of fields emitted by sources operating in the frequency range between 10 MHz and 40 MHz].
2172. GREENELL, R. G., & McCULLOCH, D. (1967) (Abstr. #N67-26284), 25 pages, "Molecular binding in the cell surface; Progress report" [Spectral analyses of microwave absorption in protein solutions, water, and organic solvents by molecular bonding to cell surface]

534. GRIFFIN, D. R., McCUE, J. J. G., & GRINNELL, A. D. (1962) Rept., Harvard Univ. Cambridge, Mass. (AD 296493), "The resistance of bats to jamming"
2815. GRIGOR'EV, V.E., et al. (1972), Vestn. Dermatol. Venerol., 46():75-77, (Jul.), (In Russ. w/Eng. abstr.), "Treatment of gonorrheal and non-gonorrheal epididymitis with UHF electric fields: II".
2816. GRIGOR'IAN, D.G. (1969), Vop. Kurort. Fizioter., 34():52-55, (In Russ.), "A study of blood serum and myocardial proteins in animals following exposure to microwaves".
535. GRIGOR'IAN, D. G. (1969) Voprosy Kurortologii Fizioterapii i Lachebnoi Fizicheskoi Kultury (Problems in Health Resort Sci., Physiotherapy, & Medical Physical Culture), Moscow, 34(6):510-513, (In Russian) "Examination of proteins in the brain and blood serum of animals which have been exposed to microwave radiation"
536. GRIGOR'YEVA, T. A. (1937) Biologicheskoye deystviye UVCh. Simpozium. (Biological effect of ultrahigh frequencies. Symposium), Moscow, pp. 137-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17, Apr. 1955), [Title not given], [Irradiation of sciatic nerve of cat]
537. GRINBERG, A. G. (1959) Kazanskiy Med. Zh. Navy USSR, 40(4):59-61 and/or 63-65^(?) (JPRS 2802), "VHF-HF therapy in certain affections of the peripheral nervous system"
2817. GRINEV, M.V., et al. (1970), Vopr. Kurortol. Fizioter. Lech. Fiz. Kult., 35():424-426, (Sept.-Oct.), "Role of UHF therapy in the complex treatment of chronic osteomyelitis".
1992. GRISHCHINA, K. F. (1958) Biofizika 3:358-362, (In Russian) "Significance of certain methodological conditions in a reaction to the local action of centimeter waves"
538. GRISHINA, K. F. (1958) Biofizika 33(3):358-362 (Pergamon Press Transl.), "The importance of certain procedures in the local response of tissues to centimeter waves"
539. GRISHINA, K. F., & KOMAROVA, A. A. (1963) Leningrad (Transl. of some sections are in JPRS 21725, OTS 63-41061), 320 pages, Techniques and Methods of Conducting Physiotherapeutic Procedures
540. GRISHKO, F. I. (1959) Fiziologicheskii Zh. Akad. nauk UKR SSR, 5(1):31-38, (Abstr. in Biological Abstracts, No. 33058, 1964), "The effect of an ultrahigh electromagnetic field on the reflex activity of the spinal cord with differing Ca and K concentration"
3467. GRISSETT, J.D. (1971), Naval Aerospace Medical Res. Lab. (Pensacola, FL), Technical Rept. No. NAMRL-1146, "Exposure of squirrel monkeys for long periods to extremely low-frequency magnetic fields: Central-nervous-system effects as measured by reaction time."
3468. GRISSETT, J.D., & de LORGE, J. (1971), Naval Aerospace Medical Res. Lab. (Pensacola, FL), Technical Rept. No. NAMRL-1137, "Central-nervous-system effects as measured by reaction time in squirrel monkeys exposed for short periods to extremely low-frequency magnetic fields."
2818. GRISSETT, J.F. (1973), Naval Aerospace Medical Research Lab., Pensacola, FL, Rept. No. NAMRL-1177, "Technique for reducing the ambient electric field generated by inductive voltages in low-frequency magnetic field generators".
541. GROAG, P. (1937) ACTA of 1st Internat. Congress of Shortwaves, Vienna, "Shortwave therapy; a specific heat therapy"
542. GROAG, P., & TOMBERG, V. (1933) Wiener Klinische Wochenschrift 46(30):929-935, (In German), "Concerning shortwave therapy"; *ibid.*, 46(31):954-959, "Concerning shortwave therapy"; *ibid.*, 47, 9, (1934), "Biological effects of shortwave therapy"
543. GROSS, E. (1969) Science News (25 Oct.) 96(17):382-, "Microwaves and health effects"
GROVE, M. E., see citation #2052
544. GROSSE, G., LINDNER, G., & SCHNEIDER, P. (1969) Zeitschrift fuer Mikroskopisch-anatomische Forschung, Germany, 80(2): 260-263, (In German with English summary), "The influence of electric fields on *in vitro* cultured nerve cells"
1993. GRUSZECKI, L. (1964) Przegląd lekarski, Cracow, 20:336-338, "Influence of microwaves radiated by a radar transmitter on the human and animal organism" (In Polish)
545. GRUTZNER, P., & HEIDENHAIN, R. (1878) Archives fur die Gesante Physiologie 16:1-59, (In German), [Title?]
546. GRUDEV, A. D. (1955) Biofizika 10:1091-, "The orientation of microscopic particles in electric fields"
547. GRYNBAUM, B., MEGIBOW, R. S., & BIERMAN, W. (1950) Arch. of Physical Med. 31:629-631, "The effect of shortwave diathermy upon the . . . circulation as determined by microplethysmography"
1994. GRZESIK, J., KUMASZKA, F., & PARADOWSKI, Z. (1960) Med. pracy 11:323-330, (In Polish) "Influence of a medium-frequency electromagnetic field on organ parenchyma and blood proteins in white mice"
548. GUEHLBERGER, M. (1945) Malover Med. Acta 12:173-183, "Changes in renal function produced by shortwave irradiation of the kidneys"
2819. GUHA, S.K., et al. (1973), Phys. Med. Biol., 18():712-720, "Electrical field distribution in the human body".
2820. deGUILLEBON, H.F., & ELZENEINY, I. (1970), Arch. of Ophthalmology (Chicago), 83():489-503, "Electrical impedance of ocular coats during diathermy applications".

2871. deGUILLEBON, H.F., & ISHII, Y. (1970), Arch. of Ophthalmology (Chicago), 83():752-759, "Scleral changes during diathermy application".
2822. GULIAEV, P.I., et al. (1969), Nerv. Sist., 10():177-183, (In Russ.), "Registration of electromagnetic fields arising during the movements of insects, birds and animals".
549. GULYAYEV, P. I. (1946) Trans. of 1st Conf. on Applied Problems of Shortwaves and Microwaves in Medicine, Medgiz, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, 1965), "Maximum energy absorptions in a high frequency electromagnetic field"
550. GULYAYEV, P. I. (1967) Proc. of Symposium on Physics and Biology, Moscow, pp. 19-, "The electroauragram. The electric field of organisms as a new biological connection"
551. GULYAYEV, P. I., ZABOTIN, V. P., & SHLIPPENBAKH, N. YA. (1967) Paper read to the Leningrad Society of Naturalists, February 13, "The electroauragram; The electric field in the air around excited tissues"
552. GUNN, S. A., GOULD, T. C., & ANDERSON, W. A. D. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1 (Peyton, M. F., ed.), pp. 99-115, (Also, Deichmann, W. B., et al., (1959) Section in: Microwave Radiation Research), "The effect of microwave radiation (24,000 Mc) on the male endocrine system of the rat"
553. GUNN, S. A., GOULD, T. C., & ANDERSON, W. A. D. (1961) Laboratory Investigations 10:301-314, (Also in: Deichmann, W. B., et al. (1959), Section in: Microwave Radiation Research), "The effect of microwave radiation on morphology and function of rat testes"
554. GUNTER, R., et al. (1958) Arch. of Ophthalmology 60:437-442, "Some effects of diathermy currents on eye tissues"
555. GURYEV, V. N. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 20-21, "Some problems of the adjustment of people to SHF-UHF effects under industrial conditions"
556. GURYEV, V. N. (1965) Ekspertiza Trud i Trud Pri nerv i Psikhicheskikh Zabol. 18(18):121-127, (JPRS 36,164), "Diencephalic disorders in persons exposed to SHF-UHF electromagnetic fields for prolonged periods of time"
3203. GUSAROV, D.V. (1971), Voen. Med. Zh., (3):61-66, (In Russ.), "Effect of a superhigh frequency field on the physical trainability of experimental animals", [mice exposed to 12.6 cm radiation at a level of 10 mW/cm² for 2 hrs/day performed a swimming task less effectively than controls. No effect at 1 mW/cm²].
2394. GUTKIN, V.S. (1966), Materialy. In: Electrosleep and Electroanesthesia. Materials of the All-Union Symposium on Problems of Electrosleep and Electroanesthesia [Electronarcosis], Dedicated to the 20th Year of the Electrosleep Method, pp. 59-60, (In Russ.), "Morphological changes in various sections of the brain during electroanesthesia".
2395. GUY, A.W. (1961), Nat'l. Acad. of Sci., Nat'l. Res. Council, U.S. Nat'l Committee, Internat. Union of Radio Science, Spring Meeting, April 8-10, "Quantification of electromagnetic fields and their effects on biological media".
557. GUY, A. W. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):205-214, "Analyses of electromagnetic fields induced in biological tissues by thermographic studies on equivalent phantom models"
558. GUY, A. W. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):214-223, "Electromagnetic fields and relative heating patterns due to a rectangular aperture source in direct contact with bilayered biological tissue"
2396. GUY, A.W. (1972), Report by ANSI C.95 Sectional Committee on Radio Frequency Hazards, Subcommittee IV on safety levels and/or tolerances with respect to personnel, "Research needed for setting of realistic safety standards".
3469. GUY, A.W. (1975), In: AGARD Rept. entitled "Radiation Hazards" (Rept. #AGARD-LS-78), Aug., "On EMP safety hazards."
2397. GUY, A.W., HARRIS, F.A., & HO, H.S. (1971), Presented at the Internat. Microwave Power Inst.(IMPI) Symp., Naval Postgraduate School, May 26-28, Monterey, Calif., "Quantitation of the effects of microwave radiation on central nervous system function".
2823. GUY, A.W., JOHNSON, C.C., LIN, J.C., EMERY, A.F., & KRANING, K.F. (1973), Univ. of Washington, Seattle, Report (for the period 21 Aug 72 - 18 Jan 73), on Contract No. F41609-73-C-0002; 7757-01-30, (Doc. # SAM-TR-73-13), "Electromagnetic power deposition in man exposed to high-frequency fields and the associated thermal and physiologic consequences".
2398. GUY, A.W., & KORBEL, S.F. (1972), Presented at the Internat. Microwave Power Inst. (IMPI) Symp., Ottawa, Canada. May 24-26, "Dosimetry studies of an UHF cavity exposure chamber for rodents".
2399. GUY, A.W., & LEHMANN, J.F. (1966), IEEE Trans. on Bio-Med. Eng., BME-13(2):76-87, "On the determination of an optimum microwave diathermy frequency for a direct contact applicator".
2400. GUY, A.W., LEHMANN, J.F., McDUGALL, J.A., & SORENSEN, C.C. (1968), In: Thermal Problems in Biotechnology, ASME, New York, pp. 26-45, "Studies on therapeutic heating by electromagnetic energy".
2824. GUY, A.W., LEHMANN, J.F., & STONEBRIDGE, J.B. (1974), Proceedings of the IEEE, 62(1):55-75, (Jan.), "Therapeutic applications of electromagnetic power".

559. GUY, A. W., & LEMMANN, J. F. (1967) Digest of the 7th Internat. Conf. on Medical and Biological Engineering (Jacobson, B., ed.), Stockholm, p. 396 only, "Determination of electromagnetic heating patterns in human tissues by thermographic studies on phantom models"
2401. GUY, A.W., LIN, J.C., & HARRIS, F.A. (1972), Presented at the Internat. Microwave Power Inst. (IMPI) Symp., Ottawa, Canada, May 24-26, "The effects of microwave radiation on evoked tactile and auditory CNS response in cats".
3204. GUY, A.W., LIN, J.C., KRAMAR, P.O., & EMERY, A.F. (1974), Univ. of Washington, Scientific Report No. 2 to Office of Naval Research, (Jan.), "Quantitation of microwave radiation effects on the eyes of rabbits at 2450 MHz and 918 MHz".
560. GVOZDIKOVA, Z. M., ANAN'YEV, V. M., ZENINA, I. N., & ZAK, V. I. (1964) *Biulleten Eksperimental'nov Biologii i Meditsiny, Moscow*, 58(8):63-68, (Abstr. in The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17, 1965; also abstr. in Biological Effects of Microwaves, ATD-P-65-68, 1965, pp. 45-47), (JPRS 26,725, IT 64-41982, Oct. 1964, pp. 31-, N64-32782), "Sensitivity of the rabbit central nervous system to a continuous (non-pulsed) ultrahigh frequency electromagnetic field"
561. GVOZDIKOVA, Z. M., ZENINA, I. N., & ZAK, V. I. (1964) *Trudy Nii Gigiyena Truda i Profzabolevaniy SSSR*, (2):20-25, (Abstr. in: The Biological Action of Radio Frequency Electromagnetic Fields, Moscow), "The effect of continuous SHF-UHF electromagnetic fields on the central nervous system"
562. HAASE, W., & SCHLIEPHAKE, E. (1931) *Strahlentherapie* 40:133-158, (In German), "Investigations concerning the influence of short electrical waves on the growth of bacteria"
563. HADUCH, S., BARANSKI, S., & CZERSKI, P. (1960) *Lekarz Wojskowy (Army Surgeon)*, Poland, 36(2):119-125, (Transl. NASA-TT-F-8143), "Research into the influence of high frequency electromagnetic fields on the human body"; *ibid.*, 36(8):792-803, (FTD-TT 61-379-1, AD 270774), "Biological effect of cm and dm electromagnetic waves"
564. HADUCH, S., BARANSKI, S., & CZERSKI, P. (1962) In: Human Problems of Supersonic and Hypersonic Flight, Barbour, A. B., & Whittingham, H. F., (eds.), Pergamon Press, pp. 449-454, "The influence of ultrahigh frequency radio waves on the human organism"
565. HAGGIS, G. H., BUCHANAN, T. J., & HASTED, J. B. (1951) *Nature* 167:607-608, "Estimation of protein hydration by dielectric measurements at microwave frequencies"
2173. HAINES, G. F., JR., & HATCH, T. (1952) *Heating and Ventilating*, (November), pp.?, "Industrial heat exposures, evaluation and control"
3470. HALBERG, F., CUTKOMP, L., NELSON, W., & SOTHERN, R. (1975), Rept., Minnesota Univ. Minneapolis Chronobiology Labs, (AD #A019-958), (28 Aug.), 66 pps., "Circadian rhythms in plants, insects and mammals exposed to ELF magnetic and/or electric fields and currents."
566. HALL, G. A., & SCHLEGEL, W. A. (1967) *Arch. of Ophthalmology* 78:521-, "Relative bursting strength of rabbit sclera after cryosurgery and diathermy"
567. HALL, W. W., & WAKEFIELD (1927) *J. of the Amer. Medical Assoc.* 89:177-182, "A study of experimental heat stroke"
2825. HALLENGA, K. (1972), Thesis, Groningen (Netherlands), "The dynamics of hydrophobic interaction: A microwave dielectric study".
3471. HALLGREN, R. (1973), *IEEE Transactions on Biomedical Engineering*, BME-20(6):470-472, (Nov.), "Inductive neural stimulator."
568. HALPHEN, A., & AUCLAIR, J. (1933) *Arch. of Physical Therapy* 14:69-71, "A new form of D'Arsonvalization; the short waves"
2826. HAMBURY, H.J., WATSON, J., SIVYER, A., & ASHLEY, D.J.B. (1971), *Nature (London)*, 231() :190- , "Effects of microamp electrical currents on bone *in vivo* and its measurement using strontium-85 uptake".
2174. HAMER, J.R. (1968), Report: Space Biology Laboratory, Brain Research Institute, Univ. of Calif., Los Angeles, (N68-16115), (NASA CR or TMX C1-92700-04, AF496381387), "Effects of low level, low frequency electric fields on human reaction time."
2827. HAMID, M.A.K., & BADOOR, S.S. (1973), *J. of Microwave Power*, 8(3/4):267-273, "The effects of microwaves on green algae".
2828. HAMID, M.A.K., *et al.* (1968), *J. of Microwave Power*, 3(3): , "Control of grain insects by microwave power".
2402. HAMID, M.A., BOULANGER, R.J., HODGSON, G.C., KONDRA, P.A., SMITH, K., & BRAGG, D.B. (1969), *J. of Microwave Power*, 4() :253-256, "The effect of microwave radiation on the growth and reproduction of chickens".
3205. HAMID, M.A.K., BOULANGER, R.J., TONG, S.C., GALLOP, R.A., & PEREIRA, R.R. (1969), *J. of Microwave Power*, 4(4):272-277, "Microwave pasteurization of raw milk".
3472. HAMID, M.A.K., MOSTOWY, N.J., & BHARTIA, P. (1975), *J. of Microwave Power*, 10(1):109-114 (Mar.), "Microwave bean roaster."

2080. HAMID, M. A. K., BOENER, W. M., & TONG, S. C. (1970) *J. of Microwave Power* 5:44-46, (Abstr. in: *Non-ionizing Rad.* 1(4): 193 only, (1970)), "Microwave irradiation of potato-waste water"
2081. HAMID, M. A. K., & BOULANGER, R. J. (1969) *J. Microwave Power* 4:11-18, (Abstr. in: *Non-ionizing Rad.* 1(2):102 only, (1969), Abstract #40), "New method for control of moisture and insect infestations of grain by microwave power"
2829. HAMILTON, R., KETTERER, D., HOLST, H.I., & LEHR, H.B. (1968), *Cryobiology*, 4(5): , "Rapid thawing of frozen canine kidneys by microwaves".
2830. HAMRICK, P.E. (1973), *Radiation Research*, 56(2):400-404, "Thermal denaturation of DNA exposed to 2450 MHz CW microwave radiation".
2831. HAMRICK, P.E., & BUTLER, B.T. (1973), *J. of Microwave Power*, 8(3/4):227-233, "Exposure of bacteria to 2450 MHz microwave radiation".
569. HANDELSMAN, M. (1957) *Proc. of Tri-service Conf. on Biological Hazards of Microwave Radiation* (Pattishall, E. G., ed.), 1:23-31, (Abstr. in: *Naval Medical News Letter* 30(11):36-, 1957, "Microwave radiation hazards"), (AF 115603, ARDC-TR-58-51), "Future microwave radiation hazards"
3206. HANKIN, N.N. (1974), Office of Radiation Programs, U.S. Environmental Protection Agency (Silver Spring, MD 20910) Report No. EPA-520/2-74-008, (Dec.), "An evaluation of selected satellite communications [SATCOM] systems as sources of environmental microwave radiation". [With comments on potential and realistic biological hazard evaluation]
3473. HANKIN, N.N., TELL, R.A., & JANES, D.E. (1974), *Health Physics*, 27(6):633- , "Assessing potential for exposure to hazardous levels of microwave radiation from high power sources."
572. HANLON, J. J. (1970) In: *Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium*, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 116-121, "Cellular effects of microwave radiation"
3207. HANNAH, S., (1974), *Electronics Letters*, 10(14):274-276, "Continuous monitor of dangerous levels of microwave power".
573. HANNEMAN, G. D. (1967) *Aerospace Med.* :275-277, "Changes produced in urinary sodium, potassium, and calcium excretion in mice exposed to homogeneous electromagnetic stress"
2832. HANSEN, T.I., & KRISTENS, J.H. (1973), *Scandinavian J. of Rehabilitation Medicine*, 5(4):179-182, "Effect of massage, shortwave diathermy and ultrasound upon Xe-133 disappearance rate from muscle and subcutaneous tissue in human calf".
574. HARDEMAN, L. J. (1970) *Microwaves* 9(2):p. 17 and p. 24 (Feb.), "Microwave oven leakage: Federal regulations soon"
2056. HARDEMAN, L. J. (ed.) (1971) *Microwaves* 10(6):9-12, (Aug.), "Microwave imaging helps FBI foil hijackers"
575. HARDY, J. D. (1961) Report to ONR from Univ. of Penna., Moore School of Electrical Engineering, (4 pages), (AD 615472), "Physiological effects of heating the skin with microwave and infrared radiation: final report"
576. HARDY, J. D. (ed.) (1968) *Thermal Problems in Aerospace Medicine*, The Advisory Group for Aerospace Res. & Develop., NATO, Technivision Services, Maidenhead, England [including microwave radiation effects], (Abs. No. N69-25051)
577. HARDY, J. D., & MURCATROYD, D. (1958 or later) ref.?, "Responses of man to high intensity thermal radiation"
1995. HARMSEN, E. (1953) *Arch. physik. Therap.* 5:331-335, (In German), "The lethal effect of meter waves on insects"
1996. HARMSEN, E. (1954) *Arch. Hyg.* 133:278, (In German) "On the biological effect of ultra-short waves of low field strength on rats"
3208. HARRIS, F.A. (1969), Biomedical Engineering Society Task Force Rept., "A recommendation concerning the importance of quantitative studies of the effect of microwave irradiation on the central nervous system".
2403. HARRIS, J.F., & GAMOW, R.I. (1972), *Biomedical Sciences Instrumentation*, 9:187-189, (May), "An analysis of heat receptors by means of microwave radiation".
3474. HARRIS, P. (ed.) (1975), *Microwaves*, 14(6):24 only (June), "Biological effects of microwaves probed by OTP [Office of Telecommunications Policy]."
3475. HARRIS, P. (ed.) (1976), *Microwaves*, 15(4):19 only (April), "Soviet jamming prompts new health questions: Recent news accounts that the Soviet Government is beaming high-level [non-ionizing electromagnetic] energy at the U.S. embassy in Moscow to jam American listening devices is prompting a second look here at the dangers of microwave dosage to health."
2833. HARRISON, E.A. (1973), National Technical Information Service (Springfield, VA), Search No. NTIS-WIN-73-070, Document No. COM-73-11720, (Oct.), "Biological effects of microwaves: A bibliography with [authors] abstracts".

578. HARRISON, F. G. (1935) Arch. of Physical Therapy 16:393-397, "Electrosurgery in urology"
3209. HART, A.R., McQUITTY, D.W., & WAGNER, N.K. (1974), Naval Research Reviews, (May/June), (NAVSO-P-510), p. 12-16, "RF susceptibility of micro-electronic components".
579. HARTE, C. (1949) Chromosoma 3(5):440-447, "Mutation activity through ultrashort waves"
2834. HARTE, C., & ZINECKER-BRAUER, I. (1970), Chromosoma, 30():123-128, (In Ger.), "Mitosis in root tips of *Vicia faba*. III. Correlations between the solar radiation of radio waves and the variability of relative mitosis frequencies".
580. HARTMAN, F. W. (1937) J. of the Amer. Medical Assoc. 109:2116-2121, "Lesions of the brain following fever therapy: etiology and pathogenesis"
581. HARTMAN, F. W. (1958) Proc. 2nd Tri-service Conf. on the Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:54-70, (AD 131477, ARDC-TR-58-54), "The pathology of hyperpyrexia"
582. HARTMAN, F. W. (1959) La presse medical 67:151-, (In French), "Biological effects of ultrashort electromagnetic radio waves"
583. HARTMUTH, Z. (1954) Zh. Naturforsch. 96:257-, (In German), "The electrical characteristics of biological substances at wavelengths of about 1/10 meter"
584. HARVEY, A. F. (1963) Microwave Engineering, Academic Press, New York
1997. HARVEY, A. F. (1960) Proc. of the Inst. of Electrical Engineers 107:557-566, "Industrial, biological, and medical aspects of microwave radiation"
3476. HARVEY, W.T., & HAMILTON, J.P. (1964), Thesis, School of Engineering, Air Force Institute of Technology, Air U. (Wright-Patterson AFB, Ohio), (AD #608889, GE/EE/64-11, 56 pps., "Hearing sensations in amplitude modulated radio frequency fields."
1998. HASCEE, E. (1940) Naturwissenschaften 8:613, "The action of short waves on tissue"
1999. HASIK, J., & MIKOLAJCZYK, Z. (1960) Polski Tygodnik Lekarski 15:817-820, (In Polish), "Retention of sugar, cholesterol, and lipids in the blood of diabetics under the influence of short waves"
3477. HAUF, G. (1974), Dissertation, ETZ 26 Heft, 12():318-320 (Munich), "Investigations on the action of technical energy fields on man."
2835. HAUF, R., & WIESINGER, J. (1973), Internat. J. of Biometeorol., 17():213-215, "Biological effects of technical electric and electromagnetic VLF fields."
2404. HAWKINS, T.D., GROVE, H.M., HEIPLE, T.W., & SCHROT, J. (1973), Rept., Dept. of Microwave Res., Walter Reed Army Inst. of Res., 35 pps., "Some biological effects of microwave irradiation on the rat", [Lethality studies at 3 GHz, and studies of behavioral performance decrements].
2175. HAYASI, O. (1938) Acta Soc. Ophthalm. Jap. 42:1747-1758, (In Jap., with Ger. summary), (Abstr. in: Zentralbl. f. d. ges. Ophth. 42(12):591 (Mar 21, 1939)), "Experimental investigation on the effect of ultrashort waves on the eye. Report I. Effect on the viscosity and the refractive index of the aqueous and the vitreous humor"
2176. HAYASI, O. (1939) Acta Soc. Ophthalm. Jap. 43(7):1727-1736, (In Jap. with Ger. summary on pp. 101-102), (Abstr. in: Zentralbl. f. d. ges. Ophth. 47(2):25 (Sept 30, 1941)), "Experimental investigation on the influence of ultrashort waves on the eye. Report II. The influence of the temperature on eye tissues"
585. HAYWOOD, A. L. (1960) Wright Air Development Technical Rpt #60-551, (Oct. 1960), "Radar radiation hazards in the near field of aperture antennas"
3478. HEALD, C.M., MENGES, R.M., & WAYLAND, J.R. (1974), Plant Disease Reporter, 58(11):985-987, "Efficacy of ultra-high frequency (UHF) electromagnetic energy and soil fumigation on control of reniform nematode and common purslane among southern peas."
586. HEALER, J. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 90-97, "Review of studies of people occupationally exposed to radio frequency radiation"
2837. HEALER, J. (1973), Presented in Seminar on Prospects for Research on Biomedical Effects of Nonionizing Radiation, held by a National Research Council Ad Hoc Committee, (21 Mar.), "Research into biomedical effects of nonionizing radiation and the current government-wide program".
2838. HEALER, J. (1973), In: Environmental Exposure for Nonionizing Radiation: Session Proceedings, (Annual Meeting of the American Public Health Assoc.), published by the EPA, Doc. No. EPA/ORP 73-2, (May), "Federal program on biological effects of electromagnetic energy".
587. HEALER, J., & POLLACK, H. (1967) Allied Research Assoc., Inc. (Concord, Mass.), Final Report No. ARA 348-1, "Review of information on hazards to personnel from high frequency electromagnetic radiation"

588. HEALER, J., & SMILEY, R. (1967) Allied Research Assoc., Inc. (Concord, Mass.), Rept. No. ARA 319-3-1 (38 pages). "Bibliography on biological effects of microwave radiation - a sampling of the world literature"
589. HEALER J., & SMILEY, R. (1968) Allied Research Assoc., Inc. (Concord, Mass.), Rept. No. ARA 376-1, "Some biological effects of radio-frequency radiation"
590. HEALER, J., & SMILEY, R. (1969) Allied Research Assoc., Inc. (Concord, Mass.), Summary Rept. No. ARA 9G61F, in three volumes, (AD 704712), "Bibliography on biological effects of radio-frequency electromagnetic fields"
2840. HEALER, J., & SMILEY, R. (1969), Final Tech. Rept. III, Contract DADA17-69-C-9021, U.S. Army Medical R&D Command, Washington, DC, Doc. No. ARA 9G61F, (AD #706 236), Allied Res. Assoc., Inc., Concord, Mass., "Citation index for foreign language reports on biological effects of radio-frequency electromagnetic fields".
2839. HEALER, J., & SMILEY, R. (1969), Final Tech. Rept. I, Doc. No. ARA 9G61F, Allied Res. Assoc., Inc., (AD #706-851), "Implementation of a prototype data retrieval system for literature on biological effects of radio-frequency fields."
591. HEARN, G. E. (1965) Thesis, Baylor Univ., 77 pages; and HEARN, G. E., & THOMPSON, W. D. (1968) In preparation (?), "Effects of UHF radio fields on visual acuity and critical flicker fusion in the Albino rat"
592. HEARON, J. Z. (1964) (Part of Ely and Goldman's (1964) report entitled "Heating characteristics of laboratory animals exposed to 10 cm microwaves"), IEEE Trans. on Biomedical Engineering, BME-11(4):135-137, "Some mathematical considerations"
2836. HEASTY, D., & HEIMER, G.M. (1973), Naval Ship Engineering Center Rept., (Dec.), "RF-burn voltmeter study".
593. HEDENIUS, P., ODEBLAD, E., & WAHLSTROM, L. (1966), Current Therapeutic Research, 8(7):317-321, "Some preliminary investigations on the therapeutic effect of pulsed short waves in intermittent claudication."
3210. HEDRICK, H.G. (1964), In: Biological Effects of Magnetic Fields, [BARNOTHY, M.F., (ed.)], Plenum Press, NY, (Citation #63, this Biblio.), pps. 240-245, "Inhibition of bacterial growth in homogenous fields".
594. HEDVIG, P., & ZENTAI, G. (1969) The Chemical Rubber Pub. Co., Cleveland, Ohio (Transl. from Hungarian), 462 pages, Microwave Study of Chemical Structures and Reactions
2405. HEERING, H., & van OSCH, P.M.M. (1971), Rept. MBL-8, Bibliography, Biological effects of microwave radiation, Part 2, The Hague - Netherlands, 55 pp.
2406. HEERING, H., & van OSCH, P.M.M. (1971), Rept. MBL 1971-7, Biological Effects of Microwave Radiation - Part 1, The Hague-Netherlands, 40 pp.
3479. HEFCO, V., HEFCO, E., & BIRCA, C. (1969), Revue Roumaine de Biologie—Serie de Zoologie, 14():79-85, "Influence of the magnetic field (MF) on glycemia, pyruvic acid (PA) and lactic acid (LA) in white rat blood."
595. HEIMER, G. (1966) Unpublished Report (Naval Ship Engineering Center, Washington, D. C.), "Navy radio frequency radiation hazards program"
596. HEIMER, G. M. (1967) (Classified) "Report of shipboard (USS DECATUR (DDG-31)) electromagnetic radiation hazard measurements" (U)
597. HEIMER, G. M. (1970) Pathom (Surface Ship & Submarine Safety Review); U. S. Navy Safety Center, pp. 58-60, ^(Winter Issue) "Shipboard RF burn hazards"
598. HEIMER, G., & HEASTY, D. (1969) Naval Ship Engineering Center, Washington, D. C., "Report of RF burn investigation (on the) USS WICHITA (AOR-1)"
599. HEIMER, G., & HOWARD, K. (1961) Safety Review 18(4):11-, "Navy radio frequency radiation hazards program"
600. HEINLE, R., & PHELPS, R. (1933) Amer. J. of Physiology 104:349-, "The effects of short radio-waves on perfused cats hearts"
2407. HEINLE, R.W., & PHELPS, K.R. (1933), American J. of Physiology, 104():347-348, "The effect of short radio waves and heat on the elasticity of the aorta".
601. HEINMETS, F., & HERSHMAN, A. (1961), Physics in Med. and Biology, 5:271-288, "Considerations of the effects produced by super-imposed electric and magnetic fields in biological systems and electrolytes."
602. HELLER, J. H. (1959) Proc. of the 12th Annual Conf. on Electrical Techniques in Med. and Biology, Digest of Tech. Papers, (Lewis Winner, pub., New York, Nov.), p. 56 only, "The effect of electromagnetic fields on uni-cellular organisms"
603. HELLER, J. H. (1959) Radio Electronics (6):6-, "Effect of high-frequency electromagnetic fields on micro-organisms"
3126. HELLER, J.H. (1960), Of Mice Men and Molecules: "A research scientist tells the story of his challenging, vastly exciting work at the frontiers of medicine", Charles Scribner's Sons Publisher, N.Y., [contains a chapter describing research on biological effects of RF/microwave radiation].

604. HELLER, J. H. (1963) U. S. Pat. 3,095,359, "High-frequency treatment of biological matter"
605. HELLER, J. H. (1969) Presented at the Hazards and Utility of Microwaves and Radiowaves Seminar, (Heller, J., Chm.), 11-12 Dec., Boston, "Chairman's remarks"; "Areas of national and industrial concern - noxious and beneficial"; and "Future research requirements"
606. HELLER, J. H. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 116-121, "Cellular effects of microwave radiation"
3211. HELLER, J.H. (1970), Proc. of the Internat. Microwave Power Inst. Symp., Scheveningen, Netherlands, (Oct.), "Non-thermal genetic effects of RF"
3212. HELLER, J.H., WILKINS, D.J., & FREEBORN, J.F. (1963), Nature, 197() :997-998, "Effect of radio-frequency fields on the zeta-potential of a colloidal suspension"
607. HELLER, J. H., & MICKEY, G. B. (1961) Digest of the 4th Internat. Conf. on Medical Electronics (July), p. 152 only, "Non-thermal effects of radio frequency in biological systems"
608. HELLER, J. H., & TELXEIRA-PINTO, A. A. (1958) Reticulo-Endothelial System Bulletin 4:10-11, "Further investigation into radio frequency effects which appear to be active on the reticulo-endothelial system in whole-body irradiations"
609. HELLER, J. H., & TELXEIRA-PINTO, A. A. (1959) Nature 183(4665):905-906, "A new physical method of creating chromosomal aberrations"
3480. HENDERSON, H.M., HERGENROEDER, K., & STUCHLY, S.S. (1975), J. of Microwave Power, 10(1):27-36 (Mar.), "Effect of 2450 MHz microwave radiation on horseradish peroxidase."
610. HENDLER, E. (1959) Proc. of the 12th Annual Conf. on Electrical Techniques in Med. and Biology, Digest of Tech. Papers, (Lewis Winner, pub., New York, 10-12 Nov.), p. 37 only, "Some observations regarding temperature sensations due to microwave irradiation"
611. HENDLER, E. (1968) In: Thermal Problems in Aerospace Medicine, (Hardy, J. D., ed.), The Advisory Group for Aerospace Research & Development, NATO, Maidenhead, England, p. 149-161, "Cutaneous receptor response to microwave irradiation"
612. HENDLER, E., & HARDY, J. D. (1960) Institute of Radio Engineers 7(3):143-152, (Presented at 12th Annual Conf. on Electrical Techniques in Med. and Biology, Nov. 1957, Philadelphia, Pa.), "Infrared and microwave effects on skin heating and temperature sensation"
570. HENDLER, E., & HARDY, J. D. (1961) Federation Proceedings 20(Part 1):401-, "Microwave heating of the human skin" (See #613, this Biblio)
571. HENDLER, E., & HARDY, J. D. (1961) Digest of/Internat. Conf. on Medical Electronics, Biological Effects of Microwaves 1 (Athermal Aspects), (Frommer, P. L., ed.), Plenum Press, New York, pp. 192-, "Heating of human skin by microwave radiation" 4th
613. HENDLER, E., & HARDY, J. D. (1961) See citation Nos. 570 & 571; incorrectly listed under HANDLER
614. HENDLER, E., HARDY, J. D., & MURGATROYD, D. (1963) In: Temperature - Its Measurement and Control in Science and Industry, 3, Part 3, Chapt. 21, Reinhold Pub. Co., New York, p. 211-230, "Skin heating and temperature sensation produced by infrared and microwave irradiation"
2841. HENNEBERG, G., & JORDANSKI, H. (1972), Zentralblatt fur Bakteriologie, Hygiene, I. Abt. Orig., A-221() :386-397, (In Ger.), "Experiment on the effect of cells and tissues. Part III: Effect of irradiation with red-light and microwaves on pinocytosis in FL cell cultures".
2842. HENNEBERG, G., & JORDANSKI, H. (1972), Zentralblatt fur Bakteriologie, Hygiene, I. Abt. Orig., A-221() :398-416, (In Ger.), "Experiment on the effect of cells and tissues. Part IV: Effect of irradiation with red-light and microwaves on the reactivity of the chorioallantoic membrane".
615. HENNY, G. C., TANSY, M., KALL, A. R., WATTS, H. M., & CAMPBELL, R. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 65-69, "Studies of biological hazards from high-power HF band transmitters"
616. HENRIQUES, F. C., JR. (1947) Arch. of Pathology 43:489-502, "Studies of thermal injury: V. The predictability and the significance of thermally-induced rate processes leading to irreversible epidermal injury"
2408. HEPPNER, F. (1965), Medical Clinic, 60(22): p.?, "Brain-surgery experiments concerned with the nature of electro-sleep".
3213. HEPLAN, W.A., & BASSEN, H. (1975), Dept. of Health, Education, and Welfare, Bureau of Radiological Health Publication (FDA) 75-8028, (Mar.), "Precise microwave power density calibration method using the power equation techniques".
2064. HERRERO, S. (1969) Amer. J. of Physiol. 217:403-410, "Radio-frequency-current and direct-current lesions in the ventromedial hypothalamus"
617. HERRICK, J. F. (1952) Presented at Institute of Radio Engineers National Convention, New York, "Application of microwaves in physical medicine"

618. HERRICK, J. (1958) Proc. 2nd Tri-service Conf. on the Biological Effects of Microwave Energy (Pattishall, E.G., & Banghart, F. W., eds.) 2:88-96, (Also, Digest of Technical Papers, 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chm.), (1959), Lewis Winner, Pub., New York, p. 60 only), "Pearl chain formation"
619. HERRICK, J. F., JELATIS, D. G., & LEE, G. M. (1950) Federation Proceedings 9:60-, "Dielectric properties of tissues important in microwave diathermy"
620. HERRICK, J. F., & KRUSEN, F. H. (1952) Paper presented at Amer. Institute of Electrical Engineers Summer Meeting, Minneapolis, Minn., June, (Also, Electrical Engineering 72:239-244, (1953)), "Certain physiologic and pathologic effects of microwaves"
621. HERRICK, J. F., & KRUSEN, F. H. (1956) Institute of Radio Engineers Trans. on Medical Electronics, PCME-4:10-12 (and Symposium on Physiologic and Pathologic Effects of Microwaves (Krusen, F. H., Chm.), Mayo Clinic, Sept. 1955) "Problems which are challenging investigators in medicine"
622. HERRICK, J. F., MARTIN, G., KRUSEN, F., & WAKIM, K. (1950) Medical Physics 2 (Vol. or p.?), "Physical medicine: microwave diathermy"
623. HETHERINGTON, A. (1957) Proc. of 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:1-4, "Introduction to biological effects of microwave radiation conference"
2177. NEUBER, R. (1961) Electromed. 6:193-209, (Transl. as AD #467645-L), "The biological effects of microwaves"
2178. HINES, H., & RANDALL, E. (1952) Elect. Engineer. 71:879-881, "Possible industrial hazards in the use of microwave radiation"
2082. HEYDENREICH, A. (1967) Arbeitsmedizin - Sozialmedizin - Arbeitshygiene, (Stuttgart), 4:280-284, (Abstr. in: Non-ionizing Rad. 2(1):44 only, (1971)), "Radiation-induced eye lesions"
2000. HIGASHI, K. (1948) Science (Japan) 18:467-468, "Denaturation of protein by ultra-short waves"
624. HIGASHI, K. (1950) Monograph Series of the Research Institute of Applied Electricity, Hokkaido Univ., Sapporo, Japan, 1:7-19, "Physical principles of ultra-short wave therapy and other high frequency applications"
(In Polish), (A68-80352),
625. HIGIER, J., & BARANSKA, W. (1967) Wiadomosci Lekarskie 20:1435-1438, "Examinations of the genital organs and studies of the menstrual cycle in women working in the field of microwave radiation"
2001. HILDEBRANDT, F. (1941) Arch. exp. path. Pharmac. 197:148-160, (In German), "Histamine in the blood and tissue under the influence of short waves, diathermy, and fango mud packs"
626. HILL, T. (1956) J. of the Amer. Chemical Society 78(8):2142-, "Some possible biological effects of an electric field acting on nucleic acids or proteins"
3481. HILL, G. (1975), The New York Times, Monday, Nov. 10, Pages 1 and 61, "Ultrahigh-voltage lines studied as possible peril [to humans and animals]."
3482. HILLS, G.A., KONDRA, P.A., & HAMID, M.A. (1974), Canadian J. of Animal Science, 54(4):573-578, "Effects of microwave radiations on hatchability and growth in chickens and turkeys."
3483. HILMER, H., & TEMBROCK, G. (1970), Biol. Zbl., 89():1-8, (in German), "Investigations on the locomotor activity of white rats under the influence of 50 Hz high tension-alternating fields."
3214. HINDIN, H.J. (1974), Microwaves, 13(10):10 only, (Oct.), "New theory proposed [by FOSTER, K., & FINCH, E.] for hearing microwaves".
2843. HINDIN, H.J. (1974), Microwaves, 13(2):9 only, (Feb.), "Do you hear what I hear?", [Describes results of the 'RF-Hearing' experiments conducted by A. FREY].
3484. HINDIN, H.J. (1976), Microwaves, 15(3):10 & 14, (Mar.), "Microwaves probe for cancer cells."
3485. HINDIN, H.J. (ed.), (1976), Microwaves, 15(1):24 only, (Jan.), "Controversies persist over biological damage [resulting from microwave exposure]" [comments on recent paper by CZERSKI, P. (citation no. 3421, this Biblio.)].
627. HINES, E. M. (1958?) State Univ. of Iowa, College of Medicine (AF Rept. 41(657)-113), "Effects of 3, 10, and 12 cm radiation upon the avascular hollow viscera of dogs"
628. HINES, E. M., IMIG, C. J., & TOMASON, J. D. (1948) Proc. of the Society of Experimental Biology and Medicine 69:382-386, "Testicular degeneration as a result of microwave radiation"
2002. HINES, E. M., & RANDALL, J. E. (1952) Electronic Engineering 71:879-881, "Possible industrial hazards in the use of microwave radiation"
629. HIRSCH, F. G. (1952) NASE Conf. on Industrial Health, Cincinnati, Ohio, April, "Microwave cataracts"
630. HIRSCH, F. G. (1956) Institute of Radio Engineers Trans. on Medical Electronics, PCME-4:22-24 (and Symposium on Physiologic and Pathologic Effects of Microwaves, (Krusen, F. H., Chm.), Mayo Clinic, Sept. 1955), "The use of biological simulants in estimating the dose of microwave energy"

2179. HIRSCH, F. G. (1970) Lovelace Foundation for Medical Education and Research, Albuquerque, N. M., 17 pages, "Microwave cataracts - A case report reevaluation"
631. HIRSCH, F. G. (1970) Paper presented at 4th Annual Midyear Topical Symposium, Health Physics Soc., Electronic Product Radiation and the Health Physicist, Louisville, Ky., 28-30 Jan.; Bureau of Radiation Health, Div. of Electronic Products Report No. 70-26, pp. 111-140, "Microwave cataracts"
2409. HIRSCH, F.G., & BRUNER, A. (co-chm.) (1970), Proceed. of the Technical Coordination Conference on EMP (Electromagnetic Pulse) Biological Effects, (July), Sponsored by the Lovelace Foundation for Med. Educat. & Res., Albuquerque, N. Mex.
2410. HIRSCH, F.G., & BRUNER, A. (1972), J. of Occupational Medicine, 14(5):380-386, "Absence of electromagnetic pulse effects on monkeys and dogs"
2411. HIRSCH, F.G., MCGIBONEY, D.R., & HARNISH, T.D. (1968), International J. of Biometeor., 12(3):263-270, "The psychological consequences of exposure to high density pulsed electromagnetic energy"
2003. HIRSCH, F.G., & PARKER, J.T. (1952), AMA Arch. of Industr. Health, 6(6):512-517, "Bilateral lenticular opacities occurring in a technician operating a microwave generator." [Abstr. in: Ophth. Lit., 6(7):913 (Mar. 1954)]
2844. HO, H.S., GINNS, E.I., & CHRISTMAN, C.L. (1973), IEEE G-MTT Transactions; Symposium Issue, ___(): , (Dec.), "Environmentally-controlled waveguide irradiation facility".
3486. HO, H.S., & GUY, A.W. (1975), Health Physics, 29():317-324 (Aug.), "Development of dosimetry for RF and microwave radiation—II: Calculations of absorbed dose distributions in two sizes of muscle-equivalent spheres."
632. HO, H. S., GUY, A. W., SIGELMANN, R. A., & LERMANN, J. F. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):224-231, "Microwave heating of simulated human limbs by aperture sources"
3487. HO, H.S., & YOUNG, H.D. (1975), Health Physics, 29():325-329 (Aug.), "Development of dosimetry for RF and microwave radiation—III: Dose rate distribution in tissue spheres due to measured spectra of electromagnetic plane wave."
633. HODGE, D. M. (ed.) (1968) Report of U. S. Dept. of Health, Education, and Welfare, Public Health Service, Consumer Protection and Environmental Health Service, Environmental Control Admin., Bureau of Radiological Health, Rockville, Md., Summary Report Jan. - Dec., "Radiation bio-effects"
2180. HODGE, D. M. (ed.) (1970) for Jan-Dec 1969, Div. of Biological Effects, Bur. Rad. Health, DHEW (Rept. No. DBE 70-1), (NTIS Rept. No. PB-190-110), 213 pages, Radiation Bio-Effects Summary Report
2181. HODGE, D. M. (ed.) (1970) for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW (Rept. No. BRH/DBE 70-7), 267 pages, Radiation Bio-Effects Summary Report
2004. BOUCE, S., SARANSKI, S., & CZERSKI, P. (1960) Acta physiol. pol. 11:717-719, "Effect of microwave radiations on the human organism"
634. BOEFT, L. O. (1965) Aerospace Medicine 36(7):621-622, (AMRL TR-64-127, AD 624036), "Microwave heating, a study of the critical exposure variables for man and experimental animals"
2412. HOFFART, H.M. (1968), Electro-Technology, ___():52- , (November), "EMC [electromagnetic compatibility] and radiation hazards"
2845. HOFMANN, Von D., et al. (1969), Zbl. Gynaek., 91():593-607, (May), "Experimental studies on the implantation of 32P and 35S in the genital organs of the rat, and its dependence on short wave irradiation".
2413. HOLM, D.A., & SCHNEIDER, L.K. (1970), Experientia, 26:992-994, "The effects of non-thermal radio frequency radiation on human lymphocytes in vitro", [Increased incidence of chromosomal breaks at 27.1 MHz; high power density (10 W?); no dosimetry indicated].
3215. HOLT, J.A.G. (1974), Australasian Radiology, 18(1):15-17, (Mar.), "The cure of cancer: A preliminary hypothesis", [using microwave radiation therapy], and, ibid. 18(2):190 only, (June 1974), "Editorial hypotheses", [in lieu of the promised second article giving technical and clinical information].
2414. HOLZAPFEL, W. (1964), Disaertation. Medical Academy, Dusseldorf, "Investigations for obtaining objective data on electrosleep".
635. HOLZER, W. (1934) (In German, with English Summary) Abstracts of the 1st Internat. Congress of Electro-Radio-Biology, (Capelli, L., ed., Bologna, Italy), pp. 367-368, "A spatial modal for the thermic effects of electrical vibrations in therapy"
2182. HOOD, O. C., KESHISHIAN, J. M., SMITH, N. P. D., PODOLAK, E., HOFFMAN, A. A., & BAKER, N. R. (1972) Aerospace Med. 43(3):314-322, "Anti-hijacking efforts and cardiac pacemakers - Report of a clinical study" [using an external electromagnetic field (at 239 MHz) from a weapons detector]
2416. HOPFER, S. (1972), IEEE Transactions on Instrumentation and Measurement, IM-21(4):416-424, "The design of broad-band resistive (microwave) radiation probes".
636. HOPKINS, A. L. (1960) Annals of the New York Academy of Science 85 (vol?, page?), "Radio frequency spectroscopy of frozen biological material: dielectric heating and the study of bound water"

3127. HOPKINS, C.D. (1974), *American Scientist*, 62(4):426-437, (Jul.-Aug.), "Electric communication in fish: Certain species of fish produce electric signals that are used for identification, aggregation, and dispersal".
637. HORN, G. (1965) *Automaz. Automat.* 9:5-, (In Italian) "The passive electrical characteristics of biological systems"
638. HORNOWSKI, J. (1965) *Polski Tygodnik Lekarski (Warsaw)* 20:1906-1907, "Case of skin burns by microwaves"
2183. HORNOWSKI, J., & MARIN, P. (1964) *Neurological & neurochirurgia Polska* 2:25-27, (In Pol.), (Abstr. A68-81426), "Clinical observations concerning the effect of microwaves on the nervous system"
639. HORNOWSKI, J., MARKS, E., & CHMURKO, E. (1966) *Medycyna Pracy* 17:213-217, "Studies on the pathogenic effect of microwaves in men"
640. HORTEN, E. (1947) *Klinische Wochenschrift* 24-25(25/26):392-396, (In German), "The effect of electromagnetic short wave exposure of the midbrain on the vegetative functions of man"
641. HORVATH, S. M., MILLER, R. N., & HUTT, B. K. (1948) *Amer. J. of Medical Sciences* 216:430-436, "Heating of human tissues by microwave radiation"
642. HORVATH, S. M., MILLER, R. N., & HUTT, B. K. (1948) *Federation Proceedings* 7:58 only, "Heating of human muscle tissue by microwaves"
643. HOSHIKO, M. S. (1970) *Proc. 3rd Annual National Conf. of the Neuro-Electric Society*, "The nervous system and electric currents", (Wulfsohn, N. L., & Sances, A., Jr., eds.), (23-25 Mar., Las Vegas, Plenum Press, New York), pp. 85-88, "Electro-stimulation of hearing" [RF]
2418. HOUK, W.M. (1972), (Dept. of Rad. Biology & Biophysics, School of Med., U. of Rochester) Critical analysis of papers by Sadchikova, M., & Orlova, A. (1958-1960), (ref. #1386 & 1387, this Biblio.), entitled: "Changes in the nervous system as a result of exposure to microwaves".
2184. HOUK, W. (1972) Presented at Aerospace Medical Assoc. 43rd Ann. Meeting, 8-11 May, Pal Harbour, Fla., "Human responses to microwave irradiation - A review of and evaluation of published reports"
2846. HOUK, W.M. (1972), Unpublished report, School of Med. & Dent., U. of Rochester, NY, (Oct.) "Some considerations regarding the known biological effects of electromagnetic pulses, and the setting of standards".
2417. HOUK, W.M. (& MICHAELSON, S.M.) (1972), Thesis, Department of Radiation Biology and Biophysics, The University of Rochester, New York, 79 pps., "A critical evaluation of Soviet and East European literature on the human effects of microwave radiation in an occupational health environment".
2848. HOUK, W.M., & MICHAELSON, S.M. (1974), Presented at the Aerospace Medical Assoc. Meeting, Wash., DC, 6-9 May, "Metabolic and thermoregulatory responses to microwave radiation in young male rats".
- 2847. HOUK, W.M., MICHAELSON, S.M., & LONGACRE, A. Jr. (1973), *The Physiologist*, 16(3):347 only. (Abstract), "Thermal regulation in Long-Evans rats exposed to 2450 MHz microwave radiation."**
3216. HOVIND, H. (1974), *Archives of Physical Medicine & Rehabilitation*, 55(9):517-521, "Local blood flow after short-wave diathermy: Preliminary report".
644. HOWLAND, J. W., & MICHAELSON, S. M. (1959) *Digest of Technical Papers, Proc. 12th Annual Conf. on Electrical Techniques in Medicine and Biology*, 10-12 Nov., (Winner, L., Pub.), New York, p. 40 only, "Biological effects of pulsed electromagnetic (2880 Mc) irradiation"
645. HOWLAND, J. W., & MICHAELSON, S. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments*, (Suskind, C., ed.), 3:191-238, (RADC-TN-59-99, AD 212110), "Studies on the biological effects of microwave irradiation of the dog and rabbit"
646. HOWLAND, J. W., & MICHAELSON, S. (1964) *Industrial Med. and Surgery* 33:500-, "The effect of microwave on the biological response to ionizing radiation"
2185. HOWLAND, J. W., & MICHAELSON, S. M. (1966) *Blood* 28:157-162, (Abstr. A66-81394), "Leukocyte response following simultaneous ionizing and microwave (radar) irradiation"
2186. HOWLAND, J. W., MICHAELSON, S. M., & THOMPSON, R. A. E. (1965) *Aerospace Medicine* 36:1059-1064, "Comparative studies on 1285 and 2800 Mc/sec pulsed microwaves" [docs]
647. HOWLAND, J. W., MICHAELSON, S. M., THOMPSON, R. A. E., & MERMAGEN, H. (1962) *Rept., Univ. of Rochester, RADC-TDR-62-102, (AD 274338)*, "The effects of microwaves on the response to ionizing radiation"
648. HOWLAND, J. W., THOMPSON, R. A. E., & MICHAELSON, S. M. (1961) *Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation*, Vol. 1 (Peyton, M. P., ed.) pp. 261-284, "Biomedical aspects of microwave irradiation of mammals"
649. HUBNER, J (1950) *Munchener Medizinische Wochenschrift* 92(27/38):1546 only, (In German), "Bedside ultrashort wave treatment"

2005. HUENNER, R. (1961) *Elektromedizin* 6:193-209, (In German) "The biological effect of microwaves"
2006. HUENNER, R. (1962) *Schweizer Maschinenmarkt* 52:39-42, (In German) "The effect of powerful radar beams"
650. HULL, A., TIZARD, H., & LEDEN U. (1947) *British J. of Physical Med.* 10:177-184, "Preliminary studies on the healing and circulatory effects of microwaves (radar)"
651. HUNT, A. G. (1969) *Non-ionizing Rad.* 1(3):105-112, "Non-ionizing radiation: physical relationship between typical sources and human targets"
2849. HUNT, E.L., & PHILLIPS, R.D. (1971), In: Progress Report Abstracts, ONR Rept. ACR-175, Pages 70-71, Work Unit No. NR101-809, Contr. N00014-70-C-0197, Battelle-Northwest Laboratory, Richland, WA, "Effects of exposure to pulsed microwaves (radar) on central nervous system excitability in laboratory animals [Abstract]"
2850. HUNT, E.L., & PHILLIPS, R.D. (1971), In: Progress Report Abstracts, ONR Rept. ACR-175, pps. 72 & 73, Work Unit No NR 101-811, Contr. N00014-70-C-0332, Battelle-Northwest Laboratory, Richland, WA, "Effects of microwave radiations on physiological and behavioral factors related to the performance capabilities of laboratory animals".
3217. HUNT, E.L., PHILLIPS, R.D., & KING, N.W. (1974), Final Rept. to Office of Naval Research, Contract No. N00014-70-C-0197, Battelle Memorial Inst., Pacific Northwest Laboratories, Richland, WA, (Pacific NW Lab Project No. 211B00144), (Oct.), Approx. 52 pps., "Effects of exposure to pulsed microwaves (radar) on central nervous system excitability in laboratory animals".
2419. HUNYOR, S.N., NICKS, R., JONES, D., COLES, D., & HEATH, J. (1971), *Med. J. of Australia*, 2:653- . "Interference hazards with Australian non-competitive ('demand') pacemakers".
2851. HURT, W.D. (1972), USAF School of Aerospace Medicine, Rept. No. SAM-TR-72-36, (Aerospace Med. Division (AFSC), Brooks AFB, TX), (Dec.), "Cardiac pacemaker electromagnetic interference (3050 MHz)".
652. HUTT, B., MOORE, J., COLONNA, P., & HORVATH, S. (1952) *Amer. J. of Physical Med.* 31:422-428, "Influence of microwave irradiation on body temperature in dog and man"
653. HUTTON, C. C. (1962) Secret Report, AD 332918, "Biological effects of microwaves; an ASTIA report bibliography"
654. HUZL, F., KLIMKOVA-DEUTSCHOVA, E., JANKOVA, J., MAINEROVA, J., SALCMANOVA, Z., SCHWARTZOVA, K., SUCHANOVA, L., & SYKORA, J. (1966) *Pracovni Lekarstvi, Prague*, 18(3):100-108, (ATD Abstr. A66-81307), "Examination of workers in the West Bohemia Region exposed to electromagnetic waves one meter and longer"
655. HYDE, A. S., & FRIEDMAN, J. J. (1968) In: *Thermal Problems in Aerospace Medicine*, (Hardy, J. D., ed.), The Advisory Group for Aerospace Research & Development, NATO, Technivision Services, Maidenhead, England, pp. 163-175, "Some effects of acute and chronic microwave irradiation of mice" (Abstr. A69-20678),
3218. HYMES, A.C., et al. (1973), *Surg. Forum*, 24():447-449, "Electrical surface stimulation for control of acute post-operative pain".
656. IAKOVLEVA, M. I. (1968) *Bulleten Eksperimental'noy Biologii Meditsiny* 66(9):9-11, (In Russian with English summary), "The study of efferent impulsion in post-ganglionic sympathetic fibers under the influence of a super-high frequency electromagnetic field" (Also cited as #1822, this Bibliography, as IAKOVLEVA)
657. IAKOVLEVA, M. I. (1968) *Zh. Evolutsionnoi Biologii i Fiziologii (Akademiya Nauk SSSR), Moscow*, 4(5):437-442, (In Russian with English summary), "The effect of ultrahigh frequency electromagnetic fields on regulation of the heart rate and respiration in birds"
2852. IAKOVLEVA, M.I. (1968), *Zh. Vysshei Nervnoi Deyatel'nosti imeni I.P. Pavlova, Moscow*, 18():418-424, (In Russ.), "The effect of ultra-high frequency electromagnetic fields on the conditioned reflex regulation of cardiac activity and respiration".
658. IAKOVLEVA, M. I., SHLIAFER, T. P., & TSVETKOVA, I. P. (1968) *Vysshei Nervnoi Deyatel'nosti imeni I p Pavlova, USSR*. 18(6):973-978, (In Russian with English abstract), "On conditioned cardiac reflexes and the functional and morphological state of the cortical neurons under the action of electromagnetic fields of superhigh frequencies" (Also cited as #1824)
3219. IASHINA, L.N. (1972), *Gig. Tr. Prof. Zabol.*, 16():53-56, (In Russ.), "Effect of a low-frequency impulse magnetic field on the activity of oxidation-reduction enzymes in albino rat liver: Histochemical study", [pulses of 300-900 Oe at 7 KHz, 130 usec for 3 hrs/day].
3488. IASHINA, L.N. (1972), *Gigiena Truda Professional'nye Zabollevaniya (Moskva)*, 16():53-56 (Feb.), (in Russian), "Effects of pulsed low-frequency magnetic field on activity of redox enzymes in the albino rat liver: Histochemical investigation."
659. IATSENKO, M. I. (1966) *Fiziologicheskii Zh. (Kiev)* 12:377-381, "Effect of microwaves on the absorptive capacity of the knee joint under the effect of atropine and carbocholine" (Also cited as #1831, this Bibliography, as IATSENKO)
660. IATSENKO, M. I. (1966) *Voprosy Kurortologii, Fizioterapii i Lachebnoy Fizicheskoy Kul'tury (Problems in Health Resort Science, Physiotherapy, and Medical Physical Culture), Moscow*, 31:446-448, "The absorption capacity of the knee joint following severance of the femoral and sciatic nerves, and under the effect of microwaves"
2853. IATSENKO, M.I. (1970), *Vopr. Kurortol. Fizioter. Lech. Fiz. Kult.*, 35():420-430, (Sept.-Oct.), "Effect of an UHF electromagnetic field (microwaves) on the temperature and rate of blood flow in a joint".

661. IBKRAL, A. S. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.), 3:136-160, "Human body as an inconstant heat source and its relation to clothes insulation: 1. Descriptive models of heat source, 2. Experimental investigation into the dynamics of the source"

2854. IIDA, H., KO, S., MIYASHITA, Y., SAWEDA, S., MAEDA, M., NAGAYAMA, H., KAWAI, A., & KITAMURA, S. (1956), J. of Kyoto Pref. Med. Univ., 60():561-564, "On electric callus produced by alternating current".

2083. IIZUKA, K. (196?) Report (AD 667729) Avail. from DDC Clearing House, "Photographing microwave fields"

2187. IKEDA, H. (1966) Nippon Acta Radiol. 26:284-288, (A67-81094), "Studies on biological effects of microwave radiation (second report). Investigation of shielding effect of concrete, Lavan, and glass against microwave radiation"

3489. IL'CHEVICH, N.V., & GORODETSKAYA, S.F. (1975), Gigiyena Nasedennykh Mest, (14):92-94, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 5-7, "Effect of the chronic application of electromagnetic microwave fields on the function and morphology of the reproductive organs of animals."

662. IL'IN, B. I., & KOBOLEV, V. G. (1964) Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Science, Physiotherapy, and Medical Physical Culture), Moscow, 29(2):172-, (JPRS 25121, pp. 20-21; OTS-64-31500), "Treatment of pedal hyperhidrosis with a UHF field"

663. ILLINGER, K. H. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. P., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 112-115, "Molecular mechanisms for microwave absorption in biological systems"

664. IMIG, C. J., & SEARLE, G. W. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Baughart, F. W., eds.) 2:242-253, "Review of the work conducted at State Univ. of Iowa"

665. IMIG, C. J., & SEARLE, G. W. (1959) In: Investigators' Conf. on Biological Effects of Electronic Radiating Equipments, held at Patrick Air Force Base, Florida, 14-15 Jan. (RADC-TR-59-67, Proj. 5545, pp. 3-5; AD #214693), "Report from State Univ. of Iowa, Dept. of Physiology"

666. IMIG, C. J., & SEARLE, G. W. (1962) Report, RADC TDR-62-358, AD 287160, 188 pages, "Review of work conducted at State Univ. of Iowa"; "Studies on organisms exposed to 2450 mc cw microwave irradiation"

667. IMIG, C. J., THOMSON, J. D., & HINES, H. M. (1948) Proc. of the Society for Experimental Biology and Medicine 69(2): 382-386, "Testicular degeneration as a result of microwave irradiation"

668. INGALLS, C. E. (1966) Report from Interference Consultants, Inc. (Preprint of paper, New York J. of Med. 67:2992-2997 (1967)), "The sensation of hearing in electromagnetic fields"

2420. INGELMAN-SUNDBERG, A., & ODEBLAD, E. (1965), Amer. J. of Obstet. & Gynec., 92:592-600, "Attempts to localize a carcinoma of the endometrium with the use of short radio waves".

2188. INCLIS, L. P. (1969) In: Record, 11th Electromagnetic Compatibility Symposium, Inst. of Electrical and Electronics Engineers, Asbury Park, N. J., pp. 7-11, (Abstr. #A69-42216), "The compatibility of man in the microwave environment" [human responses; thermal & nonthermal effects, eye damage, & information storage]

2189. INCLIS, L. P. (1970) In: IEEE Record of Internat. Sympos. on Electromagnetic Compatibility, Anaheim, Calif., pp. 168-172, (Abstr. #A71-38442), "Why the double standard? - A critical review of Russian work on the hazards of microwave radiation"

2855. INGRAM, M., & PAGE, L.J. (1953), Proc. of the Soc. of Applied Bacteriology, 16():69- , "The survival of microbes in modulated high-frequency voltage fields".

669. INMAN, E. A. (1970) NASA, Marshall Space Flight Center, Huntsville, Ala., (N70-33065, NASA-TM-X-64523), "RF radiation hazards to space station personnel"

670. IRISOVA, N. A. (1968) Vestnik Akademii Nauk SSSR (10):63-71, (In Russian), "Experimental techniques of submillimeter wave measurements"

2190. IRWIN, D. D., RUSH, S., EVERING, R., LEPESCHKIN, E., MONTGOMERY, D. B., & WEGGEL, R. J. (1970) IEEE Trans. on Magnetics, MAG-6(2):321-322, "Stimulation of cardiac muscle by a time-varying magnetic field"

2421. ISKANDER, M.F., & STUCHLY, S.S. (1972), IEEE Trans. on Instrumentation and Measurement, IM-21(4):425-429, "A time-domain technique for measurement of the dielectric properties of biological substances", [At RF and microwave frequencies]

671. ISMAILOV, E. SH. (1966) Vestnik Leningradskogo Universiteta Seriya Biologiya 2(9):147-149, "Effect of microwaves on *Opalina ranarum*"

3220. ISMAILOV, E. Sh. (1971), Nauchnyye Doklady Vyshey Shkoly: Biologicheskoye Nauky, (3):pp 2, [Transl. in "Effect of nonionizing electromagnetic radiation", JPRS #62462, July 1974, Citation #3134 this Biblio., pps. 45-?], "The effect of microwaves on erythrocyte potassium and sodium ion permeability".

2422. ISMAILOV, E. Sh. (Daghestan State U., USSR), (1972), Abstr. of Fourth Internat. Cong. of the Internat. Union for Pure and Applied Biophysics, Moscow. (Aug.), p.434-435, "Changes of red cell membrane permeability under the action of microwaves, and their mechanisms", [Studies on human red cells led to conclusion that microwave radiation suppresses active transport, and increases the diffusion rate of K^+ and Na^+ , and from studies of urea "intrusion", increase the effective pore volume of the membrane. The change in cell membrane permeability is linked to a breakdown of the water structure within the membrane].

3490. ISRAEL, H., & KASEMIR, H.W. (1951), *Annales de Geophysique*, 7():63-68, (in German), "The shielding effect of buildings on the changes of the atmospheric electrical field."
672. IVANOV, A. I. (1962) In: *Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field*. Kirov Order of Lenin Military Medical Academy, Leningrad. pp. 24-26, "Changes of phagocytic activity and mobility of neutrophils under the influence of microwave fields"
673. IVANOV, V. I., et al. (1957) In: *Summaries of reports, Part 2, Jubilee Scientific Session of the Institute of Labor Hygiene and Occupational Diseases. Dedicated to the 40th Anniv. of the Great October Socialist Revolution, Moscow*, pp. 52-53, "Biochemical changes in the blood under the chronic influence of radiation"
2423. IVANOV-MUROMSKIY, K.A. (1966), In: *Conference on Effects of Diffuse Electrical Currents on Physiological Mechanisms with Application to Electroanesthesia and Electro-sleep*, Vol. 4, Milwaukee, "Physiological mechanisms of electroanesthesia".
2424. IVANOV-MUROMSKIY, K.A. (1966), Kiyev, *Naukova dumka*, 221 p. (In Russ.), (JPRS 42,233), "Electrical anesthesia and electro-sleep of man and animals".
674. IWAI, Y. (1965) Editor, *Digest of the 6th Internat. Conf. on Medical Electronics and Biological Engineering*, (Tokyo, 22-27 Aug.) (Chairman of Program and Publication of the Organizing Committee), Okumura Printing Co., Tokyo
2425. IWANOVSKY, A., & DODGE, C.H. (1968), *Foreign Service Bulletin*, FSB-4(3):1-64, Aerospace Technology Division, Library of Congress, "Electro-sleep and electroanesthesia — theory and clinical experience".
675. IZAR, G., & MORETTI, P. (1933) *Riforma Medica* 49:1611-, (In Italian), "On the biological action of short electromagnetic waves; Note 7. Action on enzymes"
676. JACKSON, A. S. (1935) *Arch. of Physical Therapy* 16:342-344, "Physical therapy in general surgery"
3491. JACKSON, S.J. (1975), National Library of Medicine (Bethesda, MD) Literature Search No. 75-19 for the period Jan. 1973 - Oct. 1975, 94 citations, "[Biological] Effects of microwave radiation."
677. JACKSON, W. (1946) *Trans. of the Parady Society* 42A:91-, "The representation of dielectric properties and the principles underlying their measurements at centimeter wavelengths"
2191. JACOBS, S. E., THORNLEY, M. J., & MAURICE, P. (1950) *Proc. of the Soc. for Applied Bacteriology* (2):161-169, "The survival of bacteria in high-frequency electric fields"
681. JACOBSEN, V. C., & HOSOL, K. (1931) *Arch. of Pathology* 11:744-759, "Morphological changes in animal tissues due to heating by UHF oscillators"
678. JACOBSON, B. (1967) Editor, *Organizing Committee for the 7th Internat. Conf. on Medical and Biological Engineering*, Stockholm, 14-19 Aug.
679. JACOBSON, B. S., FRAUSNITZ, S. B., & SUSSKIND, C. (1959) *Institute of Radio Engineers Trans. on Medical Electronics* :p.?, "Investigation of thermal balance in mammals by means of microwave radiation"
680. JACOBSON, B. S., & SUSSKIND, C. Z. (1958) *Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy* (Pattishall, E. G., & Banghart, F. W., eds.) 2:234-241, "Review of the work conducted at Univ. of California; Effects of microwave irradiation on internal temperature and viability in mice"
2856. JACOMB, R.P. (1971?), Rept., Carnarvon Tracking Station, Western Australia, "A partial listing of references on the biological effects of microwave radiation and magnetic fields".
2857. JAGADEESH, P., NEWMAN, P.P., HARRIMAN, D.G.F., & WILSON, D.H. (1972?), *Annals of the Assoc. for the Advancement of Med. Instrumentation*, (): , "Effects of a non-thermal, pulsed electromagnetic field on the regeneration of peripheral nerves in rats", [electrophysiological studies showed resumption of (median-ulnar) nerve conduction 8 days following surgery in treated animals].
2426. JANES, D.E., HANKIN, N.N., TELL, R.A., & CHRISTIAN, J.G. (1972), Environmental Protection Agency, Office of Radiation Programs Rept., 69 pps., "Radiofrequency and microwave radiation program".
682. JANES, D. E., LEACH, W. M., MILLS, W. A., MOORE, R. T., & SHORE, M. L. (1968) *Radiation Bio-Effects*, (Hodge, D. M., ed.), Report, U. S. Dept. of Health, Education and Welfare, Bureau of Radiological Health, pp. 89-93, "Effects of microwave radiation on Chinese hamsters"
2084. JANES, D. E., LEACH, W. M., MILLS, W. A., MOORE, R. T., & SHORE, M. L. (1969) *Non-ionizing Rad.* 1(3):125-130, "Effects of 2450 MHz microwaves on protein synthesis and on chromosomes in Chinese hamsters"
2427. JANKOVICH, J.P. (1971), Rept., Naval Ammunition Depot, Crane, Indiana, RDTR No. 187, 36 pages, (AD #730105), "Effects of low intensity microwaves on performance".
2428. JANKOWSKI, W., & MEYER, J. (1972), *Patologia Polska*, 23(2):263-268, (In Pol. with Engl. summary), "Patho-mechanism of crust formation in burn wounds of the skin in rats following primary or secondary microwave irradiation". [80 mW, 2980 MHz, pulses used].

757. KINOSHITA, H. (1963) J. of the Faculty of Science, Tokyo Univ., 4:137-, "Electrical stimulation of paramecium"
758. KINOSHITA, H. (1964) J. of the Faculty of Science, Tokyo Univ., 7:1-, "Electrical potentials and ciliary response in Opalina"
759. KINOSHITA, J. H. (1966) Documenta Ophthalmologica, Netherlands, 20:91-103, "Biochemical changes in microwave cataracts"
Meyers, L.O., Bikmaz, E., & Carpenter, R. L.
760. KIRCHEV, K. K. (1937) Moskovskaja oblastnaja klinika fizicheskikh metodov lechenia. Trudy, Moscow, 3:217-, "Influence of UHF electrical fields (6.5 m) on the blood vessels of the isolated rabbit's heart"
761. KIRCHEV, K. K. (1937) Trudy III vses. siesda fizioterap., Kiev, pp. 245-, "On the problem of the influence of ultra short-waves on blood vessels in the rabbit"
(EFTIMOV, _ & CHEREAEV, _)
762. KIRCHEV, K. K., et al. (1962) Proc. of the 5th Internat. Biochemical Congress, Section 14-28, "Biochemical changes in the muscles and blood of white rats due to microwaves"
3509. KISELEV, R.I., & ZALYUBOVSKAYA, N.P. (1975), Voprosy Virusologii, (5):617-620, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 71-76, "Study of the inhibiting effect of superhigh frequency millimeter waves on adenovirus."
763. KITSOVSKAYA, I. A. (1959) In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, "Changes in the higher nervous activity of rats exposed to chronic effects of radio frequency (centimeter) waves"
764. KITSOVSKAYA, I. A. (1960) Trudy Nii Gigiyena Truda i ProfzabolevaniyaAMN SSR, (1):75-80 (Also in: The Biological Action of Superhigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), (1960), Moscow, JPRS 12471, pp. 75-82; Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, Apr. 1965), "Investigation of the interrelationships between the basic neural processes in rats under the influence of SHF-UHF of various intensities"
765. KITSOVSKAYA, I. A. (1964) Gigiyena Truda i Professional'nye Zabolevaniya (Moskva) 8(6):14-19, (JPRS 31047, N65-28357, IT-65-31543), "The effect of centimeter waves of varying intensity on the blood and hemopoietic organs of white rats"
766. KITSOVSKAYA, I. A. (1964) Trudy Nii Gigiyena Truda i ProfzabolevaniyaAMN SSSR, (2):39-42, (In: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), (1960), Moscow, JPRS 12471), "Comparative evaluation of the action of microwaves of various wavelengths on the nervous system of rats susceptible to sound stimulus"
3234. KLAINER, S.M., ARDEN, W., & HIRSCHFELD, T. (1974), Final Rept. to Brooks Air Force Base under Contract F40609-73-C-0024, by Block Engineering Inc., (19 Blackstone Street, Cambridge, MA 02139), (Jan.), AD # _____, "The detection of RF damage to biological molecules using Raman spectroscopy".
767. KLASCIUS, A.F. (1971), Jet Propulsion Lab. Rept. (8 pages), [Evaluation of the Navy's] "Microwave radiation protective suit." (Also: Amer. Indust. Hygiene Assoc. J., 32(11):771-774 (Nov.))
2872. KLASCIUS, A. (1973), Amer. Industrial Hygiene Assoc. J., 34(3):97-101, (Mar.), "Microwave radiation hazards around large microwave antenna."
3235. KLEINER, A.A. (1974), Gig. Tr. Prof. Zabel., (2):15-18, (In Russ.), "Gastrointestinal function in workers exposed to the effects of electromagnetic fields in the ultrahigh frequency range". [At 5 to 10 times the max. permissible Russ. levels (for up to 10 years), disturbances of the nervous and cardiovascular system, "gastrointestinal disease", and altered liver function (among other changes) were noted in occupationally exposed workers.]
3510. KLEYNER, A.I. (1974), Gigiyena Truda i Professional'nye Zabolevaniya, (2):15-18, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 87-89, "Digestive system in workers exposed to the effects of UHF electromagnetic fields."
3511. KLEYNER, A.I., ABRAMOVICH-POLYAKOV, D.K., MAKOTCHENKO, V.M., & others (1975), Vrachebnoye Delo, ():133-137, (in Russian), Transl. as JPRS #66434, 22 Dec 75, "Clinical aspects of the effect of metric range electromagnetic fields."
3512. KLIMOV, B.N., IVANCHENKO, V.A., PIS'MENNY, B.S., KRASNIKOV, V.V., SEMENOV, V.I., & NAUMENKO, G.Yu. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #64532), p. 52 only, "Utilizing nonlinear properties of semiconductors which show up on strong electric fields for detecting emission in the millimeter and submillimeter bands."
768. KLIMKOVA-DEUTSCHOVA, E. (1963) In: Transl. of Czechoslovakian Neurology, 26(3):184-189, (FTD-IT-64-267, pp. 22-, Aug. 1964; AD #450604), "Effect of (microwave) radiation on human EEG"
769. KLIMKOVA-DEUTSCHOVA, E., & ROTH, B. (1963) Electroencephalography and Clinical Neurophysiology 15(1):170 only, (Abstr. 17 of Meeting of Czech EEG Commission, BRADEC KRALOVE, Czech, June 1962), "The influence of a high frequency electromagnetic field on the human EEG"
770. KLIMKOVA-DEUTSCHOVA, E., & ROTH, B. (1963) International Archiv Gewerbepathol Gewerbehyg 20(1):1-10, "The effect of electromagnetic waves on the nervous system - an electroencephalographic study"
771. KLIMKOVA-DEUTSCHOVA, E., & ROTH, B. (1963) Chekheslovatskoe Meditsinskoe Obozrenie 9:254-, "The effect of radiation on the human encephalogram"
3513. KLIMOVSKAYA, L.D., & SMIRNOVA, N.P. (1975), Space Biology and Aerospace Medicine, 9(3):18-22, (JPRS #65301), "Some autonomic reactions in rabbits exposed to a permanent magnetic field."
772. KLING, D. H. (1935) Arch. of Physical Therapy 16:88-95, "Results of short wave and ultrashort wave therapy (radiotherapy)"

773. KNAUF, G. M. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:34-46, "Program for the investigation of the biological effects of electromagnetic radiation at the Rome Air Development Center"; Also, Appendix A, pp. 89-93, "Investigation of the biological effects of electromagnetic radiation; status report"
774. KNAUF, G. M. (1958) Proc. Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:3-8, "Outline and purpose of meeting"; Also, pp. 49-53, (AD 131477, July 1958), "New concepts in personnel protection"; also, pp. 124-125, "Review of the biological effects program (abstract)"
775. KNAUF, G. M. (1958) AMA Arch. of Industrial Health 17:49-52, (Presented at 106th Annual AMA meeting, New York City, June 1957), "The biological effects of microwave radiation on Air Force personnel"; and *ibid.* 17:383-388, "Industrial medical problems in an electronic research center"
776. KNAUF, G. M. (1959) (Chairman), Technical Report, Investigators' Conf. on Biological Effects of Electronic Radiating Equipments (held at Patrick Air Force Base, Florida, Jan.), (RADC-TR-59-67, AD 214693, July 1959, 45 pages)
777. KNAUF, G. M. (1959) Digest of Tech. Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., ed.), p. 34 only, "Biological effects of microwave radiation: A research progress report"
778. KNAUF, G. M. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1 (Peyton, M. F., ed.), pp. 9-12, "Chairman's remarks."
779. KNAUF, G. M. (1960) Amer. J. of Public Health 50(3):364-367, "Microwave exposure and missile propellants as occupational health problems"
780. KNAUF, G. M. (1960) Aerospace Med. 31(3):225-228, "The bio-effects of radar energy"
781. KNAUF, G. M., & SPENCER, J. L. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1(Appendix B):94-103, (AD 115603, RADC-TR-58-51), "Bibliography of biological effects of radio frequency energies, 1940-1957"
782. KNAUS, H. (1940) Minerva Medica 31:322-323, "Thermal sensitivity of testes and spermatozoa"
783. KNICKERBOCKER, G. G., KOUWENHOVEN, W. B., & BARNES, H. C. (1967) IEEE Trans. on Power Apparatus and Systems 86(4): 498-505, "Exposure of mice to a strong AC electric field: An experimental study"
784. KNORRE, K. G. (1959) In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, p. 22 only, Title?
785. KNORRE, K. G. (1960) Trudy Nii Gigiyena Truda i Profzaboleaniya AMN SSSR, (1):11-21, (Also in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, JPRS #12471, (1962-11902, TT-62-19175), "Parameters of SHF-UHF fields determining the hygienic evaluation of working conditions and the problems of their measurement"
786. KNORRE, K. G. (1963) Referativnyy Zh., Elektronika i Yeye primeneniye, (3):11-21, (Also in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V. (eds.), Moscow, JPRS 12471, pp. 5-17), "Parameters of UHF fields determining the hygienic evaluation of working conditions and the problems of their measurement"
787. KNORRE, K. G., & BELITSKIY, B. M. (1959) In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, p. 36 only, Title?
788. KNORRE, K. G., & GORDON, Z. V. (1960) In: Elektronika V Meditsine, Berg, A. I., (ed.), Moscow - Leningrad, pp. 374-382, "Methods of measuring SHF-UHF field parameters which determine the hygienic estimate of labor conditions during work with generators"
789. KNUDSON, A., & SCHAIBLE, P. J. (1929) Abstr. of Communications to the XIIIth Internat. Physiological Congress, held in Boston, Aug., pp. 147-148, "Chemical changes in the body resulting from exposure to UHF field. I. Blood chemical findings in the dog. II. Acid base balance in the plasma of dogs"
2011. KNUDSON, A., & SCHAIBLE, P. F. (1931) Arch. of Path. 11:728-743, "Physiological and biochemical changes resulting from exposure to an ultrahigh-frequency field"
2437. KNUDSON, R.C., HAGFORS, N.R., & MATTHEWS, J.H. (1966), In: First International Symposium on Electrotherapeutic Sleep and Electroanesthesia, Graz, Austria, (12-17 Sept.), "The effect of various electrodes and electrode placements upon the EEG's of dogs during electroanesthesia".
2201. KUBTSEV, I. (1969) Iowa Acad. of Sci. 76:510-516, "The effect of an electromagnetic field on early embryogenesis in quail"
790. KOBAK, D. (1935) Arch. of Physical Therapy 16:171-173, (Editorial), "Priority in short wave therapy"; Also, *ibid.* 16:430-431, (Editorial), "Urologic electrosurgery"
791. KOCHERGA, D. O. (1940) Universitet. Instytut fiziologii, Sbornik statei, Dnepropetrovsk, (3): page?, "The effect of SHF-UHF fields on spinal cord functions"
2873. KOCK, W.E. (1959), Proc. of the Inst. of Radio Engineers, 47():1192-1201, "Related experiments with sound waves and electromagnetic waves".
2874. KOCK, W.E., & HARVEY, F.K. (1951), Bell System Technical J., 30():564-587, "A photographic method for displaying sound wave and microwave space patterns".

3514. KOENIG, H., & ANKERMUELLER, F. (1960), *Die Naturwissenschaften*, 47():486-490, (in German), "The effect on man of extremely low frequency electrical processes in the atmosphere."
3236. KOGAN, A.B., SACHAVA, T.S., DOROZHKINA, L.I., PAVELKO, V.M., & GOL'TSEVA, I.N. (1971), (in: KHOLODOV, Yu.A. (ed.), *Influence of Magnetic Fields on Biological Objects*, pp. 51-64, "The mechanism of biological effects of a constant magnetic field". [Citation #3230, this Biblio.]
792. KOGAN, A. B., & TKHONOVA, N. A. (1965) *Biofizika* 10(2):292-296, "The effect of a constant magnetic field on the movement of paramecia"
2012. KOELER, F. P., & MACKINNEY, C. C. (1965) *J. of the Amer. Medical Assoc.* 193:855-, "Cardiac pacemakers in electrosurgery"
793. KOIWA, M. (1939) *Tohoku J. of Experimental Medicine* 37:202-215, (In German) "Influence of short wave irradiation on the glomerular filtration and the tubular resorption in the normal and in the denerved kidney"
794. KOKHANOVICH, N. P. (1941) *Fizioterapiia*, Moskva, 3-4:47-49, (In Russian), (Abstr. in: *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, ATD Rpt.P-65-17, Apr. 1965), Title? [Irradiation of dogs with UHF radiation]
2875. KOLDAEV, V.M. (1970), *Biull. Eksp. Biol. & Med.*, 70():69-70, (Nov.), (In Russ.), "Effect of UHF electromagnetic fields on rats during changes in the rate of oxidative processes in the organism".
3237. KOLDAEV, V.M. (1971), *Vopr. Kurortol. Fizioter. Lech. Fiz. Kult.*, 36():246-248, (In Russ.), "Effect of antioxidants on protein metabolism [in rats] after microwave irradiation", [at a level of 150 mw/cm²].
2438. KOLDAEV, V.M. (1972), *Farmakologiya i Toksikologiya*, 35:505-507, (Jul.), (In Russ.), "Use of chemical substances during UHF electromagnetic irradiation: A review of the literature".
2439. KOLDAEV, V.M. (1972), *Patologicheskaya Fiz'ologiya i Eksperimental'naya Terapiya*, 16:7]-73, (Mar-Apr), (In Russ., with Engl. summary), "Effect of microwaves on rats subjected to the action of gaseous media with an altered content of oxygen and chemical agents of antioxidant action". [Studies of the resistance to 150 mw/cm² irradiation at 2400 MHz during inhalation of various gas mixtures; comments on muscle redox potential, and alteration of life span].
2876. KOLDAEV, V.M. (1973), *Biull. Eksp. Biol. & Med.*, 76(9):27-28, (Sept.), (In Russ., w/Eng. Summary), "The effect of stimulators of the central nervous system and of the adrenal hormones on the outcome of acute irradiation of mice with super high frequency field." [Survival of irradiated (wave length 12.5 cm, 62 ± 5 mw/cm², 16 min. exposure) albino mice doubled for hydrocortisone-treated animals, and was 3/2 times greater for noradrenalin and strychnine administration.]
2877. KOLDAEV, V.M. (1974), *Biull. Eksp. Biol. & Med.*, 77(3):79-31, (In Russ., w/Eng. summary), "The effect of ephedrine and cordiamine on the outcome of microwave exposure of mice", [Chronic as well as acute extension of 1973 paper; survival increased for pre-treatment with cordiamine; no positive effect noted with ephedrine].
3515. KOLDAYEV, V.M. (1975), *Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"* (JPRS #64532), pp. 42-45, "The effects of ephedrine and nikethamide on microwave-exposed mice."
2878. KOLESNIK, F.A., & KOMOGORTSEVA, N.A. (1973), *Voeno. Med. Zh.*, 3(3):63-64, (Mar.), (In Russ.), "Change in the quantity of total sulfhydryl groups in the blood of persons in contact with UHF radiation generators."
795. KOLESNIK, F. A., & MALYSHEV, V. M. (1967) *Voенно-медицинский Zh. (USSR Military Medical J.)* 2(2):28-29, ACSJ J2103), "Nomenclature of disorders caused by electromagnetic waves of ultrahigh frequency"
796. KOLESNIK, F. A., & MALYSHEV, V. M. (1967) *Voенно-медицинский Zh. (USSR Military Medical J.)* 4(4):21-23, (Abstr. in: *Soviet Radiobiology*, ATD #68-105-108-9, June 1968, pp. 77-78; AD #671436), "The problem of clinical observation of injuries caused by SHF electromagnetic fields"
797. KOLESNIK, F. A., MALYSHEV, V. M., & MURASHEV, B. P. (1967) *Voенно-медицинский Zh. (USSR Military Medical J.)* 7(7):39-41, (Abstr. in: *Soviet Radiobiology*, ATD 68-105-108-9, June 1968, pp. 78-79; AD 671436), "Disturbances of the endocrine system by chronic action of a super-high-frequency microwave field"
798. KOLESNIKOV, V. M. (1969) *Izvestiya Vysshikh Uchebnykh Zavedeniy, Priborostroyeniye*, Russ., 12(7):9-12, (JPRS 49239), "New measurement techniques in studying the effect of superhigh frequency fields on biological subjects"
799. KOLIN, A. (1959) *Proc. of the 1st National Biophysics Conf.*, 1:125-137, "Sorting of macromolecules and micro-organisms by means of electromagnetic and electrokinetic phenomenon"
800. KOLIN, A. (1968) *Physics Today* 39-50 (Nov.), "Magnetic fields in biology"
801. KOLIN, A. (1969) *Final report, May 1960 - Aug. 1969. Univ. of Los Angeles, Calif. (NONR 233-(64), NR 136-505)*, "Electromagnetic separation of biological particles"
3516. KOLIN, A., BRILL, N.Q., & BROBERG, P.J. (1959), *Proc. Soc. Exp. Biol. & Med.*, 102():251-252, "Stimulation of irritable tissues by means of an alternating magnetic field."
2879. KOLIUNKH, G.D., et al. (1971), *Gig. Sanit.*, 36():113-114, (Nov.), (In Russ.), "Experimental unit for studying the biological effect of electromagnetic impulse fields (IEMP)".

2880. KOLODUB, F.A., & EVTUSHENKO* H.I. (1972), *Ukrains'kyi Biokhemicnyi Zhurnal* (Kiev), 44():307-311, (In Russ., w/Eng. summary), "Characteristics of nitrogen metabolism [NH₂ formation and removal] in the rat brain under the action of a low frequency [7 KHz] pulsed electromagnetic field." (* or YEVTUSHENKO)
2881. KOLODUB, F.A., & EVTUSHENKO* H.I. (1972), *Ukrains'kyi Biokhemicnyi Zhurnal* (Kiev), 44(4):492-496, (In Russ., w/Eng. abstr.), "Peculiarities of carbohydrate energy metabolism in rat brain under the effect of pulsed electromagnetic fields of low frequency." [7 KHz] (* or YEVTUSHENKO)
3518. KOLODUB, F.A., & YEVTUSHENKO, G.I. (1972), *Gigiena Truda i Professional'nyye Zabolevaniya*, (6): (Moscow), (in Russian), (Engl. transl. as JPRS #56583 (1972)), "Biochemical aspects of the biological effect of a low-frequency pulsed electromagnetic field."
3517. KOLODUB, F.A., & YEVTUSHENKO, G.I. (1972), *Vrachebnoe Delo Nauchnyi Meditsinskii Zhurnal*, 6():131-134, (in Russian), "Significance of some biochemical blood indices in early detection of lesions due to pulsed low-frequency electromagnetic fields."
3238. KOLODUB, F.A., & YEVTUSHENKO, G.I. (1972), *Vrachebnoye Delo*, ():131-134, (June 6), (In Russ.), "Significance of some biochemical blood indices in early detection of lesions due to pulsed low-frequency electromagnetic fields", [experiments with rats chronically exposed to 7 KHz radiation with pulses of 130 msec, 10 sec. between pulses].
3239. KOLODUB, F.A., & YEVTUSHENKO, G.I. (1973), *Ukrains'kyi Biokhemicnyi Zhurnal*, (3):356-361, [Trans. in "Effect of non-ionizing electromagnetic radiation, JPRS No. 62462, July 1974, (citation #3134, this Biblio.), pp. 6-13], "The effects of low frequency electromagnetic field pulses on skeletal muscle metabolism in the rat", [marked decrease in conc. of creatine phosphate].
3519. KOLODUB, F.A., & YEVTUSHENKO, G.I. (1974), *Gigiyena Truda i Professional'nyye Zabolevaniya*, (2):11-15, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 83-86, "Metabolic disorders and the liver function under the effect of a low-frequency pulsed electromagnetic field."
3240. KOLTA, P. (1973), *Acta Physiologica Academiae Scientiarum Hungaricae*, Tomus, 43(1):89-94, "Strong and permanent interaction between peripheral nerve and a constant inhomogeneous [static] magnetic field [of 580 Oe]".
802. KOMAROVA, L. A. (1967) *Voprosy Kurortologii Fizioterapii i Lechebnoi Fizicheskoi Kulturi* (1):9-13, "Mechanism of action of superhigh frequency magnetic fields (microwaves)"
2882. KOMAROVA, L.A. (1968), *Vop. Kurort. Fizioter.*, 33():503-506, (In Russ.), "Changes in arterial pressure and external respiration of animals when subjected to an ultra-high frequency electromagnetic field (microwaves)".
803. KONCHALOVSKAYA, N. M., KHMARA, S. N., & GLOTOVA, K. V. (1964) *Trudy Nii Gigiyena Truda i Profzabolevaniy AMN SSSR*, (2):114-118, (Abstr. in: *The Biological Action of Ultrahigh Frequencies*, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, JPRS 12471), "Condition of the cardiovascular system under the action of radio waves of various ranges"
3241. KONDRA, P.A. (1973), *Canadian J. of Animal Science*, 53(4):771, "Effects of microwaves on chickens".
2440. KONDRASHENKO, V.T., ONDZULIS, P.A., & KORPS, Ya.K. (1963), In: *Grenzach-Baden, Deutsche Hoffman - La Roche AG*, pp. 251-254, "A new method of electrosleep therapy".
3520. KONIG, H. (1971), *J. Interdiscipl. Cycle Res.*, 2(3):317-323, "Biological effects of extremely low frequency electrical phenomena in the atmosphere."
3521. KONIG, H.L. (1962), *Zeitschrift für angewandte Bader und Klimaheilkunde*, 9(5):481-501, (in German), (Transl: Air Force Cambridge Research Laboratories AF19(628)-3880, Jan. 1965, T-G-232), "Environmental effects of atmospheric electric processes of very low frequency."
804. KONIN, P. M., FRANKE, V. A., et al. (1960) In: *Elektronika v Meditsine*, Berg, A. I., (ed.), Moscow, Leningrad, (FTD-TT-63-1200, AD 600581), pp. 383-392, "Electronics and industrial safety"
2202. KOROVALIN, V. A., & VAINSHANOV, V. A. (1971) *Biophysica* 15(2):263-269, (In Russ.), "Dielectric parameters of human blood serum in the range of 1-30 Mc/sec"
805. KORBEL, S. (1966) Report, 4 pages, "Behavioral effects of ultrahigh frequency radio waves: abstracts"
806. KORBEL, S. F. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of sad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 180-184, "Behavioral effects of low intensity UHF radiation"
807. KORBEL, S. F., & PINE, H. L. (1967) *Psychonomic Science* 9(9):527-528, "Effects of low intensity UHF radio fields as a function of frequency"
808. KORBEL, S., & THOMPSON, W. D. (1955) *Psychological Reports* 17:595-602, "Behavioral effects of stimulation by UHF radio fields"
809. KORENEVA, L. G., & GAIDUK, V. I. (1970) *Doklady Akad. Nauk, USSR*, 193(2):465-468, "Resonance effects in hemoglobin resulting from irradiation with SHF electromagnetic waves are, in principle, possible"

3242. KOREPANOV, A.M. (1971), Vopr. Kurortol. Fizioter. Lech. Fiz. Kult., 36 ():340-343, (In Russ.), "Effect of inducto-thermy [HF] on pancreatic function".
3243. KOREPANOV, A.M., & BAZHENOVA, R.V. (1973), Kazan. Med. Zh., (6):79-80, (In Russ.), "Effect of electromagnetic fields [UHF or HF (13.56 MHz)] and paraffin applications on pancreatic secretion [increased]".
810. KORNER, H. J. (1967) Zentralblatt für Arbeitsmedizin und Arbeitsschutz (Frankfort am Main), 17:(12 pages), "Potential radiation hazard in radar installations"
811. KORSUN, G. S., & MIRKAYLOV, G. V. (1956) Voenno-meditsinskoy Zh. (9):32-36 (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD-P-65-68, Sept. 1965, pp. 4-5, "Clinical examination of radar-set operators"; also abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD-P-65-17, Apr. 1965), "Some problems concerning the physiological and clinical evaluation of people working on UHF generators"
812. KORIETLING, G. J., & BACH, S. A. (1964) Report No. 548, U. S. Army Medical Research Laboratory, Ft. Knox, Kentucky, (AD 443679), 14 pages, "Activity changes in alpha-amylase solutions following their exposure to radio-frequency energy"
2441. KORTING, G.W. (1970), Med Welt, 30:1359-1360, (In Germ.), (Abstr in: Biological Abstracts 52(11):6399, No.63803 (June 1, 1971)), "A report about two acute cases of physical skin damage", [One case, produced by a microwave apparatus, caused a burn on the masilla, which broke completely into the oral cavity in spite of treatment with cortisone and antibiotics].
813. KOSIERADZKI, K. (1936) Biochemische Zeitschrift 287:265-, "Investigations on the effect of shortwave radiation on enzymes; Report No. 1. Studies on diastase"
814. KOSLOV, S. (1969) Presented at the Hazards and Utility of Microwaves and Radiowaves Seminar, (Heller, J., Chm.), 11-12 Dec., Boston, "The U. S. - Soviet radiation gap"
815. KOSMAN, A. J., OSBORNE, S. L., & IVY, A. C. (1948) Arch. of Physical Med. 29:559-562, "Importance of current from and frequency in electrical stimulation of muscles"
2883. KOSUGI, Y., et al. (1973), Jap. J. of Med. Electron., 11():86-93, (In Jap. w/Eng. abstr.), "A technique of tissue coagulation by microwaves".
816. KOTTKE, F., KOZA, D., KUBICEK, W., & OLSON, M. (1949), Arch. of Physical Med., 30:431-437, "Studies of deep circulatory response to short wave diathermy and microwave diathermy in man."
817. KOUWENHOVEN, W. B., LANGWORTHY, O. R., SINGEWALD, M. L., & KNICKERBOCKER, G. G. (1967) IEEE Trans. on Power Apparatus and Systems 86(4):506-511, "Medical evaluation of man working in AC electric fields"
3244. KOVACH, R.I. (1973), Biomedical Engineering, 7():16-18, (Transl. of citation #2884, this Biblio.), "Temperature distribution with microwave heating for a two-layer model of a biological object".
2884. KOVACH, R.I. (1973), Meditsinskaya Tekhnika (USSR), 7(1):18-21, (Jan.-Feb.), "Temperature distribution with microwave heating for a two-layer model of a biological object".
818. KOVACS, R. (1935) Arch. of Physical Therapy 16:743-744, "Vacuum type wave generator of faradic and galvanic current"
2442. KOVACS, R. (1949), Lea & Febiger, 6th ed., rev. Phila., Electrotherapy and light therapy, with essentials of hydrotherapy and mechanotherapy.
819. KOVACS, R. (1951) Annals of Western Med. and Surgery (Los Angeles) 5:199-200, "Radar and ultrasound in therapy"
820. KOWLOWSKI, B. (1967) Klinika Oczna. Acta Ophthalmologica Polonica (Warszawa), 37:413-418, "Effect of electromagnetic and molecular radiation"
821. KOZENKO, G. (1942) Bulletin Eksperimental'noi Biologii i Meditsiny, Moscow, 13(3-4):57-59, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17, Apr. 1965), (In Russian) "Effect of URF on the function of denervated kidneys in the dog"
2443. KRAEMER, D.C., & MARK, H.M. (1966), In: First International Symposium on Electrotherapeutic Sleep and Electroanesthesia, Graz, Austria, (12-17 Sept.), "Effects of electroanesthesia on fetal EKG".
2013. KRAFT, D., EMZLICH, K., GUNTER, K., et al. (1967) Zentralbl. Chir. 92:Suppl:1799-, (In German) "Studies on the physical influences on implanted pacemakers"
2885. KRAMAR, P.O., EMERY, A.F., GUY, A.W., & LIN, J.C. (1973), IEEE G-MTT Internat. Microwave Symp. Digest, (abstract), pp. 265-267, (Jun.), "Theoretical and experimental studies of microwave induced cataracts in rabbits".
822. KRAMER, G. (1951) Die Vogelwarze 15(2):55-59, (GRC-TT-1162, N65-28590), "Experiments on the perception of ultrashort waves by birds"
823. KRASNYY-ERGEN, W. (1936) Hochfrequenztechnik und Elektroakustik, Jahrbuch der Drahtlosen Telegraphie und Telephonie 48:126-133, (In German) "Non-thermic effects of alternating electrical fields on colloids"
824. KRASNYY-ERGEN, W. (1937) Hochfrequenztechnik und Elektroakustik, Jahrbuch der Drahtlosen Telegraphie und Telephonie 49:195-199, (In German) "Field effects with very short waves; spontaneous alternating fields"

2014. KRAZING, C. C. (1951) *Biochem. J.* 50:253-257, "Metabolic effects of electrical stimulation of mammalian tissues in vitro"
825. KREBS, J. S. (1968) NRDL-TR-68-104, Sept. (AD 677924), "Analysis of the radiation-induced loss of testes weight in terms of stem cell survival"
2886. KRESCH, E., SHER, L.D., & SCHWAN, H.P. (1970), *Proc. of the Fed. of Amer. Societies for Exper. Biol.*, ___(): pps 7, 953, (Physiology Program, ACR-175, 1971), "Transient behavior of pearl-chain formation with implications for exposure of man to pulsed, electromagnetic radiation".
826. KRICHAGIN, V. I. (1962) In: Summaries of Reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Academy, Leningrad, "Practical points in standardization of microwave radiation fields"
2887. KRIPPNER, S., & RUBIN, D. (eds.) (1973), Galaxies of Life: The Human Aura in Acupuncture and Kirlian Photography, Gordon & Breach Publishers (Interface Book), New York, 182 pages.
2203. KRITIKOS, B. N., & SCHWAN, H. P. (1972) *Inst. of Electrical & Electronics Engineers, Trans. on Biomed. Eng.* EM-19(1): 53-58, "Hot spots generated in conducting spheres by electromagnetic waves and biological implications"
827. KROTOV, A. V., GAYSINSKIY, B. YE., KAL'KAYEV, M. Z., & MININA, L. A. (1967) *Meditinskaya Tekhnika* (4):52-54, (Abstr. in: ATD 68-105-108-9 Soviet Radiobiology, June 1968, p. 79 only; AD 671436), "Application of an ultra-high-frequency magnetic field in radiculitis"
3522. KRUEGER, A.P., & REED, E.J. (1975), Rept. from Univ. of California, Berkeley, 10 July, "A study of the biological effects of certain ELF electromagnetic fields."
2888. KRUEGER, W.F., et al. (1972), *Biomedical Sciences Instrument.*, 9():183-186, "Influence of low-level electric and magnetic fields on the growth of young chickens".
2889. KRUEGER, W.F., & GIAROLA, A.J. (1972?), Ref. 7, "Safe guide of exposure to the EM pulse".
3523. KRUMPE, P.E., & TOCKMAN, M.S. (1972), Naval Medical Research Unit No. 4 (Great Lakes, IL), Tech. Rept., (Dec.), "Evaluation of the health of personnel working near Project SANGUINE Beta Test Facility from 1971 to 1972."
828. KRUSEN, F. H. (1935) *J. of the Amer. Medical Assoc.* 104:1237-1239, "Short wave diathermy: preliminary report"
2444. KRUSEN, F.H. (1941), W. B. Saunders Co., Phila., Physical Medicine, the Employment of Physical Agents for Diagnosis and Therapy.
829. KRUSEN, F. H. (1950) *Proc. of the Royal Society of Med.* 43:641-658, "Medical applications of microwave diathermy: laboratory and clinical studies"
830. KRUSEN, F. H. (1951) *Arch. of Physical Med.* 32:695-698, "New microwave diathermy director for heating large regions of the human body"
831. KRUSEN, F. H. (1956) *Institute of Radio Engineers Trans. on Medical Electronics*, PGME-4:3-4, (From Symposium on Physiologic and Pathologic Effects of Microwaves, Krusen, F. H., Chn., Sept. 1955), "Address of welcome, Session I, Problems which are challenging investigators"
832. KRUSEN, F. H., HERRICK, J., LEDEN, W., & WAKIM, K. (1947) *Proc. of Staff Meeting of the Mayo Clinic* 22:209-234, "Preliminary report of experimental studies of heating effect of microwaves (radar) in living tissues"
2890. KRUSEN, F.H., KOTKE, F.J., & ELLWOOD, P. (eds.), (1971), W.B. Saunders Co., Phila., Handbook of Physical Medicine and Rehabilitation.
833. KRUSTANOV, L., & GOSHEV, K. (1966) *Voenno Meditsinsko Delo* (4):41-46, "The peripheral blood characteristics of personnel exposed to a superhigh frequency electromagnetic field"
834. KRYLOV, V., & SOLOVEY, A. P. (1951) *State Sci. Tech. Pub. House, Moscow*, 17 pages, (FTD-TT-62-339/1+2+4, Nov. 1962; AD 292611), Safety Measures Recommended for Work on Radio-Frequency Generator Installations
2445. KUCIA, H.R. (1972), *IEEE Trans. on Instrumentation and Measurement*, IM-21(4):412-415, "Accuracy limitation in measurements of HF field intensities for protection against radiation hazards".
2446. KUCIA, H.R. (1972), Presentation to XVIIth General Assembly of URSI, (Int'l. Union of Radio Science), (21-29 Aug.), Warszawa, Poland, "Electromagnetic radiation safety in Poland".
835. KULAKOVA, V. V. (1964) *Trudy Nil Gigiena Truda i Profzaboleaniya AN SSSR*, (Biological Effects of Radio Frequency Electromagnetic Fields, Inst. of Industrial Hygiene and Occupational Diseases, Academy of Medical Sci., USSR), Moscow, (2):70-74, "The effect of microwaves in the centimeter and decimeter range on the general and specialized patterns of appetite in animals"
836. KULAKOVA, V. V. (1966) In: *Konferentsiya molodykh nauchnykh rabotnikov* (Report summaries, Conf. of Young Scientific Workers), Moscow, *Tezisy dokladov*, pp. 73-74, (Abstr. in: ATD 68-105-108-9 Soviet Radiobiology, June 1968, p. 80 only, AD 671436), "Methods for investigating electrolyte requirements and their content in blood and urine in studying the biological effects of microwaves"
837. KULIK, J. J. (1963) *Final Report Federal Aviation Agency* (No. RD-64-1), (AD 435491), "Microwave radiation hazard to aircraft transiting radio and radar beams"

838. KULIKOVSKAYA, YE. L. (1961) In: Materials of the Scientific Session Concerned with the Results of Work Conducted by the Leningrad Institute of Industrial Hygiene and Occupational Diseases for 1959-1960, Leningrad, "The problem of microwave radiation of ship crews of the civil ocean fleet"
839. KULIKOVSKAYA, YE. L. (1962) In: Summaries of reports, Questions of the Biological Effect of an SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, "Effects of high frequency electromagnetic fields (medium and short wave lengths) on Navy ships crews"
840. KULIKOVSKAYA, YE. L. (1963) Gigiyena Truda i Professional'nyye Zabolevaniya (Labor Hygiene and Occupational Diseases), Moscow, (2):24-27, (JPRS 19,068, OTS 63-21756, May 1963, pp. 1-5), (In Russian), "Ultra-high frequency electromagnetic waves on the decks of merchant ships"
841. KULIKOVSKAYA, YE. L. (1968) Gigiyena Truda i Professional'nyye Zabolevaniya (Moskva) (5):22-28, "Shielding radio operators on sea-going vessels from MF-LF radiation"
842. KULIKOVSKAYA, YE. L. (1970) Izd-vo "Sudostroyeniye", Leningrad, 152 pages, (JPRS 52622, Mar. 1971), (In Russian), (Zashchita ot Deystviya Radiovoln) Protection from the Effect of Radio Waves (in the maritime industry)
2015. KULIKOVSKAYA, E. L., & OSIPOV, J. A. (1960) Gigiyena truda 5:3-7, (In Russian) "Electromagnetic fields in work areas where high-frequency heating is employed"
843. KULIN, YE. T. (1965) In: Papers on the Physicochemical Basis of Autoregulation in Cells, Moscow, pp. 26-, "Concentration and radio-frequency dependence of autoregulation of functions of unicellular organisms (paramecia)"
DEMIDOVA, S.I., & KASIMENKO, V.B.
844. KULIN, YE. T. (1968) Biofizika 13(1):81-85, "Dependence of the phagocytic function of paramecia on the frequency and intensity of the electromagnetic field"
845. KULIN, YE. T., & MOROZOV, YE. I. (1964) Doklady Akademii Sci. BSSR, 8(5):329-331, "The effect of decimeter wavelength radiation on the physiological functions of one-celled organisms"
846. KULIN, YE. T., & MOROZOV, YE. I. (1965) Vestnik Akademii Nauk BSSR, Ser. Biologich, Nauk -(4):91-, "Some features of the effect of electromagnetic fields of the SHF range on the phagocytic function of paramecia"
847. KUPALOV, P. S., & FRENKEL, G. L., (Eds.), (1937) (In Russian), All Union Inst. of Experimental Medicine, Moscow, 471 pages, The Biological Action of VHF-HF-Ultrashort Waves
2204. FURZ, G. W., & EINAUGLER, R. B. (1966) Amer. J. of Ophthal. 66:866-869, (A69-80371), "Cataract secondary to microwave radiation"
848. KUSSEL, G. (1949) Ophthalmologica (Basel), 177:299-, "Late form of electrical cataract case"
849. KUSABAYASHI, S., LARONGE, T. M., & LABES, M. M. (1967) Report (10 pages), June-Dec., (NASA, CR-91523), (N68-13316), "Mechanisms for the effects of electric and magnetic fields on biological systems"
2891. KUTTIG, H. (1965), Med. Klin., 57(1):1577-1579, (14 Sep.), (In Ger.), "Physical heat therapy in the radiation field with decimeter waves"
2447. KUZIN, M.I., LIVENTSEV, N.M., ZHUKOVSKIY, V.D., & SACHKOV, V.I. (1966), Uzbek Medical Publishing House, 172 pps. (JPRS 43,214), Electronarcosis in Surgery.
2448. KUZIN, M.I., ZHUKOVSKIY, V.D., & SACHKOV, V.I. (1963), Experimentelle chirurgie und anesthesiologie, (5):57-61, (NASA TT-F-9346), "The use of interference currents in the combined elimination of pain in surgical operations"
850. KYLEN, A. M., et al. (1964) J. of the Amer. Dietetic Assoc. 45:139-145, "Microwave and conventional cooking of meat"
651. KYUNTSEL', A. A., & KARMILOV, V. I. (1947) Klinicheskaya Meditsina, Moscow, (24), "The problem concerning the effect of electromagnetic fields on the blood coagulation rate"
2205. LABES, M. M. (1970) Final Report on NASA Grant NGL 39-014-915, June 1967 - Sept. 1970, (N71-12313 to N71-12324), (CR-111582), 83 pages, Drexel Univ., Chemistry Dept., Philadelphia, Pa., "Mechanisms for the effect of electric and magnetic fields on biological systems" (collection of papers by LABES, et al.)
852. LACEY, B. A., WINNER, H. I., & McLELLAN, M. E. (1965) J. of Applied Bacteriology 28:331-335, "Effects of microwave cookery on the bacterial count of food"
853. LaFOND, C. (1959) Missiles and Rockets (?:)20-, (14 Dec.) "Microwave 'hazards' are exaggerated"
854. LAIRD, E. (1952) Canadian J. of Physiology 30:663-, "Dielectric properties of some solid proteins at wavelengths of 1.7 m and 3.2 cm"
855. LAIRD, E., & FERGUSON, K. (1949) Canadian J. of Research, A, 27:218-230, "Dielectric properties of some animal tissues at meter and centimeter wave lengths"
2892. LAMASTER, F.S. (1970), In: Proc. of the 4th Annual Midyear Topical Symposium, the Health Physics Soc., Louisville, KY, 28-30 Jan.; Bureau of Radiological Health, U.S. Dept. of Health, Education & Welfare, Rept. No. BPH/DEP 70-26, (Oct.), pps. 420-422, "Equipment surveys for RF radiation hazards"
2893. LAMBERT, P.D., NEALEIGH, R.C., & WILSON, M. (1972), J. of Microwave Power, 7(4):367-380, "The effects of microwaves exposures on the central nervous system of beagles"

856. LANG, O., & KOLLER, G. (1956) Zentn. Arbeitsmed. Arbeitsschutz 6:13-, (In German) "Protective measures for working spaces in high frequency installations"
3524. LANG, S. (1970), Dissertation--Universitat des Saarlandes, (in German), "Investigation on the behavioral, physiological and metabolic physiological effects of the Faraday screening and of artificial atmospheric electrical direct and alternating fields on white mice (*Mus musculus*)."
3525. LANG, S. (1972), Arch. Met. Geoph. Biokl. (Ser. B), 20():109-122, (In German), "The metabolic and physiological effects of Faraday screening and of an artificial air electric field of a frequency of 10 Hz on white mice."
857. LANTSMAN, M. N. (1965) Trans., Scientific Conf., Central Science Lab. IOMSK, (2):360-362, "The effect of an alternating magnetic field on the phagocytic function of the reticulo endothelial system in experimentation"
2894. LAPPENBUSCH, W. (1972), Presented at the Health Physics Meeting, Las Vegas, Nevada, June 12-17, "Effects of joint microwave and x-ray stress on the Chinese hamster".
2449. LAPPENBUSCH, W.L., GILLESPIE, L.J., LEACH, W.M., & ANDERSON, G.E. (1973), Radiation Research, 54(2):294-303, (May), "Effect of 2450 MHz microwaves on the radiation response of X-irradiated Chinese hamsters."
2895. LAPSHIN, V.P., POKROVSKY, G.A., FEDOROV, B.A., BOCHAROV, B.G., & TKACHENKO, B.N. (1973), Eksperimental'naiia Khirurgiia i Anesteziologiya (Moskva), 18():63-65, (In Russ. w/Engl. abstr.), "The influence of alternating [ELF] magnetic field on the [rat] brain, used as an anti-shock measure", [3-18 Hz stimulated bioelectrical activity of brain following severe burn (80-90% body surface)].
858. LARKIN, C. R. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:47-51, "Hazards of electromagnetic radiation to ordnance"
859. LaROCHE, L. P., ZARET, M. M., & BRAUN, A. F. (1970) Arch. of Environmental Health 20:350-355, "An operational safety program for ophthalmic hazards of microwaves"
2896. LARSEN, L.E. (1973), 1973 IEEE G-MTT Internat. Microwave Symposium Digest of Technical Papers, pp. 262-264, "An RF decoupled electrode for measurement of brain temperature during microwave exposure".
2897. LARSEN, L.E., MOORE, R.A., & ACEVEDO, J. (1974), IEEE Trans. on Microwave Theory & Techniques, MTT-22(4):438-444, (Apr.), "A microwave decoupled brain-temperature transducer".
2206. LASNEY, J. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRH/DBE 70-7), p. 167 only, "Lethal dose of 2450 MHz microwave irradiation at various power densities in the Sprague-Dawley rat (A preliminary report)"
2207. LASNEY, J., DAVES, D., & EVES, M. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRH/DBE 70-7), pp. 167-173, "Progress report on 2450 MHz irradiation of pregnant rats and the effect on the fetus"
2208. LATTES, R. G., & BRECHER, S. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRH/DBE 70-7), pp. 229-232, "Microwave irradiation of peripheral leukocyte cultures without average temperature rise of culture medium"
2898. LAVINE, L. (1973), To be presented at Symp. on "The Injured Child", Session entitled "Special Problems of Childhood Injuries", 26-28 Sept., Vanderbilt Univ., "Electrical stimulation of congenital bone defects".
2899. LAVINE, L.S., LUSTRIN, I., SHAMOS, M.H., & MOSS, M.L. (1971), Acta Orthop. Scandinav., 42():305-314, "The influence of electric current on bone regeneration *in vivo*".
2900. LAVINE, L.S., LUSTRIN, I., SHAMOS, M.H., RINALDI, R.A., & LIBOFF, A.R. (1972), Science, 175():1118-1121, (10 Mar.), "Electric enhancement of bone healing", [using D.C., in human tibia].
860. LAVRENTIEVA, B. I., & FEDOROV, B. G. (1937) Sbornik Bio. Deistvii, UHF, Moscow, pp. 145-, (Abstr. in: Biological Effect of Ultrahigh Frequencies Symposium, Moscow; also Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, AID Rpt. P-65-17, Apr. 1965), "Observations on live synapses under the action of UHF on the frog's heart"
861. LAWRENCE, J. C. (1968) British J. of Industrial Med. 25:223-228, "Effect of microwaves at X-band on guinea pig skin in tissue culture. Part I. Microwave apparatus for exposing tissue and the effect of radiation on skin respiration"
862. LAWRENCE, J. C. (1969) Non-Ionizing Radiation 1(2):80-84, "Effect of pulsed microwaves at X-band on skin metabolism"
863. LAWRENCE, L. G. (1969) Electronics World 82(4):25-28, "Electronics and the living plant"
864. LAWRENS, L., SIMS, B., KOSMAN, P., STAFFORD, L., & OSBORNE, M. (1948) Arch. of Physical Med. 29:12-, Title?
865. LAZAREV, P. P. (1935) Klinicheskaia Meditsina, Moskva, 13(11):1533-1590, "Theory of the action of short and ultrashort waves"
2901. LAZAROVICH, V.G. (1970), Bull. Eksp. Biol. Med., 70():44-46, (Oct.), (In Russ.), "Effect of VHF electromagnetic fields on the content of iron, copper, and some metalloproteins in the blood and tissues".
3526. LAZAROVICH, V.G., & GRITSULYAK, B.V. (1975), Nauchnyye Doklady Vysshey Shkoly, Biologicheskiye Nauki, (3):39-42, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), 7 Jan. 1976, pp. 19-24, "Influence of super high-frequency electromagnetic fields on the capillary bed, parenchyma, and some biochemical properties of rat testes."

2259. LAZARUS, E. D., & LEVEDAHL, B. H. (1952) U. S. Atomic Energy Commission, Rept. No. TID-3912 (Biol. & Med.), Esp. section 10. (Microwaves, pp. 431-451), Effects of Radiation on the Mammalian Eye: A Literature Survey

866. LAZELL, J. A. (1960) Health Physics 15:525-, "Radiation Control for Health and Safety Act of 1968"

2902. LEACH, W.M. (1973), In: Fifth Annual National Conf. of Radiation Control, Portland, Oregon, May 6-10, Dept. of Health, Education & Welfare Pub. No. FDA 74-8004, (Oct.), "Biological research for consumer product safety seminar: Microwave ovens".

867. LEARY, F. (1959) Electronics 32(8):49-53, "Researching microwave health hazards"

868. LEAVY, I. M. (1935) Arch. of Physical Therapy 16:145-149, "Physical therapy in chronic diseases: With special reference to peripheral vascular disease and ulcerations" [diathermy]

869. LEBEDINSKIY, A. V. (1937) In: Materials of the Leningrad Conf. on VLF-HF Waves, Leningrad, pp. 45-54, "The physiological mechanism involved in the action of VLF-HF on the organism of animals and man"

870. LEBEDINSKIY, A. V. (1940) Pervoye soveshchaniye po voprosam primeneniya KV i UKV v meditsine. Trudy. (Trans. of the 1st Conf. on problems of the applications of shortwaves and ultrashort waves in medicine) Medgiz, pp. 121-129, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, Apr. 1965), Title? [Discusses the exposure of humans to UHF electromagnetic fields]

2450. LEBOVITZ, R.M. (1972), The Rand Corp. Rept. R-983-RC, 28 pps., "The sensitivity of portions of the human central nervous system to 'safe' levels of microwave radiation".

3245. LEBOVITZ, R.M. (1973), IEEE Transactions on Biomedical Engineering, BME-20(2):119-126, "Caloric vestibular stimulation via UHF-microwave irradiation".

2903. LEBOVITZ, R.M. (1973), J. of Theoretical Biology (London), 41():209-221, "Significance of microthermal effects derived from low level UHF-microwave irradiation of the head: Indirect caloric vestibular stimulation".

2904. LECHOWICH, R.V. (1969), Appl. Microbiol., 17():106-110, (Jan.), "Procedure for evaluating the effects of 2,450 MHz microwaves on Streptococcus faecalis and Saccharomyces cerevisiae".

871. LEDEN, U. M., HERRICK, J. P., WAKIM, K. G., & KRUSEN, P. H. (1947) British J. of Physical Med. 10:177-184, "Preliminary studies on the heating and circulatory effects of microwaves - 'Radar'"

2905. LEEELIEVELD, H.L. (1969), Lab. Practice, 18():165-166, (Feb.), "The microwave oven as a tool in microbiology".

2906. LEHMANN, J.F. (1971), In: Handbook of Physical Medicine and Rehabilitation, (KRUSEN, P.H., et al. (eds.)), W.B. Saunders Co., Phila., Chapt. 11, pp. 299-327, "Microwave diathermy".

2907. LEHMANN, J.F., et al. (1965), Arch. of Physical Med. & Rehab., 46():307-312, "Comparison of deep heating by microwaves at frequencies of 2456 and 900 megacycles".

2451. LEHMANN, J.F., DeLATEUR, B.M., & STONEBRIDGE, J.B. (1969), Arch. of Phys. Med., 50:117-123, (Mar.), "Selective muscle heating by shortwave diathermy with a helical coil".

2452. LEHMANN, J.F., GUY, A.W., DeLATEUR, B.J., STONEBRIDGE, J.B., & WARREN, C.G. (1968), Arch. of Phys. Med., 49:193-198, (Apr.), "Heating patterns produced by short-wave diathermy using helical induction coil applicators".

872. LEHMANN, J. F., GUY, A. W., JOENSTON, V. C., BRUNNER, C. D., & BELL, J. W. (1962) Arch. of Physical Med. 43:69-76, "Comparison of relative heating patterns produced in tissues by exposure to microwave energy at frequencies of 2,450 and 900 megacycles"

873. LEHMANN, J. F., et al. (1964) Arch. of Physical Med. 45:555-563, "Modification of heating patterns produced by microwaves at the frequencies of 2456 and 900 MC by physiologic factors in the human"

2453. LEHMANN, J.F., GUY, A.W., WARREN, C.G., DeLATEUR, B.J., & STONEBRIDGE, J.B. (1970), Arch. of Phys. Med., 51:143-146 and 151, (Mar.), "An evaluation of a microwave contact applicator".

3246. LEHMANN, J.F., STONERRI, J., WARREN, C.G., & DeLATEUR, B.J. (1974), Archives of Physical Medicine & Rehabilitation, 55(5):213-217, "Muscle heating produced in hog specimens by microwaves at 915 and 433.92 MHz".

874. LEITES, P. L., & SKUREKHINA, L. A. (1961) Bulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 52(12):47-50, (Bulletin of Experimental Biology and Med. 52(12):1387-1390, 1961), (TID-TT-62-277, AD 281169), (In Russian), "The effect of microwaves on the hormonal activity of the adrenal cortex"

875. LENKO, J., WANIEWSKI, Z., & WOCEGA, Z. (1966) Polski Tygodnik Lekarski 39(21):1475-1477, "Studies of the effects of microwaves of low power flux density on the testicles of rabbits"

876. LENNAN, I. (1931) Arch. of Physical Therapy 12:143-, "The heating effect of short radio-waves"

3527. LENOX, R.H., GANDHI, O.P., MEYERHOFF, J.L., & GROVE, H.M. (1976), IEEE Transactions on Microwave Theory & Techniques, MTT-24(1):58-61 (Jan.), "A microwave applicator for in vivo rapid inactivation of enzymes in the central nervous system."

877. LENSON, P., HERRICK, J., & KRUSEY, F. (1950) Arch. of Physical Med. 31:687-695, "Temperatures produced in bone marrow, bone, and adjacent tissues by diathermy: experimental study"
2908. LEONARD, P.F., RESTALL, C.J., TASWELL, H.F., et al. (1971), Anesthesia and Analgesia, 50():302-305, "Microwave warming of bank blood".
878. LEOSTOVICH, A. V. (1937) *Fiziologicheskoy Zh. SSSR, Sechenov*, 22(3,4):377-385, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, Apr. 1965), "The problem of nerve excitation"
2016. LEPESCENTU, W. W. (1948) *Biochem. Z.* 318:15-43, (In German) "Electrical short waves and serum proteins"
3528. LEPOFF, J.H. (ed.) (1975), Digest of Tech Papers, Internat. Microwave Symposium sponsored by IEEE, 377 pps., "Microwaves in service to man," held in Palo Alto Calif., May 12-14, 1975.
892. LERMAN, S. (1962) N. Y. State J. of Medicine 62(19):3075-3085, "Radiation cataractogenesis" [ionizing and non-ionizing radiation] (Out of place, should follow citation #878)
3529. LESZCZYNSKI, B. (1973), *Wiad. Lek.*, 26():149-153 (Jan.), (in Polish), "The effect of amplitudes of fluctuations of magnetic field intensity on the frequency of accidents at work in the light of own investigations."
879. LETAVET, A. A., & GORDON, Z. V., (Eds.) (1960) Institute of Labor Hygiene and Occupational Diseases, Acad. of Medical Science, USSR, Moscow, 142 pages, (JPRS 12,471, 1962), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, Apr. 1965), The Biological Action of Ultrahigh Frequencies
880. (LETAVET, A. A., & GORDON, Z. V., ?), (1960) In: The Biological Action of Ultrahigh Frequencies, Letavet, A.A., & Gordon, Z. V., (eds.), pp. 123-125, (JPRS 12471, 1962); (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, Apr. 1965), "Recommendations for conducting preliminary and periodic medical examinations of workers using UHF sources"
3530. LETAVET, A.A., & GORDON, Z.V. (eds.) (1968), Proceedings of the Laboratory of Electromagnetic Radiofrequency Fields of the Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Sciences USSR, No. 3, Moscow, "Biological effects of electromagnetic radio frequency fields." [unable to verify]
881. LEVITINA, N. A. (1964) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)*, 58(7):67-69, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, 1965, p. 44 only, "Effect of pulsed UHF on cardiac rhythm"), (Also abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt. P-65-17, Apr. 1965), "Effect of microwaves on cardiac rhythm of rabbits during local irradiation of body areas"
882. LEVITINA, N. A. (1966) Author's abstr. of Candidate's Dissertation, Moscow, "An investigation of the nonthermal action of microwaves on the heart rate"
883. LEVITINA, N. A. (1966) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)*, 62(12):64-66, "Nonthermal action of microwaves on the cardiac rhythm of the frog"
2909. LEVY, D.D. (1971), *J. of the Electrochem. Soc.*, 118():1438-1442, "Induced osteogenesis by electrical stimulation".
2910. LEVY, H. (1961), *Western Medicine*, 2():246,248,250, (Jun.), "Pulsed short wave in sinus and allied conditions in childhood".
2210. LEYTES, F.L., & SKURIKHINA, L.A. (1961), *Biull. Eksp. Biol. Med.*, 52(12):47-50, "The effect of microwaves on the hormonal activity of the adrenal cortex," (FTD-TT-62-277/1+2+4, Transl. of WP-AFB, Ohio, 27 Apr. 1962).
2911. LI, J., & NEURATH, P.W. (1969), *IEEE Trans. on Bio-Med. Engineering*, BME-16(1):96-98, (Jan.), "Electric and magnetic fields near a circular loop at 27 MHz", [and discussion of absorption of the energy by biological tissue].
2017. LI, I-C. (1961) *Chinese J. of Surgery* (11):783-784, (JPRS 44,037), "Study on treatment of abscess and cellulitis with ultra short waves"
884. LIBBER, L. M. (1970) *Bioscience* 20(21):1169-1170, "Extremely low frequency electromagnetic radiation biological research"
2454. LIBBER, L., & ROZZELL, T.C. (1972), *Naval Research Reviews*, (Feb.), pp.1-11, "A study of the possible biological effects of (Project) SANGUINE", [At frequencies below 100 Hz].
2211. LIBFEN, P. (1936) *Biology and Therapy*, Moscow, "Short and ultrashort waves"
885. LICHT, S. H. (Ed.) (1958, *Physical Medicine Library*, Vol. 2); (1967, Vol. 4, 2nd Edition), E. Licht, pub., New Haven, Conn., Vol. 2, Therapeutic Heat and Cold; Vol. 4, Therapeutic Electricity and Ultraviolet Radiation
886. LICHT, S. H. (1967) Chapt. 1 in: Therapeutic Electricity and Ultraviolet Radiation, *Physical Medicine Library*, Vol. 4, 2nd Edition; E. Licht, pub., New Haven, Conn., pp. 1-70, "History of electrotherapy"
887. LICHTER, I., BORRIE, J., & MILLER, W. M. (1965) *British Medical J.* 1(5449):1513-1518, "Radio-frequency hazards with cardiac pacemakers"

2016. LICHTLEN, P. (1966) Schweiz Med Wochenschr 96:667-, "Disturbances of cardiac pacemaker by radio frequency currents"
888. LIDMAN, B. I., & COHN, C. (1945) Air Surgeons Bulletin 2:448-449, "Effects of radar emanations on the hematopoietic system"
889. LIEBESNY, P. (1934) Abstr. of the 1st Internat. Congress of Electro-Radio-Biology, (Licunio Cappelli, ed., Bologna, Italy), pp. 369-382, (In German with English Summary), "Biological effects of Hertzian shortwaves"
890. LIEBESNY, P. (1935) Urban and Schwarzenberg, pub., Vienna, (Book Review in: Arch. of Physical Therapy 16:306 only, 1935), Short and Ultrashort Waves in Biology and Therapy
891. LIEBESNY, P. (1938) Arch. of Physical Therapy 19:736-740, "Athermic short wave therapy"
893. LIKHTERMAN, B. V. (1933) Byull. Gosudarstvennogo Tsentral'nogo Instituta imeni Sechenova, (Bull. of the State Central Institute of Sechenova), 8(10): "The effect on attending personnel of work with high frequency electromagnetic equipment"
894. LIKHTERMAN, V. B., BORODINA, M. A., LINCHENKO, V. M., & ORLOV, L. M. (1936) Sevastopol'. Gosudarstvennyy Tsentral'nyy Nauchno-issledovatel'skiy Institute Zicheskikh Metodov Lecheniya. Izvestiya 3(3, 4):pp. ?, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17, Apr. 1965), "The therapeutic use of short waves"
3247. LIN, J.C. (1974), The J. of Microwave Power, 9(2):63-67, (June), "A cavity-backed slot radiator for biological effects research".
3531. LIN, J.C. (1975), IEEE Transactions on Biomedical Engineering, 22(1):74-76, "Microwave properties of fresh mammalian brain tissue at body temperature."
3248. LIN, J.C. (1975), IEEE Trans. on Electromagnetic Compatibility, EMC-17(2):93-97, (May), "Interaction of electromagnetic transient radiation with biological materials".
2912. LIN, J.C., GUY, A.W., & JOHNSON, C.C. (1973), IEEE Transactions on Microwave Theory & Techniques, MTT-21(12):791-797, "Power deposition in a spherical model of man exposed to 1-20 MHz electromagnetic fields".
2913. LIN, J.C., GUY, A.W., & KRAFT, G.H. (1973), J. of Microwave Power, 8(3/4):275-286, "Microwave selective brain heating".
3249. LIN, J.C., & LI, C.F. (1971), J. of Microwave Power, 6(1):45-48, "Microwave sterilization of oranges in glass-pack".
3532. LIN, J.C., WU, C-L., & LAM, C.K. (1975), Proceedings of the IEEE (Proceedings Letters), ():1726-1727 (Dec.), "Transmission of electromagnetic pulse into the head."
895. LINDEMANN, A., et al. (1964) Zeitschrift fur Gesamte Innere Medizin und ihre Grenzgebiete, Leipzig, 19:705-711, "Effect of short waves on some functions of the liver"
896. LINDQUIST, R. J. (?) Reference?, 20 pages, "Short wave diathermy"
897. LINDQUIST, R. J. (?) Reference?, 19 pages, "Galvanism"
898. LINKE, C. A., LOUNSBERRY, W., & GOLDSCHMIDT, V. (1962) J. of Urology 88(2):303-311, "Effects of microwaves on normal tissues"
899. LION, K. S. (1947) Arch. of Physical Med. 28:344-347, "The effect of the presence of metals in tissues subjected to diathermy treatment"
2914. LITVINOVA, L.I. (1972), Vrachebnoe Delo Nauchnyi Meditsinskii Zhurnal, 6():137-139, (In Russ., w/Engl. summary), "An experimental study of the biological effect of a low intensity, short-wave electromagnetic field".
3533. LIU, L.M., ROSENBAUM, F.J., & PICKARD, W.R. (1975), Rept. from Washington Univ., St. Louis, MO, "The relation of teratogenesis in Tenebrio molitor to the incidence of low level microwaves" [200 microwatts in a waveguide].
900. LIVANOV, M. N. (1944) Academy of Medical Sciences, USSR, (Biol.) (6), "Cerebral cortex electrical reactivity curves for man and animal under normal and pathological conditions"
901. LIVANOV, M. N. (1960) Bulletin Eksperimental'noi Biologii i Meditsiny (Moskva) 49(5):478-481, "Influence of electromagnetic fields on the electrical activity of rat cerebral cortex"
902. LIVANOV, M. N., TSYPIN, A. B., GRIGORY'EV, YU. G., KRUSHCHEV, V. G., STEPANOV, S. M., & ANAN'YEV, V. M. (1960) Bulletin Eksperimental'noi Biologii i Meditsiny (Moskva) 49(5):63-67, "The effect of electromagnetic fields on the bioelectric activity of cerebral cortex in rabbits"
903. LIVENSON, A. R. (1959) Novosti Meditsinskoi Tekhniki, USSR, (1):31-44, (JPRS 9409), "The use of SHF-UHF electromagnetic fields in medicine"
904. LIVENSON, A. R. (1960) (In Russian) In: Electronics in Medicine (Elektroniki v Meditsin), A. I. Berg. (ed.), Moscow, Leningrad, pp. 233-238, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "High frequency therapeutic apparatus"
905. LIVENSON, A. R. (1960) Meditsinskaya Gazeta Navy USSR (5):57-63, "The use of microwaves in physiotherapy (The Luch 58 Apparatus)"

906. LIVENSON, A. R. (1962) Proc. of the 2nd All-Union Conf. on the Use of Radioelectronics in Biology and Medicine, Moscow, pp. 25-, "Dosimetric methods in microwave therapy"
907. LIVENSON, A. R. (1963) Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Meditsinskikh Instrumentov Oborudovaniia 3:12-, "Dosimetric methods in centimeter and decimeter-wave therapy"
908. LIVENSON, A. R. (1963) Meditsinskaya Promyshlennost, USSR Med. Industry, (11):10-17, (JPRS 23167, N64-14920), "Dosimetry methods in microwave and decimeter wave therapy"
909. LIVENSON, A. R. (1964) Voprosy Kurortologii Fizioterapii i Lechebnoi Fizicheskoi Kulturi (5):450-, "Questions of occupational hygiene relating to the operation of equipment for microwave therapy"
910. LIVENSON, A. R. (1964) Meditsinskaya Promyshlennost, USSR Med. Industry, 18(6):14-20, (JPRS 26191, TT-64-41450, N64-28092), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), (Also in: Biological Effects of Microwaves, Compilation of Abstracts, ATD P-65-68, 1965, pp. 82-90), "Electrical parameters of biological tissue in the microwave range; Part 1"
911. LIVENSON, A. R. (1964) Meditsinskaya Promyshlennost, USSR Medical Industry, 18(7):10-17, (JPRS 26429, TT-64-41687), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Electrical parameters of biological tissue in the microwave range; Part 2, Methods of gauging electrical parameters of biological tissue"
912. LIVENSON, A. R. (1966) Meditsinskaya Promyshlennost, USSR Medical Industry, (10):17-24, (Transl. by Transl. Div., Foreign Technology Div., WP-AFB, Ohio, Document # FTD-HT-23-232-68, May 1968), (In Russian) "Determination of the coefficient of reflection for multilayered systems of biological tissues in the microwave range"
913. LIVENSON, A. R., & FRENK, A. A. (1966) Meditsinskaya Promyshlennost, USSR Medical Industry, 20(4):18-24, (JPRS 36332, July 1966), "On the problem of dosimetry of the energy of decimetric waves"
914. LIVENSON, A. R., & GATRILIN, V. A. (1964) Section in: Recent Developments in Medical Instruments, State Sci. Inst. Sci. Tech. Info., Moscow, (JPRS 25587, TT-64-31859, N64-30396), "An apparatus for synchronized treatment of biological objects with modulated microwaves (Sinkhroimpuls)"
3534. LIVESAY, D.E., & CHEN, K.M. (1974), IEEE Trans. on Microwave Theory and Techniques, MTT-22(12):1273-1280, "Electromagnetic fields induced inside arbitrarily shaped biological bodies."
915. LIVSHITS, N. N. (1947) Akademiya nauk SSSR, Fiziologicheskii Institut. Trudy, 2:64-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Visual adaptation to darkness under the action of SHF-UHF fields upon the occipital region"
917. LIVSHITS, N. N. (1954) Dissertation, Moscow, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "The effect of an ultrahigh frequency electric field and ionizing radiation on the CNS"
917. LIVSHITS, N. N. (1957) Biofizika 2(3):387-389, (In Russian), (Biophysics 2(3):372-374, 1957, (In English)), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965); (Also Abstr. in: Biological Effects of Microwaves; Compilation of Abstracts, ATD P-65-68, 1965, p. 68 only, "Review of the role of the nervous system in reactions to UHF"), "The role of the nervous system in reactions to UHF electromagnetic fields"
918. LIVSHITS, N. N. (1957) Biofizika 2(2):197-208, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Conditioned reflex activity in dogs under local influence of a VHF-RF field upon certain zones of the cerebral cortex"
919. LIVSHITS, N. N. (1957) Doklady Akademii Nauk SSSR 112:1145-1147, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, 1965, pp. 27-28, "Effects of UHF on conditioned reflex activity"), (Also abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Conditioned reflex activity of dogs during exposure to the cerebellum to VHF-UHF fields"
920. LIVSHITS, N. N. (1958) Biofizika 3(4):409-421, (also in England 426-436), (Abstr. in Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, 1965, pp. 70-71, "Review of the effect of UHF fields on the functions of the nervous system"), (also, abstr. in: The Biological Effects of Electromagnetic Fields, ATD Rpt P-65-17, Apr. 1965), "The effect of an ultrahigh-frequency field on the functions of the nervous system"
2915. LIVSHITS, N.N. (1958), Biophysics, 3() :409-421, "The effect of an ultra-high frequency field on the functions of the nervous system", (Engl. transl. of citation #920, this Biblio.).
3250. LLAURADO, J.G., SANCES, A., JR., & BATTOCLETTI, J.H. (1974), Biologic and Clinical Effects of Low-Frequency Magnetic and Electric Fields, 343+ pps., Charles C. Thomas, Publisher, Springfield, IL. (Proceed. of Workshop/Conf. held Feb. 18-24, 1973, Aspen, CO; citation #3362, this Biblio.).
921. LOBASOVA, YE. A. (1959) Gig. Biol. Deystviye, Moscow, (In: Summaries of Reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, pp. 46-47), "Changes of the conditioned reflex activity in animals (rats and rabbits) under continuous exposure to centimeter waves"
922. LOBASOVA, YE. A. (1960) Trudy Nii Gigiyena Truda i Profzaboleaniya AMN SSSR, (1):61-64, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, 1965, pp. 30-31, "Survival and development of mammals in UHF fields"), (Also abstr. in The Biological Action of Ultrahigh Frequencies, Latavet, A. A., & Gordon, Z. V., (eds.), Moscow, JPRS 12471, pp. 60-63), "Survival and development of animals exposed to various intensities and durations of pulsed SHF-UHF"
923. LOBASOVA, YE. A. (1964) Trudy Nii Gigiyena Truda i Profzaboleaniya AMN SSSR, (2):13-19, (Abstr. in: The Biological Action of Radio Frequency Electromagnetic Fields, Inst. of Industrial Hygiene & Occupational Diseases, Acad. of Med. Sciences, USSR, Moscow), "Changes in conditioned reflex activity of animals exposed to various ranges of microwaves"

924. LOBANOVA, YE. A. (1964) Trudy Nii Gigiyena Truda i Profzabolevaniya AMN SSSR, (2):75-77, (Also in: The Biological Action of Radio Frequency Electromagnetic Fields, Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Science, USSR, Moscow), "Study of temperature reaction of animals to the effects of microwaves of various wave ranges"
Trudy Nii
925. LOBANOVA, YE. A. (1966)/Gigiyena Truda i Professional'nye Zabolevaniya (Moskva) USSR, 10(10):7-12, (JPRS 39820), "Effect of chronic exposure to pulsed and nonpulsed 10 cm waves on the conditioned reflex activity of white rats"
Trudy Nii
926. LOBANOVA, YE. A. (1968)/Gigiyena Truda i Professional'nye Zabolevaniya (Moskva), USSR, (11):23-27, "The problem of establishing standards for periodic microwave radiation exposure: An experimental study"
2917. LOBANOVA, E.A. (1968), Rept., Lab of Radiofrequency Electromagnetic Fields, Inst. of Occupational Hygiene & Diseases, Acad. of Med. Sciences, Ukrainian SSR, 3():151-155, (Abstr. in Referativniya Zhurnal Biologiya, #7N50, 1968), "A study of the biological effect of continuous and pulsed radiation by microwaves in acute experiments".
2918. LOBANOVA, E.A., et al. (1971), Gig. Tr. Prof. Zabol., 15():29-33, (Jan.), (In Russ.), "Study of the conditioned reflex in animals (white rats) under the influence of ultrashort and short waves".
3535. LOBANOVA, Ye.A. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #64532), p. 46 only, "Investigation of the sensitivity of animals to microwave (MCW) radiation with administration of pharmacological substances."
927. LOBANOVA, YE. A., & GORDON, Z. V. (1960) Trudy Nii Gigiyena Truda i Profzabolevaniya AMN SSSR, (1):52-56, (Also in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, 1960, JPRS 12471 (1962), pp. 50-56,), (Also abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Investigation of the olfactory sensitivity in persons subjected to the influence of SHF-UHF"
v
928. LOBANOVA, YE. A., & TOLGSKAYA, M. S. (1960) Trudy Nii Gigiyena Truda i Profzabolevaniya AMN SSSR, (1):69-74, (In Russian), (Abstr. in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, JPRS 12471, (OTS-62-19175-2-816), pp. 68-); (Also abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), also, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, Sept. 1965, pp. 31-32, "Effect of UHF on nervous activity and inter-neuron connections"), "Change in the higher nervous activity and inter-neuron connections in the cerebral cortex of animals under the influence of SHF-UHF"
v
2916. LOBELL, M.J. (1962), Clinical Medicine, 69(8): p. 7, (Aug.), "Pulsed high frequency [electromagnetic radiation] and routine hospital antibiotic therapy in the management of pelvic inflammatory disease: A preliminary report".
929. LOGA, S., & ZACIU, R. (1966) Fiziologia Normala Patologica 12:395-402, "Determination of the electric parameters of biological systems at microwave frequencies"
3251. LOMBARDO, S.S. (1959), Presented at Symp. given by The Dr. Abraham J. Ginsberg Foundation for Med. Research, New York, NY, (June 29), "Treatment of decubitus ulcers", [using pulsed, high frequency electromagnetic radiation].
2919. LOMMATZSCH, P., BOHNE, B.-D., ULRICH, W.-D., & KUHN, R. (1973), Albrecht v. Graefes Arch. Klin. Exp. Ophthal., 187():201-214, (In Ger., w/Engl. summary), "Morphological examinations of 8 mm microwave coagulations in the rabbit eye", [application to retinal detachment surgery].
3252. LONG, D.M. (1972), Minn. Med., 55():564- , "New methods of pain relief", [including use of EMR].
3253. LONG, J.C. (1963), Amer. J. of Ophthalmology, 56():108-133, "Electric cataract: A clinical and experimental study", [Discussion of cataracts observed following contact with low frequency (DC to 60 Hz) voltages; comparison of effects of D.C. and 60 Hz currents; and consideration of possibility of cataract production by the therapeutic use of electricity, i.e., electroshock therapy and electroanesthesia].
2920. LORDS, J.L., DURNEY, C.H., BORG, A.M., & TINNEY, C.E. (1973), IEEE Transactions on Microwave Theory & Techniques, MTT-21(12):834-836, (Dec.), "Rate effects in isolated hearts induced by microwave irradiation", [Turtle hearts exposed to 960 MHz (cw) irradiation (in Ringer's soln.) experienced decrease in heart rate (bradycardia), in contrast to the tachycardia usually produced by generalized heating].
930. LOSEAK, A. YA. (1953) In: Aviation and Space Medicine, Parin, V. V., (ed.), Academy of Med. Sciences, USSR, Moscow, pp. 292-295, (Transl. in: NASA TT-F-228, 565-13729), "Labor hygiene and occupational pathology involved in the work with centimeter wave generators in the Civil Air Fleet"
931. LOSEAK, A. YA. (1965) Gigiyena i Sanitariya, USSR, (6):18-22, (Abstr. in ATD Press, Special Issue "Biomedical Microwave Research": Vol. 4 (43) pp. 9-10; Transl. in: CPSTI TT-66-51033, 4-6; also JPRS 31280, and N65-29246), "The effect of climatic conditions during chronic irradiation with SEP-UHF energy"
932. LOSEAK, A. YA. (1966) In: Problems of Space Medicine, Moscow, pp. 262-263, (ATD Rept. 66-116), "The problem of the combined biological effect of X-ray and UHF irradiation"
933. LOSEAK, A. YA. (1968) Gigiyena Truda i Professional'nye Zabolevaniya (Moskva) USSR, (5):15-18, "Radio frequency irradiation from aircraft communication systems as a health hazard"
934. LOSEAK, A. YA., & MAR'YEVICH, YE. P. (1964) Gigiyena i Sanitariya, USSR, (7):39-44, (FTD TT-65-345/1 and 4, AD 618635, N65-32289), (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-62, Sept. 1965, pp. 21-22, "Working conditions around Civil Air Fleet radar stations"); (Also abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Evaluation of working conditions of civilian airport radar installations"
3536. LOTMAR, R., & RANSCHT-FROEMSDORFF, W. (1968), Zeitschrift für Angewandte Bader und Klimahelkunde, 15():1-10, (In German), "Problems of climatology." [Atmospheric impulse radiation felt to be connected with observed change in rabbit skin respiration.]

3537. LOVELY, R.H., & GUY, A.W. (1975), Univ. of Washington School of Medicine, Seattle (Proceedings of the 1975 IMPI Microwave Power Symposium, Waterloo, Ontario, Canada, 27-30 May 1975), (Citation #3124, this Biblio.), "Conditioned taste aversions in the rat induced by a single exposure to microwaves."
935. LUBIN, M., CURTIS, G. W., DUDLEY, H. R., BIRD, L. E., DALEY, P. F., COGAN, D. C., & FRICKER, S. J. (1960) *AMA Archives of Industrial Health* 21():555-558, "Effects of ultrahigh frequency radiation on animals"
2921. LUCHKOV, V., et al. (1971), *Ortop. Travmatol. Protez.*, 32():65-68, (Sept.), (In Russ. w/Engl. abstr.), "Comparative evaluation of the effects of ultrasound and microwaves on fracture healing in rabbits".
936. LUDFORD, J. F. (Report), (unpublished, Issuing Agency?), 17 pages, "Status of the field of biological effects of radio-frequency radiation"
937. LUDWIG, F., & RIES, J. (1944) *Manatschr. P. Gebrutsch Gymak* 118:291-298, "Influence of short electromagnetic waves on embryonic development"
3538. LUDWIG, H.W. (1968), *Int. J. Biometeor.*, 12(2):93-98, "A hypothesis concerning the absorption mechanism of atmospheric in the nervous systems."
3539. LUDWIG, H.W. (1971), *Biomedizinische Technik*, 16():67-72, (in German), "The effect of electromagnetic extremely low frequency alternating fields on higher organisms."
3540. LUDWIG, H.W. (1972), *Z. angew. Bader-u. Klimaheilk.*, 19():15-17, (in German), "Weather influence [including ions and electrical fields] on organic tissue: A theoretical consideration."
3541. LUDWIG, H.W. (1973), *Int. J. of Biometeor.*, 17(3):207-211, "Shielding effect of materials in the ULF, ELF and VLF region."
3542. LUDWIG, W., & MECKE, R. (1968), *Arch. Met. Geoph. Biokl. (Ser. B)*, 16():251-261, (in German), "Effect of artificial atmospheric on mammals."
3543. LUDWIG, W., MECKE, R., & SEELEWIND, H. (1968), *Arch. Met. Geoph. Biokl. (Ser. B)*, 16():237-250, "Electroclimatology."
3544. LUDWIG, W., PERSINGER, M.A., & OSSENKOPP, K.P. (1973), *Arch. Met. Geoph. Biokl. (Ser. B)*, 21():110-116, "Physiological effects of electromagnetic fields in the ELF region: II. A review."
2212. v. LUGOSSY, G. (1942) *Klin. Med. Anzsch.* 103:319-328 (May/June), (In Ger.), "Effect of diathermy on the eye"
2213. LUKOFF, L., & LOWERS, G. (1950) *Klin. Med. Augenh.* 137:232-238, (In Ger.), (Abstr. in: *Zentralbl. f. d. ges. Opth.* 51(5):295 (Mar 1961)), "The sclera after non-perforating electro-coagulation"
938. LUKYANOVA, S. N. (1967) *Zh. Vysshel' Nervnoi Deyatel'nosti imeni i Pavlov, USSR*, 17(4):722-729, "The effect of a permanent magnetic field on the bioelectric activity of various brain formations in rabbit"
2455. LUND, E.J. (& Collaborators), (1947), The U. of Texas Press, Austin, (including "Bibliography of continuous bioelectric currents and bioelectric fields in animals and plants", by Rosene, H.F.), *Bioelectric Fields and Growth*.
2922. LUTSENKO, S.M., et al. (1970), *Ortop. Travmatol. Protez.*, 31():76-78, (In Russ.), "Effects of electromagnetic ultra-high frequency waves on the revascularization of free skin transplants".
3545. LUTSKER, L.S. (1974), *Oftal'mologicheskii Zhurnal*, 4():249-251, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 50-53, "Microwave therapy and drug electrophoresis in treatment of central serous chorioretinitis and toxoplasmosis."
939. LUZZIO, A. J. (1965) In: U. S. Army Med. Research Lab. Progress Report, pp. 37-38, (AD 470368), "Immune mechanisms [Athermal biological effect of RF energies]"
2923. LYAKH, L.A. (1973), *Gigiyena Truda i Professional'nyye Zabolevaniya*, 6():23-26, (In Russ.), (Transl. as JPRS No. 59690, 6 pps.), "Investigation of the alkaline phosphatase [a.p.] activity in persons dealing with electromagnetic emission generators of high, ultra-high, and superhigh frequency", [observed increase in a.p. of neutrophils, depending on field strength, but not on freq., over range HF, UHF, SHF].
940. LYALINA, O. V. (1937) In: All Union Inst. for Experimental Medicine, Moscow, "Hyperglycemic reaction to ultrahigh frequencies in connection with dosimetry"
941. LYSINA, G. G. (1965) *Gigiyena i Sanitariya, USSR*, 6():95-96, (AID Press, Special Issue "Biomedical Microwave Research", Vol. 4(43), pp. 4-5 (Aug. 1965); also in: *CFSTI TT-66-51033/4-6*), "Changes in the morphological composition of blood under the influence of SHF-UHF"
3546. LYSINA, G.G. (1975), *Meditsinskaya Radiologiya*, 20(11):50-54, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 41-49, "Clinical physiological changes caused by job-associated radiation and radio waves."
- (or LYSCOV?)
942. LYSTSOV, V. N., FRANK-KAMENETSKI, D. A., & SHCHERDRINA, M. V. (1965) *Biofizika* 10:103-109, (In Russian), (*Biophysics* 10:114-119, 1965, In English), "Effect of centimeter radiowaves on vegetative cells, spores, and transforming DNA"

943. LYUDKOVSKAYA, R. G., & ALEKSEYENKO, N. YU. (1956) Materials on Evolutionary Physiology, Symposium, Moscow-Leningrad, 1:183-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17, Apr. 1965), Title not given [Deals with exposure of muscle to UHF radiation]
944. LYUTOV, A. I. (1964) In: Some Problems of Physiological Biophysics, Voronezh, Izd-vo Voronezh, Univ., pp. 92-98, "Dynamics of excitability and efficiency of spinal cord motor neurons during brain incisions at various levels, and the action of sound and RF electromagnetic oscillations upon the CNS"
3547. MAASS, J.A., & ASA, M.M. (1970), IEEE Trans. on Magnetics, MAG-6(2):322-326 (June), "Contactless nerve stimulation and signal detection by inductive transducer."
2068. MACCIOLI, J. T. (1971) Bioenvironmental Safety Newsletter, pp. 3-5, (4th Quarter), "RF health hazards and monitoring meters -- Recent Notes"
2456. MACCIOLI, J. (1972), Bioenvironmental Safety, (3-72), (of U.S. Naval Safety Center), 4(3):6-7, "RF burns from radio frequency radiation".
2214. MacGREGOR, R. J. (1970), (Abstr. #N71-14482; AD 712694), "A brief survey of literature relating to the influence of low intensity microwaves on nervous function"
2215. MacGREGOR, R. J. (1970) The Rand Corp. Rept. P-4398 (25 pps.), AD #708815 "A direct mechanism for the influence of microwave radiation on neuroelectric potentials"
959. MACHABELI, M. YE., KHUBUTIYA, V. A., & CHINCHALADZE, J. J. (1957) Gigiena i Sanitariya 22(11):81-83, (In Russian), "Working conditions and the state of health of workers employed in radio frequency installations"
960. MACHLE, W., & LANDEEN, K. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:71 only, "The effect of repeated microwave exposures on the formed elements in the blood of rats"
961. MACKAY, R. S. (1960) Inst. of Radio Engineers Trans. ME-7:111-113, "Some electrical and radiation hazards in the laboratory"
962. MACLEOD, J., & HOTCHKISS, R. S. (1941) Endocrinology 28:780-784, "The effect of hyperpyrexia upon spermatozoa counts in man"
963. MACMURRAY, L. C. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. V., eds.) 2:79-87, (AD 131477), "Microwave radiation hazards problems in the U. S. Army"
964. MACMURRAY, L. C., DEENE, E. J., & DUGUID, R. H. (1958) U. S. Army Environmental Hygiene Agency, Tech. Pub., "Health hazards associated with microwave radiation"
965. MADSON, R. A., CORDARO, J. T., KILLER, R. L., & VOELKER, G. E. (1970) USAF School of Aerospace Medicine Rept. SAM-TR-70-87, "Effects of microwaves on bacteria in frozen foods"
2924. MAPRICI, D., et al. (1970), Radiol. Health Data Rept., 11():667-670, (Dec.), "Nassau County microwave ovens study: June 1969 - March 1970"
2925. MAGIN, R.L., & BURNS, C.P. (1972), Proceedings of the IEEE 1972, Region 3 Conference, (Apr.), "Determination of biological tissue dielectric constant and resistivity from 'in vivo' impedance measurements".
3548. MAGIN, R. L., LU, S. T., & MICHAELSON, S. M. (1974) Rochester Univ. NY, Rept. No. UR-3490-671, 8 pps., "Biological effects of locally applied-microwaves on the thyroid gland of dogs."
3254. MAIOROVA, I.S. (1972), Vopr. Kurortol. Fizioter. Lech. Fiz. Kult., 37():448-450, (In Russ.), "Effect of inducto-therapy on heart function in patients with systemic scleroderma", ["therapy reduced pain in the chest, alleviated dyspnea, and made tachycardia disappear"].
2216. MAJEWSKA, K. (1968) Polish Medical J. VII:989-994, "Investigations on the effect of microwaves on the eye"
- eta
966. MAKAROV, P. O. (1967) Vestnik Leningradskogo Universitat/ Seriya Biologii, USSR, (21):150-152, "On the resonance and selective absorption of microwaves by the Flagellate Opalina ranarum"
967. MAKSIMOV, G. A., & KRYUKOVA, I. M. (1956) Biofizika 1:201-205, (In Russian) "Study of the mechanism of heat and mass exchange in seeds of plants grown with heat provided by an rf electrical field"
968. MALAKHOV, A. N., MAKSIMOV, A. S., & NEPEDOV, YU. YA. (1965) In: Bionika (BIONICS), GAAZE-RAPOPORT, M. G., & Yakobi, V. E., (eds.), Nauka Pub. House, Moscow, pp. 377-381, (JPRS 35125, Apr. 1966), "On the electromagnetic hypothesis of biological communication"
969. MALAKHOV, A. N., ROMANOV, I. V., SMIRNOV, YU. V., & UL'YANOV, M. YU. (1965) In: Bionika (BIONICS), GAAZE- Rapoport, M. G., & Yakobi, V. E., (eds.), Nauka Pub. House, Moscow, pp. 302-305, (AID Transl. N66-24173; JPRS 35125: TT-66-31562), "Biological indication of a SEP-UHF electromagnetic field"
970. MALAKHOV, A. N., SMIRNOV, YU. V., & UL'YANOV, M. YU. (1963) Materials of the 3rd Povolzhskaya Conf. of Physiologists, Biochemists, and Pharmacologists, Cor'ziy. "The SEP-UHF electromagnetic field as a signal factor in the conditioned reflex of white mice"
971. MALLARD, J. R., & LAWN, D. G. (1967) Nature (London) 213:28-30, "Dielectric absorption of microwaves in human tissues"
972. MALLARD, J. R., & WHITTINGHAM, T. A. (1968) Nature (London) 218(5139):366-367, "Dielectric absorption of microwaves in human tissues"

2457. MAKOW, D., & GRICE, H. (1963), *Nature*, 200(4911):1120-1121, "Influence of radio frequency heating on sperm".
3255. MALONE, W.F. (Ed.), (1974), *Electrosurgery in Dentistry: Theory and Application in Clinical Practice*, 248 pps., Charles C. Thomas, Pub., Springfield, IL.
2020. MALYSEEV, V. M., & KOLESNIK, F. A. (1968) Izd-vo "Meditsina", Leningrad, Effects of SHF Electromagnetic Fields on Human Health
973. MANDELTSVAYG, YU. B. (1962) *Meditsinskaya Radiologiya* 7(8):100-101, (JPRS 15553), The second all union conference on the use of radio-electronics in biology and medicine
973. MANDLER, F. H. (1934) Abstr. of the 1st Internat. Congress on Electro-Radio-Biology, Cappelli, L., (ed.), Bologna, Italy, pp. 543-552, "Some aspects of combined radiation therapy"
2458. MANGANELLI, L.A. (1972), Report No. GW BSCP-72-04R of Geo. Washington Univ. Medical Ctr. (Biolog. Sciences Communication Project), performed under NASA Contract No. NSR-09-010-027, (Feb.), 195 pages, "Biomagnetism: An annotated bibliography".
3549. MANOYLOV, S.Ye., GURVICH, G.I., MANOYLOV, V.Ye., GUSEVA, T.F., & CHISTYAKOVA, Ye.N. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #64532), p. 48 only, "Possibility of using electromagnetic radiations of the millimeter wavelength to intensify the biological properties of blood proteins."
974. MANSFIEL, P. B. (1966) *Amer. J. of Medical Electronics* 5:61-65, "On interference signals and pacemakers"
975. MANYASHIN, YU. A. (1967) *Gigiyena Truda i Professional'nyye Zabolovaniya* (8):47-49, (AD 671436), (Abstr. in: Soviet Radiobiology, ATD 68-105-108-9, pp. 80-81, June 1968), "Disturbance of aromatic amino-acid exchange products excreted with urine in persons exposed to the action of EP and UHF electromagnetic waves"
976. MAREK, B. (1959) *Pracovní Lekarství*, Prague, 11:401-403, (In Czech.) "Protective measures against the effects of centimeter radiation on the human organism"
2217. MARGOTTI, V. M. (1972) *J. of the Amer. Inst. of Homeopathy* 65(1):7-20, ("to be cont'd in June '72 issue"), "The minima, man, and biomagnetism: Some contemporary concepts" ["interesting" (?) reading]
977. MARHA, K. (1963) *Pracovní Lekarství*, Prague, 15(6):238-242, (In Czech), (AD 460316, FTD TT-64-898, N65-35916, AD 618466; A64-800 also ATD Rept. 65-56, July 1965); (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Certain experimental observations of the effect of a high frequency electromagnetic field in vivo and in vitro"
978. MARHA, K. (1963) *Pracovní Lekarství*, Prague, 15⁽⁹⁾:387-393, (In Czech.) "Biological effects of rf electromagnetic waves"
979. MARHA, K. (1963) Final Report of the Institute of Industrial Hygiene and Occupational Diseases, Prague, (In Czech.), "Complex theory of the mechanism of the effects of electromagnetic fields on the organism"
980. MARHA, K. (1967) U. S. Govt. Res. & Dev. Reports, 25 pages (AD 642029) (Summary of Unclassified Report), "Biological effects of high-frequency electromagnetic waves" (Transl. of item #978 (above))
981. MARHA, K. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. P., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 188-196, "Maximum admissible values of HF and UHF electromagnetic radiation at work places in Czechoslovakia"
2011. MARHA, K. (1971) *IEEE Trans. on Microwave Theory and Techniques* (Special Issue on Biological Effects of Microwaves) MTT-19(2):165-168, "Microwave radiation safety standards in Eastern Europe"
982. MARHA, K., & MUSIL, J. (1962) *Slaboproudý obzor* 7:409-413, (In Czech.) "Measurement of the power density at centimeter wavelengths for health purposes"
983. MARHA, K., MUSIL, J., & TUHA, H. (1963) *Pracovní Lekarství*, Prague, 15(9):387-393, (In Czech.); (ATD Rept. 66-92; AD 642029), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rpt P-65-17, Apr. 1965), "Biological effects of high frequency electromagnetic waves"
984. MARHA, K., MUSIL, J., & TUHA, H. (1968) (In Czech.), State Health Publishing House, Praha, Czechoslovakia, 138 pages, (Transl. SEN 911302-13-7, Pub. by San Francisco Press, Inc., 1971), Electromagnetic Fields and the Living Environment
3550. MARINO, A.A., BERGER, T.J., BECKER, R.O., & HART, F.X. (1974), *Experientia*, 30(11):1274-1275 (Nov. 15), "Electrostatic field induced changes in mouse serum proteins."
985. MARKS, E., & HORNCOWSKI, J. (1965) *Neurologia i Neurochirurgia Polska* 2(1):25-29, (In Polish with English summary) "Clinical observations concerning the effect of microwaves on the nervous system"
986. MARKS, J., CARTER, E. T., SCARPELLI, D. G., & EISEN, J. (1961) *Ohio State Medical J.* 57(3):274-279, "Microwave radiation to the anterior mediastinum of the dog: I. Histologic and electrocardiographic observations"; pp. 1132-1135, "II. Thermal, cardiovascular, respiratory, and blood enzyme observations"
3256. MARONCELLI, M., & FERRARO, G. (1967), *La Clinica Otorinolaringoiatrica*, 3() :249-262, (In Ital. w/ Engl. summary), "A new method of physical therapy [pulsed high frequency electromagnetic radiation] for the treatment of chronic simple otitis".

3551. MARR, M.J., RIVERS, W.K., & BURNS, C.P. (1973), Georgia Institute of Technology (Atlanta), Final Report prepared for Office of Naval Research (28 Feb.), "The effect of low energy, extremely low frequency (ELF) electromagnetic radiation on operant behavior in the pigeon and the rat."
987. MARRIOTT, I. A. (1964) Medical Service J. of Canada 20:546-552, "Three cases of apparent chemical burns of the hands following contact with a magnetron tube"
988. MARSHALL, R. (1963) Tradex - O and M, 11(2):pp.? "Safety notes on microwave generation hazards"
989. MARTIN, E. J., CONSTANT, P. C., JONES, B. L., FARGO, E. T., & CARTWRIGHT, E. G. (1962) Final Report on Bureau of Ships (Navy) Contract #Nobs-77142 (June) by Midwest Research Institute, Kansas City, Mo., "Survey of radio frequency radiation hazards"
990. MARTIN, G., & ERIKSON, D. (1950) J. of the Amer. Medical Assoc. 142:27-30, "Medical diathermy"
991. MARTIN, G., & HERRICK, J. (1955) J. of the Amer. Medical Assoc. 159:1286-1287, "Further evaluation of heating by microwaves and by infrared radiation as used clinically"
992. MARTIN, G., RAE, J., JR., & KRUSEN, F. (1950) Southern Medical J. 43:518-524, "Medical possibilities of microwave diathermy"
2926. MARTIN, H., et al. (1973), Fortschr. Zool., 21():211-228, (In Ger.), "Orientation in the terrestrial magnetic field".
2459. MARTIN, J.A. (1970), Rept., Stanford Research Institute, Contract F29601-69-C-0127, SRI Project 7995 - Work Order 3.4, (Tech. Memo. 6 of 30 June), "Biological effects of fields of the Siegfried array", [Results suggest no hazardous effects to man from the electromagnetic pulse device].
993. MASOERO, P., et al. (1965) Minerva Pediatrica 17:1133-, (In Italian) "Preliminary Report: Influence of electrostatic fields and of 'activated' water on weight increase"
994. MASON, J. P. (1959) Electronics 34:34-35, (Dec. 1), (Also in: Digest of Tech. Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chm.)), "Germ-gas electronic [radiation] detectors"
3552. MATSUCHITA, S., & CAMPBELL, W.H. (1967), Physics of Geomagnetic Phenomena, Vol. II, Academic Press.
2927. MATSUMOTO, G., & YAMURA, T. (1971), J. of the Electrical Society (of Japan), 91(4):588-596, (In Jap.), "The biological effects of microwave irradiation".
995. MATUZOV, N. I. (1959) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 43(7):27-30, "Changes in the excitation of the optic analyzer in man by microwaves"
2928. MAXEY, E.S. (1972), Aviation Week & Space Technology, 'Letters to the Editor' section, ():64 only, "Electromagnetism"
2087. MAY, K. N. (1969) J. Microwave Power 4:54-59, (Abstr. in: Non-ionizing Rad. 1(3):151 only, (1969), Abstract #67), Applications of microwave energy in preparation of poultry convenience foods"
996. MAY, L., KAMBLE, A. B., & ACOSTA, I. P. (1970) J. of Membrane Biology 2:192-200, "The effect of electric fields on brain cephalin and lecithin films"
2460. MAYER, GLASTON; PRIORE, A.; MAYER, GUY; & PAUTRIZEL, R. (1972), Comptes rendus des seances de l'Academie des Sciences, 274():3011D-3014D, (29 May), (in Fr.), "Action of magnetic fields associated with electromagnetic waves on the rabbit trypanosomes"
3553. MAYER, J. (1975), The Washington Post, Sunday, Dec. 28, p. C6 only, "Ulcerative colitis, cures and treatment." [Comment in the "Nutrition" section on the safety of microwave ovens.]
997. MAYER, O. (1954) Science Newsletter 47:296-, "Effect of radar waves studied by Army and Navy"
2929. MAYERS, C.P. (1970), J. of Clinical Pathology, 23():273-275, "Histological fixation by microwave heating".
2930. MAYERS, C.P., & HABESHAW, J.A. (1973), Internat. J. of Radiation Biology, 24(5):449-461, "Depression of phagocytosis: A non-thermal effect of microwave radiation as a potential hazard to health".
998. MAZURKIEWICS, J. (1968) Lekarz Wojskowy (3):165-170, (ATD 68-129), "Classification of the harmful effect of microwaves on man"
945. McAFEE, R. D. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:314-331, "Neurophysiological effects of microwave irradiation"
946. McAFEE, R. D. (1961) Amer. J. of Physiology 200(2):192-194, "Neurophysiological effect of 3 cm microwave radiation"
2461. McAFEE, R.D. (1962), Rept. from Tulane University School of Medicine, (Feb.), pp. 374-378, "Physiological effects of thermal and microwave stimulation of peripheral nerves".

947. McAFEE, R. D. (1963) Amer. J. of Physiology 203(2):374-378, "Physiological effects of thermode and microwave stimulation of peripheral nerves"
948. McAFEE, R. D. (1963) Biomedical Sciences, Instrumentation 1:167-170, "Microwave stimulation of the sympathetic nervous system"
949. McAFEE, R. D. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 150-153, "The neural and hormonal response to microwave stimulation of peripheral nerves"
2019. McAFEE, R. D. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):251-252, "Analeptic effect of microwave irradiation on experimental animals"
2931. McAFEE, R.D. (1972), J. of Microwave Power, 7():83-85, "Low power density behavior effects of microwave irradiation of experimental animals: Real or artifact?"
950. McAFEE, R. D., BERGER, C., & PIZZOLATO, P. (1960) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.) pp. 251-260, "Neurological effect of 3 cm microwave irradiation"
3257. McAFEE, R.D., BRAUS, R., JR., & FLEMING, J., JR. (1973), J. of Microwave Power, 8(1):111-116, "The effect of [chronic] 2450 MHz microwave irradiation on the growth of mice", [lack of growth stimulating effect].
3258. McAFEE, R.D., CAZENAVETTE, L.L., & SHUBERT, H.A. (1974), J. of Microwave Power, 9(3):177-180, (Sept.), "Thermistor probe error in an x-band microwave field", [absence of coupling of a stainless steel hypodermic needle containing a thermistor with the electric field in application such as measuring the temperature of biological tissue at 9.3 GHz].
3554. McCLEAVE, J.D., ALBERT, E.H., & RICHARDSON, N.E. (1974), Univ. of Maine, Final Report prepared for Office of Naval Research (31 Jan.), "Perception and effects on locomotor activity in American eels and Atlantic salmon of extremely low frequency electric and magnetic fields."
2462. McCOY, A.S. (1967), The Kansas City Star, p.3, (Oct. 7), "That strange buzz may be radar".
2932. McCULLOUGH, J., POLESKI, H.F., NELSON, C., & HOFF, T. (1972), Anesthesia and Analgesia, 51(1):102-106, (Jan.-Feb.), "Iatrogenic hemolysis: A complication of blood warmed by a microwave device".
3555. McELHENY, V.K. (1975), New York Times (Oct. 10), p. 40 only, "Electricity transmitted by radio beam on [west] coast" [at microwave frequency].
951. McELHANEY, J. H., & STALNAKER, R. (1968) J. of Biomechanics 1:47-52, "Electric fields and bone loss of disuse"
952. McILWAIN, H. (1953) Biochem. J. 55:618-624, "Glucose level, metabolism and response to electrical impulse in cerebral tissues from man and laboratory animals"
2933. McKAY, D.H. (1971), EID Electronic Instrumentation, 7(12):14-17, (Dec.), "Electromagnetic pollution measurement".
2463. McKAY, H.D. (1970), Rept., Fairchild/Electro-Metrics Corp. (Burbank, Calif.), (Aug.), 12 pps., "Current status [of] electromagnetic pollution management and measurement".
2464. McKERCHAR, W.D., & KING, W.M. (1972), J. for the Advan. of Med. Instrumentation, 6:178-179, "Electromagnetic susceptibility test results of heart pacemakers".
2934. McKINLEY, G.M. (1930), Trans. of the Pennsylvania Acad. of Science, 4():43-46, "Some biological effects of high frequency electrostatic fields".
2935. McKINLEY, G.M., & MURRAY, —. (1935), Univ. of Pittsburg Bull., 30(2):183-188, (Biol. Abstr. #13576), "The ultrahigh frequency magnetic-electric field in biology".
953. McLAUGHLIN, J. T. (1957) California Medicine 86(5):336-339, "Tissue destruction and death from microwave radiation (radar)"
2069. McLAUGHLIN, J. R. (1962) Western Medicine 3:126-132, (April), "Health hazards from microwave radiation"
954. McLEES, B. D., FINCH, E. D., & ALBRIGHT, M. L. (1971) Naval Medical Research Institute Report (Rept. No. 1 on Project MF12.524.015-0001B), "An examination of regenerating hepatic tissue following in vivo exposure to RF radiation" (Also: J. Applied Physiology 32(1):77-85 (1972))
955. McLEES, B. D., & FINCH, E. D. (1971) Naval Medical Research Institute Report (Rept. No. 2, on Project MF12.524.015-0001B), "Bibliography on the hazards of artificial cardiac pacemaker exposure to radio frequency fields and electric shock"
956. McLEES, B. D., & FINCH, E. D. (1971) Naval Medical Research Institute Report (Rept. No. 3 on Project MF12.524.015-0001B), "Analysis of the Physiologic Effects of Microwave Radiation" (Also: see citation #2086, this Bibliography)
957. McNALLY, E. M., & BENCHIMOL, A. (1968) Amer. Heart J. (Part I) 75:pp? (Mar.); (Part II) 75:679-695, (May), "Medical and physiological considerations in the use of artificial cardiac pacing", Parts I and II
958. McNALLY, J. B., NUNN, A. S., CICHON, J. V., & RICHARDSON, A. W. (1962) Federation Proceedings 21(2):1-255, "Microwave effects on glucose absorption and transfer in the rat"

2465. McREE, D.I. (1971), Health Physics, 21:763-769, "Thresholds for lenticular damage in the rabbit eye due to single exposure to CW microwave radiation: An analysis of the experimental information at a frequency of 2.45 GHz".
2466. McREE, D. I. (1972) Environmental Health Perspect., 5(2): 41-53, (Oct.), "Environmental aspects of microwave radiation"
2936. McREE, D.I. (1973), Presented at the 66th Annual Meeting of the Air Pollution Control Assoc., June 24-28, Paper No. 73-9, "Biological effects of microwave radiation".
3259. McREE, D.I. (1974), Health Physics, 26(5):385-390, "Determination of the absorption of microwave radiation by a biological specimen in a 2450 Mhz microwave field", [using the time-temperature profiles of distilled water; applicable to *in vitro* studies of small, homogeneous biological specimens].
3260. McREE, D.I. (1974), J. of Microwave Power, 9(3):263-270, (Sept.), "Determination of energy absorption of microwave radiation using the cooling curve technique".
2937. McREE, D.I., & WALSH, P. (1971), Rev. of Sci. Instruments, 42():1860-1864, "Microwave exposure system for biological specimens".
999. MEADE, K. (1959) The Engineer's Digest (U. S. Coast Guard Pub.) CG-133, #118, (Sept.-Oct.), p. 42, "Radio frequency radiation hazards"
1000. MEAHL, H. R. (1956) Institute of Radio Engineers Trans. on Medical Electronics, PGME-4:16 only, (Abstr. from Symposium on Physiologic and Pathologic Effects of Microwaves (Krusen, F. H., Chm.), 23-24 Sept. 1955, Mayo Clinic), "Protective measures for microwave radiation hazards: 750 to 30,000 Mc"
1001. MEAHL, H. R. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Payton, M. F., ed.) pp. 15-22, "Basic problems in measuring RF field strength"
1002. MEAHL, H. R. (1961) Digest of the Internat. Conf. on Medical Electronics, Biological Effects of Microwaves I (Athermal Aspects), (Frommer, P. L., ed.) pp. 229-, "Ion orb omnidirectional, fixed level, visual indicator of radio frequency field strength"
2938. MEDINA, M.A., et al. (1973), In: Proceedings, Federation of American Societies for Experimental Biology, ___(): pp. ?, "NAD levels in rat brain following tissue fixation by microwave radiation".
3556. MEDINA, M.A., JONES, D.J., STAVINOH, W.B., & ROSS, D.H. (1975), J. of Neurochemistry, 24(2):223-227, "Levels of labile intermediary metabolites in mouse brain following rapid tissue fixation with microwave irradiation."
2939. MEDVEDEV, V.P. (1973), Gigiena Truda i Professional'nyye Zabolevaniia (Moskva), 17(3):6-9, (Mar.), (In Russ., w/Engl. summary), "Cardiovascular diseases in persons with a history of exposure to the effect of an electromagnetic field of extra-high frequency", [...study of 80 male workers with history of exposure to cm-band microwaves (& 80 controls); including medical exam, ECG, and blood lipids. Microwave workers had significantly higher incidence of ECG disorders, dyslipidemia, ischemic heart, and hypertensive disease...].
1003. MELLON, R. R., SZYMANOWSKI, W. T., & HICKS, R. A. (1930) Science 72:174-175 (Aug. 15), "An effect of short electric waves on diphtheria toxin independent of the heat factor"
3557. MELVILLE, D., PAUL, F., & ROATH, S. (1975), Nature, 255(5511):706 only (July 26), "Direct magnetic separation of red cells from whole blood."
2467. MENCHINOV, G. (1971), Sovetskaya Rossiya, No.272 (4696), p.4, (21 Nov.), (CIRC abstract), "Magnetic therapy for cardiovascular patients".
2940. MENDELSON, J.M., RONSIALLI, L.J., KING, F.J., CARVER, J.H., LEARSON, R.J., SPRACKLIN, B.W., & KENYON, E.M. (1969), Fishery Indust. Res., 4(7): pp. 7, (Mar.), Preprint No. 70, U.S. Depart. of the Interior, U.S. Fish and Wildlife Service, Bureau of Commercial Fisheries, Wash., DC, "Opening oysters and other bivalves using microwave energy".
3558. MENGES, R.M., & WAYLAND, J.R. (1974), Weed Science, 22(6):584-590, "UHF electromagnetic energy for weed control in vegetables."
3261. MENNIE, D. (1975), IEEE Spectrum, ___():34-39, (Mar.), "Microwave ovens: What's cooking? 'Only your roast' say most experts on nonionizing radiation, but consumer advocates and some researchers express doubts". [Discussion, among other items, of 'safe exposure levels', and work of IEEE Committee on Man and Radiation (COMAR), and U.S. Office of Telecommunications Policy (OTP).]
1004. MEOSIKINE, B. (1948) Rev. Morrel 60:364-366, "Rapid modification of local temperature following application of short waves and its clinical significance"
2468. MERCKEL, C. (1971), Calif. Med., 117(1):20-24, "Microwaves and man: The direct and indirect hazards, and the precautions".
1005. MERJANIAN, S. V. G., & SCHWAN, H. P. (1966) ONR Tech. Rept. No. 42, and M.S. Thesis of S.V.G.M., Moore School of Electrical Engineering, Univ. of Pennsylvania, "Optimization study of an electrical method for the rapid thawing of frozen blood"
1006. MERMAGEN, H. (1959) Digest of Tech. Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology, (Schwan, H. P., Chm.) p. 41 only, "Studies on the behavior of phantoms in electromagnetic (radar) fields"

1007. MERMAGEN, H. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.) pp. 143-152, "Phantom experiments with microwaves at the University of Rochester"
1008. MEROLA, L. O., & KINOSHITA, J. H. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.) pp. 285-291, "Changes in the ascorbic acid content in lenses of rabbit eyes exposed to microwave radiation"
1009. MERREY, J. L. (1963), AD 415814, 11 pages, "Some biological aspects of microwave radiation"
1010. MERRIMAN, J. R., HOLMQUEST, H. J., & OSBORNE, S. L. (1934) *Amer. J. of Medical Science* 187:677-, Title?
3559. MERRITT, J.H., MEDINA, M.A., & FRAZER, J.W. (1975), In: *Research Communications in Chemical Pathology and Pharmacology*, 10(4):751-754 (April), "Neurotransmitter content of mouse brain after inactivation by microwave heating."
1011. MEYERS, G. H., PARSONNET, V., ZUCKER, I. R., & LEWIN, G. (1968) *Medical Research Engineering* 7:13-16, "An experimental radio-frequency carotid-sinus pacemaker"
2218. MEZEKOVA, V., & SYNEK, V. (1970) *Pracovní lékařství* 22(1):1-5, "Evaluation of important factors influencing EEG findings in persons with a long-term exposure to electromagnetic radiation in the meter wave band"
2219. MEZEKOVA, V., SYNEK, V., & VOLAVKA, J. (1970) *Pracovní lékařství* 21(1):5-7, "The effect of the electromagnetic radiation in meter wave band on the EEG frequency spectrum of exposed persons"
1012. MIALE, J., & LANDEEN, K. (1964) *Toxicology and Applied Pharmacology* 6:71-77, "Effect of microwave radiation on the hemopoietic system of the rat"
1013. MICHAELSON, S. M. (1958) Communication at the 2nd Tri-service Conf. on Biological Effects of Microwave Energy, July 1958, Univ. of Virginia, reported by Baldwin and Bach, "Dogs turned toward the beam at 2800 MHz"
1014. MICHAELSON, S. M. (1968) Report N69-25298, UR-49-1012, 28 pages, "The effect of 2800 MHz microwaves on the eye of rabbits and dogs"
1015. MICHAELSON, S. M. (1969) *J. of Microwave Power* 4(2):114-119, "Microwave hazards evaluation: concepts and criteria"
2220. MICHAELSON, S. M. (1969) Presented at Ind. Neurol. Congr., Prague, (Abstr. 6N70-12450), "Microwave standards - a comparative analysis" [between U. S. & Russia of quantification of biological responses]
1016. MICHAELSON, S. M. (1970) In: Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 35-58, "Biological effects of microwave exposure"
2088. MICHAELSON, S. M. (1970) *Non-ionizing Rad.* 1(4):169-176, "Pathophysiological aspects of microwave irradiation, Part 1 - Thermal effects"; Part 2, *ibid.* (1971) 2(1):27-38, "Critical analysis of the literature"
2221. MICHAELSON, S. M. (1971) *American Industrial Hygiene Assoc. J.* 32:338-345, "Biomedical aspects of microwave exposure"
1017. MICHAELSON, S. M. (1971) *IEEE Trans. on Microwave Theory and Techniques* (Special Issue on Biological Effects of Microwaves) MTT-19(2):131-146, "The Tri-Service Program - A tribute to George M. Knaf, USAF (MC)"
3263. MICHAELSON, S.M. (1971), *J. of Microwave Power*, 6(3):272-276, "Response to 'Comments'".
2469. MICHAELSON, S.M. (1971), *Journal of Microwave Power*, 6(3):259-267, "Biological effects of microwave exposure - An overview".
2470. MICHAELSON, S.M. (1972), *Journal of Microwave Power*, 7(2):67-73, "Cutaneous perception of microwaves".
2471. MICHAELSON, S.M. (1972), *Proc. of IEEE (Inst. of Electrical & Electronics Engineers)*, 60(4):389-421, "Human exposure to nonionizing radiant energy - Potential hazards and safety standards".
2472. MICHAELSON, S.M. (1972), *Amer. Industrial Hygiene Assoc. J.*, 33(3):156-164, (Mar.), "Microwave exposure safety standards - physiologic and philosophic aspects".
2941. MICHAELSON, S.M. (1972), Rept. UR-3480-103, Univ. of Rochester, New York, "Relevancy of experimental studies of microwave-induced cataracts to man".
2942. MICHAELSON, S.M. (1973), In: Hearings before the Committee on Commerce, U.S. Senate, Mar. 8-12, 1973, on Public Law 90-602, entitled "Radiation Control for Health and Safety Act of 1968", Serial No. 93-24, p.136-168, "Biomedical aspects of microwave exposure".
2943. MICHAELSON, S.M. (1973), In: Proceedings of the Third International Congress of the Internat. Radiation Protection Assoc., Sept. 9-14, (Wash., DC), "Biologic effects and exposure standards for non-ionizing electromagnetic energies".
2944. MICHAELSON, S. M. (1973), In: Proceedings of the Internat. Symp. on Biologic Effects & Health Hazards of Microwave Radiation, Rept. No. UR-3490-317 (Warsaw, Poland), Oct. 15-18, "Thermal effects of single and repeated exposures to microwaves: A review"

3264. MICHAELSON, S.M. (1973), *Industrial Medicine & Surgery*, 42():9-13, "Are your workers exposed to non-ionizing radiant energy?", [Occupational aspects of exposure to radio-frequency, microwave, infra-red, visible, and ultraviolet radiation; thresholds and standards].
2945. MICHAELSON, S.M. (1973?), *World Health Organization, Regional Office for Europe, Pub. No. EURO-3170, "Potential hazards and safety consideration in human exposure to non-ionizing radiant energies"*.
3265. MICHAELSON, S.M. (1974), *Environmental Health Perspectives*, 8(*):133-156, (Aug.), "Effects of exposure to microwaves: Problems and perspectives".
3266. MICHAELSON, S.M. (1974), *Federation Proceedings, Fed. of Amer. Soc. of Experimental Biol.*, 33(3):461- , "Physiologic adjustments to microwave exposure".
2946. MICHAELSON, S.M. (1974), *In press, "The relevancy of experimental studies of microwave-induced cataracts to man"*.
3267. MICHAELSON, S.M. (1974), *The J. of Microwave Power*, 9(2):147-161, (June), "Review of a program to assess the effects on man from exposure to microwaves", [Comments on presentations made at the Warsaw Symposium held Oct. 15-18, 1973, citation #3114, this Biblio.].
3560. MICHAELSON, S.M. (1975), *In: AGARD Rept. entitled "Radiation Hazards" (Rept. #AGARD-LS-78), Aug., "Protection guides and standards for microwave exposure."*
1018. MICHAELSON, S. M., & DODGE, C. H. (1958) *21st Annual Conf. on Engineering in Med. and Biology, 18-21 Nov., (Also, Rept. N69-25367, TR-49-976), "Soviet views on the biologic effects of microwaves"*
1019. MICHAELSON, S. M., & DODGE, C. H. (1971) *Health Physics (in press), "Soviet views on the neural effects of microwaves" (Expanded in citation #2057)*
2057. MICHAELSON, S. M., & DODGE, C. H. (1971) *Health Physics* 21:108-111, "Soviet views on the biological effects of microwaves -- An analysis"
2473. MICHAELSON, S.M., & HOUK, W.M. (1972), *Presented at the "7th Midyear Symposium of the Health Physics Soc. on Non-Ionizing Radiant Energy in the Healing Arts", San Juan, P.R., 11-14 Dec., "Exposure criteria for non-ionizing radiant energy in the healing arts — Product emission standards and personnel exposure standards"*.
2947. MICHAELSON, S.M., HOUK, W.M., LEBDA, N.A., LU, S., & MAGIN, R. (1974), *(In Press), N.Y. Academy of Sciences Symp. Proceedings on "Biological Effects of Non-Ionizing Radiation", (Feb. 12-15, 1974), "Biochemical and neuroendocrine aspects of exposure to microwaves"*.
2948. MICHAELSON, S. M., HOWLAND, J. W., & DEICHMANN, W. B. (1971) *Indust. Med. & Surg.*, 40(5):18-23, "Response of the dog to 24,000 and 1285 MHz microwave exposure"
1020. MICHAELSON, S., HOWLAND, J. W., & DUNDERO, R. (1958) *Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G. & Banghart, F. W., eds.)* 2:175-189, "Review of work conducted at University of Rochester (USAF sponsored)"
1021. MICHAELSON, S. M., HOWLAND, J. W., THOMSON, R. A. E., & MERMAGEN, H. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.)* 3:161-190, "Comparison of responses to 2800 MHz and 200 MHz microwaves or increased environmental temperature"
3561. MICHAELSON, S.M., MILLER, M.W., MAGIN, R., & CARSTENSEN, E.L. (eds.) (1975), *Fundamental and Applied Aspects of Nonionizing [electromagnetic and ultrasound] Radiation*, 470 pps., Plenum Press (New York). [Proceedings of the Seventh Rochester International Conference on Environmental Toxicity, 5-7 June 1974], [Program listed as citation #3120, this Biblio.].
2474. MICHAELSON, S. M., & MOSS, A. J. (1971), *J. of the Amer. Med. Assoc.*, 216:2006-2007, "Environmental influence on implanted cardiac pacemakers"
2222. MICHAELSON, S. M., & SETE, H. S. (1965) *J. of Occupational Medicine* 7:439-442, (Abstr. #A65-82061), "Microwave cataractogenesis"
3562. MICHAELSON, S.M., & SUESS, M.J. (1974), *IEEE Trans. on Microwave Theory and Techniques*, 22(12):1301-1302, "International program for microwave exposure protection."
1022. MICHAELSON, S. M., THOMSON, R. A. E., EL-TAMAMI, M. Y., SETE, H. S., & HOWLAND, J. W. (1964) *Aerospace Med.* 35(3):824-829, "The hematologic effects of microwave exposure" (Abstr. No. A64-80830)
2475. MICHAELSON, S.M., THOMSON, R.A.E., HANSEN, C.L., Jr., & HOWLAND, J.W. (1960), *Radiation Research*, Abst. No.108, 12:456-457, "Long term effects of ionizing radiation in the dog", ["The most marked abnormalities have occurred following stress with electromagnetic irradiation in the form of 2800 megacycle microwave (radar). A marked susceptibility exists to induced hyperthermia with altered hemodynamic response, lethality and incidence of localized burns. The observed reactions are best explained by alterations in the vascular and/or nervous system"].

1023. MICHAELSON, S. M., THOMSON, R. A. E., & HOWLAND, J. W. (1959) Digest of Tech. Papers, 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, E. P., Chm.) pp. 38-39, "Characterization of the thermal response among animals exposed to microwaves or increased environmental temperature"
1024. MICHAELSON, S. M., THOMSON, R. A. E., & HOWLAND, J. W. (1960) Proc. 3rd Internat. Conf. on Medical Electronics and Biological Engineering, pp. 399-400, "Biomedical aspects of microwave irradiation of mammals"
1025. MICHAELSON, S. M., THOMSON, R. A. E., & HOWLAND, J. W. (1961) Amer. J. of Physiology 201(2):351-356, "Physiologic aspects of microwave irradiation of mammals"
1026. MICHAELSON, S. M., THOMSON, R. A. E., & HOWLAND, J. W. (1962), Radiation Research 16(4):476-, "The potential influence of microwaves on injury and recovery from ionizing radiation"
1027. MICHAELSON, S. M., THOMSON, R. A. E., & HOWLAND, J. W. (1965) Aerospace Med. 36:1059-1064, "Comparative studies on 1285 and 2800 MHz pulsed microwaves"
1028. MICHAELSON, S. M., THOMSON, R. A. E., & HOWLAND, J. W. (1966) In: Proc. of the Symposium on Biomedical Engineering, (Sances, A., Jr., ed.), (held at Marquette Univ., Milwaukee), 1:215-218, "Microwaves in biomedical investigations"
1029. MICHAELSON, S. M., THOMSON, R. A. E., & HOWLAND, J. W. (1967) Bone Air Development Center Tech. Rept. No. RADC-TR-67-461, Sept., (AD 824242L;/ (Also in Senate Hearings), "Biologic effects of microwave exposure"; Final Rept. 1958-1965 [Studies on bone marrow, thyroid function, & CNS] N59-36550; & X68-12450)
1030. MICHAELSON, S. M., THOMSON, R. A. E., KRASAVAGE, W. J., QUINLAN, W. J., & HOWLAND, J. W. (1961) Digest of the Internat. Conf. on Medical Electronics, Biological Effects of Microwaves I (Abstract Aspects), (Frommer, P. L., ed.) Plenum Press, New York, pp. 194-, "The biological effects of microwave irradiation"
1031. MICHAELSON, S. M., THOMSON, R. A. E., ODLAND, L. T., HOWLAND, J. W. (1963) Aerospace Med. 34(2):111-116, "The influence of microwaves on ionizing radiation exposure" (A66-32156),
1032. MICHAELSON, S. M., THOMSON, R. A. E., & QUINLAN, W. J., JR. (1967) Aerospace Med. 38(3):293-298/ "Effects of electromagnetic radiations on physiologic responses"
1033. MICHAELSON, S., et al. (1961) Industrial Med. and Surgery 30:298-, "Tolerance of dogs to microwave exposure under various conditions"
3268. MICKEY, G.H. (1963), Abstr. in Genetics Today, 1():72 only, from Proc. of the 11th Internat. Cong. of Genetics (1963), "Crossing-over in males of *Drosophila* [fruit flies] induced by radio frequency [20 MHz] treatment".
1034. MICKEY, G. H. (1963) New York State J. of Med. 63(13):1935-1942, "Electromagnetism and its effect on the organism"
1035. MICKEY, G. H. (1969) Presented at the Hazards and Utility of Microwaves and radiowaves Seminar, (Heller, J., Chm.), 11-12 Dec., Boston, "Effects of microwaves and radiowaves on plant and animal cells; human genetic and somatic damage"
2949. MICKEY, G.H. (1971), Progress Report Abstracts, Office of Naval Research, Report No. ACR-175, pps. 74-75, Work Unit No. NR101-756, Contr. N00014-69-C-01-76, "Non-thermal hazards of exposure to radiofrequency fields".
1036. MICKEY, G. H., & HELLER, J. E. (1964) / "Radio frequency treatment for breaking dormancy and controlling virus infections of plants" Trans. of the Amer. Soc. of Agricultural Engineers 7(4):398-401
3563. MICKEY, G.H., HELLER, J.H., & SNYDER, E. (1975), New England Institute (Final Report to Office of Naval Research for the period 3/1/69 to 11/30/74), 46 pps., "Non-thermal hazards of exposures to radio frequency fields: Microwave studies."
1037. MICKEY, G. H., & KOERTING, L. (1970) Newsletter of the Environmental Mutagen Society, No. 3, pp. 25-26, "Chromosome breakage in cultured Chinese hamster cells induced by radio-frequency treatment"
1038. MIKHAILOVA, R. I. (1966) Stomatologia (Moskva) 45:49-53, "Experience with microwave therapy in stomatology"
2950. MIKOLAJCZYK, H. (1970), Medycyna Pracy, 21(1):15-20, "Corneal cell mitoses in experimental animals exposed to microwave radiation"
2951. MIKOLAJCZYK, H. (1972), Medycyna Lotnicza, 39():95-104, (In Pol.), (Engl. transl. avail. as, JPRS 59709, dated 3 Aug. 73, Transl. of eastern Europe scientific affairs), "Current research results and future efforts on the problem of the biological effect of microwave radiation in the department of physical injury at the institute of industrial medicine".
2952. MIKOLAJCZYK, H. (1972), Patologia Polska, __ (): pp. ?, "Length of survival in a microwave radiation field by normal rats and rats with removed pituitary gland".
2953. MIKOLAJCZYK, H. (1973), Patologia Polska (Warszawa), 24(2):325-332, (In Pol. w/Engl. summary), "Survival periods of normal and hypophysectomized rats exposed to acute microwave irradiation".
2954. MIKOLAJCZYK, H., & HOLWEK, A. (1972), Medycyna Pracy, __ (): , "Effect of acetylcholine, epinephrine, histamine and serotonin on length of survival of rats exposed to microwave radiation, as well as on the water content in certain tissues of these animals".
2955. MILAM, J.D., SIPEN B., REEVES, A., et al. (1971), Presented at the 13th annual meeting of the South Central Association of Blood Banks, Hot Springs, Ark., "Blood warming using radio frequency induction".

1039. MILCZAREK, H., ZALEJSKI, S., & MAZURKIEWICZ, J. (1967) *Polski Tygodnik Lekarski*, Poland, 22:1924-1927, "Changes in the nervous system in individuals working within the range of microwave radiation"
1040. MILITSIN, V. A. (1937) *Trudy III vses. S'ezda fizioterap.* (Monograph), Kiev, pp. 199-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Problems of using short- and ultra-short waves in medicine"
1041. MILITSIN, V. A. (1938) *Fizioterapiya*, Moskva, (1): "The first international congress on SHF-UHF radiation"
1042. MILITSIN, V. A., & VOZNYA, A. IS. (1957) *Fizioterapiya*, Moskva, (2):33-43, "The influence of chronic action of ultra-high frequency (in weak doses) on the morphology of the blood, hematopoietic, and reticulo-endothelial system"
1043. MILLARD, J. B. (1955) *Annals of Physical Med.* (2):248-252, "Changes in tissue clearance of radioactive sodium from skin and muscle during heating with shortwave diathermy"
2476. MILLER, B. (1971), *Aviation Week and Space Technology*, ():14-16, (Feb. 15), "Soviet radar expertise expands. Radar development plays integral role in USSR military strategy; nears parity, sometimes surpasses U.S. technology". [Discusses frequencies, pulse-repetition rates and -width, power outputs, etc. of current equipment].
2956. MILLER, B. (1971), *Aviation Week & Space Technology*, ():42-50, (Feb. 22), "Soviet radars disclose clues to doctrine", [see also citation #2476, this Biblio. for the 1st article in this series].
2957. MILLER, J.P. (1974), *Human Behavior*, 3(8):16-23, (Aug.), "Relax! The brain machines are here", [reviews the status of human 'cerebral electrotherapy', electrosleep].
1044. MILLER, J. W., & GERUSKY, T. M. (Co-Chairmen), (1959) *Conf. on Federal-State Implementation of Public Law 90-602, "Radiation Control for Health & Safety Act of 1958"*, held in Montgomery, Alabama, 24-28 Mar., U. S. Dept. of Health, Education, and Welfare; Public Health Service; Bureau of Radiation Health, Rept. #ORO 69-4, (Sept.)
2958. MILLER, L.A. (1973), U.S. Department of Health, Education & Welfare, Rept. No. DHEW Publication (FDA) 73-8035, (Mar.), "Federal/State radiation [ionizing & non-ionizing] control legislation 1972".
2477. MILLER, M.W. (1973), *Fourth Quarterly Progress Rept., U. of Rochester, N.Y., Dept. of Radiation Biology and Biophysics*, (Mar.), "Effect of extremely low frequency electromagnetic radiation on chromosomes".
2959. MILLER, S.J., & SHEFTMAN, F.I. (1968), *J. of Occupational Med.*, 10(3):141-?, (Mar.), (AD #260 947), "Evaluation of three microwave densimeters".
2226. MILLS, L. F. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRH/DBE 70-7), pp. 50-52, "Biological effects of diathermy"
2227. MILLS, L. F., & SEGAL, P. (1970) Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. BRH/DBE 70-6), 55 pps., "Radiation incidents registry report 1970" [approx. 15% of the total number of incidents reported (133) involved microwave and/or radio frequency equipment]
1045. MILLS, W. A. (1959) *Conf. on Federal-State Implementation of P.L. 90-602, "Radiation Control for Health & Safety Act of 1958"*, (Miller, J. W., & Gerusky, T. M., Co-Cha.), held in Montgomery, Ala., U. S. Dept. of H. E. W., P. H. S., B. R. H., Rept. #ORO 69-4, (Sept.), pp. 13-25, "Bioeffects of non-ionizing electronic product radiation"
2478. MILLS, W.A. (1971), *J. of Microwave Power*, 6(2):141-150, "A program to study the effects of microwave radiation on biological systems".
2961. MILLS, W.A., TELL, R.A., JAMES, D.E., & HODGE, D.M. (1971), In: *Proc. of the Third Annual National Conf. on Radiation Control*, sponsored by the Dept. of Health, Education & Welfare, Food & Drug Admn., & Bureau of Radiological Health, Rockville, MD, "Nonionizing radiation in the environment".
2223. MILROY, W. C. (1972) Presented at: *Aerospace Medical Assoc., 43rd Ann. Meeting, 8-11 May, Bal Harbour, Fla.*, "Neuroendocrine effects of microwave radiation"
2022. MILROY, W. C., & MICHAELSON, S. M. (1971) *Health Physics* 20:567-575, (Univ. of Rochester Rept. No. UR-49-1314), "Biological effects of microwave radiation"
2224. MILROY, W. C., & MICHAELSON, S. M. (1972) *Aerospace Med.* 43(1):67-75, "Microwave cataractogenesis: A critical review of the literature"
2479. MILROY, W.C., & MICHAELSON, S.M. (1972), *Aerospace Medicine*, 43(10):1126-1131, "Thyroid pathophysiology of microwave radiation".
2225. MILROY, W. C., & MICHAELSON, S. M. (1972) *Internat. J. of Environmental Studies* 4:121-125 (1973), (In Press, Spring, 1972), "The microwave controversy"
2225. MILROY, W.C., & MICHAELSON, S.M. (1973), *Internat. J. of Environmental Studies*, 4():121-125, "The microwave controversy", (listed in third Supplement, this Biblio. with only partial citation).

3269. MILROY, W.C., O'GRADY, T.C., & PRINCE, E.T. (1974), *J. of Microwave Power*, 9(3):214-218, (Sept.), "Electromagnetic pulse radiation: A potential biological hazard?"
3564. MINAYEV, V.V., ZHDANOVICH, N.V., UDALOV, Yu.F., & BAZILEVICH, O.I. (1975), *Gigiyena i Sanitariya*, (3):11-14, (In Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 77-82, "Effects of SHF fields on enzymatic activities and pyridoxine levels in the organs of white rats."
2225. MINECKI, L. (1959) *Medycyna Pracy* 10(1):57-68, (In Pol.), "Hygienic importance of electrical currents of high and ultrahigh frequencies"
2229. MINECKI, L. (1961) *Medycyna Pracy (Poland)* 12:337-344, (FTD-TT-61-380), "The health of persons exposed to the effect of high frequency electromagnetic fields"
1046. MINECKI, L. (1961) *Medycyna Pracy* 12(4):329-335, (In Polish), (AD 271865), (FTD-TT-61-380/1, Dec. 1961, pp. 1-8), "The health of persons exposed to the effect of high frequency electromagnetic fields"
1047. MINECKI, L. (1962) Rept. of the 6th Polish Conf. of Occupational Medicine, "The thermal effect of microwave radiation"; and "Changes in activity of cholinesterase in mice subjected to single and repeated action of microwaves"
1048. MINECKI, L. (1964) *Arhiv za higijenu rada i toksikologiju* 15(1):47-55, (In Polish), (Delivered before the 1st Yugoslav Congress of Occupational Medicine, Beograd, Nov. 1963), "Critical evaluation of maximum permissible levels of microwave radiation"
1049. MINECKI, L. (1964) *Med. pracy* 15:307-315, (In Polish), "Effect of microwave radiation on the sight organs"
1050. MINECKI, L. (1964) *Med. pracy* 15:391-396, (In Polish), "Effect of an rf electromagnetic field on embryonal development"
1051. MINECKI, L. (1965) *Medycyna Pracy* 16:300-304, "Clinical symptoms in workers exposed to the effect of high frequency electromagnetic fields"
1052. MINECKI, L. (1966) *Medycyna Pracy* 17(2):134-136, "Critical evaluation of the health protection of personnel occupationally exposed to high frequency electromagnetic radiations"
1053. MINECKI, L. (1966) *Warsaw*, (In Polish), Electromagnetic Radiation: Biological Effects and Safeguarding of Health (Public Health)
1054. MINECKI, L. (1967) *Zdrow Publiczne* / (2):213-220, "High frequency electromagnetic fields, a new environmental hazard"
1055. MINECKI, L., & BILSKI, R. (1961) *Medycyna Pracy* 12(4):337-344, (In Polish), (AD 271865), (FTD-TT-61-380/1, Dec. 1961, pp. 9-15), "Histopathological changes in the internal organs of mice exposed to the effect of microwaves (S-Band)"
1056. MINECKI, L., OLUBEK, K., & ROMANIUK, A. (1962) *Medycyna pracy* 13:255-264, (In Polish), "Changes in the activity of conditioned reflexes of rats under the influence of the action of microwaves (S-band): 1. Single exposure to microwaves"
1057. MINECKI, L., & ROMANIUK, A. (1963) *Medycyna Pracy* 14:355-360, and 361-372, "Changes in conditioned reflexes of rats under the influence of S-band microwaves (I, and II)"
3565. MININ, B.A. (1974), Microwaves and Human Safety, Moscow, (in Russian), 349 pps., (Translation as JPRS #65506, Part I and Part II (20 Aug. 1975)).
2962. MINTS, S.M., et al. (1973), *Biol. Neonate.*, 11-D():46-49, (In Russ.), "Effect of an ultra high frequency electromagnetic field on the level of metals and metalloproteins in animal organs and tissues".
3567. MINTS, S.M., & LAZAROVICH, V.G. (1975), *Gigiyena Truda i Profess. Zabolovaniya*, (2):54- , (In Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 1-2, "Effect of microwave emission on the content of iron, copper, cobalt and metallic proteins bonded with them in organs and tissues of test animals."
3566. MINTS, S.M., PADALKA, Ye.S., LAZAROVICH, V.G., & ZHIBAK, Ya.D. (1975), *Referativnyy Zhurnal, Biologicheskaya Khimiya*, (2): , Abstr. No. ZF1482 Summary (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), p. 93 only, "The effect of microwave radiation on the metabolism of trace elements, metalloproteins, and some indicators of oxidation-reduction processes in the organism."
1058. MINTZ, M., & HEIMER, G. (1965) *IEEE Trans. on Electromagnetic Compatibility* 7(2):179-183, "New techniques for microwave radiation hazard monitoring"
1059. MIRAHORIAN, L. (1934) (In French with English Summary), Abstr. of the 1st Internat. Congress of Electro-Radio-Biology, (Cappelli, L., ed.) Bologna, Italy, pp. 383-386, "The possibility of clinical diagnostic differentiation of mutations due to electromagnetic energy"
1060. MIRAULT, M. (1950) *Praxis*, Switzerland, 39:927-931, "Microwaves (radar) in electrotherapy"
2230. MIRIMANOFF, A. (1927) *Revue Gen. D'Opht.* 51:97-119, (In Fr.), "Diathermy in ophthalmology"
1061. MIRO, L. (1962) *Revue de Medicine Aeronatique*, Paris, 1 (4):16-17, (In French), "Hematological modifications and clinical disorders observed in persons exposed to radar waves"
2963. MIRO, L., ATLAN, H., ARNAUD, Y., DELTOUR, G., & LOUBIERE, R. (1965), *Revue de Medecine Aeronautique*, 4(16):21 only, (4th quarter), (In Fr.), "Report on the microwave-protection of bacteria exposed to gamma irradiation", [from a Co⁶⁰ source].

2480. MIRO, L., DELTOUR, G., & PFISTER, A. (1968), In: AGARD Pattern Recognition. Body Armour and Aircrew Equipment Assemblies. Current Space Med. Probl. Aeromed. Evaluation, 7 pps. (In Fr.), [Abstr. in STAR 7(20):3725, as N69-3477e. (Oct. 23, 1969)], "Influence of magnetic field variations on the growth of certain microorganisms".
2072. MIRO, L., DELTOUR, G., PFISTER, A., & KAISER, R. (1970) Revue de Medecine Aeronautique et Spatiale, No. 33, pp. 7-8 (in French), "Difficulties involved in describing the dangerous zones for personnel working near radar antennas"
1062. MIRO, L., LOUBIERE, R., & PFISTER, A. (1965) Revue de Medecine Aeronatique, Paris, 4:37-39, (In French), "Research on visceral lesions observed in mice and rats exposed to ultrashort waves: special study of the effects of these waves on the reproduction of the animals"
1063. MIRO, L., LOUBIERE, L., & PFISTER, A. (1966) Revue de Medecine Aeronatique, Paris, 5:9-13, "Morphological and metabolic changes observed experimentally under the influence of high frequency electromagnetic fields"
1064. MIRO, L., LOUBIERE, R., & PFISTER, A. (1967) In: Proc. of the 2nd Internat. Symposium in Basic Environmental Problems of Man in Space, (Bjurstedt, H., ed.), held in Paris, June 1965, Springer Verlag, publisher, pp. 288-297, "Effects of high frequency electromagnetic fields on the uptake of methionine S-35 by the spleen and liver of mice" (A65-26302)
1065. MIRO, L., LOUBIERE, R., & PFISTER, A. (1968) In: Thermal Problems in Aerospace Medicine, (Hardy, J. D., ed.), The Advisory Group for Aerospace Research & Development, NATO, Maidenhead, England, pp. 177-183, "Visceral lesions observed in mice and rats exposed to ultrashort waves: special study of the effects of these waves on the reproduction of the animals"
1066. MIRO, L., ATLAN, H., ARNAUD, Y., DELTOUR, G., & LOUBIERE, R. (?) Ref? "A note on the radio protection experienced by bacteria exposed to ultrahigh frequency waves"
1067. MIRUTENKO, V. I. (1962) Fiziologii Zh. Akademiya Nauk UKR SSR, 8(3):382-389, (AD 292205), (FTD TT-62-1361/1+2), "Investigating local thermal effect of electromagnetic (3 cm) waves on animals"
1068. MIRUTENKO, V. I. (1964) In: The Biological Action of Ultrasound and Super-high-Frequency Electromagnetic Vibrations, Naukova Dumka, Akademiya nauk Ukrainskoy SSR, Institut Fiziologii, Kiev, pp. 62-79, (Abstr. in Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, pp. 92-93 (1965), "SHF dosimetry and nonthermal threshold determination"), "The thermal effects of a SHF electromagnetic field on animals, and some problems of SHF-field dosimetry"
1069. MIRUTENKO, V. I. (1964) Fiziologii Zh. Akademiya Nauk UKR SSR 10(5):641-646, (JPRS 29375), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Effect of blood circulation on the distribution of heat, and the magnitude of the thermal effect during action of a SHF-UHF electromagnetic field on animals"
2231. MIRUTENKO, V. I. (1964) In: Problems of the Biophysics and Mechanism of Action of Ionizing Radiation, Kiev, Zdorov'ya, pp. 79-82, "Heat distribution in the organs and tissues of animals exposed to UHF electromagnetic field"
1070. MIRUTENKO, V. I. (1965) (In Russian), In: Problems in Biophysics and the Mechanism of Action of Ionizing Radiation, Kiev, Zdorov'ya, pp. 79-82, "Heat distribution in the organs and tissues of animals exposed to a UHF electromagnetic field"
2964. MIRUTENKO, V.I., & BOGACH, P.G. (1972), In: Gigiena truda i biologiceskoje dejstvie electromagnitnyh voln radiocastot [Labour hygiene and the biological effect of electromagnetic radio frequency waves], Moscow, ___():60- , "Effect of VHF electromagnetic fields on the membranous potential of nerve cells of isolated mollusc ganglions".
3568. MIRUTENKO, V.I., & BOGACH, P.G. (1975), Fiziolohichnyy Zh., 21(4):528-531 (in Ukrainian), Transl. In: "Effects of Non-ionizing Electromagnetic Radiation"(JPRS #66512), (7 Jan. 1976), pp. 7-13, "Changes in the membrane potential of nerve cells of isolated ganglia in the mollusk Planorbis corneus under the influence of a UHF electromagnetic field."
2965. MIS, M. (1973), Klin. Oczna, 43():1039-1040, (In Pol.), "Magnetic cryoapplicator".
1071. MISHCHENKO, L. I. (1969) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 68(7):56-58, (In Russian with English Summary), "The influence of an ultra high frequency electromagnetic field on the carbohydrate metabolism in the brain of rats"
2966. MISHCHENKO, L.I. (1972), Gigiena Truda i Professional'nye Zabolevaniia (Moskva), 16():48-50, (In Russ. no Engl. summary), "Effect of UHF electromagnetic fields on energy metabolism in animal tissues".
2967. MISHCHENKO, L.I., & FRENKEL, S.R. (1972), Ukrains'kyi Biokhimichnyi Zhurnal (Kiev), 44():483-486, (In Russ. w/Engl. summary), "Metabolic changes in nitrogenous substances [NH₂, glutamine, glutamate, protein amide N, AMP, and AMP-deaminase] in animal [rat] nerve tissue [brain] under the effect of an ultra-high frequency electromagnetic field".
1072. MISHIN, V. V. (1964) Vsesoyuznoye Fiziologicheskoye Obshchestvo. Voronezhskoye Otdeleniye Nekotoryye Voprosy Fiziologii i Biofiziki, Trudy Otdeleniye. Izd-vo Voronezh Univ., pp. 40-46, "Change of lability of the neuromuscular system under the influence of electromagnetic oscillations in the audio frequency range"
2481. MITCHELL, J. & BONNEY C. (1972), J. of the Assoc. for the Advancement of Med. Instrumentation, 6:179-180, "in vivo testing of cardiac pacemakers in electromagnetic radiation fields".
2482. MITCHELL, J.C., RUSTAN, P.L., FRAZER, J.W., & HURT, W.D. (1972), (USAF School of Aerospace Medicine, Brooks AFB, Texas), Presented at the IEEE Int'l Symposium on Electromagnetic Compatibility, Arlington Heights, Illinois, July 18, as "Electromagnetic compatibility of cardiac pacemakers".
1073. MITCHELL, J. P., & LUMB, G. N. (1960) Proceedings of the Royal Society of Medicine 53:348-354, "Hazards of diathermy in urology"

1074. MITTLEMANN, E. (1961) Digest of Internat. Conf. on Medical Electronics, Biological Effects of Microwaves I (Athermal Aspects), (Frommer, P. L., ed.), Plenum Press, New York, pp. 193-, "Relationship between heat sensation and high frequency power absorption"
3270. MITTLER, S. (1972), Northern Illinois Univ., DeKalb, Final Rept. (AD #749-959), (Sept. 15), "Low frequency electromagnetic radiation and genetic aberrations".
3569. MIZUSHIMA, Y., AKOAKA, I., & NISHIDA, Y. (1975), *Experientia*, 31(12):1411-1412 (Dec. 15), Effects of magnetic field on inflammation."
2483. MOAYER, M. (1971), *Strahlentherapie*, 142(5):609-614, (In Ger.), "Morphological changes in the placenta under the influence of short-wave irradiation". [Rats, at 27 MHz; observed marked histological alterations.]
2484. MOCZULSKI, W., & JAKUBEZYK, A. (1972), *Psychiatr. Pol.*, 6(2):111-116, (In Pol.), "Diagnostic and forensic problems in cases of so-called 'microwave neuroses'", [discusses etiology of mental changes "brought about by high frequency electromagnetic radiation"].
1075. MOGENDOVICH, M. R. (1937) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 4:246-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), Title not given, [Discusses changes in conductivity of nerves upon exposure to EMF]
2232. MOHR, C. C., & CASHIN, J. L. (1970) Aerospace Med. Res. Lab., Wright-Patterson AFB, Rept. AMRL-TR-68-32, "Biomagnetic response of simple biological systems and the implications for long duration space missions" [results indicated no significant effect on the two biologic systems studied]
1076. MOLCHAMEV, K. (1944) *Biulleten Eksperimental'noi Biologii i Meditsiny (Giesen)* 18:1-20, "Bactericidal effect of ultrashort waves on microflora of metallic foreign bodies: experimental studies"
3271. MOLCHANOVA, N.S., & GEMBITSKIY, Ye.V. (1973), In: *Voyenno-Polevaya Terapiya*, (Military Field Therapy), Chap. 5, pps. 198-206, (In Russ.), (Transl. in JPRS No. 62942, Sept. 12, 1974, pp. 14-22), "The effects of superhigh frequency electromagnetic fields (SHF-EMF) on the [human] body".
2485. MOLNAR, G.W. (1966), In: First International Symposium on Electrotherapeutic Sleep and Electroanesthesia, Graz, Austria, (12-17 Sept.), "Electronarcosis and the breathing rate in the rabbit".
1077. MONAYENKOVA, A. M., & SADCHIKOVA, M. N. (1966) *Gigiena Truda i Professional'nyye Zabollevaniya* 10(7):18-21, (JPRS 38663; ATD Rept. 66-123, Oct. 1966), (AD 644 533) "Hemodynamic indices during the action of super-high frequency electromagnetic fields"
2233. MONBRUN, A., & CASTERAN, M. (1927) *J. d'Ophth. Med. Franc.* 16:136 (April), (In Fr.), "Diathermy in ophthalmology"
2234. MONCREIFF, W. F., COULTER, J. S., & HOLMQUEST, H. J. (1932) *Amer. J. of Ophth.* 15(3):194-205, (Abstr. in: *Zentralbl. f. d. ges. Ophth.* 27(7):406-407 (1932)), "Experimental studies in diathermy applied to the eye and orbit. A. Thermal effect of diathermy"
2235. MONCREIFF, W. F., COULTER, J. S., & HOLMQUEST, H. J. (1933) *Amer. J. of Ophth.* 16(3):193-199, (Abstr. in: *Zentralbl. f. d. ges. Ophth.* 29(6):347 (1933)), "Experimental studies in diathermy applied to the eye and orbit. B. Comparison of thermal effects of diathermy, infrared radiation, and an electric heating pad"
2968. MOORE, R.L., SMITH, S.W., CLOKE, R.L., & BROWN, D.G. (1970), In: Proc. of the 4th Annual Midyear Topical Symposium, the Health Physics Soc., Louisville, KY, 28-30 Jan.; Bureau of Radiological Health, U.S. Dept. of Health, Education & Welfare, Rept. No. BRH/DEP 70-26, (Oct.), pps. 423-429, "A comparison of microwave detection instruments", [in connection with hazard surveys], (also listed in BRH/DEP Rept. No. 70-7 (Apr.)).
1078. MOORE, R. I. (1969) Presented at the Hazards & Utility of Microwaves & Radiowaves Seminar (Heller, J., Chm.), Boston, 11-12 Dec., "Government relations: problems and plans"
1079. MOORE, W., JR. (1968) Report T53-68-4, 25 pages, U.S. Dept. of Health, Education, and Welfare, Public Health Service, Consumer Protection & Environmental Health Service, Environmental Control Admin., Bur. of Radiation Health, Rockville, Md., "Biological aspects of microwave radiation: a review of hazards"
1080. MOOS, W. (1964) *Aerospace Med.* 35:374-³⁷⁷ "A preliminary report on the effects of electric fields on mice"
1081. MOOSSIKINS, B. (1948) *Rev. Morrel* 60:364-366, "Rapid modification of local temperature following application of short waves and its clinical significance"
1082. MORELLINI, M., & INGRAO, F. (1943) Abstr. only in: *Zentralblatt fur die gesamte radiologie*, p. 216 only, (In German), "Effect of short waves on the vegetative nervous system"
1083. MORESSI, W. J. (1964) *Experimental Cell Research* 33:240-253, "Mortality patterns of mouse sarcoma-180 cells resulting from direct heating and chronic microwave irradiation"
1084. MORGAN, W. E. (1960) *AMA Arch. of Industrial Health* 21:570-573, (Also, *Safety Maintenance* 16-, July 1959), "Microwave radiation hazards"
1085. MORRELL, R. M. (1959) Digest of Tech. Papers, 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan H. P., Chm.) pp. 32-33, "Radio telemetry of whole-nerve action potentials"
1086. MORTIMER, B., & OSBORNE, S. I. (1935) *J. of the Amer. Medical Assoc.* 104:1413-1419, "Tissue heating by short wave diathermy: some biologic observations"

1087. MOSES, P. (1951) *Medecine Aeronautique*, Paris, 6:143-144, "Recent investigations on the biologic effect of radar"
1088. MOSINGER, M., & BISSEOP, G. (1960) *C. r. seances soc. biol. filiales associees* 154:1016-1017, (In French), "On the histological reactions following irradiation of intratissular metal pieces by microwaves"
1089. MOSKALENKO, YU. YE. (1958) *Biofizika* 3(5):619-626, "The use of SHF-UHF fields in biological research"
2969. MOSKALENKO, Yu. Ye. (1960), *Biofizika*, 5(2):225-228, "Application of centrimetre radio waves for non-contact recording of changes in volume of biological specimens".
1090. MOSKALENKO, YU. YE. (1960) in: Elektronika v Meditsine, (Berg, A. I., ed.) Moscow, Leningrad, pp. 207-218, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Clinical and biological application of SHF-UHF electromagnetic fields"
1091. MOSKALENKO, J. E. (1961) *Nov. med. techn. Moskva*, :79-88, (In Russian), "Some of the possible biophysical mechanisms for the interaction of the energy of an electromagnetic field with living structures"
1092. MOSKALYUK, A. I. (1949) *Avtoref. Kand. Dissertation* (Author's abstract of dissertation, Candidate), Leningrad, "Latent reflex period as an indicator of SHF-UHF field effect"
1093. MOSKALYUK, A. I. (1957) *Tr. VMOLA* (Report of Military Medical "Order of Lenin", Akad. imeni S. M. Kirov) 73:133-, "Effect of a SHF field on oxidation reduction processes in some rabbit tissues"
1094. MOSKWA, W., et al. (1965) *Kosmos-Seria A Biologia* :277-284, (JPRS 33,500), "Biophysical effects of a constant magnetic field"
3272. MOSLAK, T. (1974), *Approach Magazine* (Navy Aviation Safety Magazine), ():6-9, (Aug.), "Hazards [including biological] of high frequency radiation".
1095. MOTSYNI, P. E. (1936) *Dnepropetrovsk, Universitet. Nauchnyye Zapiski* 4:4-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), Title not given, [Discusses altered response in muscle following UHF exposure]
1096. MOYNIEL, G. (1950) *Revue de Medecine* 25:39-40, "Biologic effect of electromagnetic radiation (short wave) on isolated cells"
1097. MUECH, V. (1951) *Ophthalmologica* (Basel) 121:41-43, "Ultra short wave therapy following extra capsular cataract extraction"
3570. MUHLEISEN, R. (1967), *Zeitschrift für Vergleichende Physiologie*, 54():20-25, "Measurement of electrical fields inside of animal cages."
3571. MUKHARSKIY, M.S. (1975), *Vrachebnoye Delo*, (1):118-121 (In Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"(JPRS #66512), (7 Jan. 1976), pp. 56-59, "Hygienic evaluations of the medium wave range electromagnetic field in conditions of populated areas."
2486. MULDER, J.B. (1971), *Laboratory Animal Science*, 21(3):389-393, "Animal behavior and electromagnetic energy waves".
1098. MULLER, H. (1949) *Arch. of Physical Med.* 29:765-769, "Experimental lenticular opacities produced by microwave irradiations"
1099. MULLER, H. (1950) *Amer. Scientist* 38:33-39, "Radiation damage to the genetic material"
1100. MUMFORD, W. E. (1956) *Bell [Telephone] Labs. Progress Rept.* 717, "Hazards to personnel near high power UHF transmitting antennas"
3273. MUMFORD, W.M. (1969), *J. of Microwave Power*, 4(4):244-252, "Heat stress due to RF radiation". [See also citation #1102, this Biblio.]
1101. MUMFORD, W. W. (1961) *Proc. of the Institute of Radio Engineers* 49(2):427-447, "Some technical aspects of microwave radiation hazards"
1102. MUMFORD, W. W. (1969) *Proc. of the Institute of Electrical & Electronics Engineers* 57(2):171-178, "Heat stress due to RF radiation" (Also: *Non-Ionizing Rad.* 1(3):113-113 (1959))
1103. MUMFORD, W. W. (1970) In: *Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium*, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 21-34, "Heat stress due to RF radiation"
2058. MUMFORD, W. W. (1971) *Presentation at Meeting of N. Y. Acad. of Sci.*, 6 Oct., "Radio-frequency radiation hazards"
1104. MUNGO, A. (1962) *Folia Medica* (2):156-, (In Italian), "Radar: Technology, pathology, and prevention"
1105. MURASHOV, B. F. (1966) *Voenno Meditsinskii Zh. (Moskva)* (6):82-83, "The lingering effect of an ultrahigh frequency field on the hypophyseal system: the cortex of the adrenal glands"
2487. MURATOV, V. I., & TURAYEVA, A. P. (1972) *Voyenno Meditsinskiy Zhurnal*, (1):22-24, "Changes in the cardiovascular system under the influence of the chronic action of UHF"
2970. MUROFF, L.R., & SAMARAS, G. (1969), In: *Radiation Bio-Effects: Summary report Jan.-Dec. 1969*, BRH/DBE 70-1, (HODGE, D.M. (ed.)), "Prolongation of life in a microwave field by means of an environmental chamber".

1106. MURPHY, A. J., PAUL, W. D., & HINES, H. M. (1950) Arch. of Physical Med. 31:151-156, "A comparative study of the temperature changes produced by various thermogenic agents"
2488. MURPHY, R.L.H., BLOCK, P., BIRD, K.T., & YURCHAK, P. (1973), CHEST, 63(4):578-581, (Apr.), "Accuracy of cardiac auscultation [transmitted] by microwave". [Use of the telestethoscope to detect heart murmurs, and to permit cardiac consultation by the physician when remote from the patient].
1107. MURPHY, R. M., KLAUSEN, J., JUSTESEN, D. R., & PENDLETON, R. B. (1967) Scientific Proc., Amer. Psychiatric Assoc. 123(1): 201-202, "Enhanced relearning following electroshock and fibrille (microwave) induced convulsions"
1108. MURR, L. (1965) Nature 206:467-, "Biophysics of plant growth in an electrostatic field"
1109. MURRAY, J. L. (1963) M. S. Thesis, Dept. of Radiation Biology, Univ. of Rochester, School of Med. and dentistry, Rochester, New York, 12 pages, (AD 415814), "Some Biological Aspects of Microwave Radiation"
1110. MURRAY, R. J. (1959) Safety Manual, Sperry Gyroscope Co., "Microwave safety precautions"
1111. MURRAY, R., ABRAHAM, J. D. R., CHAMBERS, J. H., ELLIOTT, P. M., FRENCH, G. E., GILBERT, P. R., HOLDEN, H., & MUIRHEAD, A. (1969) Non-Ionizing Radiation 1(1):7-8, "How safe are microwaves?"
2236. MUSIL, J. (1970) Ceskoslovenska hygieny 15(9-10):315-320, (In Czech.), "Values of field intensity in the surroundings of high frequency industrial generators"
1112. MUSIL, J., & MARHA, K. (1963) Final Report of the Institute of Industrial Hygiene and Occupational Diseases, Prague, (In Czech), Measurement of Rf Field Intensity in Work Areas According to the Guidelines Issued by the Surgeon General
1113. MUSIL, J. (1964) Final Report of the Institute for Industrial Hygiene and Occupational Diseases, Prague, (In Czech), Reflection and Absorption of Electromagnetic Energy in a Model of the Body
1114. MUSIL, J., & MARHA, K. (1965) Czech. patent No. 115-714, "Wide-band device for measuring the intensity of an electromagnetic field for health purposes"
1115. MUSIL, J. (1965) Final Report of the Institute for Industrial Hygiene and Occupational Diseases, Prague, (In Czech.), The Effect of Clothing on the Absorption of UHF Energy in the Organism
1116. MUSIL, J. (1965) Slaboproudny Obzor, Prague, 26(7):391-397, (In Czech.), "Effect of the constitution of the body on the absorption of electromagnetic waves"
1117. MUSIL, J. (1965) Sdelovaci technika 13(4):145-146, (In Czech.), (ATD 68-129), "Measurement of the intensity of an electromagnetic field for hygienic purposes"
1118. MUSIL, J. (1965) Final Report of the Institute of Industrial Hygiene and Occupational Diseases, Prague, (In Czech.), Possibilities of Using Simple Measurements of Power Density of Electromagnetic Waves for Health Purposes
1119. MUTH, E. (1927) Kolloid-Zeitschrift 41:97-102, (In German), "Concerning the appearance of the (string of) pearl chain formation of emulsion particles under the effect of an alternating field"
1120. MUTSCHALL, V. E. (1969) Foreign Science Bulletin, Library of Congress, 5(2):13-36, (ATD Rept. #66-92), (AD #642-029), "Biological effects of high frequency electromagnetic waves" (This biblio. translation of citation #977).
1121. MUTSCHALL, V. E. (1969) Foreign Science Bulletin, Library of Congress, 5(6):18-55, (AD 689769; N69-33390), "Response of the nervous system to microwave radiation"
2971. NADASKI, M. (1961), Orthopedics, 2(5):336-338, "Inhibition of experimental arthritis by athermal pulsating short waves in rats".
1122. NADEL, A. B. (1961) General Electric Co., Technical Military Planning, Santa Barbara, Calif., Report #RM 61TMP-29, 21 pages, "Selected biologic effects of microwave radiation"
1124. NAGELSCHMIDT, P. (1935) Arch. of Physical Therapy 16:457-465, "The condenser field: an improved method of application" [diathermy]
3572. NAHAS, G.G., BOCCALON, H., BERRYER, P., & WAGNER, B. (1975), Aviation, Space, & Environmental Medicine, 46:1161-1163 (Sept.), "Effects in rodents of a 1-month exposure to magnetic fields" [200-1200 Gauss].
1123. NAKAMURA, H., OKAMURA, H., & TANAKA, K. (1938) Gann (Japanese J. of Cancer Research) 32:294-300, "Short and ultrashort waves, their effects on glycogen, Vitamin C, glutathione, calcium and potassium contents, and on cytochrome oxidase reaction"
1125. NALIVAVKO, G. T. (1939) Dnepropetrovsk. Universitet. Institut Fiziologii. Sbornik rabot, 2:2-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), (Title not given) [Discusses alteration in muscle response following UHF irradiation]
2972. NASH, A.G. (1973), Letter: Brit. Med. J., 4() :783 only, "Diathermy burn hazard".
2489. NEALEIGH, R.C., GARNER, R.J., MORGAN, R.M., CROSS, H.A., & LAMBERT, P.D. (1971), Journal of Microwave Power, 6(1):49-54, "The effect of microwave on Y-maze learning in the white rat". [Performance of rats in a Y-maze learning task was altered by exposures of 2.45 GHz microwaves at a measured maximum level of 50 mw/cm²].

1126. NEIDLINGER, R. W. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):250-251, "Microwave cataract"
1127. NEIFELD, H. (1935) Arch. of Physical Therapy 16:544-549, "Some effects of electric currents on human respiratory movements" [Diathermy]
- In:
1128. NELSON, D. J., JR., & SOLEM, D. L. (1969)/Bureau of Radiation Health Rept. #ORO 69-4, (Conf. on Federal-State Implementation of Public Law 90-602, (Miller, J. W., & Gerusky, T. M., co-chn.)), pp. 54-56, "Laser and microwave problems"
3274. NELSON, S.O. (1962), Transactions of the Amer. Soc. of Agricultural Engineers, 5(1):20-25 & 30, "[Non-ionizing electromagnetic] Radiation processing in agriculture".
2237. NELSON, S. O. (1966) Farm, Ranch, & Home Quart., No. 132, pp. 15-16, (Summer), "New ways to control insects" [including use of r-f radiation]
2973. NELSON, S.O. (1966), Trans. of the Amer. Soc. of Acoustic Engineers, 9():398-403 & 405, "Electromagnetic and sonic energy for insect control".
2974. NELSON, S.O. (1967), In: Pest Control — Biological, Physical, and Selected Chemical Methods, (KILGORE, W.W., & DOUITT, R.L. (eds.)), Academic Press, NY, pp. 89-145, "Electromagnetic energy".
3275. NELSON, S.O. (1972), Cereal Science Today, 17(12):377-378 & 387, (Dec.), "Insect control possibilities of electromagnetic energy".
3276. NELSON, S.O. (1972), J. of Microwave Power, 7(3):231-240, "Possibilities for controlling store-grain insects with RF energy".
2975. NELSON, S.O. (1973), Bull. of the Entomol. Soc. of Amer., 19(3):157-163, "Insect control studies with microwaves and other radiofrequency energy."
2978. NELSON, S.R. (1973), Radiation Research, 55():153-159, "Effects of microwave irradiation on enzymes and metabolites in mouse brain".
2976. NELSON, S.O. (1973), Trans. of the Amer. Soc. of Agricultural Engineers, 16(5):902-905, "Microwave dielectric properties of grain and seed".
3277. NELSON, S.O. (1974), IMPI Newsletter, 2(3):19-21, (Aug.), "Agricultural microwave applications research".
2977. NELSON, S.O., & CHARITY, L.F. (1972), Trans. of the Amer. Soc. of Acoustic Engineers, 15(6):1099-1102, "Frequency dependence of energy absorption by insects and grain in electric fields."
3278. NELSON, S.O., & KANTACK, B.H. (1966), J. of Economic Entomology, 59(3):588-594, (June), "Stored-grain insect control studies with radio-frequency energy".
3279. NELSON, S.O., & SEUBERT, J.L. (1966), In: Scientific Aspects of Pest Control, Pub. No. 1402, Nat'l Acad. of Sciences-Nat'l Res. Council, Wash., DC, "Electromagnetic and sonic energy for pest control".
3573. NELSON, S.O., & STETSON, L.E. (1974), IEEE Trans. on Microwave Theory and Techniques, 22(12):1303-1305, "Possibilities for controlling insects with microwaves and lower frequency RF energy."
3280. NELSON, S.O., STETSON, L.E., & RHINE, J.J. (1966), Transactions of the Amer. Soc. of Agricultural Engineers, 9(6):809-815, "Factors influencing effectiveness of radio-frequency electric fields for stored-grain insect control".
3281. NELSON, S.O., & WHITNEY, W.K. (1960), Transactions of the Amer. Soc. of Agric. Engineers, 3(2):133-137 & 144, "Radio-frequency electric fields for stored grain insect control".
2490. NESMENIANOVA, E.L. (1972), Voprosy Kurortologii Fizioterapii i Lechebnoi Kul'try, 37(4):345-347, (July-Aug.), "Microwave therapy in the complex treatment of patients with acute pneumonia."
1129. NETREBA, M. I. (1963) In: Aviation & Space Medicine, (Paris, V. V., ed.), Acad. of Med. Sci., USSR, Moscow, (NASA transl. TT-F-228, pp. 321-324; N65-13739), "The sanitary aspect of the working conditions around SHF-UHF generators"
2491. NEUMANN, E., & KATCHALSKY, A. (1971), In: Eur. Biophysics Congr., 1st, held in Baden, Austria, (BRODA, E., LOCKER, A., & SPRINGER-LEDERER, H., eds.), Vienna, Wiener Medizinische Akademie, pp.91- , "Hysteretic conformational changes in biopolymers induced by high electric fields, — Model for a physical record of biological memory".
1130. NEWMAN, H. F., & WILHELM, S. F. (1950) J. of Urology 63(2):349-352, "Testicular temperature in man"
2979. NIEMEYER, H.J. (1972), Presented at the Societe Francaise d'Electrotherapie, 24 Apr., "Electrophysiology and non-thermal pulsed electromagnetic energy in tissue healing".
1131. NIEPOLOMSKI, W., & SMIGLA, K. (1966) Polish Medical J. 5:396-405, (Also, Patologie Polska (Warszawa) 16:129-139, 1965), "Visceral pathomorphology of experimental animals subjected to the action of 10.7 Mhz electromagnetic fields"
1132. NIESET, R. T., et al. (1957-1961) Progress Reports (Tulane Univ.) on Investigations of the Biological Effects of Microwave Irradiation: (1956, AD 149246; 1958, AD 225409 and 225337; 1959, AD 214693, AD 230822, RADC-TR-59-67-215, and -311; 1960, AD 229023, AD 257198; 1961, RADC-TR-61-65); (Also: Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.), (1958), pp. 202-214, "Review of the work conducted at Tulane University") and (Investigators' Conf. on Biological Effects of Electronic Radiating Equipments, (Knauf, G. M., (chn.), RADC-TR-59-67, pp. 6-11), "Neural effects of microwave radiation"

2980. NIKOGOSIAN, S.V. (1970), Zh. Eksp. Klin. Med., 10():108-110, (Jun.), (In Russ.), "Sanitary-hygienic studies of working conditions during high-frequency heating".
1133. NIKOGOSYAN, S. V. (1959) In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, p. 51 only
1134. NIKOGOSYAN, S. V. (1960) Trudy Mii Gigiyena Truda i Profzabolevaniya AMN, SSSR, (1):81-84, (Also in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, JPRS 12471, pp. 83-88, "Influence of UHF on cholinesterase activity in the blood serum and erythrocytes"); (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965); (Also, abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD Rept. P-65-68, Sept. 1965, pp. 33-34, "Effect of UHF on blood-serum cholinesterase activity"), (In Russian), "Influence of SHF-UHF on the cholinesterase activity in the blood serum, and on the organs of animals"
1135. NIKOGOSYAN, S. V. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field, Kirov Order of Lenin Military Medical Academy, Leningrad, "The effect of centimeter and decimeter waves on the content of protein and protein fractions in the blood serum of animals"
1136. NIKOGOSYAN, S. V. (1964) Trudy Mii Gigiyena Truda i Profzabolevaniya AMN, SSSR, (2):43-48, "A study of cholinesterase activity in the blood serum and organs of animals subjected to the chronic effects of microwaves"; *ibid.*, pp. 66-67, "Effects of 10 cm waves on the content of nucleic acids in animal organs"; *ibid.*, Issue 9, pp. 56-, "Effect of 10 cm waves on amount of protein fractions in animal blood serum"; (Also in: The Biological Action of Radio-Frequency Electromagnetic Fields, Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Sciences, USSR, Moscow)
1137. NIKOGOSYAN, S. V. (1967) Bulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 64(9):56-58, (Abstr. in: Soviet Radio-biology, ATD 68-105-103-9, pp. 81-82, June 1968; AD 671436), "Changes in protein metabolism under chronic exposure to 10 cm low-intensity waves"
3574. NIKOGOSYAN, S.V. (1970), Doklady: Akademiya Nauk Azerbaydzhanskoj SSR, 10(6):108-110 (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"(JPRS #66512), (7 Jan. 1976), pp. 90-92, "Sanitary hygienic investigation of working conditions during high frequency heating."
2492. NIKOGOSYAN, S.V. (1971), Gigiyena Truda i Professional'nyye Zabolevaniya, (7):49-51, (JPRS abstract), "Analyzer function in persons exposed to radio waves".
1138. NIKOGOSYAN, S. V., & KITSOVSKAYA, I. A. (1968) Gigiyena Truda i Professional'nyye Zabolevaniya (Moskva) (5):53-55, "Changes in the activity of cholinesterase in the central nervous system of animals with different functional conditions under the action of low intensity decimeter waves"
1139. NIKOLAËVA, E. N. (1953) Sborn. Eksp. Klin. Neurolog. (Monograph), "On experimental basis of use of UHF currents in medical practice"
2981. NIKOLAËVSKAYA, V.P. (1971), Vopr. Kurortol. Fizioter. Lech. Fiz. Kult., 36():423-426, (Sep.-Oct.), (In Russ.), "Changes in the temperature of the tympanic cavity and maxillary sinus under the action of magnetic, electric, and electromagnetic fields".
1140. NIKOLOVA-TROYEVA, L. (1964) Voprosy Kurortologii, Fizioterapii i Lechebnoj Fizicheskoj Kul'tury (Problems in Health Resort Sci., Physiotherapy and Medical Physical Culture), Moscow, 29(3):239-242, (JPRS 26038; N64-27670), "Results of microwave treatment of some diseases"
1141. NIKONOVA, K. V. (1960) Gigiyena Truda i Professional'nyye Zabolevaniya (Moskva) (1):9-12, "The hygienic characteristic of labor conditions during work with high frequency heating in the electrovacuum industry"
1142. NIKONOVA, K. V. (1960) In: Physical Factors of the Environment, Letavet, A. A., (ed.), pp. 163-170, "The problem of labor hygiene during work with high frequency generators in the electrovacuum industry"
1143. NIKONOVA, K. V. (1963) Kand (Candidate's) Dissertation, Moscow, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Materials on the hygienic assessment of high frequency electromagnetic fields (medium and long waves)"
1144. NIKONOVA, K. V. (1964) Trudy Mii Gigiyena Truda i Profzabolevaniya AMN, SSSR, (2):49-56, "Effects of high frequency electromagnetic fields on the functions of the nervous system"; *ibid.*, pp. 61-65, "Effects of high frequency electromagnetic fields on blood pressure and body temperature of experimental animals"; (Also in: The Biological Action of Radio-Frequency Fields, Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Sciences, USSR, Moscow)
1145. NIKONOVA, K. V., & FUKALGTA, P. P. (1962) Gigiyena Truda i Professional'nyye Zabolevaniya (Moskva), 6(3):8-13, (JPRS 13920; N62-12615), "Hygienic evaluation of working conditions and the effectiveness of protective (safety) measures during the induction heating of metal using high frequency tube generators"
3575. NIKORYUKINA, I.P. (1975), Vrachebnoye Delo, ():40-43 (Dec.), (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"(JPRS #L/5787), 26 Mar. 1976, pp. 19-23, "Use of inductothermy and microwaves in integrated treatment of patients with chronic colitis."
1146. NIZENIK, G. V. (1956) Zh. Obshchei Biologii, Moscow, 17(4):311-316, "Viability changes in sexual cells of male rabbits and mice under the action of VHF-HF fields"
2493. NORTHROP, R.B. (1967), IEEE Trans. on Bio-Medical Engineering, BME-14(3):191-200, "Electrofishing".
1147. NOVAK, J. & CERNY, V. (1963) Casopis Lekarů Ceskych, Prague, 102:496-497, (In Czech) "Influence of a pulsed electromagnetic field on the human organism"

2238. NOVITSKIY, Yu.I., GORDON, Z.V., PRESMAN, A.S., & KHOLODOV, Yu.A. (1971), (176 pps. Transl. of Chapt. 1, Vol. 2, Part 1 of Osnovy Kosmicheskoy Biologii i Meditsiny (Foundations of Space Biology & Medicine), Moscow, Acad. of Sciences USSR (1970), 288 pps. from Russ.), NASA TT-F-14,021, Radio Frequencies and Microwaves: Magnetic and Electrical Fields.
3282. NOVITSKIY, Yu.I., STREKOVA, V.Yu., & TARAKANOVA, G.A. (1971), In: KHOLODOV, Yu.A. (ed.), Influence of Magnetic Fields on Biological Objects, (Citation #3230, this Biblio.), pp. 65-84, "The influence of constant magnetic fields on the growth of plants".
1148. NUNORI, N., & TORRISI, S. (1930) Amer. J. of Physical Therapy, (9):130-, "A specific effect of high frequency electric currents on biological objects"; and Ibid, (11):102-, "Ultra-high frequency electromagnetic vibrations: their effects upon living organisms"
3576. NUCCITELLI, R., & JAFFE, L.F. (1974), Proceedings of the National Academy of Science, 71(12):4855-4859, "Spontaneous current pulses through developing fucoid eggs" [common seaweed eggs studied using extra-cellular vibrating electrode].
1149. NYROP, J. E. (1946) Nature 157(3976):51 only, (12 Jan.), "A specific effect of high-frequency electric currents on biological objects"
2982. OATES, W.H., Jr., SNELLINGS, D.D., Jr., & WILSON, E.F. (1973), Amer. J. of Public Health, 63(3):193-198, "Microwave oven survey results in Arkansas during 1970".
2983. OBERG, P.A. (1973), Medical & Biological Engineering, 5():55-64, (Jan.), "Magnetic stimulation of nerve tissues", [using a stationary magnetic field (1 kHz to 1 MHz)].
1150. O'BRIEN, C. K., RICHARDSON, A. W., & KAPLAN, E. M. (1971), (Tower International Technomedical Institute)/J. of Life Sciences 1(1):1-8, "Histopathologic changes in rat liver following 2450 MHz microwave radiation" I.-I.-I.
1151. OBROSOV, A. N. (1960) In: Elektroniki V. Meditsin, Berg, A. I. (ed.), Moscow, pp. 197-206, "Basic trends in the application of electronics in physiotherapy"
1152. OBROSOV, A. N. (1963) Proc. of 1st Republican Conf. of Physiotherapists and Health-Resort Specialists of the Ukrainian SSR, Kiev, pp. 238-, "A pulsed UHF field - a new therapeutic factor"
1153. OBROSOV, A. N. (1967) In: Therapeutic Electricity and Ultraviolet Radiation, Licht, S. H., (ed.), E. Licht, Publisher, New Haven, Conn., 2nd Edition, (Vol. 4 of the Physical Medicine Library), Chapt. 5, pp. 179-187, "Electrosleep therapy"
1154. OBROSOV, A. N., & KROTOV, A. (1966) Meditsinskaya Gazeta, Navy, USSR, p. 3 only, "VHF-HF pulse therapy"
1155. OBROSOV, A. N., & SKURIKHINA, L. A. (1964) Klinicheskaya Meditsina 42(4):139-144, (JPRS 25235), "Experience in the treatment of patients using microwaves"
1156. OBROSOV, A. N., SKURIKHINA, L. A., & SAPIULINA, S. N. (1963) Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Science, Physiotherapy & Medical Physical Culture), Moscow, 28(3):223-229, (JPRS 21067; N63 22435), "Effect of microwaves on the cardiovascular system of a healthy person"
1157. OBROSOV, A. N., & YASNOGORODSKI, V. G. (1961) Digest of the Internat. Conf. on Medical Electronics in Biology and Engineering, p. 156 only, "A new method of physical therapy: pulsed electric fields of ultrahigh frequency"
3283. O'CONNOR, N.F. (1974), Naval Aviation News, (Nov.), pp. 22-27, "Lightning" [and thunderstorm hazards].
1158. ODINTSOV, YU. N. (1965) Trans. of the Sci. Conf. Central Sci. Lab., TOMSK, No. 2, pp. 382-386, "The effect of an AC magnetic field on some immunobiological indices in experimental listerellosis"
2494. ODLAND, L.T. (1971), U.S. Air Force Radiological Health Laboratory (Wright-Patterson AFB) Tech. Rept. No. 71W-29, "Evaluation of ophthalmological findings in former military personnel whose work involved use of radar". [This report contains case histories and results of medical examinations. Distribution is restricted to USAF medical personnel.]
2495. ODLAND, L.T. (1972), J. of Occupational Medicine, 14(7):544-547, "Observations on microwave hazards to USAF personnel".
2984. ODLAND, L.T. (1972), USAF Radiological Health Lab. (AFLC) Wright-Patterson AFB, Ohio, Rept. No. 72W-25, (Mar.), "Consolidated report: Observations, opinions, and recommendations; U.S. medical service program for control of radio-frequency hazards".
2985. ODLAND, L.T., PENIKAS, V.T., & GRAHAM, R.B. (1973), Industrial Medicine & Surgery, 42():23-26, (Jul./Aug.), "Radio-frequency energy: A hazard to workers?", [A statistical summary of results of ophthalmological examinations conducted on individuals whose occupations provided a potential for exposure, and controls].
2986. OBLENSCHLAGER, G., BERGER, I., & GRUNO, W. (1972), Biomedizinische Technik, 17(2):60-65, (In Ger. w/Engl. abstr.), "Studies on influencing the activity of cellular enzymes by irradiation with high-frequency electromagnetic waves".
3284. OHLSSON, T., BENGSSON, N.E., & RISMAN, P.O. (1974), The J. of Microwave Power, 9(2):129-145, (June), "The frequency and temperature dependence of dielectric food data as determined by a cavity perturbation technique".
1159. OLDENDORF, W. H. (1949) Proc. of the Society for Experimental Biology and Med. 72:432-434, "Focal neurological lesions produced by microwave irradiation"

2067. OLIVER, R. (1970) Phys. Med. Biol. 15:217-, "Health physics in relation to the use of non-ionizing radiations"
2239. OLSEN, C. M. (1965) Food Engineering 37:51-54, "Microwaves inhibit bread mold"
2240. OLSEN, C.M., DRAKE, C.L., & BUNCH, S.L. (1966), J. of Microwave Power, 1(2):45-56, "Some biological effects of microwave energy."
3577. OLSEN, R.G. (1975), J. of Microwave Power, 10(3):281-296 (Sept.), "A theoretical investigation of microwave irradiation of seeds in soil."
3578. OLSON, R.G., DURNEY, C.H., LORDS, J.L., & JOHNSON, C.C. (1975), (Proceedings of the 1975 IMPI Meeting at Waterloo, Canada), (Citation #3124; this Biblio.), University of Utah, "Low-level microwave interaction with isolated mammalian hearts."
1160. ONCLEY, J. L. (1942) Chemical Reviews 30:433-450, "The investigation of proteins by dielectric measurements"
1161. OPREAN, R. (1966) The Health Worker, Bucharest, 2:2-, (JPRS 36,639), "The biological effect of electrostatic and magnetic fields"
3285. ORINGER, M.J. (1974), Electrosurgery in Dentistry, 2nd Edition, 1150 pps., W.B. Saunders Co., Phila., PA.
- In:
1162. ORLOVA, A. A. (1957)/Summaries of reports, Part 2, Jubilee Scientific Session of the Institute of Labor Hygiene & Occupational Diseases Dedicated to the 40th Anniv. of the Great October Socialist Revolution, Moscow, p. 65 only, "The action of ultrahigh and high frequency fields on the internal organs"
1163. ORLOVA, A. A. (1959) In: Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, pp. 25-26, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Clinical aspects of changes in the internal organs during exposure to radiowaves of various frequencies"
1164. ORLOVA, A. A. (1960) In: Physical Factors of the Environment, Letavet, A. A., (ed.), pp. 171-176, "The condition of the cardiovascular system during exposure to SHF-UHF and high frequency fields"
1165. ORLOVA, A. A. (1960) Trudy Nii Gigiyena Truda i Profzabolevaniy, SSSR, (1):36-40, (Also in: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, JPRS 12471, pp. 30-35); (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Clinical aspects of changes in the internal organs caused by exposure to UHF"
1166. OSBORN, C. M. (1959) Technical Rept., Investigators' Conf. on the Biological Effects of Electronic Radiating Equipments, pp. 20-,
1167. OSBORN, R. R. (1943) Lancet 2:277-, "Findings in 262 fatal accidents"
1168. OSBORNE, S. L., & BELLENGER, J. (1950) British J. of Physical Med. 13:177-180, "Heating of human maxillary sinus by microwaves"
1169. OSBORNE, S.L., & FREDERICK, J.N. (1948), J. of the Amer. Medical Assoc., 137(12):1036-1040, (Also, Quarterly Bull. Northwestern Univ. Medical School, 23:222-228 (1949)), "Microwave radiations: Heating of human and animal tissues by means of high frequency current with wavelength of twelve centimeters (the Microtherm)."
1170. OSBORNE, S. L., & HOLMQUEST, H. J. (1944) Charles C. Thomas, (Pub.), Springfield, Ill., 799 pages, Technic of Electrotherapy and its Physical and Physiological Basis
3579. OSBORNE, S.L., HOLMQUEST, H.J. (1944), Technic of Electrotherapy and Its Physical and Physiological Basis, Charles C. Thomas, Publisher, Springfield, Illinois. [Contains chapters on bio-effects of direct current electrical muscle stimulation, and HF, RF, and microwave radiation physiologic studies.]
2987. OSCAR, K.J. (1972), U.S. Army Mobility Equipment Research & Development Ctr., (Ft. Belvoir, VA), Rept. No. 2048, (Classified), "Analysis of microwave for barrier warfare(U)".
3286. OSEPCCHUK, J.M. (1971), J. of Microwave Power, 6(2):185 only, "Microwave power and cardiac pacemaker".
2496. OSEPCCHUK, J.M. (1971), Presented at the IEEE Int'l Symposium In Electromagnetic Compatibility, Phila., June 13-15, "Comparison of potential device interference and biological exposure hazards in microwave leakage fields".
2241. OSEPCCHUK, J. M. (1971?) Raytheon Co. Report, (Abstr. #A72-14022), "Comparison of potential device interference and biological exposure hazards in microwave leakage fields"
2497. OSEPCCHUK, J.M. (1972), Microwaves, 11(6):77, Letter to the editor, (Also, letter by MICHAELSON, S.M.), "[Microwave] radiation [exposure] standard off [by] 10 dB".
1171. OSIPOV, YU. A. (1952) Gigiyena i Sanitariya, USSR, (6):22-23, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965); (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, Sept. 1965, pp. 3-4, "Biological effects of ultrahigh frequencies under industrial conditions"), "The effect of VHF-HF under industrial conditions"
1172. OSIPOV, YU. A. (1952) Vrachebnoe Delo nauchnyy meditsinskiy zh., Kharkov, (11):1018-1020, "High frequency currents from the standpoint of occupational pathology"
1173. OSIPOV, YU. A. (1953) Sovetskoe Zdravookhranenie Kirgizii (2):44-47, "Dispensary service offered workers engaged in work with high frequency currents"

1174. OSIPOV, YU. A. (1953) *Gigiyena i sanitaria* 8:39-42, (In Russian) "Induction heating of metals by high-frequency currents from the health point of view"
1175. OSIPOV, YU. A. (1954) Papers of the 2nd Leningrad Conf. on Industrial Use of High Frequency Currents, Moscow, pp. 26-31, "Labor hygiene problems in the industrial use of high frequency currents [fields]"
1176. OSIPOV, YU. A. (1955) *Vrachebnoe Delo nauchnykh meditsinskii zh.*, Kharkov, (4):345-346, "Potential organic lesions during work with high frequency currents"
1177. OSIPOV, YU. A. (1965) *Izd. Meditsina Publishing House, Leningrad, 220 pages, Occupational Hygiene and the Effect of Radio Frequency Electromagnetic Fields on Workers*; pp. 78-103, "Biological effect of radio frequency electromagnetic fields"; pp. 104-144, "Occupational hygiene and the health of workers exposed to radio frequency radiation"; and pp. 156-202, (JPRS 32725, TT:65-33213, Nov. 1965; and N66-11812), "Measures of protection, therapy, and prophylaxis to be taken during work with radio-frequency oscillators" [Describes "Microthermal Effects"]
1178. OSIPOV, YU. A., & KALYADA, T. V. (1962) *Summaries of Reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic Field*. Military Order of Lenin Military Medical Academy, Leningrad, "Results of an experimental study into the effects of low intensity centimeter waves on man"
1179. OSIPOV, YU. A., & KALYADA, T. V. (1963) *Gigiyena i Sanitariya (Hygiene and Sanitation)*, Moscow, (10):73-78, (JPRS 23287, Feb. 1964; OTS 64-21594; & N64-15335), "Temperature response of the skin during irradiation with microwaves of low intensity"
1180. OSIPOV, YU. A., KALYADA, T. V., & KULIKOVSKAYA, YE. L. (1961) Materials of the scientific Session Concerned with the Results of Work Conducted by the Leningrad Institute of Industrial Hygiene and Occupational Diseases for 1959-1960, Leningrad, p. 24-, "Problems of industrial hygiene in work with centimeter radiowave measuring equipment"
1181. OSIPOV, YU. A., KALYADA, T. V., & KULIKOVSKAYA, YE. L. (1962) *Gigiyena i Sanitariya*, Moscow, (6):81-86, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATU Rept. P-65-17, Apr. 1965), (JPRS 15644), "Observations on certain functional changes which occur in people exposed to irradiation with centimeter electromagnetic waves during work"
1182. OSIPOV, YU. A., KULIKOVSKAYA, YE. L., & KALYADA, T. V. (1962) *Gigiyena i Sanitariya*, Moscow, 27(2):100-102, (JPRS 13691), "Conditions of SHF-UHF electromagnetic field irradiation of those working on the tuning and testing of radio engineering instruments"
1183. OSIPOV, YU. A., VOLENSKAYA, R. N., ASANOVA, T. P., KULIKOVSKAYA, YE. L., KALYADA, T. V., & SHCHEGLOVA, A. V. (1963) *Gigiyena i Sanitariya*, Moscow, 28(6):35-38, (JPRS 20372; N63-20696), "Concerning the problem of the combined effect of a MF-LF electromagnetic field and X-ray irradiation under industrial conditions"
3580. OSNOS, P. (1976), *The Washington Post*, (Monday Feb. 9, p. C4 only, "[Non-ionizing] Radiation bugs Moscow embassy [of U.S.]".
3581. OSNOS, P. (1976), *The Washington Post*, (Wednesday, Feb. 11), p. A25 only, "[U.S.] Embassy admits [non-ionizing] radiation exists."
3582. OSTROVSKAYA, I.S., YASHINA, L.N., & YEVTUSHENKO, G.I. (1974), *Vrachebnoye Delo*, (9):139-142, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 51-55, "Changes in the testes due to the effect of a low-frequency pulsed electromagnetic field on the animal organism."
1184. OTT, V. R., RUSCH, D., & RUIZ-BLANCO, B. (1966) *Arch. of Physical Therapy (Leipzig)* 18:1-17, "Experimental and clinical studies with decimeter waves"
1185. OVERMAN, H. S. (1959) U. S. Naval Proving Ground Technical Memorandum No. W-3/59, Jan., "Microwave radiation hazards to personnel from Bureau of Ordnance (Navy) radar"
1186. OVERMAN, H. S. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.) pp. 47-54, "Quick formulas for radar safe distances"
1187. PACARDOVA, L., & HYTHA, M. (1962) Prague, p. 219, (In Czech.), Very Short Waves and Their Applications in Modern Technology
1188. PACELLI, M. (1959) *Annali di Medicina Navale e Tropicale* 64:533-, (In Italian) "On the biological effects of microwaves"
1189. PAFF, G.H., BOUCEK, R.J., & DEICHMANN, W.V. (1961), *Anatomical Record*, 142(2):264- , (Also, Section in: Microwave Radiation Research (1960), pp. 42-47; Univ. of Miami Annual Report, RADC-TR-61-42, AD #256-500), "The effects of microwave irradiation on the embryonic chick heart as revealed by electrocardiographic studies."
1190. PAFF, G., BOUCEK, R.J., NIEMAN, R.E., & DEICHMANN, W.V. (1963), *Anatomical Record*, 147:379-386, "The embryonic heart subjected to radar."
3583. PAHARICH, A. (1974), *Impact of Science on Society*, 24(4):353-357, "What happens when radio waves penetrate the human skin."
1191. PALIYEV, B., & GOSHEV, K. (1966) *Voenna Meditsinsko Delo* 21(4):34-41, "EKG changes occurring under the effects of a SHF-UHF electromagnetic field"
1192. PALLADIN, A. M., SPASSKAYA, I. M., & YAKUBOVICH, R. S. (1959) In: *Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves*, Moscow, "On the health of women working around intermediate frequency generators"
1193. PALLADIN, A. M., SPASSKAYA, I. M., & YAKUBOVICH, R. S. (1962) *Akusherstvo i Gyniekologiya (Obstetrics and Gynecology)* 38(4):69-74, (In Russian), "The effect of SHF-UHF on the specific functions of women working with generators"

1194. PALMISANO, W. A., & PECZENIK, A. (1966) *Military Medicine* 131:611-618, "Some considerations of microwave hazards exposure criteria"
1195. PANOV, A. G., PORTNOW, A. A., LOBZEN, V. S., & POLYAK, V. P. (1966) *Voenno Meditsinskii Zh. (Moskva)*, (12):12-15, "Diencephalic asthenic conditions"
1196. PANOV, A. G., & TYAGIN, N. V. (1966) *Voyenno Med. Zh. (Military Med. J.)*, USSR, (9):13-16, "Symptomatology classification and expertise of SHF-UHF after-effects on the human organism"
2988. PAMSE, J. (1954), *Monatsschrift fur Unfallheilkunde und Versicherungsmedizin*, 57():225-239, (In Ger.), "How much are health injuries affected by electromagnetic waves?"
2989. PAPPAJOHN, L.D., DAVIS, K., & PLANIEKS, I.M. (1962), *Fed. Proc.*, 21(Pt 2): ?, (Sept.-Oct.), "Bibliography of the biological effects of magnetic fields".
1197. PARZEBANADZE, SH. K. (1954) Thesis, Collected Abstr. of Papers from the Research Institute of Spa Therapy and Physiotherapy of the Georgian SSR 21:193-, (Abstr. in: *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, ATD Rept P-65-17, Apr. 1965), "The mechanism of action of HF-VHF electromagnetic fields on the organism"
1198. PARIN, (1963) *Akademiya Meditsinskikh Nauk SSSR, Moscow, (NASA-TTF 228)*, "Aviation and space medicine"
1199. PARIN, V. V., & DAVYDOV, I. N. (1940) In: *Problems of Physiotherapy and the Science of Health Resorts*, Collection, Sverdlovsk, pp. 178-181, "The influence of a UHF field on experimental hypertension"
1200. PARKER, B., FURMAN, S., & ESCHER, D. J. W. (1969) *Annals of the N. Y. Acad. of Science* 167:823-, "Input signals to pacemakers in a hospital environment"
2499. PARKER, G.S. (1972), *New England J. of Medicine*, 286(19):1058-1059, (May 11), "Diathermy survey". Also see: HOUK, W.M., MICHAELSON, S.M. (1972), *N.E.J. of Med.*, 287(18):938, (Nov 2), Letter to the Editor, "Safety of microwave devices", and the reply from PARKER, G.S.
2498. PARKER, L.N. (1971), *ERMAC Compilation of Federal Program Reports, N.I.R.E. 1971 - Research Performed*, pp. 185-188, "Suppression of thyroid function and adrenomedullary activation by low-intensity microwave irradiation", [A preliminary report of this work was presented at the Internat. Microwave Power Inst. Symp., 26-28 May 1971, Monterey, Calif.]
2990. PARKER, L.N. (1973), *American J. of Physiology*, 224(6):1388-1390, (June), "Thyroid suppression and adrenomedullary activation by low-intensity microwave radiation." [2.45 GHz at 15 mW/cm²]
2991. PARR, W. (1970), *Symposium Chmn., Proc. of the 4th Annual Midyear Topical Symposium, the Health Physics Soc., Louisville, KY, 28-30 Jan.*, Bureau of Radiological Health, U.S. Dept. of Health, Education, & Welfare, Rept. No. BRH/DEP 70-26, (Oct.), "Electronic product radiation and the health physicist".
2242. PASCA, M. (1934) *Studi Sassari, Sec. 2*, 12:807-812, (In Ital.), (Abstr. in: *Zentralbl. f. d. Ges. Opth.* 34(3):137 (1935)), "Research on the possibility of producing a cataract by trans-scleral diathermy"
1201. PATTISHALL, E. G. (ed.) (1957) *Proc. (1st) Tri-service Conf. on Biological Hazards of Microwave Radiation*, 1, (15-16 July), (ARDC-TR-58-51; AD 115603), Sponsored by Air Research & Development Command Hdqs., U. S. Air Force
1202. PATTISHALL, E. G., & BANGHART, F. W., (eds.) (1958) *Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy*, 2, (8-10 July), Sponsored by Rome Air Dev. Center, Air Res. & Dev. Command (Knauf, G. M., Chm.), 264 pages, (ARDS-TR-58-54; AD 131477)
2500. PÄTZOLD, J. (1940), (In Germ.), *Wissenschaftlich Veröffentlichungen aus den Siemens - Werken, (Berling)*, 19(2):1-31, "Studies of the absorption and focusing of short-electromagnetic waves in electrolytes and biological tissues as basis for the medical application of radiation fields"
1203. PAULY, H., PACKER, L., & SCHWAN, H. P. (1960) *J. of Biophysics & Biochemical Cytology* 7(4):589-, "Electrical properties of mitochondrial membranes"
2992. PAUTRIZEL, R. (1966), *Comptes Rendus Acad. of Sci. (Paris)*, 263():579-582, (Aug.), "Influence of combined electromagnetic waves and magnetic fields on the immunity of mice infested with *Trypanosoma equiperdum*".
2501. PAUTRIZEL, R., PRIORE, A., BERLUREAU, F., & PAUTRIZEL, A.N. (1969), *Comptes rendus des seances de l'Academie des Sciences*, 268():1889D-1892D, (9 Apr.), (In Fr.), "Stimulation, by physical methods, of the defenses of the mouse and the rat against the experimental trypanosoma"
2502. PAUTRIZEL, R., PRIORE, A., BERLUREAU, F., & PAUTRIZEL, A.N. (1970), *Comptes rendus des seances de l'Academie des Sciences*, 271():877-880, (In Fr.), "Action of a magnetic field combined with electromagnetic waves on the experimental trypanosomes of the rabbit"
2503. PAUTRIZEL, R., PRIORE, A., DALLOCCIO, M., & CROCKETT, R. (1972), *Comptes rendus des seances de l'Academie des Sciences*, 247():488D-491D, (17 Jan.), (In Fr.), "Action of electromagnetic waves and magnetic fields on lipid modifications brought on in the rabbit by the administration of an alimentary hypercholesterol regime."
3287. PAVLOVICH, S.Z. (1971), In: KHOLODOV, Yu.A., (ed.), *Influence of Magnetic Fields on Biological Objects*, (Citation #3230, this Biblio.), pp. 36-50, "The influence of magnetic fields on micro-organisms".
2993. PAWLUK, R.J., & BASSETT, C.A.L. (1970), *Calc. Tiss. Res. (Suppl.)*, 4():120-121, "Electromechanical factors in healing cortical bone defects".

3288. PAY, T.L., BEYER, E.C., & REICHELDERFER, C.F. (1972), *J. of Microwave Power*, 7(2):75-82, "Microwave effects on reproductive capacity and genetic transmission in *Drosophila melanogaster*".
1204. PAYNE, J. N. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, Peyton, M. F., (ed.), pp. 319-325, "Similarities and differences between the technical aspects of the Navy HERO (Hazards from Electromagnetic Radiation to Ordnance) program for ordnance and the personnel hazard program"
2243. PAZDEROVA, J. (1968) *Pracovní lékařství* 20(10):447-457, (In Czech.), (Transl. by A. Marosi, (ed. by F. G. Hirsch), Loveland Found. for Med. Education and Res., Albuquerque), "Effects of electromagnetic radiation of the order of centimeter and meter wavelength on human's health"
2994. PAZDEROVA, J., FISCHER, R., FORMANEK, J., JOHN, J., LUKAS, E., & STYBLOVA, V. (1969), *Pracovní Lekarství*, 21(8):346-361, "Health state of workers exposed to long-term electromagnetic radiation of the order of meter waves."
3584. PEAK, D.W., CONOVER, D.L., HERMAN, W.A., & SHUPING, R.E. (1975), Div. of Electronic Products, BRH, DHEW Publication (FDA) 76-8004, July, 19 pps., "Measurement of power density from marine radar."
1205. PEAKE, W. H. (1959) Ohio State Univ. Columbus, AF 336166159, (AD 417869), "The interaction of electromagnetic waves with some natural surfaces"
1206. PEARLMAN, W., & BALDWIN, M. (19__), (ref?) pp. 157-166, "Experimental designs in the study of biological effects during radio frequency transmission"
2504. PEDERSON, P.D., Jr., & BLOMQUIST, A.W. (1967), Air Force Armament Lab, Eglin AFB, Fla., Tech. Rept. APATL-TR-67-196, (AD #838754), "Microwave applications".
1207. PELIS, L., JR. (1964) *Industrial Medicine & Surgery* 33:866-868, "The hazards of low voltage radiation"
2244. PEREMETS, S. (1966) *Gigiyena Truda i Professional'nyye Zabelevaniya*, Moscow, (7):18-21, (ATD-66-123, #67-14373), "Hemodynamic indices during the action of superhigh frequency electromagnetic fields"
1208. PENNOCK, B. E., & SCHWAN, H. P. (1967), (Ph.D. Thesis), (CNR Tech. Rept. #41), (Electromedical Div., The Moore School of Electrical Engineering, Univ. of Pa., (Rept. #68-01)); (AD 655127), "The Measurement of the Complex Dielectric Constant of Protein Solutions at Ultrahigh Frequencies: Dielectric Properties of Hemoglobin Bound Water"
2995. PEPERSACK, J.P. (1970), *Bruxelles Medicale*, 50():243-247, (In Fr.), "A new industrial danger: Centimeter waves".
2996. PEREDEL'SKII, A.A. (1956), *Usp. Sovr. Biol.*, 41():228-245, (In Russ.), "The problem of electrotechnical measures for combatting harmful insects".
1209. PEREIRA, F. A. (1933) *Comptes Rendus Acad. Sci.* 197:1124-1125, (In French), "Oscillatory chemical mechanics: modification of chemical reactions under the influence of waveguide oscillator circuits"
1210. PEREIRA, F. A. (1935) *Biochem. Z.* 238:53-58, (In French), "On the effect of electromagnetic waves on enzyme systems"
3585. PERSINGER, M.A. (1969), *Developmental Psychobiology*, 2(3):168-171 (July), "Open-field behavior in rats exposed prenatally to a low intensity-low frequency, rotating magnetic field."
2997. PERSINGER, M.A. (1973), *Internat. J. of Biometeorol.*, 17(3):263-266, "Possible cardiac driving by an external rotating magnetic field."
3289. PERSINGER, M.A. (ed.), (1974), ELF and VLF Electromagnetic Field Effects, Plenum Press, NY. (#ISBN-0-307-3082606)
3586. PERSINGER, M.A. (ed.) (1974), ELF and VLF Electromagnetic Field Effects, Plenum Press, New York. [Includes chapters on behavioral, physiological, histological, biochemical and circadian rhythm studies.]
3587. PERSINGER, M.A., & FOSTER, W.S., IV (1970), *Arch. Met. Geoph. Biokl. (Ser. B)*, 18():363-369, "ELF rotating magnetic fields: Prenatal exposure and adult behavior."
3588. PERSINGER, M.A., GLAVIN, G.B., & OSSENKOPP, K.P. (1972), *Int. J. of Biometeorol.*, 16():163-172, "Physiological changes in adult rats exposed to an ELF rotating magnetic field."
3589. PERSINGER, M.A., LUDWIG, H.W., & OSSENKOPP, K.P. (1973), *Perceptual and Motor Skills*, 36():1131-1159, (Monograph Supplement 3-V36), "Psychophysiological effects of extremely low frequency electromagnetic fields: A review."
2998. PERSINGER, M.A., & OSSENKOPP, K.P. (1973), *Internat. J. of Biometeorol.*, 17(3):217-220, "Some behavioral effects of pre- and neo-natal exposure to an ELF rotating magnetic field."
3590. PERSINGER, M.A., & PEAR, J.J. (1972), *Development. Psychobiology*, 5(3):269-274, "Prenatal exposure to an ELF-rotating magnetic field and subsequent increase in conditioned suppression."
2999. PERSOVSKII, A.I., et al. (1969), *Pat. Fiziol. Eksp. Ter.*, 13():64-66, (In Russ.), "The effect of an ultrahigh frequency electromagnetic field on the course of experimental atherosclerosis".

1211. PERVUSHIN, V. YU. (1957) *Biulleten Eksperimental'noy Biologii i Meditsiny* (Moskva), 43(6):87-92, (Abstr. in Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, (1965), pp. 26-27, "Changes in the cardiac nervous mechanism due to SHF"), "Changes in the cardiac nervous mechanism during exposure to an SHF-UHF field"
1212. PERVUSHIN, V. YU., & TRIUMFOV, A. V. (1957) *Trans. Milit. Med. Acad. imeni S. M. Kirov*, (USSR) VMOLA, 73:141-151, "Morphological changes in some organs of rabbits subjected to the action of a SHF field"
1213. PETERS, W. J., JACKSON, R. W., IWANO, K., & GROSS, A. E. (1970) Presented before the New York Academy of Sciences, 4 Nov. at the Symposium entitled, "Effect of Controlled Electromagnetic Energy on Biological Systems", 11 pages, "The effect of microwave electromagnetic radiation on the growth of mammalian cells in tissue culture"
3591. PETHIG, R. (1973), *J. of Biological Physics*, 1(4):193-214, "Microwave Hall effect measurements in bio-macromolecular systems."
3000. PETRUSCU, A., et al. (1967), *Digest of the 7th Internat. Conf. on Medical & Biological Engineering*, (JACOBSON, B., (ed.)), Stockholm, Sweden, August 14-19, 1967, General Session 30-13, p. 405, "Change in the morphology and infectivity of influenza virus by exposure to a high frequency oscillating magnetic field".
1214. PETROV, F. P. (1929) *New Findings in the Reflexology and Physiology of the Nervous System*, 3:pp?, Moscow, (In Russian), "The effect of electromagnetic fields on nerve stimulation"
1215. PETROV, F. P. (1935) In: Physicochemical Bases of Higher Nervous Activity, Leningrad, pp. 97-, "Effect of an electromagnetic field on isolated organs"
1216. PETROV, F. P. (1952) *Trudy Instituta fiziologii imeni I. P. Pavlova. Akademiya nauk SSSR*, Moskva, 1:369-376, "Effect of a low-frequency electromagnetic field on higher nervous activity"
1217. PETROV, I. R. (Ed.), (1967) VMOLA im. S. M. Kirov Publ. House, (USSR), Medical-Biological Problems of SHF-UHF Radiation
2245. PETROV, I. R. (1968) Transl. (from Russ.) of citation #1218 (this Biblio.), (Rept. No. M70-30464, MIL-Transl-2629-(9022.81)), "Aetiology of ultra-high frequency exposure" (combined effects of microwave radiation and rarified atmosphere on immunization reactions of human organisms)
- (In Russ.)
1218. PETROV, I. R. (1968) *Voyenno Med. Zh. (Military Med. J.)*, USSR, (5):21-24, "Factors involved in the etiology of injuries due to SHF-UHF electromagnetic energy"
2246. PETROV, I. R., (ed.), (1970) (In Russ.), "Meditsina" Press, Leningrad, (NASA Transl. No. TT-F-708, (1971)), Influence of microwave Radiation on the Organism of Man and Animals
1220. PETROV, I. R., & SUBBOTA, A. G. (1964), *Voenno Meditsinskiy Zh.* (2):16-21, (ATD Abstract (?) I-9841, pp. 21-), (AD #744-870), "Effect of electromagnetic radiations of superhigh frequency range upon the organism" (Review of the literature).
1219. PETROV, I. R., & SUBBOTA, A. G. (1964) *Voyenno Med. Zh. (Military Med. J.)*, USSR, (9):26-31, "Mechanism of the action of SHF-UHF electromagnetic radiation"
1221. PETROV, I. R., & YAROKHNO, N. Y. (1967) *Voyenno Meditsinskiy Zh.*, USSR Military Med. Journal, (7):26-30, (Abstr. in: Soviet Radiobiology, ATD 68-105-108-9, June 1968, pp. 83-84), "The combined effect on animal organisms of SHF-UHF electromagnetic waves, and breathing of a gas mixture with low oxygen content"
1222. PETROV, I. R., & YAROKHNO, N. Y. (1967) *Voyenno-Meditsinskiy Zh.*, USSR Military Med. Journal, (4):20-21, (Abstr. in: Soviet Radiobiology, ATD 68-105-108-9, June 1968, pp. 82-83), "Increased resistance to SHF-UHF irradiation under conditions of systematic muscular activity"
3592. PETROVA, V. M., DMITRIYEVA, A. P., MASSARSKAYA, F. T., DANAYEVA, F. S., KOROSTELEVA, A. Ye., & VAL'NEVA, Ye. S. (1975), *Kazanskiy Meditsinskiy Zhurnal*, 56(2):59-61 (Mar./Apr.), (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), p. 94 only, "Microwave therapy of inflammation of the genitals."
1223. PEYTON, M. F. (ed.) (1961) *Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation*, Vol. 1, (Knauf, G. M., Chm.) held at New York Univ. Medical Center, 16-18 Aug. 1960, (Plenum Press)
1224. PEZZI, G. (1954) *Annali di Medicina Navale e Tropicale* 59:473-, "Radar waves in therapy"
1225. PFLOMM, E. (1931) *Archiv fur Klinische Chirurgie* 166:251-305, (In German), "Experimental and clinical investigations concerning the effect of ultrashort electrical waves on inflammation"
3001. PHOTOADES, D. P., AYIVORH, S. C., RIGGS, R. J. (1970), *Proc. of the 6th Internat. Cong. on Cybernetics*, Namur, Belgium, Sept. 7-11, "Control mechanisms and the action of weak electric currents in the acceleration of wound healing and fracture union", "[...very weak dc is the stimulus. This is produced directly and primarily by electricity from a battery or by electrostatic fields, whereas in the case of athermal pulsed high peak power alternating electromagnetic energy, the to and fro very rapid oscillations generated in molecules and dipoles will lead to the secondary production of minute dc. The end result is approximately the same in both cases, namely the speeding up of wound healing and fracture union by a process of accelerated collagen deposition, and a faster calcification and ossification,...]".
1226. PICCARDI, G. (1959) *Ricerca sci.* 29:1252-1254, "The structure of water and the influence of low-frequency electromagnetic fields"

1227. PICKET, J., & SCHRANK, A. (1965) *Texas J. of Science* 17:245-, "Responses of coleoptiles to magnetic and electric fields"
1228. PICKERS, B. A., & GOLDBERG, M. J. (1969) *British Medical J.* 2:504-506, "Inhibition of a demand pacemaker and interference with monitoring equipment by radio-frequency transmissions"
2505. PICKHAM, A., TIMOFEEFF-RESSOVSKY, N.W., & ZIMMER, K.G. (Kaiser-Wilhelm Institute for Brain Research, Berlin), (1935), *Strahlentherapie*, 56:488-496, (In Germ.), "Investigations with *Drosophila melanogaster* to see whether the mutation rate caused by x-ray and gamma rays is changed by the use of a high frequency field (shortwaves), or under the influence of ether narcosis". [A wavelength of six meters was used, and the results show that there was no statistically significant rise in mutation rate, nor was increased sterility in the F₂ generation seen.]
1229. PIESLAK, W. (1967) *Ochrona pracy*, Warsaw, 22(8):22-24, (In Polish), (English abstr. in *Nuclear Science Abstr.* 22(23): #49597, 1968), "Protection from the effects of high frequency electromagnetic radiation"
1230. PINAKATT, T. L., COOPER, T., & RICHARDSON, A. W. (1963) *Aerospace Med.* 34(6):497-499, "Effect of onabain on the circulatory response to microwave hyperthermia in rat"
1231. PINAKATT, T. L., & RICHARDSON, A. W., (1963) *Federation Proceedings* 22(2):176-, "Effects of onabain on the circulatory response of the rat to microwave hyperthermia"
1232. PINAKATT, T. L., RICHARDSON, A. W., & COOPER, T. (1965) *Archives Internationales de Pharmacodynamie et de Therapie*, Gand, Belgium, 156(1):151-160, "The effect of digitoxin on the circulatory response of rats to microwave radiation"
1233. PINNEO, L. R., BAUS, R., McAFEE, R. D., & FLEMING, J. D. (1962) Summary rept., Tulane Univ., New Orleans, La., 24 pages, (AD 277684; RADC-TDR-62-231), "The neural effects of microwave radiation"
1234. PINNEO, L., SPEAR, V., & FLEMING, J. (1961) In: Digest of Internat. Conf. on Medical Electronics, Biological Effects of Microwaves, I (Athermal Aspects), Frommer, P. L., (ed.), p. 227 only, "Relationships involved in considering effects of microwaves in the central nervous system"
1235. PIONTKOVSKIY, I. A. (1936) *Nauch Khronika GIFF*, Moscow, (2), pp? "The effect of ultrashort waves on reflex excitability"
3002. PIONTKOVSKII, I.A., et al. (1970), *Patol. Fiziol. Eksp. Ter.*, 14():33-38, (Mar.-Apr.), (In Russ.), "Embryologic and genetic effects of electromagnetic oscillations of ultra-high frequency"
1236. PIONTKOVSKIY, I. A., & YANGSHEVSKAYA, Z. K. (1944) Moscow, (In Russian), Physical Methods of Frostbite Therapy
1237. PIROVANO, A. (1934) In: Proc. of the 1st Internat. Congress of Electro-Radio-Biology, (Cappelli, L., ed.), pp. 134-144, (In Italian with English Summary), "interaction of electromagnetic fields with biological materials"
1238. PISH, G. W., STOREY, W. H., TRUBY, F., & ROLLWITZ, W. (1959) USAF Report RADC-TR-59-81, (AD 216431), (Also in: Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments, Susskind, C., (ed.), pp. 251-270), and (In: Investigators' Conf. on Biological Effects of Electronic Radiating Equipments, Khazif, G. M., (chn.), pp. 33-36), "A preliminary investigation of the applications of magnetic resonance absorption spectroscopy to the study of the effects of microwaves on biological materials"
1239. PISKUNOVA, V. G. (1957) *Gigiena Truda i Professional'nye Zabolvaniya* (Moskva) 6(6):27-30, (In Russian), "The health of workers exposed to high frequency electromagnetic fields"
1240. PISKUNOVA, V. G. (1958) *Sborn. Rabot i Avtoref Po Voprosam Gig. Tr.*, Kharkov, pp. 144-146, (Also in: Papers of the Scientific Sessions of the Institute on Questions of Industrial Hygiene in Mining, Chemical, and Machine Construction Industries, Khar'kov, (1956), pp. 45-46), "The health of workers exposed to high frequency electromagnetic fields"
1241. PITENIN, I. V. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF electromagnetic field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 36-38, "Pathological and anatomical changes in animal organs and tissues during the influence of a SHF-UHF electromagnetic field"
1242. PITENIN, I. V., & SUBBOTA, A. G. (1965) *Biulleten Eksperimental'noi Biologii i Meditsiny*, Moskva, 60(9):55-59, "On the development of gastric ulcer in rabbits following irradiation of the epigastrium with ultrahigh frequency radiation"
1243. PIVIVAROV, M. A. (1962) In: Summaries of reports, Questions of the Biological Effect of a SHF-UHF Electromagnetic field. Kirov Order of Lenin Military Academy, Leningrad, "The effect of microwave fields of low intensity on some physiologic 'detectors'"
1244. PIZZOLATO, P., BERGER, C., & McAFEE, R. D. (1961) Digest of the Internat. Conf. on Medical Electronics, Biological Effects of Microwaves, I (Athermal Aspects), (Frommer, P. L., ed.), Plenum Press, New York, pp. 196-, "Tissue injury from microwave radiation"
1245. PLEKHANOV, G. P. (1965) In: *Bionika Gaaze*, Rapoport, M. G., & Yakobi, V. E., (eds.), Nauka Publ. House, Moscow, pp. 273-277, (N66-24170; JPRS 35125; IT-66-31562), "Some material on interpretation of information by living systems"
1246. PLEKHANOV, G. P., & VEDYUSEKINA, V. V. (1966) *Zh. Vyshei Nervnoi Deyatel'nosti imeni i p Pavlova*, USSR, 16(1):34-37 (N66-26928), "Elaboration of a vascular conditioned reflex in man to a change in the intensity of an electromagnetic field of high frequency [Effect of an EMF on human reflexes]"
2090. PILHAK, M., SERVUS, V., & SCHUBERTOVA, J. (1967) *Vojenske zdravotnicke listy* (Prague), 38(1):7-9, (Abstr. in: *Non-ionizing Rad.* 1(4):194 only, (1970)), "Hazards associated with microwaves, and preventive examinations of radar specialists"

2091. PLISCHKE, E. W., & WOLFF, W. P. (196?) J. of the American Soc. of Safety Engineers 14(6):12-15, (Abstr. in: Non-ionizing Rad. 2(1):43 only, (1971)), "Tumor in or turned on -- r.f. radiation study"
2247. PLITAS, P. S. (1935) Sovet. Vestn. Oftal. 7(4):442-447, (In Russ.), (Abstr. in: Zentralbl. f. d. ges. Opth. 36(1):23-24, and Am. J. of Opth. 19(5):449 (May 1936)), "Modification of the visual organ under the influence of ultrashort radio waves"
1247. PLURIEN, G., SENTENAG-ROUMANOU, E., JOLY, R., & BROUET, J. (1966) Comptes Rendus des Seances de la Societe Biol., Paris, 160:597-599, "Influence of electromagnetic radiation emitted by radar on the phagocytic function of cells in the reticulo endothelial system of mice"
2506. POCTA, J., POKORNY, J., LEBEL, M., ZDENEK, K., HANKA, R., & VESELY, F. (1967), Vojenske Zdravotnicke Listy, 36(2):59-61, "Autonomic reactions of the organism to experimental electroanesthesia".
1248. POKORNY, J., & JELINEK, V. (1967) Neoplasma 14(5):479-485, "Investigations of the effect of combined electromagnetic fields on neoplastic malignancy growth - A contribution to the problem"
1249. POKORNY, J., & JELINEK, V. (1968) Casopis Lekaru Ceskych 107(16):474-482, "The effect of coherent electromagnetic field on neoplastic malignant processes"
- (4)
1250. POL, W. (1962) Lekarz Wojskowy, Poland, 1:318-327, (AD 433135; FID-TT-63-1070), "Effect of microwaves emitted by radar transmitters on the origin of cataracts"
1251. POLLACK, H., & HEALER, J. (1967) Institute for Defense Analysis, Research & Engineering Support Div., (Internal Report No. N-451; "Review of information on hazards to personnel from high-frequency electromagnetic radiation" IDA/HQ 67-6211),
3003. POLSON, P., JONES, D.C.L., KARP, A., & KREBS, J.S. (1974), Stanford Res. Inst., (Menlo Park, CA), Final Tech. Report, Prepared for U.S. Army Mobility Equipment Research & Develop. Ctr., (Ft. Belvoir, VA), under Contract DAAK02-73-C-0453, (Jan. 1974), AD # 774 823, "Mortality in rats exposed to CW microwave radiation at 0.95, 2.45, 4.54, and 7.44 GHz".
2507. POLYASHCHUK, L.V. (1972), Doklady Adademii Nauk Ukrainsoy SSR, (8):754-758, (In Russ.), (Trans. as JPRS #58203), "Changes in permeability of histohematic barriers under the effect of microwaves". [Using p³², in rabbits, at 2307 MHz].
1252. PONOMAREV, A. V. (1940) In: Papers on the Use of Short- and Ultra-short Waves in Medicine, Medgiz, Moscow, pp. 90-, "Action of UHF on micro-organisms and on immuno-biological processes"
1253. PONOMAREV, A. V., & KAMBAROVA, O. I. (1937) In: Biological Action of Ultrahigh Frequency Ultrashort Waves, pp. 193-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Influence of UHF on the nervous system in immunization reactions"
1254. POPOV, N. A., GUBAREV, F. A., VADIMOVA, M. A., & MALEVANNALA, J. T. (1940) Trudy State Sci. Res. Inst. Fizioterap. 6:314-, (Moscow Gosudarstvenny nauchno-issledovatel'skii institut fizioterapii), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "On local action of diathermy and UHF on the so-called vegetative centers of the brain"
1255. POPOV, N. A., & MARKOVNIKOVA, YE. P. (1940) Bulletin Eksperimental'noi Biologii i Meditsiny (Moskva) 6(1):pp?, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "The problems of the effect of a high frequency electromagnetic field on the vegetative cerebral centers" [Discusses reduction of blood sugar level by irradiation of the head of dogs with UHF]
3004. PORTELA, A., VACCARI, J.G., & LLOBERA, O. (1974), In: Internat. Symp. on Biologic Effects and Health Hazards of Microwave Radiation, (CZERSKI, P., et al. (eds.)), (Warsaw, Poland), Oct. 15-18, 1973, "Transient effects of low level radiation on bioelectric muscle cell properties and on water permeability and its distribution".
3593. PORTELA, A., VACCARI, J.G., MICHAELSON, S.M., LLOBERA, O., BRENNAN, M., GOSZTONYI, A.E., PEREZ, J.C., & JENERICK, H. (1975), Studia Biophysica, Berlin, 53:197-224, "Transient effects of low level microwave irradiation on muscle cell bioelectric properties, water permeability, and water distribution."
2248. POSCH, N. A. (& KOLIN, A.), (1970) Ph.D. Dissertation, U. of Calif., 145 pp. (N71-36484), "Studies on magnetic field exposures of Drosophila melanogaster and Pelvetia fastigiata"
3594. POSTMES, T.J., NACKEN, G., & NELISSEN, R.G. (1974), Experientia, 30(12):1478-1480, "Electronic method for measuring heart frequency of Waterfleadaphnia pulex."
3290. POTAPOV, S.L., SEVAST'YANOVA, L.A., & VILENSKAYA, R.L. (1973-1974), Biologicheskiye Nauki, (3):46-49, (In Russ.), "Restorative processes of bone marrow under the effect of super-high frequency irradiation", [study on mice of combined effect of x-ray, anti-tumor chemotherapeutic agents, and (6-8 mm) microwave radiation].
3595. POTAPOV, S.L., SEVAST'YANOVA, L.A., & VILENSKAYA, R.L. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"(JPRS #64532), pp. 1-6, "Restorative processes in bone marrow in response to superhigh-frequency radiation."

1256. POTTER, R. R. (1961) U. S. Naval Weapons Laboratory, Technical Memorandum No. W-2/61 (Jan.), "Proposed Naval weapons design requirements to preclude hazards from environmental electromagnetic fields"
1257. POZHITKOV, V. A., TYAGIN, N. V., & GREBESHCHENKOVA, A. M. (1961) *Biulleten Eksperimental'noi Biologii i Meditsiny*, Moskva, 51(5):103-109# (Abstr. in: *Biological Abstracts*, 37, No. 12374 (1962)), "The influence of SHF pulsed electromagnetic field on conception and the course of pregnancy in white mice" *in English transl. 51, pp. 615-618 (1961),
1258. POWELL, C. C. (1959) *Amer. J. of Public Health* 49:1-9, "Radiation hazards"
2059. POWELL, C. H., & ROSE, V. E. (1970) *Amer. Industrial Hygiene Assoc. J.* 31:358-361 (May-June), "Health surveillance of microwave hazards"
3291. POZOLOTIN, A.A. (1971), in: KHOLODOV, Yu.A. (ed.). *Influence of Magnetic Fields on Biological Objects*, (Citation #3230, this biblio.), pp. 85-94, "The influence of magnetic fields on radiation-induced chromosomal aberrations in plants".
1259. POZCS, R. S., RICHARDSON, A. W., & KAPLAN, E. M. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium. (Cleary, S. F., ed.), Medical College of Va., Richmond, 17-19 Sept., Bureau of Radiological Health/Division of Biological Effects, Rept. No. 70-2, pp. 76-75. "Non-uniform biophysical heating with microwaves"
1260. PRATT, C. B., & SHEARD, C. (1935) *Arch. of Physical Therapy* 16:268-271, "Thermal changes produced in tissues by local applications of radiotherapy"
1261. PRATT, C. B., & SHEARD, C. (1935) *Protoplasma* 23:24-33, "The effects of intravenous injection into rabbits of strains of streptococci which have been exposed to the high-frequency field"
1262. PRAUSNITZ, S., & SUSSKIND, C. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments, (Susskind, C., ed.) 3:33-45, "Temperature regulation in laboratory animals irradiated with 3-cm microwaves"
1263. PRAUSNITZ, S. & SUSSKIND, C. (1962) In: "Nonthermal Effects of Microwave Radiation", Scientific Rept., Institute of Engineering Research, Univ. of Calif., Berkeley, Series No. 60, Issue No. 478, (Also, Institute of Radio Engineers Trans. on Bio-Medical Electronics, BME-9:104-108), "Effects of chronic microwave irradiation on mice"
1264. PRAUSNITZ, S., SUSSKIND, C., & VOGELHUT, P. O. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.), pp. 135-142
1265. PRESMAN, A. S. (1954) Gosenergoizdat, Moscow, Centimeter Waves
1266. PRESMAN, A. S. (1954) In: Annotations of Scientific Works of the Academy of Medical Sciences of the USSR, Moscow, pp. 479-, "An instrument for measuring the intensity of irradiation of 10-centimeter waves in industrial conditions"
1267. PRESMAN, A. S. (1956) *Gigiena i Sanitariya, USSR*, (9):32-37, "The electromagnetic field as a hygienic factor"
1268. PRESMAN, A. S. (1956) *Uspekhii Sovremennoy Biologii, USSR*, (Progress of Modern Biology) 41(1):40-54, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), (OTS-59-21107), "Physical aspects of the biological action of centimeter waves"
1269. PRESMAN, A. S. (1956) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 43(2):51-54, "Temperature changes of the human skin irradiated with low intensity waves several centimeters in length"
1270. PRESMAN, A. S. (1957) *Biulleten Eksperimental'noi Biologii i Meditsiny, Moskva*, 43(2):51-54, "Change in the human body and skin temperature due to irradiation with low-intensity electromagnetic waves several centimeters in length"
1271. PRESMAN, A. S. (1957) *Gigiena i Sanitariya, USSR*, (1):29-35, (OTS-59-21101, H-3825), "Methods of evaluation of the effective energy of the electromagnetic field under industrial conditions"
1272. PRESMAN, A. S. (1957) Proc. of the Jubilee Scientific Session of the Institute of Labor Hygiene and Occupational Diseases, Moscow, pp. 72-, "The hygienic evaluation of high-frequency electromagnetic fields"
1273. PRESMAN, A. S. (1958) *Biofizika* 3(3):335-338, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, 1965, pp. 69-70, "Methods of irradiating animals with UHF fields"), (Also, Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Methods of experimentally irradiating small animals with centimeter waves"
1274. PRESMAN, A. S. (1958) *Gigiena i Sanitariya, USSR*, (1):21-27, "Method of protection from the action of radio frequency electromagnetic fields under industrial conditions"
1275. PRESMAN, A. S. (1960) In: Physical Factors of the Environment, (Letavet, A. A., ed.), pp. 142-151, "A hygienic evaluation of high frequency electromagnetic fields"
1276. PRESMAN, A. S. (1960) In: Elektronika v Meditsine (Electronics in Medicine), Berg, A. I., (ed.), pp. 219-227, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, pp. 72-74, "The use of microwaves for therapeutic and biological purposes"), (Also, Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Microwaves in physiotherapy and biological investigations"
1277. PRESMAN, A. S. (1960) *Novosti Meditsinskoi Tekhniki, Moskva*, (4):51-55, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "An experimental device for the dosed irradiation of rabbits with microwaves in the 10 centimeter range"
1278. PRESMAN, A. S. (1961) *Biofizika* 6(3):370-371, (In Russian), "Experimental apparatus for microwave irradiation of protein solutions"

1279. PRESMAN, A. S. (1961) Nauka i Zhizn' (7):88-89, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "More intricate methods of investigation are needed"
1280. PRESMAN, A. S. (1962) In: Summaries of reports, 2nd All Union Conf. on the Application of Radioelectronics in Biology and Medicine, Niteir, (Publisher?), pp. 21-, "Problems concerning the mechanism of the nonthermal action of microwaves"; and pp. 23-, "Methods of measured irradiation with microwaves in biological experiments"
1281. PRESMAN, A. S. (1963) Biofizika 8(1):138-140, "Excitability in paramecium stimulated with DC and AC pulses"
1282. PRESMAN, A. S. (1963) Biofizika 8(2):258-260, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Effect of microwaves on paramecium" (Letters to the Editor)
1283. PRESMAN, A. S. (1963) Uspekhi Sovremennoy Biologii (Progress of Modern Biology) 56(2):161-179, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68 (1965), pp. 78-79, "Review of the mechanism of the biological effect of microwaves"), (JPRS 22580, Jan. 1964; OTS 64-21190; NS4-12357), "Problems of the mechanism of the biological effect of microwaves"
1284. PRESMAN, A. S. (1963) Biol. i Med. Elektronika (5):56-, "A method of determining the excitation thresholds of the neuromuscular apparatus of animals"; and ibid. (6):76-, "A method of comparative irradiation of protein solutions with microwaves and infrared rays"
1285. PRESMAN, A. S. (1964) Zarubezhnaya Radioelektronika (3):63-, (Part I), and (4):67-, (Part II), "Investigation of the biological effect of microwaves"
1286. PRESMAN, A. S. (1964) Biofizika 9(1):131-134, (In Russian), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), (Also abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, (1965), pp. 81-82, "The role of electromagnetic fields (EMF) in living processes"), (AD 625857; N65-18516; FSTC 381-755-601), "The role of electromagnetic fields in living processes"
1287. PRESMAN, A. S. (1965) Nauka i Zhizn' (6):82-88, (JPRS 31501; TT-65-31997; N65-31004), "Effect of electromagnetic radiations on living organisms"
1288. PRESMAN, A. S. (1965) Uspekhi Fizicheskikh nauk, Moscow, 86(6):263-302, (In: Soviet Physics Uspekhi 8(3):463-488; Amer. Inst. of Physics), (JPRS 33054; N65-12294; TT-65-33631), "The action of microwaves on living organisms and biological structures"
1289. PRESMAN, A. S. (1966) Proc. of Symposium on Problems of Neurocybernetics, Moscow, pp. 41-, "Electromagnetic fields in neurocybernetics"
1290. PRESMAN, A. S. (1966) Proc. of Conf. on the Effect of Magnetic Fields on Biological Objects, Moscow, pp. 59-, "Some general methodological questions of bioelectromagnetic investigations"
1291. PRESMAN, A. S. (1967) In: Questions of Bionics, Nauka, Moscow, pp. 341-, "Electromagnetic fields and regulation processes in biology"
1292. PRESMAN, A. S. (1967) Byulleten Moskovskogo Obshchestva Ispytatelei Prirody Otdel Biologicheskii, USSR, 52:149-, "The role of electromagnetic fields in evolution and the vital activity of organisms"
1293. PRESMAN, A. S. (1967) Proc. of Symposium on Physics and Biology, Moscow, pp. 13-, "The interaction of physics and biology in the investigation of the biological effect of electromagnetic fields"
1294. PRESMAN, A. S. (1968) Izd-vo Nauka, Moscow, 287 pages, (English transl. in: USSR Sci. Abstr., Bio-Medical Sciences 62:49-52 (1968)), (In Russian), Electromagnetic Fields and Animate Nature (See also citation #1295)
1295. PRESMAN, A. S. (1970) (Translated from Russian by Sinclair, F. L.; Brown, F. A., Jr., (ed.), Plenum Publ. Co., New York, 332 pages, Electromagnetic Fields and Life: Effects of Electromagnetic Fields on Living Organisms, (Transl. of citation #1294)
1296. PRESMAN, A. S., & KAMENSKIY, YU. I. (1961) Biofizika 6(2):231-233, (In Russian), "Experimental apparatus for studying the excitability of neuromuscular preparations during irradiation by microwaves"
1297. PRESMAN, A. S., KAMENSKIY, YU. I., & LEVITINA, N. A. (1961) Uspekhi Sovremennoy Biologii 51(1):82-103, (In Russian), (JPRS 9451), (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68 (1965), pp. 74-76, "Review of the biological effects of microwaves"), "Biological effect of microwaves"
1298. PRESMAN, A. S., & LEVITINA, N. A. (1962) Part I. Biulleten Eksperimental'noi Biologii i Meditsiny 53(1):41-44; Part II., *ibid.*, 53(2):39-43, (1962), (In Russian), (Part I. Bulletin of Experimental Biology & Med. 52:36-39 (1962), Part II., *ibid.*, 53(2):pp.? (1963), "Nonthermal action of microwaves on cardiac rhythm: Communication I. A Study of the action of continuous microwaves; Communication II. The action of pulsed microwaves"); (Part I: AD 288404; FTD-TT-62-278-1, 2, & 4; Part II: AD 283882); (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-68, (1965), Part I, pp. 38-39; Part II, pp. 40-41, "Nonthermal effect of pulsed microwaves on mammalian cardiac rhythm"); (Also abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "The nonthermal effect of microwaves on the systolic rhythm of animals. Report No. I, The effect of non-pulsed microwaves"; Report No. II, "The effect of pulsed microwaves"
1299. PRESMAN, A. S., & LEVITINA, N. A. (1962) Radiobiologiya 2(1):170-171, (In Russian), (AEC TR-5428, pp. 258-; TID-3912, pp. 447-), "Influence of nonthermal microwave radiation on the survivability of gamma irradiated animals"
1300. PRESMAN, A. S., & RAPPEPORT, S. M. (1964) Biologicheskie Nauki (formerly Nauchnye Doklady Vysshei Shkoly Biologicheskie Nauki) USSR, (1):48-, "New data on the existence of an excitable system in paramecia. I. Reactions of paramecia to direct current pulses"; *ibid.* (3):44-, "II. Reactions of paramecia to ac pulses"
1301. PRESMAN, A. S., & RAPPEPORT, S. M. (1965) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 59(4):48-52, (In Russian); (In English, Bulletin of Experimental Biology and Medicine 59(?):pp.? (1965)), "Effect of microwaves on the excitable (sensory) systems of paramecia"

2508. PRINCE, J.E., MORI, L.H., FRAZER, J.W., & MITCHELL, J.C. (1972), *Aerospace Medicine*, 43(7):759-761, "Cytologic aspect of RF radiation in the monkey."
1302. PROKTOVA, T. N. (1956) *Vysshai Nervnoi Deyatel'nosti imeni i p Pavlova, USSR*, 6(6):846-854, (Also in *Psychological Abstracts* 32(3), No. 2398 (1958)), "The effect of a continuous UHF electrical field on the higher nervous activity of dogs under normal and pathological conditions"
2249. PUGLISI-DURANTI, G. (1935) *Boll. Ocul.* 14:383-445, (In Ital.), (Abstr. in: *Zentralbl. f. d. ges. Opth.* 34(3):177-178), "Lesions due to the diathermic coagulation of the vitreous humor"
1303. PUHARICH, H. K. & LAWRENCE, J. L. (1964) Report, 77 pages, (AD 459956; RADC TDR-64-18), "Electro-stimulation techniques of hearing"
1304. PUKHOV, V. A. (1965) *Patologicheskai Fiziologia i Eksterimental'nai Terapiia (Moskva)* 9(6):72-73, (JPES 36,906), "SHF-UHF electromagnetic wave effects on mice cause induced changes of the functional state of the central nervous system"
3005. PUNTENNEY, D.G., VETTER, R.J., WEEKS, W.L., ZIEMER, P.L., & BORN, G.S. (1974), *J. of Microwave Power*, 9(1):39-45, (Mar. "Microwave dosimetry using electrochemical effects".
2250. PUNTENNEY, I., & OSBORNE, S. L. (1939) *Arch. Opth.* (Chicago) 22(2):211-227, (Abstr. in: *Zentralbl. f. d. ges. Opth.* 45(3):148 (Apr 30, 1940)), "Temperature changes and changes in caliber of retinal blood vessels after short wave diathermy"
1305. PUSCHER, H. (1966) Springer-Verlag, New York, 337 pages, Eating with Microwaves - Fundamentals, Components, and Circuit Techniques
2509. PUTAN, G.A. (1966), In: Electrosleep and Electroanesthesia. Materials of the All-Union Symposium on Problems of Electrosleep and Electroanesthesia [Electronarcosis], Dedicated to the 20th Year of the Electrosleep Method, pp.255-256, (In Russ.), Moscow (13-15 Oct.), "Use of interference currents as neurotropic therapy in treating hypertonic patients with electrosleep".
3596. PYE, M. (1975), *Sunday Times* (London), Sept. 21, p. 14 only, "Wolfgang Guettner's cancer cruise" [using microwave radiation as hyperthermia treatment].
1306. QUON, K. C. (1960) *U. S. Navy Medical News Letter* 36(10):29-34 (18 Nov.), (Originally in: *Industrial Med. & Surgery* 29: 315-316 (July), "Hazards of microwave radiation"
2510. RABICHEV, L.U. (1971?) Soviet Patent No. 272486, [Describes a non-contacting electrosleep apparatus (LIDA)].
2511. RABICHEV, L. Ya. (1966), *Pediatrics*, 6(6):7-10, "Sleep and electrosleep in children".
2512. RABICHEV, L. Ya., & IL'INA, T.G. (1966), In: Conference on Effects of Diffuse Electrical Currents on Physiological Mechanisms with Application to Electroanesthesia and Electrosleep. Vol. 4, Milwaukee, pp.25- , "Therapy mechanisms of electrosleep."
3292. RABINOWITZ, J.R. (1973), *IEEE Transactions on Microwave Theory & Techniques*, MTT-21(12):850 only, (Dec.), "Possible mechanisms for the biomolecular absorption of microwave radiation with functional implications".
1307. RAE, J., JR., HERRICK, J. F., WAKIM, K., & KRUSEN, F. (1949) *Arch. of Physical Med.* 30:199-211, "A comparative study of the temperatures produced by microwave and shortwave diathermy"
1308. RAE, J., JR., MARTIN, G., TREAMOR, W., & KRUSEN, F. (1950) *Proc. of Staff Meetings, Mayo Clinic*, 23:441-446, "Clinical experience with microwave diathermy"
2251. RAFAILA, E., LANCRANJAN, I., PREDI, N., POPESCO, P., ROVENTA, A., & TECOULESCO, D. (1970) In: Ergonomics and Physical Environmental Factors, (Vol. 21 of the Occupational Safety and Health Series), Internat. Labour Office, Geneva, (In Fr.), pp. 175-177, "Researches concerning changes in the organism in personnel employed in radar installations"
3293. RAI, P.S., BALL, H.J., NELSON, S.O., & STETSON, L.E. (1972), *Annals of the Entomological Soc. of Amer.*, 65(4):807-810, "Lethal effects of radio-frequency energy on eggs of *Tenebrio molitor* (Coleoptera: Tenebrionidae)".
1309. RAICHILSON, R. R., & EMERY, E. (1951) Lockheed Aircraft Corp., California, Rept. ERM 5217, "Deleterious effects of the radar beam"
1310. RAJESKY, V., & SCHWAN, H. (1948) *Naturwissenschaften* 10:315-, "The dielectric constant and conductivity of the blood at ultra-high frequencies"
3006. RAJOTTE, R.V., DOSSETOR, J.B., VOSS, W.A.G., & STILLER, C.R. (1974), *Proceedings of the IEEE*, 62(1):76-85, (Jan.), "Preservation studies on canine kidneys recovered from the deep frozen state by microwave thawing".
2513. RANDAL, J. (197_), *The (Wash., D.C.) Evening Star*, in the Washington Close-up Column, "VA shuns dying ex-serviceman". [Describes alleged 'microwave cataracts' from chronic exposure to microwave radiation].

1311. RANDALL, B. F., IMIG, C. J., & HINES, M. H. (1952) Arch. of Physical Med. 33:73-81, "Effects of some physical therapies on blood flow"
3597. RANSCHT-FROEMSDORFF, W. (1968), Acta Medicotechnica, 8():320-322, (in German), "Electroclimate simulation apparatus for 'weather radiation'." [A carrier freq. of 10-100 kHz modulated at 1-1000 Hz and amplitude 10 mV/m to 10 V/m.]
3598. RANSCHT-FROEMSDORFF, W.R. (1962), Z. Angew. Bader und Klimaheilk., 5():462-477, (Nov.), (in German), "The influence of low frequency changes of environmental factors on nerve information."
3599. RANSCHT-FROEMSDORFF, W.R., & RINCH, O. (1972), Z. Angew. Bader und Klimaheilk., 19():169-176, (in German), "Electro-climate phenomena of the 'Fohn' (correlations of agglutination of blood and simulated spherics programs)."
1312. RASSADIN, A. M. (1965) Trans. Sci. Conf. of the Central Sci. Lab. Tomsk, (2):357-359, "Dependence of morphological changes in the kidneys on their functional load under the action of a low frequency electromagnetic field"
1313. RAWLS, O. B., GRAYSTON, C. M., & McDONALD, B. M. (1959), (AFMTC-TN-59-4 (C)), (Classified). "RF radiation hazards; Air Force Missile Test Center Ordnance - Bio-effects - Fuel"
1314. RAWLS, O. B., STILWELL, R. J., & McDONALD, B. M. (1961) RCA Service Co. report, 103 pages, (WO-047832), (AD 260721; AFMTC TR-61-14), "RF radiation hazards: fuel, ordnance, and bio-effects"
3294. REBY, M., & HAZAN, M. (1963), General Practice, 26():pp?, (July 12), "Diabetic ulcer of the foot. A new approach to treatment: Preliminary clinical report", [using pulsed, high frequency electromagnetic radiation].
2514. REFSHAUGE, W.D. (1971), (Letter to the Editor), Med. J. of Australia, 1:498 only, "Microwave ovens: A potential risk to patients with cardiac pacemakers."
1315. REHNBERG, G. L., MOGHISSI, A. A., & PEPPER, E. W. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Medical College of Va., Richmond, 17-19 Sept., Bureau of Radiological Health/Division of Biological Effects, Rept. No. 70-2, pp. 101-103, "Effects of microwaves on optical activity"
2516. REIDER, D.R., EPSTEIN, D.L., & KIRK, J.M. (1971), U.S. Air Force School of Aerospace Medicine, Brooks AFB, Tex., Aeromedical Review #3-71, (AD #730922), "Possible cataractogenic effects of radiofrequency radiation", [No cataracts were formed in the eyes of rhesus monkeys exposed at 19.27 MHz for 4 hours to 180 mw/cm². Eyes examined by slit-lamp biomicroscope over a period of 8 months showed no lenticular changes].
3600. REILLE, A. (1968), J. Physiol. (Paris), 60(1):85-92 (in French), "Evidence that pigeons are sensitive to magnetic fields."
1316. REINS, D. A., & WEISS, R. A. (1969) Work Order No. 523-003-10, Navy Clothing and Textile Research Unit, Natick, Mass., "Physiological evaluation of effects on personnel wearing the microwave protective suit and over-garment"
1317. REINER, S. (1967) In: Therapeutic Electricity and Ultraviolet Radiation, Licht, S. H., (ed.) 2nd edition, Licht, E., Publisher, New Haven, Conn., (Vol. 4 of Physical Medicine Library), Chapt. 2, pp. 70-104, "Instrumentation for electrotherapy"
1318. REITER, P. J. (1936) Zentralblatt fur die gesamte Neurologie und Psychiatrie 156:382-404, (In German), "The biological effect of shortwaves on the brain and investigation of a therapy for chronic brain diseases"
3601. REITER, R. (1960), Meteorobiology and Electricity of the Atmosphere, (in German), 424 pps., Akademische Verlagsgesellschaft, Leipzig.
3602. REITER, R. (1970), Heizung, Luftung, Haustechnik, 21(8):258-262 & 279-285, (in German), "Is it necessary to consider air-electrical properties as components of the bioclimate?"
1319. REITER, T. (1933) British J. of Physics 8:119-, "Some investigations of short waves"
2252. REMARK, D. G. (1971) USDPHEW/PHS, Bur. of Rad. Health, (Pub. No. BPH/NEPHEL 71-1), 38 pages, "Survey of diathermy equipment use in Pinellas County, Florida"
3603. RENO, V.R. (1975), Naval Aerospace Medical Research Laboratory, Rept. No. NAMRL-1216 (May), "Some considerations concerning the use of magnetron generators in microwave biological research."
3007. RENO, V.R., & BEISCHER, D.E. (1973), Naval Aerospace Medical Research Lab., Rept. No. NAMRL-1183, (Jun.), "Microwave reflection, diffraction and transmission by man: A pilot study".
3604. RENO, V.R., de LORGE, J.O., PRETTYMAN, G.D., EZELL, C.S., & GRINER, T.A. (1974), Naval Aerospace Medical Research Laboratory (Pensacola, FL), (11 Sept.), (AD#A003948), "A primate restraint chair for use in microwave radiation studies."
3605. RENTSCH, W. (1967), In: WAGENDER, F.M., & ST. SCHURY, . (eds), Electrotherapeutic Sleep and Electro-Anesthesia. Proceedings of the First International Symposium, Graz, Austria, 12-17 Sept. 1966, (Amsterdam), Excerpta Medica, pp. 161-168, "Magneto-inductive transmission of stimuli to the brain."
3008. RESTALL, C.J., LEONARD, P.F., TASWELL, H.F., et al. (1967), Anesthesia and Analgesia (Cleve.), 46():625-628, "A microwave blood warmer: Preliminary report".

1320. REVIGLIO, G. M. (1934) Abstr. of the 1st Internat. Congress of Electro-Radio-Biology, Cappelli, L., (ed.), Bologna, Italy, pp. 387-395, (In Italian with English summary), "On the topic of short wave diathermic generators"
1321. REVUTS'KY, YE. L. (1964) Akademiya nauk UKR SSR, Fiziologichny Zh. 10(5):636-640, (JPRS 27982; N66-1505), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "The effect of high-frequency (13.56, 39 to 41, and 2375 Mc) electromagnetic oscillations on the motor function of the human stomach"
1322. REVUTS'KY, YE. L. (1965) Akademiya nauk UKR SSR, Fiziologichny Zh., 11(3):380-384, (Abstr. only in ATD Press, Special Issue, "Biomedical Microwave Research", 4(43), Aug, 1965), "The effect of HF, VHF, and UHF radiation on the secretory and excretory functions of the human stomach"
1323. REVUTS'KY, YE. L., & EYDEL'MAN, F. M. (1964) Fiziologichny Zh. Akademiya nauk UKR SSR, 10(3):379-383, (Abstr. in Biological Effects of Microwaves, ATD P-65-68, Sept. 1965, pp. 14-13, "Effects of meter and centimeter waves on human hemodynamics", N64-31540; (Also, Biological Abstracts (Biophysics Section) 46:430, (196), #5407), "Effect of centimeter and meter waves on the content of biologically active substances in human blood"
3606. REYDER, B. Sh., AFANACEVA, L.R., & ANTONOVA, E.F. (1973), Voprosy Pitaniya, 32(4):77-78 (July/Aug.), (in Russ.), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 43-46, "On the effect of the ultrahigh frequency field on certain pathogenic microorganisms."
1324. REYNOLDS, M. R. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.) pp. 71-84, "Development of a garment for protection of personnel working in high-power RF environments"
1325. REYZIN, M. S., & MOTSYNI, P. E. (1939) Dnepropetrovsk, Universitet, Institut Fiziologii Sbornik robot, 2:21-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), (Title not given), [Deals with induced changes in nerve upon UHF exposure]
1326. REZNIKOVA, L. (1937) Biologicheskoye deystviye UVCh. Simpozium, (Biological effect of ultra-high frequencies. Symposium) Moscow, pp. 373-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, 1965), (Title not given), [Discusses biochemical analysis of UHF irradiated tissue]
2253. RHEIN, R. W. (1972) U. S. Medicine 8(5): pp. 3 & 23 (Mar 1), [Describes work of D. R. Justesen on rats and mice], "Microwaves inhibit tumor induction"
1327. RICCIONI, B. (1934) In: Abstr. of the 1st Internat. Congress of Electro-radio-biology, Cappelli, L., (ed.), Bologna, Italy, pp. 152-229, (In Italian with English summary), "On the increase in grain production by the preliminary electrical exposure of the seed"
1328. RICHARD, W., & LOOMIS, A. (1927) Proc. of the National Academy of Sciences 15:587-, "Dielectric losses in electrolyte solutions in high frequency fields"
3009. RICHARDS, V., & STOPER, R. (1959). Surgery, 46():84-96, "The stimulation of bone growth by internal heating".
1329. RICHARDSON, A. J. (1954) J. of Physical Med. 33(2):103-107, "Effect of microwave induced heating on the blood flow through peripheral skeletal muscles"
1330. RICHARDSON, A. W. (1955) British J. of Physical Med. 18(7):143-, "The effectiveness of microwave diathermy therapy as a hyperthermic agent upon vascularized and avascular tissue"
1331. RICHARDSON, A. W. ((197) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation, (Pattishall, E. G., ed.) 1:109-110, "Abstract of report on pathologic effects of three centimeter microwaves of low magnitude, and demonstration of dosimeters to assay accumulated microwave energy"
1332. RICHARDSON, A. W. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy, (Pattishall, E. G., & Banghart, F. W., eds.), 2:169-174, "Review of the work conducted at University of St. Louis (USN sponsored)"
1333. RICHARDSON, A. W. (1959) Blood 14(11):1237-, "Blood coagulation changes due to electromagnetic microwave irradiations"
1334. RICHARDSON, A. W. (1959) In: Investigators' Conf. on Biological Effects of Electronic Radiating Equipments, (Knauf, G. M., Cha.), (RADC-TR-59-67, pp. 37-41; AD 214693; Also? AD 131477), "Review of work conducted at St. Louis Univ. School of Medicine"
1335. RICHARDSON, A. W. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments, (Susskind, C., ed.) 3:244-250, (RADC-TR-59-140; AD 234728), "New microwave dosimetry and the physiologic need"
1336. RICHARDSON, A. W. (1966) St. Louis Univ. School of Medicine, (NDR-130402), (AD 484726L), "Studies concerned with the biologic effects of microwave irradiations of different frequencies"
1337. RICHARDSON, A. W. (1968) Scientia (Milan) 103:447-453, (Abstr. in: Nuclear Science Abstracts 23(19):3978, #38860, 1969), "Biologic effects of non-ionizing electromagnetic radiations"
1338. RICHARDSON, A. W., DUANE, T. D., & HINES, H. M. (1948) Arch. of Physical Med. 29(12):765-769, "Experimental lenticular opacities produced by microwave irradiations"
1339. RICHARDSON, A. W., DUANE, T. D., & HINES, H. M. (1951) Amer. Medical Assoc. Arch. of Ophthalmology 45:382-386, "Experimental cataract produced by three centimeter pulsed microwave irradiations"
1340. RICHARDSON, A. W., IMIG, C. J., FELCHT, B. L., & HINES, H. M. (1950) AMA Arch. of Physical Med. 31:19-25, "The relationship between deep tissue temperature and blood flow during electromagnetic irradiation"

1341. RICHARDSON, A. W., LOMAX, D. H., VICKOLS, J., & GREEN, H. D. (1952) *Amer. J. of Ophthalmology* 35:993-, "The role of energy, pupillary diameter and alloxan diabetes in the production of ocular damage by microwave irradiations"
1342. RICHARDSON, A. W., et al. (1969?) *From: Systems Engineering and Consultant Corp., Tulsa, Oklahoma, "Microwave/radar radiation measuring instrument (advanced information)"*
1343. RICHARDSON, P. D., & WHITELAW, J. E. (1957) In: *Digest of the 7th Internat. Conf. on Medical and Biological Engineering*, (Jacobson, B., ed.), Stockholm, p. 398 only, "The response of human skin to localized heat sources"
3295. RICHMOND, E.L. (1970), *J. of the Amer. Assoc. of Foot Specialists*, (): , (June), "Results of pulsed high frequency electromagnetic energy in the treatment of foot disorders and surgery".
1344. RICHTER, W. R. (1964) *U. S. Army Medical Research Laboratory Rept. 600, (AD 440272), 12 pages, "Effects of RF energy on tissue cultures"*
1345. RIEKE, F. E. (1953) *Industrial Medicine & Surgery* 23:328-, "Unplanned radio wave diathermy at place of work"
3607. RIESEN, W.H. (1971), *Technical Memorandum #3, IITRI Project E6185, Contract N00039-71-C-0111, (Aug.), "A pilot study of the interaction of extremely low frequency electromagnetic fields with brain organelles."*
2254. RIFFENBURGH, R. S. (1953) *U. S. Armed Forces Med. J.* 4(1):71-72, "Ocular fatigue in the radar operator"
3608. RIOCH, D.M. (1974), *Institute for Behavior Research, Inc. (Silver Spring, MD), Rept. 151 (15 Oct.), (AD #A004024), "Effects of microwave irradiation on embryonic brain tissue: Final report to Army Research Office (15 Oct. 1973 to 14 Oct. 1974)."*
1346. RIVIERE, M. R., PRIORE, A., & BELLEBEAU, P. (1964) *Comptes Rendus acad. sci.* 259:4895-4897, (In French) "Effect of electromagnetic fields on implanted T-8 tumors in the rat"
1347. RIVIERE, M. R., PRIORE, A., & BELLEBEAU, P. (1965) *Comptes Rendus acad. sci.* 260:2099-2102, (Also, *Semaine des Hopitaux Informations, Paris, 11:6-*) "Effect of electromagnetic fields on transplantable lymphoblastic sarcoma in the rat", (In French)
1348. RIVIERE, M. R., PRIORE, A., & BELLEBEAU, P. (1965) *Semaine des Hopitaux Informations Paris, 11:3-*, (In French), "Action of electromagnetic fields on skin graft of T-8 tumor in the rat"
1349. RIVIERE, M. R., PRIORE, A., & BELLEBEAU, P. (1965) *Comptes Rendus acad. sci.* 260:2639-2643, (In French), "Regression phenomenon observed on the skin grafts of lymphosarcoma in mice exposed to ultra-high frequency electromagnetic radiation"
2255. ROBE, K. (1966) *Food Processing and Marketing* 27:84-86, "Improved flavor of pasteurized products [cooked with microwave radiation]"
1350. ROBERTS, A. M. (1969) *Nature (London)* 223(5206):639 only, "Effect of electric fields on mice"
1351. ROBERTS, A. M. (1970) *J. of Theoretical Biology* 27(1):97-106, "Motion of Paramecium in static electric and magnetic fields"
1352. ROBERTS, J. E., & COOK, H. F. (1952) *British J. of Applied Physics* 3:33-40, "Microwaves in medical and biological research"
3010. ROBERTS, P.C.B. (1972), *Abstr. in J. of Sci. Food Agriculture, 23*(4):544 only, "Viability studies on ascospores and vegetative cells of Saccharomyces cerevisiae exposed to microwaves at 2450 MHz".
2517. ROBINER, I.S. (1966), In: *Conference on Effects of Diffuse Electrical Currents on Physiological Mechanisms with Application to Electroanesthesia and Electrosleep*. Vol. 4, Milwaukee, pp. 18- , "Clinical application of electrosleep and a physiological mechanism of its development".
1353. ROCK, J. (1969) *Medical Aspects of Human Sexuality* 3(9):45 only, "Scrotal temperature and fertility"
3011. ROCKWAY, J.W., & HANSEN, P.M. (1973), *Rept. #TR-1872, Naval Electronics Laboratory Center (San Diego), 24 Apr.* "Calculated near fields of Navy HF whip antennas: Establishes preliminary guidelines on the size of personnel- and ordnance-radiation-hazard zones", [with a discussion of radiation hazards to personnel].
1354. RODICHEVA, E. K., GITELSON, I. I., & TERSKOV, I. A. (1965) *Trans. of Sci. Conf. Central Sci. Lab., TOMSK, (2)*:319-322, (The Biological Effects of Electromagnetic Fields), "The effect of constant electric and alternating electromagnetic fields on the biosynthesis of Chlorella during continuous culture"
1355. ROFFO, A. E., JR. (1934) In: *Abstr. of the Internat. Congress of Electro-radio-biology, Cappelli, L., (ed.), Bologna, Italy, pp. 230-242, (In French with English summary), "Modification of electrocardiographic results produced by the application of high frequency electromagnetic fields"; ibid., pp. 396-414, "Relation of high frequency electromagnetic fields on cellular multiplication of in vitro tissue cultures"; and ibid., pp. 415-439, "Action of high frequency electromagnetic fields on photo-dynamics of colored materials in the heart of bacteria"*
1356. ROGERS, S. J. (1969) *Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. P., Ed.), Medical College of Virginia, Richmond, 17-19 Sept. 1969, Bureau of Radiological Health/Division of Biological Effects, Rept. No. 70-2, pp. 222-232, "Radio frequency radiation hazards to personnel at frequencies below 30 MHz"*

2092. ROGERS, S. J., & KING, R. S. (1970) *Non-ionizing Rad.* 1(4):178-189, "Radio hazards in the m.f./h.f. band"
1357. BOGOVAYA, T. Z., TROITSKIY, S. A., & LASECHENKO, N. S. (1959) In: *Summaries of reports, Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves.* Moscow, p. 34 only, "The state of health of workers having long contact with high frequency electromagnetic equipment"
2518. ROGUSSKIY, S.S., ULITSKIY, L.A., BARTSEVICH, B.N., IL'YIN, A.V., & KRIVENKO, V.N. (1970) *Voyenno-Meditsinskiy Zhurnal*, 6(6):39-40, (Jun.), (Transl. #J-8892 for Army Intelligence, pp. 47-50), "Results of dynamic observation of persons working near UHF fields"
3609. ROHL, D. (1975) *Deutsche Medizinische Wochenschrift*, 100(1):26-29, "Biological effect of microwaves—possible health hazards via broadcasting transmitters, television transmitters, and radar transmitters."
3610. ROHL, D., LAUN, H.M., HAUBER, M.E.T., STAUCH, M., & VOIGT, H. (1975) *ISA Transactions*, 14(2):115-117, "The effect of radar on cardiac pacemakers."
1358. ROHRSCHEZIDER, W. (1955) *Munch. Med. Wschr.* 97:33-37, "Radiation damage and protection for the eye against radiation"
1359. ROLLWITZ, W. L. (1958) *Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy*, (Pattishall, E. G., & Banghart, F. W., eds.), 2:254-264, "Review of the work conducted at Southwest Research Institute on the use of electron paramagnetic resonance to evaluate the chemical and/or physical changes in the lenses of eyes irradiated by microwaves (USAF sponsored)"
1360. ROLNICK, H. C. (1935) *Arch. of Physical Therapy* 16:391-393, "Status of electrosurgical prostatic resection"
1361. ROMAN, J. (1958) *Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy*, (Pattishall, E. G., & Banghart, F. W., eds.), 2:70-78, "Radio frequency hazards aboard naval ships"
1362. ROMAN, J. (1959) *The Engineer's Digest*, CG-133, No. 118 (Sept.-Oct.), pp. 39-, "Calculating power densities in the vicinity of radar antennas"
1363. ROMANOV, V. I. (1940) *Trans. of the 1st Conf. on Problems in the Application of Shortwaves and Ultrashort Waves in Medicine, Mediz.* (Abstr. in: *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, ATD Rept. P-65-17, Apr. 1965), "High frequency fields as a method of studying molecular structures"
3611. ROMERA-SIERRA, C., HALTER, S., TANNER, J.A., ROOMI, M.W., & CRABTREE, D. (1975) *J. of Microwave Power*, 10(1):59-70 (Mar.), "Electromagnetic fields and skin wound repair."
1364. RONALD, K. (1962) *Canadian J. of Zoology* 41(2):197-217, "The effects of physical stimuli on the larval stage of *Tenaxia decipiens*. III. Electromagnetic spectrum galvanotaxis"
1365. ROSE, D. L., & MEAD, S. (1948) *Arch. of Physical Medicine* 29:637-642, "Electrical tests of sensation" (Voltage-duration curves of tactile sensation and pain)
2256. ROSE, V. E., GELLIN, G. A., & POWELL, C. H. (1970) In: *Ergonomics and Physical Environmental Factors*, (Vol. 21 of the Occupational Safety and Health Series), Internat. Labour Office, Geneva, pp. 178-185, "Evaluation and control of exposures in repairing microwave ovens"
2093. ROSE, V. E., GELLIN, G. A., POWELL, C. H., & BOURNE, H. G. (1969) *Amer. Industrial Hygiene Assoc. J.* 30:137-, "Evaluation and control of exposures in repairing microwave ovens"
2257. ROSE, V. E., POWELL, C. H., LANIER, M. E., & SWANSON, J. R. (1970) In: *Ergonomics and Physical Environmental Factors*, (Vol. 21 of the Occupational Safety and Health Series), Internat. Labour Office, Geneva, pp. 186-, "A review of U. S. microwave exposure criteria"
2023. ROSENSTEIN, M., BRILL, W. A., & SHOWALTER, C. K. (1969) Report No. OCS 69-1, Bureau of Radiological Health, Department of Health, Education, and Welfare, Rockville, Md., "Radiation exposure overview - microwave ovens and the public"
1366. ROSENSTEIN, M., BRILL, W. A., & SHOWALTER, C. K. (1969) U. S. Dept. of Health, Education, and Welfare; Public Health Service; Consumer Protection & Environmental Health Services, Environmental Control Admin., Bureau of Radiological Health, Rockville, Md., Rept. No. OCS 69-1, "Radiation exposure overview: Microwave ovens and the public"
2239. ROSENTHAL, D. S., & DEERING, S. C. (1968) *J. of the Amer. Medical Assoc.* 205(4):105-108, "Hypernatremia after microwave radiation"
2255. ROSENTHAL, S. W. (1970) In: *Proc. of Hungarian Acad. of Sci., & Sci. Soc. for Telecommunication, Colloq. on Microwave Communication*, 4th, Budapest, (Mar. 21-24, 1970), (Abstr. #470-48711), "Safety standards and biological effects of microwave radiation"
2024. ROSENTHAL, S. W., (Chm.) (1971) "Biological Effects of Non-Ionizing Radiation", Session of the IEEE Internat. Convention and Exposition, N. Y., (22-25 Mar)
3296. ROSENTHAL, S.W. (1971) *J. of Microwave Power*, 6(1):55 only, "More research on biological effects of microwaves needed"
2519. ROSENTHAL, S.W. (1972) *IEEE Transactions on Biomedical Engineering*, BME-19(4):299, "Introduction: Biological effects of nonionizing radiation".

1367. ROSENTHAL, S. W., BIRENBAUM, L., GROSOP, G. H., & ZARET, M. M. (1967) Digest of the 7th Internat. Conf. on Medical and Biological Engineering, (Jacobson, B., ed.), p. 399 only, "A study of the cataractogenic effect of microwave radiation"
1368. ROSENTHAL, S. W. (Moderator), FREY, A., LEMASTER, F., BOWMAN, R. R., RECHEN, H., OSEPCCHUCK, J., & MICHAELSON, S. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Medical College of Virginia, Richmond, 17-19 Sept., Bureau of Radiological Health/Division of Biological Effects, Rept. No. 70-2, pp. 233-247, "Panel Discussion I: Microwave measurements method and standards for biological research and hazard surveys"
3612. ROSHCIN, A.V., & NIKONOVA, K.V. (1974), Gigiyena i Sanitariya, (11):111-113, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 73-76, "International Symposium on 'Biological Effects and Health Hazards of Microwave Radiation' (Warsaw)."
2520. ROSS, N.L. (1973), The Washington Post, March 8, page E10, "Hot microwave debate". [Microwave oven leakage levels].
2521. ROSSI, G.F., & ZATTONI, J. (19), Excerpts, Medical International Congress, Series No. 128, "Obtaining deep sleep by electrical stimulation of the brainstem and cerebral cortex".
1369. ROTH, E. M. (Ed.) (1968) Compendium of Human Responses to the Aerospace Environment 1(1):1-22, (Document # NASA CR-1205(1); N-69-12435), "Microwave radiation"; (Also, "Magnetic Fields", Section 4, pp. 1-7, N69-12438)
1370. ROTHMEIER, J. (1970) Proc. of the 3rd Annual National Conf. of the Neuro-Electric Society, "The Nervous System and Electric Currents", (Wulfsohn, N. L., & Sances, A., Jr., eds.), 23-25 Mar., Las Vegas, Plenum Press, New York, pp. 57-69, "Effect of microwave radiation on the frog sciatic nerve"
2522. ROTKOVSKA, D., & VACEK, A. (1972), Folia Biol. (Praha), 18(4):292-297, "Effect of high-frequency electromagnetic field upon haematopoietic stem cells in mice." [⁵⁹Fe incorporation, spleen cells, bone marrow, spleen-colony assays]
3297. ROTKOVSKA, D., et al. (1973), Physiol. Bohemoslov, 22(4):359-363, (In Engl.), "Non-contact determination of temperature changes in mice during microwave irradiation." [using an infra-red camera]
3012. ROWE, W.D., JANES, D.E., & TELL, R.A. (1973), 1973 Telecommunications Conf., Atlanta, GA, (Nov. 26), "An assessment of adverse health effects of telecommunications technology".
1371. ROYER, R., WAKIM, K., LEVESTEOR, S., & KRUSEN, F. (1950) Arch. of Physical Medicine 31:557-566, "Influence of microwave diathermy on swelling and trismus resulting from odontectomy"
1372. ROZANOVA, O. S. (1939) Fizioterapiya 2:pp.? "Significance of the frequency factor for the bioeffects of a HF-VHF electric field"
1373. ROZENBERG, P. A., & GELFON, I. A. (1966) Gigiyena Truda i Professional'nye Zabollevaniya (Moskva) 5:52-53, "The effect of VHF-HF therapy on the silicon content in the lungs and bifurcated lymph nodes during experimental silicosis"
3298. ROZZELL, T.C., JOHNSON, C.C., DURNEY, C.H., LORDS, J.L., & OLSEN, R.G. (1974), J. of Microwave Power, 9(3):241-249, (Sept.), "A nonperturbing temperature sensor for measurements in electromagnetic fields", [electro-optical fiber optic/liquid crystal probe].
1374. RUBIN, A., & ERDMAN, W. J. (1959) Amer. J. of Phys. Med. 38:219-220, "Microwave exposure of the human female pelvis during early pregnancy and prior to conception"
1375. RUBIN, L., & VOROG'YEV, I. (1936) Kurortologii i Fizioterapii 1:11-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, 1965), (Title not given), [Deals with temperature rise and suppression of nervous excitation of in vitro frog muscle]
1376. RUDGE, A.W., & KNOX, R.M. (1970), U.S. Dept. of Health, Education, and Welfare, Public Health Service Publication No. BRH/DEP 70-16, 69 pps (limited distribution), "Near-field [electromagnetic radiation] instrumentation."
2523. RUDOLFSSON, C., JOELSSON, I., INGELMAN-SOUNDGERG, A., & ODEBLAD, E. (1972), Acta Obstet. Gynec. Scand., 51:137-141, "The radiofrequency field distribution surrounding coils for intrauterine diagnostic procedures: I. Geometrical factors".
3613. RUGGERA, P.S. (1975), U.S. Department of Health, Education, and Welfare, DHEW Publication (FDA) 75-8032 (April), "Changes in radiofrequency E-field strengths within a hospital during a 16-month period" [resulting from externally-located radio and TV transmitters].
2524. RUGGERA, P.S., & ELDER, R.L. (1971), U.S. Department of Health, Education, & Welfare Rept. No. BRH/DEP 71-5, "Electromagnetic radiation interference with cardiac pacemakers".
2260. RUGGERA, P. S., & ELDER, R. L. (1971) USDHEW/PHS, Bur. of Rad. Health (Pub. No. BRH/DEP 71-5), 25 pages, "Electromagnetic radiation interference with cardiac pacemakers"
3614. RUGH, R., GINNS, E.I., HO, H.S., & LEACH, W.M. (1975), Radiation Research, 62():225-241, "Responses of the mouse to microwave radiation during estrous cycle and pregnancy."
3299. RUSINOV, V.S., & EKROKHI, V.L. (1967), Zh. Vyssh. Nerv. Deyatel. im. I. P. Pavlova, 17():947-955, "Possibility of ephaptic interaction of neurons through an electric field generated by them".

2251. RUSSELL, P., & CALDWELL, J. J. (1971) Genetic Psychology News, pp. 84:177-245, "Biomagnetic phenomena: Some implications for the behavioral and neurodevelopmental sciences"
3013. RUSTAN, P.L., HURT, W.D., & MITCHELL, W.C. (1973), Medical Instrumentation, 2(3):175-180 (May-Aug.), "Microwave oven interference with cardiac pacemaker"
1377. RUTKOWSKI, A. & CHRISTIANSON, C. (1965) Progress Rept. 1, Naval Applied Science Lab., Brooklyn, "Development of a radiation hazard protective suit and RF measuring techniques"
3014. SAAD, T. (1969), The Microwave J., 1(1):10 only, (Ed.), "Measurement of the health applications of microwave radiation", (Editorial).
1378. SACCHITELLI, G., & SACCHITELLI, F. (1956) Folia Medica, Naples, 13:1937-, (In Italian), "The action of radar microwaves on plasma lipases and serum amylase"
1379. SACCHITELLI, G., & SACCHITELLI, F. (1958) Folia Medica, Naples 41:345-, (In Italian), "On the behavior of blood glutathione following irradiation with radar microwaves"
1380. SACCHITELLI, F., & SACCHITELLI, G. (1960) Folia Medica, Naples, 43:1219-1229, (In Italian), (FTD-TT-65-1497/1+3+4, Jan. 1967), "On the protection of personnel exposed to radar microwaves"
1381. SACCHITELLI, F., & SACCHITELLI, G. (1960) Minerva fisioterap. 5:201-203, (In Italian), "On the analgesic effect of radar microwaves on caisson disease"
1382. SADCHIKOVA, M. N. (1957) In: Summaries of reports, Part 1. Jubilee Scientific Session of the Institute of Labor Hygiene and Occupational Diseases, Dedicated to the 40th Anniv. of the Great October Socialistic Revolution. Moscow. (Title not given)
1383. SADCHIKOVA, M. N. (1960) Trudy Nii Gigiyena Truda i Profzabolevaniya AMN SSSR, 1(1):32-35, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, 1965); (Also, Abstr. in: The Biological Action of UHF, (Letavet, A. A., & Gordon, Z. V., eds.), Moscow, pp. 25-29, JPRS 12471), State of the nervous system under the influence of SHF-UHF fields"
1384. SADCHIKOVA, M. A. (1960) In: Physical Factors of the Environment, (Letavet, A. A., ed.), pp. 177-183, "State of the nervous system under the influence of SHF-UHF fields"
1385. SADCHIKOVA, M. N. (1964) Trudy Nii Gigiyena Truda i Profzabolevaniya AMN SSSR, 2(2):110-113, (Abstr. in: The Biological Action of Radio-Frequency Electromagnetic Fields, Moscow), "Clinical aspects of changes within the nervous system induced by the action of radio waves of various frequencies"
2525. SADCHIKOVA, M.N., & NIKONOVA, K.V. (1971), Gigiyena Truda i Professional'nye Zabolevaniya, 15(9):10-13, "Comparative evaluation of the health of personnel working under conditions involving exposure to microwaves of different intensity". [Adverse effects, primarily cardiovascular and in the nervous system, seen in 2 groups exposed at different intensities: asthenic syndrome and vegetative-vascular dysfunction].
1386. SADCHIKOVA, M. N., & ORLOVA, A. A. (1958) Gigiyena Truda i Professional'nye Zabolevaniya (MOSKVA), 2(1):16-22, (In Russian), (JPRS L1451D; OTS-59-11437), "Clinical picture of the chronic effect of electromagnetic centimeter waves"
2526. SADCHIKOVA, M., & ORLOVA, A. (1958, 1960), (References 1386 and 1387, this Biblio.), entitled: "Changes in the nervous system as a result of exposure to microwaves"
1387. SADCHIKOVA, M. N., & ORLOVA, A. A. (1960) Nauchno-issledovatel'skiy institut gigiyeny truda i profzabolevaniy, Trudy 10: 25-29, (Abstr. in: The Biological Action of UHF, (Letavet, A. A., & Gordon, Z. V., eds., Moscow, JPRS 12471); (Also, Abstr. in: The Biological Effects of Microwaves: Compilation of Abstracts, ATD P-65-63, (1965), p. 9 only, "Effect of UHF on the human nervous system"), "State of the nervous system under the influence of UHF"
1388. SAFONOV, YU. D., PROVOLOROV, V. M., YAKIMENKOV, L. I., & LYBE, V. M. (1967) Biulleten Eksperimental'noy Biologii i Meditsiny 64(9):111-113, (ATD Abstr. 3(6454)), "Method of recording the magnetic field of a heart-magnetocardiography"
3615. SAGALOVICH, B.M., & MELKUMOVA, G.G. (1974), Vestnik otorinolaringologii, 4(4):3-8, Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #64532), 1975, pp. 23-30, "Research on the action of superhigh-frequency electromagnetic waves on evoked potentials of auditory centers in connection with prospects for using inadequate auditory stimulation."
1389. SAITO, M., & SCEWAN, H. P. (1961) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Payton, M. F., ed.) pp. 85-97, "The time constants of pearl-chain formation"
1390. SAITO, M., SCEWAN, H. P., & SCHWABE, G. (1966) Biophysical J. 5(5):313-327, "Response of nonspherical biological particles to alternating electric fields"
1391. SAITO, M., SHEB, L. C., & SCEWAN, H. P. (1961) Digest of Internat. Conf. on Medical Electronics and Medical and Biological Engineering 4:154 only, "RF field-induced forces on microscopic particles"
1392. SALATI, O. M. (1959) In: Investigators Conf. on Biological Effects of Electronic Radiating Equipments, (Knauf, G., Chm.), Patrick Air Force Base, Florida, 14-15 Jan., RADC-TR-59-67, July 1959, pp. 26-30, (AD 214693), "Microwave absorption measurements"
1393. SALATI, O. M., ANNE, A., & SCEWAN, H. P. (1962) Electronic Industries, (Nov.) 11:96-101, "Radio frequency radiation hazards"
1394. SALATI, O. M., & SCEWAN, H. P. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:107-112, "A technique for relative absorption cross-section determination"

1395. SALEV, A. P. (1964) *Voronezh, Izd-vo Voronezh. Univ.*, pp. 50-53, "The effect of the energy of an electromagnetic field of varying frequency on the secretion of the salivary glands"
1396. SALISBURY, W. W., CLARK, J. W., & HINES, A. M. (1948) Collins Radio Co., (Report #CER-153, Rand - P-58), 14 pages, "Physiological damage due to microwaves"
1397. SALISBURY, W. W., CLARK, J. W., & HINES, H. M. (1949) *Electronics* 22:66-67, "Exposure to microwaves"
1398. SALOTTI, A., & FIORENZI, F. (1934) *Proc. of the 1st Internat. Congress of Electro-Radio-Biology* (Cappelli, L., ed.), Bologna, Italy, pp. 440-444, (In Italian with English summary), "Results of research on the influence of microwaves of wavelength 60-70 cm on plants"
2025. SAMARAS, G. M., MUROFF, L. R., & ANDERSON, G. E. (1971) *IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves)* MTT-19(2):245-247, "Prolongation of life during high-intensity microwave exposures"
1399. SANCES, A., JR., & LARSON, S. J. (1955) *Digest of 6th Internat. Conf. on Medical Electronics and Biological Engineering*, (Iwai, Y., ed.) pp. 113-114, "Electrotonic solution of rectangular electrical anesthesia currents applied to model neurons"
3300. SANCES, A., JR., & LARSON, S. J. (1970), In: *Biomedical Engineering Systems*, CLYNES, M., & MILSUM, J. H., (eds.), (Inter-University Electronics Series, 10, Chap. 8), McGraw-Hill Book Co., New York, "Electro-anesthesia research".
2527. SANCES, A., ZUPERKU, E., & LARSON, S. J. (1966), In: *First International Symposium on Electrotherapeutic Sleep and Electroanesthesia*, Graz, Austria, (12-17 Sept.), "Effects of sinusoidal and biased rectangular anesthetic currents on monkey visual pathways".
3616. SANDLER, S. S., SMITH, G. S., & ALBERT, E. N. (1975), *Aviation, Space, and Environmental Medicine*, 46(11):1414-1417, "Electromagnetic field effects in nerve tissue."
1400. SANTEA, A. (1968) *Envedorvos*, (Apr-Jun), (2):193-205, "Investigations on the relations between the biological effects of ionizing radiation and electromagnetism"; "Part 2: Joint effect of ionizing radiation and electromagnetism on the growth of the root of *Vicia Faba*"
3301. SANTOLINI, B. M., NAI FOVINO, P. L., & ROSSONI, L. (1971), *Minerva Ortopedica*, 22():459-462, (In Ital.), "Changes [decrease] in intraleukocyte [WBC] peroxidases in intraarticular exudates after irradiation with radar microwaves", [therapeutic application (to reduce inflammation) of humans suffering with rheumatoid arthritis].
1401. SAREL, M., et al. (1961) *Zeitschrift für die gesamte Hygiene und Ihre Grenzgebiete* (Berlin) 7:897-, (In German) "Concerning the effect of electromagnetic radar waves (cm wavelength) on the nervous system of man"
2262. SANCINI, R., & OSTROWSKI, K. (1968) *Amer. J. of Physical Medicine* 47:225-234, (A69-80117), "Non-thermal effect of microwave radiation *in vitro* on peritoneal mast cells of the rat"
1402. SAWINSKA, A., BIELSKI, J., & WALASEKOWSKI, A. (1967) *Przegląd Lekarski, Cracow*, 23:742-744, "Health conditions of workers at radio and television stations exposed to the high frequency electromagnetic field"
1403. SAZONOVA, T. YE. (1964) *Vestnik Leningradskogo Universiteta, Seriya Biologii, USSR*, 19(3):109-116, "Effect of low frequency electromagnetic fields on the motor function of animals (Biol. Ser. No. 1)"; and *ibid.*, 19(15):82-86, "The effect of a high gradient low frequency electromagnetic field on the efficiency of an altered motor structure (Biol. Ser. No. 3)"
1404. SAZONOVA, T. YE. (1964) Author's Abstr. of Candidate's Dissertation, Leningrad, "Functional Changes in an Organism Due to Work in a High-Intensity Electric Field at Industrial Frequencies"
1405. SCELSI, B. (1957) *Radioterapia Radiobiologia Fisica Medica* 11:155-, (In Italian), "Thermogenesis by ultrasound and ultra-high frequency electromagnetic (radar) waves on organic, not-living tissues"
1406. SCHAEFER, H., & SCHWAN, H. (1943) *Annalen Physik* 43:99-135, (In German), "Concerning the question of selective heating of small particles in the ultrashort wave condenser field"
1407. SCHAEFER, H., & SCHWAN, H. (1947), *Strahlentherapie*, 77:123-130, (in Ger.), "Concerning the question of selective overheating of single cells in biological tissue by means of ultrashort wave currents."
1408. SCHAEFER, M. b. (1952) Report (Rand-P-2558-1), 38 pages, "The thermal response of small animals to microwave radiation"
1409. SCHAIBLE, J. P., & KNUDSEN, A. (1929) Reported at 13th Internat. Physiological Congress, "Chemical changes in the body resulting from exposure to ultra-high frequency fields"
1410. SCHASTNAYA, P. I. (1955) In: *Trudy Khar'kovskogo Meditsinskogo Instituta*, (Trudy Collection of Scientific Works of Kharkov Medical Institute), 13, pp. 170-, "The effect of SHF fields on microorganisms"
- In:
1411. SCHASTNAYA, P. I. (1957) *Trudy Khar'kovskogo Meditsinskogo Instituta, USSR*, 15:239-, "The effect of electromagnetic waves of superhigh frequency on microorganisms"
1412. SCHASTNAYA, P. I. (1958) *Trudy Khar'kovskogo Meditsinskogo Instituta, USSR*, 16:359-, "The effect of SHF radiowaves on the colon bacillus"
3015. SCHECHTER, D. C. (1970), *Bull. of the N.Y. Acad. of Med.*, 46():932-951, "Application of electrotherapy to non-cardiac thoracic disorders".
1413. SCHEIL, H. G., & JEROME, B. (1949) *Amer. J. of Ophthalmology* 32:69-78, (June, pt. 2), "Electrocoagulation of the sclera: reduction in ocular volume and pathologic changes produced"
1414. SCHERESCHEWSKY, J. W. (1926) *Public Health Reports* 41:1939-, "The physiological effects of currents of very high frequency (135,000,000 to 8,300,000 cps)"
1415. SCHERESCHEWSKY, J. W. (1923) *Public Health Reports* 43(16):927-939, "The action of currents of very high frequency upon tissue cells, A. Upon a transplantable mouse sarcoma"

2263. SCHERFSCHINSKY, J. V. (1933) Public Health Reports 48:844-858 (July), "Heating effect of very high frequency condenser fields on organic fluids and tissues"
3016. SCHILLER, E.A., PRATT, D.E., & REBER, E.F. (1973), Amer. Diet. Assoc. J., 62():529-533, (May), "Lipid changes in egg yolks and cakes baked in microwave ovens".
2264. SCHLIEPEN, L. (1939) Dissertation, Frankfurt a. M., 18 pages, (In Ger.), (Abstr. in: Zentralbl. f. d. ges. Ophth. 46(11): 336 (Feb 13, 1941)), "Results of histological studies using short wave radiation"
1416. SCHLIEPHAKE, E. (1935) Actinic Press, London, (Authorized English transl. of 2nd and enlarged German edition), 238 pages, Short Wave Therapy - The Medical Use of Electrical High Frequencies
1417. SCHLIEPHAKE, E. (1950) British J. of Physical Medicine 13:143-152, "Supersonic and ultrashort waves"
1418. SCHLIEPHAKE, E. (1952) Stuttgart, (In German), Short-Wave Therapy
1419. SCHLIEPHAKE, E. (1960) Zbl. Chir. 85:1063-1066, "Endocrine influence on bleeding and coagulation time"
2528. SCHMIDT, D.E., SPETH, R.C., WELSCH, P., & SCHMIDT, M.J. (1972), Brain Research, 38:377-389, "The use of microwave radiation in the determination of acetylcholine in the rat brain".
2529. SCHMIDT, M.J., HOPKINS, J.T., SCHMIDT, D.E., & ROBISON, G.A. (1972), Brain Research, 42:465-477, "Cyclic AMP in brain areas: Effects of amphetamine and norepinephrine assessed through the use of microwave radiation as a means of tissue fixation".
2265. SCHMIDT, M. J., SCHMIDT, D. E., & ROBISON, G. A. (1971) Science 173:1142-1143 (17 Sept), "Cyclic adenosine monophosphate in brain areas: Microwave irradiation as a means of tissue fixation"
3017. SCHMIDT, M.J., SCHMIDT, D.E., & ROBISON, G.A. (1972), Advances in Cyclic Nucleotide Research: Vol I - Physiology and Pharmacology of Cyclic AMP, Raven Press, NY, (GREENGARD, P., ROBISON, G.A., & PAOLETTI, R., (eds.)), pp. 425-434, "Cyclic AMP in the rat brain: Microwave irradiation as a means of tissue fixation".
3129. SCHMIDT, P. (1964), U.S. Army Medical Research Lab (Fort Knox, KY) Res. Rept. #603, 24 pps., (31 Mar.), "The effects of radio-frequency energy on Corynebacterium diphtheriae and Clostridium welchii toxins", [To determine changes in toxicity and antigenicity of exotoxins after exposure to microwaves. 'Cl. welchii, type A toxin was not affected by radio-frequency exposure, as determined by human serum opacity and mouse lethality studies. The toxicity of C. diphtheriae toxin was slightly reduced, while no change in antitoxin combining capacity or antigenicity was apparent.'].
3018. SCHROT, J., & HAWKINS, T.D. (1973), Walter Reed Army Inst. of Research (Unpublished rept.), "Lethal effects of 3000 MHz radiation on the rat".
3617. SCHRADER, D.H., & McNELIS, D.D. (1975), J. of Microwave Power, 10(1):77-92 (Mar.), "Microwave irradiation of roots in soil."
3619. SCHUA, L. (1953), Naturwissenschaften, 10():514-516, "The flight reaction of hamsters from electrical fields" [900 V/m at a "few Hz" were used].
3618. SCHULMAN, J.H. (1975), European Scientific Notes (Office of Naval Research), 29(12):546-549 (31 Dec.), "Hazards of non-ionizing radiations." [Comments on the Fall 1975 AGARD Meeting on "Radiation Hazards"]
3019. SCHULTEN, K.H., BALDUS, O., ROHRIG, F.R., & von SMEKAL, P. (1972), Dtsch. Med. Wschr., 97():1539-1541, (In Ger.), [short wave electromagnetic radiation] "Interference of implanted cardiac pacemakers".
1421. SCHULTZ, C. A., GRAY, O. S., SANDERS, M., & FELLOWS, O. W. (1979) Presented before the New York Academy of Sciences at the Symposium entitled "Effect of Controlled Electromagnetic Energy on Biological Systems", (Nov), 5 pages, "The effect of electromagnetic controlled energy on viruses in human blood"
1422. SCHULTZ, F. V., BURGNER, R. C., & KING, S. (1958) Proc. of the Institute of Radio Engineers 46:476-, "Measurement of the radar cross section of a man"
1423. SCHVARTS, J. I. (1945) Frunze, Local Reflex Changes Under the Influence of Local Action of UHF Fields on the Cervico-Thoracic Segments of the Spinal Cord
1424. SCHWAN, H. (1948) Zeitschrift fur Naturforschung (Tubingen) 3B:361-367, (In German), "Temperature dependence of the dielectric constant of blood at low frequencies"
1425. SCHWAN, H. (1950) Ann. Phys. 6:253-, "Resonance method for the determination of complex resistances of substances at decimeter wavelengths"
2266. SCHWAN, H. P. (1952) Abstr. in Federation Proceedings 11:142 only, "Electrical properties of blood at ultrahigh frequencies"
1426. SCHWAN, H. (1953): Amer. J. of Physical Med. 32:144-, "Electrical properties of blood at ultrahigh frequencies"
1427. SCHWAN, H. (1953) Zeitschrift fur Naturforschung (Tubingen) 8B:3-10, (In German), "Measurement of electrical constants and complex-resistances in biological materials"
1428. SCHWAN, H. (1954) Zeitschrift fur Naturforschung (Tubingen) 9B(8):245-251, (In German), "The electrical characteristics of muscle tissue at low frequencies"
1429. SCHWAN, H. P. (1955) Institute of Radio Engineers, Trans. PG14:75-83, (Also: Tech. Rept. #15, Univ. of Pennsylvania, to Office of Naval Research, 23 pages), (AD 56691), "Application of UHF impedance measuring techniques in biophysics"
1430. SCHWAN, H. P. (1955) Institute of Radio Engineers, Trans. on Medical Electronics, 3:32-46, "Electrical properties of body tissues and impedance plethysmography"
1431. SCHWAN, H. P. (19__) Electromedical Lab., Moore School of Electrical Engineering, Univ. of Pennsylvania, "Survey of microwave absorption characteristics of body tissue"

1432. SCHWAN, H. (1956) In: Handbook of Biological Data, National Research Council, Washington, D. C., "Electrical properties measured with alternating current: body tissues"
1433. SCHWAN, H. P. (1956) J. of the Amer. Medical Assoc. 160:191-197, "The biophysical basis of physical medicine"
1434. SCHWAN, H. P. (1957) Final Rept. from Univ. of Penna. on ONR Contract (1 July 1954 to 30 June 1957) 12 pages, (AD 149535); "Influence of electromagnetic radiation on biological material"
1435. SCHWAN, H. P. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.), 1: 60-63, "The physiological basis of RF injury (Abstract)"
1436. SCHWAN, H. P. (1957) In: Advances in Biological and Medical Physics, 5, (Lawrence, J. H., & Tobias, C. A., eds.) Academic Press, Inc., New York, pp. 147-209, (Tech. Rept. #20, Univ. of Penna.), (AD 132533), "Electrical properties of tissues and cell suspensions"
1437. SCHWAN, H. P. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G. & Banghart, F. W., eds.), 2, (Rome Air Dev. Center, ARDC-TR-58-54, pp. 126-145 (AD-131477); (Also: ONR Technical Rept #25), "Survey of microwave absorption characteristics of body tissue"
1438. SCHWAN, H. P. (1958) Annual Progress Rept. on ONR Contract, Univ. of Penna. (AD 207468), "Properties of biological material"
1439. SCHWAN, H. P. (1958) Proc. 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G. & Banghart, F. W., eds.) 2:33-48, (Also, ONR Technical Rept. #24 of the Univ. of Penna.; AD 220125), "Molecular response characteristics to ultra-high frequency fields"
1440. SCHWAN, H. P. (1958) In: Therapeutic Heat, Physical Medicine Library, 2, (Licht, S. H., ed.), Licht, E., Publisher, New Haven, Conn., Chapt. 3, pp. 55-115, (Also: Tech. Rept. #21 from Univ. of Penna. to ONR, AD 149534), "Biophysics of Diathermy"
1441. SCHWAN, H. P. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:94-106, (RADC-TR-59140; AD 234788), "Theoretical considerations pertaining to thermal dose meters"
1442. SCHWAN, H. P. (Conf. Chm.) (1959) Digest of Technical Papers, 12th Ann. Conf. on Electrical Techniques in Med. & Biology, 1st Edition, 10-12 Nov., Sponsored by Institute of Radio Engineers, Amer. Institute of Electrical Engineers, and Instrument Society of Amer., Winner, L., publisher, New York
1443. SCHWAN, H. P. (1959) Proc. of the Institute of Radio Engineers 47:1841-1855, "Alternating current spectroscopy of biological substances"
1444. SCHWAN, H. P. (1960) In: Medical Physics, 3, (Glasser, O., ed.), The Year Book Publishers, Inc., Chicago, pp. 1-7, "Absorption and energy transfer of microwaves and ultrasound in tissues: characteristics"
1445. SCHWAN, H. P. (1963) In: Physical Techniques in Biological Research, (Nastuk, W. L., ed.), Academic Press, New York, from Vol. 6, Part B of "Electrophysiological Methods", pp. 323-407, "Determination of biological impedances"
1446. SCHWAN, H. P. (1964) Final Rept. (from Univ. of Penna. under ONR Contract, (AD 600263), 13 pages, "Non-thermal effects of alternating electrical fields on biological structures"
2267. SCHWAN, H. P. (1965) Technical Progress Report (AD #615661, N65-28329), "Non-thermal effects of alternating electrical fields on biological structures"
1447. SCHWAN, H. P. (1968) In: Microwave Power Engineering, (Okress, E. C., ed.), Academic Press, N. Y., 2:215-243, "Radiation, biology, medical applications, and radiation hazards"
3302. SCHWAN, H.P. (1968), Naval Weapons Laboratory (Dahlgren, VA), Technical Report TR-2199, (Aug.), (AD #842306), "Electrical impedance of the human body" [in the 1-30 MHz range].
1448. SCHWAN, H. P. (1969) J. of Non-Ionizing Radiation 1(1):23-, "Effects of Microwave radiation on tissue - a survey of basic mechanisms"
1449. SCHWAN, H. P. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium (Cleary, S. F., ed.), Medical College of Virginia, Richmond, 17-19 Sept., Bureau of Radiological Health/Division of Biological Effects, Rept. No. 70-2, pp. 13-21, "Interaction of microwave and radio frequency radiation with biological systems"
1450. SCHWAN, H. P. (1970) Final Rept. on ONR Contract, Mar. 1964 - Dec. 1969, Univ. of Penna., "Non-thermal effects of alternating electrical fields on biological structures"
2026. SCHWAN, H. P. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):146-152, "Interaction of microwave and radio frequency radiation with biological systems"
2027. SCHWAN, H. P. (1971) Proceedings of the "Biological Effects of Non-Ionizing Radiation" Symposium, IEEE Internat. Convention & Exposition, N. Y., (Rosenthal, S. W., chm.), (22-25 Mar), "Biological effects of microwave radiation"
2268. SCHWAN, H.P. (1971), Naval Weapons Lab. (Dahlgren, Va.), Tech. Rept. TR-2713, "Hazards from exposure to ELF electrical fields and potentials."
2530. SCHWAN, H.P. (1972), IEEE Transactions on Biomedical Engineering, BME-19(4):304-312, "Microwave radiation: Biophysical considerations and standards criteria".
3020. SCHWAN, H.P. (1973), Rept., Moore School of Electrical Engineering, Univ. of Pennsylvania, (Apr. 12), 30 pps., and J. of the Franklin Institute, 296(6):495-497, (1973), "Nonionizing radiation hazards".
3620. SCHWAN, H.P. (1974), Rept., Univ. of Pennsylvania, Philadelphia (AD #A001-558), 10 pps. (Oct.), "Effect of microwaves: Local 'hot spot' heating by microwaves."

1451. SCHWAN, H. P., ANNE, A., & SEER, L. (1966) U. S. Naval Air Engineering Center, Philadelphia, Pa., Aerospace Crew Equipment Lab., Rept. # NAEC-ACEL-534; "Heating of living tissues [by microwave irradiation to determine threshold sensations of warmth]; (AD 479192L; & X66-16685) Final Rept. 1963-1965"
1452. SCHWAN, H. P., & CARSTENSEN, E. L. (1953) (Trans. AIEE preprint, Paper 53-137, Winter General Meeting, Electrical Techniques in Med. and Biology), AIEE Trans. 72:106-, "Application of electric and acoustic impedance measuring techniques to problems in diathermy"
1453. SCHWAN, H. P., CARSTENSEN, E. L., & LI, K. (1953) (AIEE Technical Paper 53-206, AIEE Summer General Meeting), Electrical Techniques in Medicine and Biology, AIEE Trans. 72:483-, "Heating of fat - muscle layers by electromagnetic and ultrasonic diathermy"
1454. SCHWAN, H. P., CARSTENSEN, E. L., & LI, K. (1954) Electronics 27:172-175, "Electric and ultrasonic deep heating diathermy"
1455. SCHWAN, H. P., CARSTENSEN, E. L., & LI, K. (1954) Arch. of Physical Med. and Rehabilitation 35:13-19, "Comparative Evaluation of electromagnetic and ultrasonic diathermy"
1456. SCHWAN, H. P., & KAY, C. F. (1957) Annals of the New York Academy of Science 65(6):1007-1013, "The conductivity of living tissues"
1457. SCHWAN, H. P., & LI, K. (1953) Proc. of the Institute of Radio Engineers 41(12):1735-1740, "Capacity and conductivity of body tissues at ultrahigh frequencies"
1458. SCHWAN, H. P., & LI, K. (1955) Trans. of the AIEE (Communications and Electronics) 16:603-607, "Measurements of materials with high dielectric constant and conductivity at ultrahigh frequencies"
1459. SCHWAN, H. P., & LI, K. (1955) Electronic Engineering 74:64-, "Measurement of materials at ultra-high frequencies"
1460. SCHWAN, H. P., & LI, K. (1955) Arch. of Physical Med. & Rehabilitation 36:363-370, "Variations between measured and biologically effective microwave diathermy dosage"
1461. SCHWAN, H. P., & LI, K. (1956) Institute of Radio Engineers Trans. on Medical Electronics PGME-4:45-49, (Also, Tech. Rept. #16, ONR Contract, Univ. of Penna., AD 80164; Also, presented at Symposium on "Physiologic & Pathologic Effects of Microwaves, Mayo Clinic, Sept. 1955), "The mechanism of absorption of ultrahigh frequency electromagnetic energy in tissues, as related to the problem of tolerance dosage"
1462. SCHWAN, H. P., & LI, K. (1956) Proc. of the Institute of Radio Engineers 44(11):1572-1581, (Also Tech. Rept. #19, Univ. of Penna. on ONR Contract, AD 122467), "Hazards due to total body irradiation by radar"
1463. SCHWAN, H. P., & LI, K. (1959) Proc. of the 1st National Biophysics Conf., Columbus, (Quastler, H., & Morowitz, H., eds., Yale Univ. Press, New Haven), pp. 355-356, "Dielectric properties of hemoglobin at ultrahigh frequencies"
1464. SCHWAN, H. P., & MACZUK, J. (1959) Proc. of the 1st National Biophysics Conf., Columbus, (Quastler, H., & Morowitz, H., eds., Yale Univ. Press, New Haven), pp. 348-355, "Electrical relaxation phenomenon of biological cells and colloidal particles at low frequencies"
2531. SCHWAN, H. P., PATZOLD, J. (and others) (1948), In: FIAT Review of German Science (1939-1946), Biophysics, Part II. pps. 1-62, (In Ger.), "Biological and therapeutic effects of high frequency electric fields".
1465. SCHWAN, H. P., & PAULY, H. (1959) Digest of Technical Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chm.), p. 54 only, "Dielectric constant and conductivity of the interior erythrocytes and pearl chain formation in blood"
1466. SCHWAN, H. P., & PAULY, H. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:113-123, "Electrical substitutes for human tissue"
1467. SCHWAN, H. P., PAULY, H., TWISDOM, J., & GLAZER, I. (1958) First Annual Progress Rept. to Air Force, Univ. of Penna. "Effects of microwaves on mankind"
1468. SCHWAN, H. P., & PIERSOL, G. M. (1953) Arch. of Physical Med. 33:34-, "Absorption of electromagnetic energy in body tissue; review and critical analysis"
1469. SCHWAN, H. P., & PIERSOL, G. M. (1954) Amer. J. of Physical Med. 33(6):371-404, "The Absorption of Electromagnetic Energy in Body Tissues: A Review and Critical Analysis, Part I, Biophysical Aspects"; Part II. Amer. J. of Physical Med., Internat. Review of Physical Med., 34(3):425-448 (1955), (AD 83453), "Physiological and clinical aspects - physiological effects of microwave diathermy"
1470. SCHWAN, H. P., SAITO, H., & SCHWARZ, G. (1966) Biophysical Journal 6:313-, (Also, Tech. Rept. #49 of Univ. of Pennsylvania), "Response of non-spherical biological particles to alternating electric fields."
1471. SCHWAN, H. P., & SALATI, O. M. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments, (Susskind, C., ed.) 3:107-, (Also: Rept. RADC-TR-59-140), "A technique for relative absorption cross-section determination"
1472. SCHWAN, H. P., SALATI, O. M., ANNE, A., & SAITO, H. (1960) Univ. of Penna. Progress Rept to Air Force, RADC-TN-60-158, (AD 241768), 77 pages, "Effects of microwaves on mankind"
1473. SCHWAN, H. P., SALATI, O., PAULY, H., ANNE, A., FERRIS, C. D., & TWISDOM, J. (1958) Univ. of Penna. Rept. to Air Force (RADC-TN-59-199, AD 217618), 42 pages, "Effects of microwaves on mankind"
1474. SCHWAN, H. P., & SHER, L. D. (1967) Univ. of Penna. Progress Rept. to ONR, (AD 656736), 8 pages, "Non thermal effects of alternating electric fields on biological structures"
1475. SCHWAN, H. P., SHER, L. D., & MERJANIAN, S. V. (1967) Proc. of the 20th Annual Conf. on Engineering in Medicine and Biology, (Also, Univ. of Penna. Tech. Rept. 51), "Optimization study of an electrical method for the rapid thawing of frozen blood"

1476. SCHWAN, H. P., & SHER, L. D. (1969) In: Dielectrophoretic and Electrophoretic Deposition, (Pohl, H. A., & Pickard, W. F., eds.), The Electrochemical Society, Inc., New York; pp. 107-126, "Electrostatic field-induced forces and their biological implications"
1477. SCHWAN, H. P., & SHER, L. D. (1969) *J. of the Electrochemical Society: Reviews & News* 116(1):22C-, "Alternating-current field-induced forces and their biological implications"
1478. SCHWAN, H. P., & SHEN, D. W. C. (1959) *Digest of Technical Papers. Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology*, (Schwan, H. P., Chm.), Sponsored by the Institute of Radio Engineers, the Amer. Institute of Electrical Engineers, and the Instrument Soc. of Amer., (Nov.), "Relaxation parameters of a suspension of membrane covered ellipsoids"
1482. SCHWARZ, G. (1963) *J. of Chemical Physics* 39(9):2387-2388, "General equation for the mean electrical energy of a dielectric body in an alternating electrical field"
1483. SCHWARZ, G., SAITO, M., & SCHWAN, H. P. (1966) *J. of Chemical Physics* 43(10):3562-3569, (Univ. of Penna. Rept.), (AD 631617), "On the orientation of nonspherical particles in an alternating electrical field"
3021. SCHWARZ, H.F., BOSISIO, R.G., WERTHEIMER, M.R., & COUDERC, D. (1973), *J. of Microwave Power*, 8(3/4):303-322, "Microwave curing of synthetic rubbers"
1480. SCHWARTZ, R. F. (1966) *Electronic Industries* (June), pp. 88-96, "Precision microwave power measurements, a survey"
1481. SCHWARTZKOPFF, J. (1950) *Die Vogelwarte* 15(3):194-196, (NRC Transl. TT-1161; N65-28815), "On the question of the perception of ultra-shortwaves by migratory birds"
2532. SCOTT, J.B. (1970), *MicroWaves*, 9(11):14 only, "Can microwaves deliver Power? Electricity from solar power satellite proposed. Project deemed possible, but requires major advances in technology"
1484. SCOTT, J. (1971) *Microwaves* 10(1):9-14, "Is today's standard for microwave radiation safe for humans"
3022. SCOTT, N.W. (1973), Honolulu Star-Bulletin, 3-Part Series entitled: *Microwaves: A health hazard*. Part I, Dec. 28, entitled "Oven damaged her eyes", pp. 1, and "Microwave ovens are potentially harmful" pp. A-10. Part II, Dec. 29, entitled "Radar apparently a source of peril" [case history of veterans]. Part III, Dec. 31, entitled: "Lawyers, not doctors, may resolve problem [an interview with Dr. M. Zaret]"
3303. SEAMAN, R.L. (1974), Ph.D. dissertation, (with WACHTEL, H.), Department of Biomedical Engineering, Duke University, (prepared under contract FDA 73-35), "Neuronal effects of low level microwaves"
1485. SEARLE, G., DAHLEN, R. W., IMIG, C. J., WUNDER, C. C., THOMSON, J. D., THOMAS, J. A., & MORESSI, W. J. (1961) *Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation*, Vol. 1, (Peyton, M. F., ed.), pp. 187-199, "Effects of 2450 mc microwaves in dogs, rats, and larvae of the common fruit fly"
1486. SEARLE, G. W., IMIG, C. J., & DAHLEN, R. W. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments* (Susskind, C., ed.) 3:54-61, "Studies with 2450 Mc(cw) exposures to the head of dogs"
2533. SEBRANT, Yu.V., & TROYANSKII, M.P., (1969), *Biologiya*, Seriya 4, Moscow, 31 pps., (Nat. Res. Council of Canada Tech. Transl. #159, (1972); (N72-18073); and *Izd-vo "Znaniye"*, 32 p. (JPRS 53265), "Radio waves and the living organism"
1487. SEDLACEK, J., & MACEK, O. (1966) *Sbornik Lekarsky*, Prague, 68:28-35, "Attempt to analyze the substance responsible for the high frequency impedance of cerebral tissue"
1488. SEDUNOV, B. I., & FRANK-KAMENETSKII, D. A. (1963) *Uspekhi Fizicheskikh/ Moscow*, 79(3):617-639, (Amer. Institute of Physics Transl. 6(2):279-293 (1963)), "Dielectric constants of biological objects"
1489. de SEGUIN, L. (1947) *Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences* 225:76-77, (In French), "Reversibility of lesions observed in small animals exposed to ultra high frequency radiation (wavelengths of 21 cm)"
1490. de SEGUIN, L. (1949) *Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences* 228:135-, (In French) "Laws of heat distribution in tissues of organisms irradiated with ultrahigh frequency electromagnetic fields"
1491. de SEGUIN, L. (1949) *J. de Radiologie et d'Electrologie* 30:458-461, (In French), "Biophysical bases of therapeutic applications of microwaves"
1492. de SEGUIN, L., & COSTELAIN, G. (1947) *Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences* 224(23):1662-1663, (In French), "Effect of ultra high frequency waves (wavelengths of 21 cms) on temperature of small laboratory animals"
1493. de SEGUIN, L., & COSTELAIN, G. (1947) *Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences* 224(26):1850-1852, (In French), "Anatomic lesions observed in laboratory animals exposed to ultrahigh frequency radiation (wavelength of 21 cms)"
1494. de SEGUIN, L., LEFABVRE, J., & POLIETIER, M. (1949) *J. de Radiologie et d'Electrologie* 30:566-568, (In French), "Specific action of microwaves on tissue cultures"
1495. de SEGUIN, L., et al. (1948) *Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences* 227:783-, (In French), "Increase in the growth rate of tissue cultures irradiated with ultrahigh frequency electromagnetic radiation (wavelength 21 cm)"
3621. SEIDEL, D., KNOLL, M., & EICHMEIER, J. (1968), *Pflueger Arch. Ges. Physiol.*, 299():11-18, "Excitation of subjective light patterns (phosphenes) in humans by sinusoidal magnetic fields."
1496. SEIPEL, J. H., & MORROW, R. D. (1960) *J. of the Wash. Academy of Sciences* 50(6):1-4, "The magnetic field accompanying neuronal activity: a new method for the study of the nervous system"
1497. SEMENOV, A. I. (1962) *Izd-vo Moskovskogo Universitets, Moskva*, pp. 1-254, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "Theory of electromagnetic waves"

1498. SEMENOV, A. I. (1965) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 60(7):64-66, (Abstr. in: ATD Press, Special Issue "Biomedical Microwave Research" 4(43):6-7 (1965)), "The influence of the SHF-UHF electromagnetic field on the temperature in rabbit femoral tissues"
1499. SEMENOV, S. V. (1965) *Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 60(4):17-19, (FTD Transl. TT-65-31496; JPRS 30998; N65-28140), "Elimination of hypothermia in dogs by means of high frequency currents"
(Possibly Zankevich?)
1500. SENKEVECH, A. I. (1959) Summaries of reports. Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves; Moscow, p. 6 only, (Title not given)
1501. SERCL, J., et al. (1961) *Sbornik Vedeckych Praci Lekarske Fakulty Karlovy University, Czechoslovakia*, 4(4):427-440, (Also *Z. ges. Hyg.* 7:897-907, (1961), (in German)), "On the effects of cm electromagnetic waves on the nervous system of man; radar"
3622. SERDYUK, A.M. (1975), *Gigiyena Naselennykh Mest*, 14(14):95-99, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 8-12, "State of the cardiovascular system under the chronic effect of low-intensity electromagnetic fields."
2534. SERGEYEV, G.V. (1965), *Moskva, Izd-vo Meditsina*, 226 pps., (In Russ.), Electrosleep Therapy of Patients with Hypertension Under Controlled Study of Their Higher Nervous Activity.
2535. SERGEYEV, G.V., IL'INA, L.I., & KOSTYUKHINA, N.A. (1966), In: Electrosleep and Electroanesthesia. Materials of the All-Union Symposium on Problems of Electrosleep and Electroanesthesia [Electronarcosis], Dedicated to the 20th Year of the Electrosleep Method, pp. 154-156, (In Russ.), Moscow, (13-15 Oct.), "Selection of a mode for treating hypertonia patients as a function of the type of CNS conditions".
2536. SERVANTIE, B., BERTHARION, G., & JOLY, R. (1971), *Comptes rendus des seances de la Societe de Biologie*, 165(2):376-378, (In Fr.), "Influence of electromagnetic radiation of very high frequency on the sensitivity to the triiodoethyl salt of gallium and to the hexamethyl iodonium salt on the white rat".
2537. SERVANTIE, B., BERTHARION, G., & JOLY, R. (1971), *Comptes rendus des seances de la Societe de Biologie*, 165(9-10):1952-1956, (In Fr.), "Influence of high frequency electromagnetic radiation on the sensitivity to pentetrazol (Fr. T.M.) of the white mouse".
3023. SERVANTIE, B., BERTHARION, G., JOLY, R., SERVANTIE, A.-M., ETIENNE, J., DREYFUS, P., & ESCOUBET, P. (1973), Rept. No. 73-17 of Centre D'Etudes et de Recherches Bio-Physiologiques Appliquees a la Marine, (Toulon, France), "Pharmacological effects of a pulsed microwave field".
2538. SERVANTIE, B., JOLY, R., & BERTHARION, G. (1971), *J. of Microwave Power*, 6(1):59-62, "Experimental study of the biological effects of microwave radiation on the white rat and mouse".
2539. SERVIT, Z., BURETS, Ya., BURESHOVA, O., & PETRAN', M. (1953), *Cekhoslovatskaya fiziologiya*, 2(4):337-346, (In Russ.), "The problem of electronarcosis and electrosleep".
[thermal & nonthermal]
1502. SETH, H. S., & MICHAELSON, S. (1964) *Aerospace Medicine* 35(3):734-739, "Microwave/hazards evaluation"
1503. SETH, H. S., & MICHAELSON, S. M. (1955) *J. of Occupational Medicine* 7(9):439-442, "Microwave cataractogenesis"
1504. SETTER, L. R., SNAVELY, D. R., SOLEM, D. L., & VAN WYE, R. F. (1969) U. S. Dept. of Health, Education, and Welfare, Public Health Service Publication No. 999-EE-35 (April), 77 pages (limited distribution), (Also in: "Senate Hearings", pp. 1216-1296); "Regulations, standards, and guides for microwaves, ultra-violet radiation, and radiation from lasers and television receivers - an annotated bibliography"
1505. SEVAST'YANOV, V. V. (1965) *Voyenno Meditsinski Zh.*, USSR Military Med. Jour., 7(7):21-25, "Measurement of SHF-UHF electromagnetic radiation intensities and the problem of their hygienic appraisal"
1506. SEVAST'YANOV, V. V. (1969) *Voyenno Meditsinski Zh.*, USSR Military Med. Jour., 1(1):54-55, "Visual recording technique used in the assessment of SHF-UHF effects on an organism"
3623. SEVAST'YANOV, V.V. (1974), *Voen. Med. Zh.*, 12(12):53-57 (in Russian), Transl. In: *Mill. Med. J.*, 12(12):53-57 (Dec.), "A rapid method of visualizing the structure of an extremely high-frequency field" [using heat sensitive paints].
3624. SEVAST'YANOVA, L.A., & VILENSKAYA, R.L. (1974), *Biologicheskiye nauki*, 6(6):48-49 (in Russian), Abstr. In: *Neuroelectric News*, 5(2):4 only (July 1975), "Reaction of marrow cells of mice to parameter variations of SHF irradiation in the millimeter-wave range."
3625. SEVAST'YANOVA, L.A., & VILENSKAYA, R.L. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #64532), pp. 7-9, "Mouse bone marrow reaction to altered UHF millimeter irradiation parametric variation."
2540. SHACKLETT, D.E., TREDICI, T.J., & EPSTEIN, L. (1973), (U.S. Air Force School of Aerospace Medicine, Brooks AFB, Texas), Presented at 44th Ann. Scientific Meet., Aerospace Medical Assoc., May 7-10, Las Vegas, Nev., "Microwave lenticular effects in the United States Air Force".
3626. SHACKLETT, D.E., TREDICI, T.J., & EPSTEIN, D.L. (1975), *Aviation, Space, and Environmental Medicine*, 46(11):1403-1406, "Evaluation of possible microwave-induced lens changes in the United States Air Force."
2541. SHAKHBAZOV, V.G., CHEPEL, L.M., ZHILINA, G.E., KOTENKO, L.V., GRIGORIEVA, N.N., & POPEL, A.T. (Kharkov State Univ., USSR), (1972), Abstr. of Fourth Internat. Cong. of the Internat. Union for Pure and Applied Biophysics, Moscow, (7-14 Aug.), 114-115, "Effect of magnetic field, ultrahigh frequency fields, ultraviolet radiation and extreme temperatures upon inbred and hybrid organisms". (Genetic studies on plants and animals indicate that genotype peculiarities show differences in reaction of organisms to the physical agent.)
1507. SHAPAR, H. K. (1961) *Health Physics* 5:155-159, "Significance of health physics evidence in the trial of a case of radiation personal injury"

2028. SHAPIRO, A. R., LUTOMIRSKI, R. F., & YURA, H. T. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves MTT-19(2):187-196, "Induced fields and heating within a cranial structure irradiated by an electromagnetic plane wave"
3627. SHAPOSHNIKOV, Yu.G., YARES'KO, I.F., & VERNIGORA, Yu.V. (1975), Byulleten' Eksperimental'noy Biologii i Meditsiny, 53(8):116-118 (Aug.), (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"(JPRS #L/5615), 10 Feb. 1976, pp. 29-32, "Histomorphological investigation of regeneration of wounds in animals exposed to the long-term action of low-intensity microwaves" [4 mW/cm², freq. ?, guinea pigs].
1508. SHARMA, R.C. (1967), Nature, 214(5083):83-84, (Apr. 1), "Mechanism of characteristic behavior of cells in an alternating electric field."
3024. SHARP, J.C., GROVE, H.M., & GANDHI, O.P. (1974), IEEE Transactions on Microwave Theory & Techniques, MTT-22():583-584, (May), "Generation of acoustic signals by pulsed microwave energy."
2542. SHARP, J.C., & PAPERIELLO, C.J. (1971), Radiation Research, 45:434-439, "The effects of microwave exposure on Thymidine-³H uptake in albino rats". [Ten-minute exposure at 32 mW/cm² to 2450 MHz decreased thymidine uptake in ovarian and intestinal tissue; at 16 mW/cm², change noted in ovarian but not in intestinal tissue. Changes not noted in lung, liver, kidney, or heart.]
1509. SHAW, T., & WINDLE, J. (1950) J. of Applied Physics 21:956-, "Microwave techniques for measurement of the dielectric constant of fibers and films of high polymers"
3025. SHAWVER, L.J. (1973), Science News, 104(13):202-204, (29 Sept.), "Science focuses on a 'light of life': Kirlian photography, controversial and poorly understood, nevertheless could become a valuable diagnostic tool"; and cover, and p.195 "Light from the edge of science: The strange world of Kirlian photography".
1510. SHCHEGLOVA, (1961) Gigiena i Sanitariya, USSR, 28(5):18-22, (JPRS 23898), "On the combined action of a high frequency electromagnetic field and x-ray in industry"
1511. SHCHERBAK, A. YE. (1933) Byulleten Gosudarstvennogo Tsentral'nogo Instituta Sechenova (Bull. of the State Central Institute of sechenova), (2-3):pp.? "From the history of the scientific life of the Sechenov Institute"
3304. SHEALY, C.N. (1972), Surg. Forum, 23():419-421, "Transcutaneous electroanalgesia".
3305. SHEALY, C.N., & MAURER, D. (1974), Surgical Neurology, 2():45-47, "Transcutaneous nerve stimulation for control of pain".
2269. SHIELDON, L. (1944) Bureau of Med. (U. S. Navy) News Letter 3(10):30-31, "Radar operation not harmful to the eyes"
3628. SHEMETILO, I.G., & MALLABIU, G.A. (1975), Voprosy Kurortologii i Fizioterapii i Lechebnoy Fizicheskoy Kul'tury, (4):369-370, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"(JPRS #L/5615), 10 Feb. 1976, pp. 58-60, "The treatment of patients with epicondylitis of the arm by novocain electrophoresis using a rectified sinusoidal medium-frequency current and by centimeter range microwaves."
1512. SHEMYAKOV, S. I. (1955) Voenno Meditsinskii Zh., USSR Military Med. Jour., (5):79-83, "Certain data of medical observations in radio technical stations"
1513. SHEN, D. W. C., & SCHEWAN, H. P. (1959) Digest of Technical Papers. Proc. 12th Annual Conf. on Electrical Techniques in Medicine and Biology, (Schwan, H. P., Chm.), Nov., p. 55 only, "Relaxation parameters of a suspension of membrane-covered ellipsoids"
1514. SHER, L. D. (1970) Paper presented at 4th Annual Midyear Topical Symposium, Health Physics Soc., Electronic Product Radiation and the Health Physicist, Jan., Louisville, Ky., Bureau of Radiation Health, Div. of Electronic Products, Rept. No. 70-26, pp. 431-462, "Interaction of microwave and RF energy on biological material"
1515. SHER, L. D. (1970) Medical Research Engineering 9(1):12-16, "Symposium on biological effects and health implications of microwave radiation: a review"
1516. SHER, L. D., KRESCH, E., & SCHEWAN, H. P. (1970) Biophysical Journal 10(10):970-979, "On the possibility of nonthermal biological effects of pulsed electromagnetic radiation"
1517. SHER, L. D., & SCHEWAN, H. P. (1963) Ph.D. thesis of L.D.S., and Tech. Rept. #37 to ONR, the Moore School of Electrical Engineering, Univ. of Perma., (Abstr. in IEEE RME-16:1, 1969), "Mechanical Effects of AC Fields on Particles Dispersed in a Liquid; Biological Implications"
1518. SHER, L. D., SCHEWAN, H. P., AND MACZUK, J. (1965) Digest of 6th Internat. Conf. on Medical Electronics and Biological Engineering, (Iwai, Y., ed.) Aug., pp. 547-548, "The electrical impedance of frozen blood and applications to electrical methods of thawing"
1519. SHEPESHVSKAYA, L. (1966) Vestnik Oftalmol/ (3):5-9, "Centimeter-band therapy of dystrophy of the macula lutea and uveitis"
1520. SHEVCHIK, F., & VETTERL', V. (1965) Biofizika 10(3):441-446, (ATD 66-55) (Abstr. in: ATD Press, Special Issue, "Biomedical Microwave Research" 4(43):1-3, (1965)), "Complex dielectric permittivity of solutions in the centimeter wave band"
1521. SHEVELOVA, A. B. (1939) Sbornik trudov Instituta Fiziologii Dnepropetrovsk. Universitet., 1937-1940, (Subseries of the University's "Nauchnye Zapiski", monograph), 2:31-, "Influence of VEF fields on heart action in the frog"
1522. SHEYVAS, V. B., & ZUFAROV, K. A. (1968) Med. Zn. Uzbek, (6):12-15, "Biological effects of electromagnetic fields; electron microscopic research"
1523. SHEYVEKHMAN, B. YE. (1949) Problemy Fiziologicheskoy Akustiki, USSR, 1:122-127, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965); (AD 281129; FTD-TT-62-491/1+2), "Effect of the action of a VHF-HF field on the aural sensitivity during application of electrodes in the zone of projection of the aural zone of the cortex (lamella of temporal bone)"

3026. SHIFFMAN, M., & SAFFORD, F.K. (1943), *Physiotherapy Rev.*, 23():235-?, "Pulsating high voltage short wave: A preliminary clinical report".
3027. SHILYAYEV, V.G. (1970), In: Influence of Microwave Radiation on the Organism of Man and Animals, (PETROV, I.R., (ed.)), Leningrad, USSR, Academy of Medical Sciences of the USSR, Meditsina Press, "Effects of microwave radiation on the visual organ".
1524. SHIMKOVICH, I. S., & SHILYAYEV, V. G. (1959) *Vestnik Oftalmol.*, Moscow, 72(4):12-16, (Abstr. in Mammalian Eye, A Literature Survey, by Lazarus, H. B., & Levedahl, B. H., TID-3912, DTIC, U. S. Atomic Energy Commission, Oak Ridge, Tenn., 1962, pp. 447-), "Development of cataract of both eyes as a result of brief exposures to high density SHF-UHF electromagnetic fields"
1525. SHINDRYAYEV, A. A. (1969) *Voyenno-Meditsinski Zh.*, (USSR Military Med. J.), (5):87-88, "Nomogram for determining radii of radar set danger zones"
1526. SHINN, D. H. (1958) *Nature* 182(4652):1792-1793, "Health hazards from powerful radio transmissions"
1527. SHINOWARA, G. YE., & HORAVA, A. (1962) *Inst. of Contemporary Russian Studies* 4(3):7-8, "The biological action of ultra-high frequencies"
1528. SHIPP, L. M. (1965) *J. of Occupational Medicine* 7:423-430, "Electronics and medicine"
3306. SHISLO, M.A. (1971), In: KHOLODOV, Yu.A. (ed.), Influence of Magnetic Fields of Biological Objects, (Citation #3230, this Biblio.), pp. 20-35, "Influence of magnetic fields on enzymes, tissue respiration, and some aspects of metabolism in an intact organism".
2270. SHWELY, J. N. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, NREH, (Rept. No. NRE/OBE 70-7), pp. 201-203, "A pilot study of effects of microwave exposure on ootogenesis" [using 2 - 3 day old eggs]
1529. SHLYAFER, T. P., & YAKOVLEVA, M. I. (1969) *Fiziologicheskii Zh.*, SSSR, 55(1):16-21, (In Russian with English summary), "The effect of SHF-UHF electromagnetic fields on the pulsed activity of cerebro-cortical neurons"
1530. SHMELEV, V. P. (1964) In: Some Questions of Physiology and Biophysics, Voronezh, pp. 89-, "The effect of an electromagnetic field of the audio- and radio-frequency ranges on the reflex activity of the spinal cord"; and *ibid.*, pp. 98-, "The state of electric activity of the brain due to action of electromagnetic vibrations of the audio- and radio-frequency range on the organism"
1531. SHNEYVAS, V. B., & ZUFAROV, K. A. (1968) AID Press, Aerospace Technology Division, Library of Congress 7(10):4-5, (Summary in: *USSR Science Abstracts* (62):48-, (1968)), "The biological effect of electromagnetic fields (electron-microscopic study)"
1532. SHORE, M., & LEACH, W. (1969) In: Conf. on Federal-State Implementation of Public Law 90-602, (Miller, J. W., & Gerusky, T. M., Co-Chm.), Bureau of Rad. Health Rept. ORD 69-4 [LD50 Studies on rats & hamsters; changes in protein synthesis; chromosomal studies following exposure to electromagnetic radiation]
3629. SHOSTAK, A. (1975), *Naval Research Reviews*, 28(12):1-12 (Dec.), "Navy telecommunications past and present [with comments on the SANGUINE system]."
3630. SHTEMLER, V.M. (1974), *Biologicheskiiye Nauki*, (10):52-55 (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 60-66, "Effect of microwaves on blood serum butyryl cholinesterase activity *in vivo*."
1533. SHTOL'TSER, V. R. (1958) *Problemy Gematologii i Perelivaniia Krovi*, Moskva, 3(3):178-183, "Changes in the activity of hemostatic blood preparations caused by the electromagnetic field"
3028. SHTRIKMAN, S. (1974), *Personal Communication*, (Dept. of Electronics, Weizmann Institute, Rehovot, Israel), "Remote determination of respiration rate using a 3 GHz microwave interferometer to measure the instantaneous relative distance between the chest wall and the instrument".
3307. SHUL'PEKOV, A.A. (1971), In: KHOLODOV, Yu.A. (ed.), Influence of Magnetic Fields on Biological Objects, (Citation #3230, this Biblio.), pp. 175-186, "Peculiarities of methods and methodology of magnetobiological experiments".
2543. SHURIDHINA, A. (1970), Rept., 9 pps. (JPRS #1659), "Pulsed microwave therapy".
1534. SHVARTS, YA. I. (1945) Frunze, Local and Reflected Changes Due to Localized Action of HF-VHF Field Upon Cervicothoracic Segments of the Spinal Cord
1535. SIDONS, H., & SOWTON, E. (1967) *Chas. C. Thomas, Publ.*, Springfield, Ill., pp. 99-102, [see especially p. 100 for a discussion of experimental effects on cardiac pacemakers of various types of RF/microwave/diathermy, etc. equipment], Cardiac Pacemakers
3308. SIEKIERZYNSKI, M., CZERSKI, P., MILCZAREK, H., GIDYNSKI, A., CZARNECKI, C., DZIUK, E. & JEDRZEJCZAK, W. (1974), *Aerospace Medicine*, 45(10):1143-1145, (Oct.), "Health Surveillance of personnel occupationally exposed to microwaves: Part II - Functional disturbances", (See citation #3029, this Biblio.).
3309. SIEKIERZYNSKI, M., CZERSKI, P., GIDYNSKI, A., ZYDECKI, S., CZARNECKI, C., DZIUK, E., & JEDRZEJCZAK, W. (1974), *Aerospace Medicine*, 45(10):1146-1148, "Health surveillance of personnel occupationally exposed to microwaves: Part III - Lens translucency", (See citation #3030, this Biblio.).
3029. SIEKIERZYNSKI, M., CZERSKI, P., MILCZAREK, H., GIDYNSKI, A., CZARNECKI, C., DZIUK, E., & JEDRZEJCZAK, W. (1974), *Aerospace Medicine* (In Press), "Analysis of occupational exposure to microwaves: Part II Functional disturbances"
3030. SIEKIERZYNSKI, M., CZERSKI, P., ZYDECKI, S., CZARNECKI, C., DZIUK, E., & JEDRZEJCZAK, W. (1974), *Aerospace Medicine*, (In Press), "Analysis of occupational exposure to microwaves: Part III Lens translucency".

1536. SIEMS, L. L., KOSHAN, A. J., & OSBORNE, S. L. (1948) Arch. of Physical Medicine 29(12):759-764, "A comparative study of short wave and microwave diathermy on blood flow"
1537. SIGEL, M. M., & BURNSTEIN, T. (1959) In: Annual Rept. of Microwave Radiation Research, Univ. of Miami, (AD 232925), "Effect of microwaves on mammalian cells grown in vitro"
2271. SIGELMAN, S., & FRIEDENWALD, J. S. (1954) A.M.A. Arch. of Ophth. 52(1):46-57, (Abstr. in: Ophth. Lit. 8(3):356 (Mar 1955)), "Mitotic and wound healing activities of the corneal epithelium. Effect of sensory denervation"
1538. SIGLER, A. T., LILIENTHAL, A. M., COHEN, B. H., & WESTLAKE, J. E. (1965) Bull. of Johns Hopkins Hospital 117(6):374-400, "Radiation exposure in parents of children with Mongolism (Downs Syndrome)"
1539. SILVER, S. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments, (Suskind, C., ed.), 3:22-32, (RADC-TR-59-140; AD 234788), "Physical aspects of microwave radiation"
2544. SILVERBERG, G. (1973), The Sciences (of the N.Y. Acad. of Sciences), 13(3):6-10, "Unreasoning radiation: Do microwaves pose a hazard to mind and body?"
2272. SILVERMAN, C. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1969, Div. of Biological Effects, Bur. Rad. Health, DEEN, (Rept. No. DBE/DBE 70-1), p. 22 only, "Parental radiation exposure and Down's syndrome (mongolism)"
2273. SILVERMAN, C. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DEEN, (Rept. No. DBE/DBE 70-7), pp. 22-23, "Parental radiation exposure and Down's syndrome (mongolism)"; and pp. 45-46, "Follow-up study of radar workers"
2545. SILVERMAN, C. (1973), J. of Epidemiology, 97(4):219-224, (Apr.), "Nervous and behavioral effects of microwave radiation in humans"
1540. SILVERS, L. J. G. (1935) Arch. of Physical Therapy 16:671-673, "Control of pain and hemorrhage in electrosurgical tonsillectomy"
1541. SIMMONS, A., & EMERSON, W. (1953) Tele-Tech and Electronic Industries 7:pp.?, "Anochoic chambers for microwaves"
1542. SIMON, C. W., & ANDERSON, L. E. (1956) Presented at 8th Annual Meeting of Flight Safety Foundation (Hughes Aircraft Co.), (AD 144764), "Potential ground hazards of high performance radar"
1543. SIMONELLI, M., & RIZZINI, V. (1951) Giornale Italiano di Oftalmologia 4(1):3-¹⁰ (In Italian), "Action of microwaves on the eye (preliminary note)" (Abstr. in: Zentralbl. f. d. ges. Ophth. 59(7):344 (July 1953))
2274. SIMONELLI, M., & RIZZINI, V. (1952) Giorn. Ital. Oftal. 5(3):190-196 (May/June), (In Ital., with Fr., Eng., & Ger. summaries), (Abstr. in: Zentralbl. f. d. ges. Ophth. 52(1):55 (Mar 1953), and Ophth. Lit. 6(3):263 (Dec 1952)), "Further contribution to the study of the effect of microwaves on the eye"
1544. SINGATULLINA, R. G. (1961) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 52(7):69-72, (In Russian), "The effect of ultrahigh frequency currents on blood serum protein fractions"
1545. SINGATULLINA, R. G. (1961) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 52(7):812-815, (Also, Biological Abstracts 38(5636), (1962)), "The effect of UHF currents on proteins in blood serum fractions"
1546. SINISI, L. (1954) Electroencephalogy & Clinical Neurophysiology 6:535-, "EEG [human] after radar application"
3310. SIVORINOVSKIY, G.A. (1973), Vorposy Kurortologii, Fizioterapii i Lechebnoy Kul'tury, 38(3):222-227, [Transl. in "Effect of nonionizing electromagnetic radiation," JPRS #62462, July 1974, Citation #3134 this Biblio., pps. 32-40], "The biological action of ultrasonic sound and super high-frequency electromagnetic fields in the three-centimeter range."
3311. SIVORINOVSKII, C.A. (1973), Vorp. Kurortol. Fizioter. Lech. Fiz. Kult., 38():222-227, "Mechanism involved in the biological action of ultrasound and superhigh frequency electromagnetic fields in the 3-cm range", [oxidative phosphorylation studied in rat liver and kidney mitochondria at exposure levels between 25 and 100 $\mu\text{W}/\text{cm}^2$ for 10 min].
1547. SKAGGS, G. A. (1971) Naval Research Laboratory Memorandum Report 2218, 11 pages, "High frequency exposure chamber for radiobiological research"
2546. SKIDMORE, W.D., & BAUM, S.J. (1973), Armed Forces Radiobiology Research Institute, Bethesda, Md., Scientific Rept. #SR73-10 (June), "Biological effects in rodents exposed to pulsed electromagnetic radiation".
3631. SKIDMORE, W.D., & BAUM, S.J. (1974), Health Physics, 26(5):391-398 (May), "Biological effects in rodents exposed to 10^8 pulses of electromagnetic radiation."
2094. SKLENSKY, B., NEBDAL, J., & ZAKOVA, L. (196?) Pracovni lekarstvi 20:363-366, (Abstr. in: Non-ionizing Rad. 1(3)152-153, (1969)), (Also CIS abstract 362-1969), "State of health of workers exposed to radiofrequency radiation in industrial establishments at Brno"
2547. SKRIPKIN, Yu.K. (1967), In: Neurodermatitis: Problems of Etiology, Pathogenesis, and Therapy, Izd-vo Meditsina, pp. 108-116, (JPRS 42,899), "Treating neurodermatitis patients with electrosleep and hypnosis".
1548. SKURIKHINA, L. A. (1961) Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Science, Physiotherapy & Medical Physical Culture), Moscow, 4(4):338-, "The therapeutic application of microwaves (SHF electromagnetic fields)"
1549. SKURIKHINA, L. A. (1962) Novosti Meditsinskoy Tekhniki, Moskva, 3(3):9-, "Clinical and physiological bases of microwave therapy"
1550. SLAOSPITSKIY, A. A. (1964) In: Biological Action of Ultrasound and SHF-UHF Electromagnetic Oscillations, (Gorodetskiy, A. A., ed.), Academy of Sciences, Institute of Physiology, imeni A. A. Bogomolets, Kiev, UKR SSR, (JPRS 38060; N65-28707), pp. 92-107, "The problem of microwave lesions of the skin"

1551. SLABOSPITSKIY, A. A. (1964) In: Problems of the Biophysics and Mode of Action of Radiation, Zdorovya Publ. House, Kiev, pp. 89-94, (Transl. of abstr., Zh. Biol. (19), (Oct. 1965), Abstr. 19-P-373; JPRS 34963), "Morphological changes in the skin of white rats when exposed to centimeter range radio waves"
1552. SLABOSPITSKIY, A. A. (1965) Fiziologicheskiy Zh. SSSR, 11(2):225-231, "The mechanism of action of microwaves on the skin"
1553. SLAVTSKIY, G. M. (1937) Sevastopol, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, AID Rept. P-65-17, Apr. 1965), The Experimental Foundation of Short Wave Therapy
1554. SLAVTSKIY, G. M., & BURMAN, L. S. (1935) Bull. Gosudarstvennogo Tsentral'nogo Nauchno-issledovatel'skogo Inst. imeni Sechenova (6-7): "The problem concerning pathological anatomical changes occurring in the organs and tissues under total exposure to short waves"
1555. SLEPICKA, J., SLIVOVA, A., ZPPOCHMOR, O., & ZAPLETALOVA, E. (1967) Pracovní Lékařství, Prag 19:5-11, "The effect of electromagnetic radiation in the meter wavelength on operators of short-wave radio transmitters"
2275. SLINNEY, D. H., & PALMISANO, W. A. (1967) Army Environmental Hygiene Agency Rept. (N67-32384, AD 65270R), "Microwave hazards bibliography"
1557. SMIRNOVA, M. I., & SACHIKOVA, M. M. (1960) Nauchno-issledovatel'skiy Institut Gigiya Truda i Profzabolevaniya Trudy (1):50-51, (Also in: The Biological Action of Radio-Frequency (UHF) Electromagnetic Fields, (Letavat, A. A., & Gordon, Z. V., eds.), (JPRS 12471, (1962), pp. 47-49); (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, AID P-65-68, Sept. 1965, pp. 18-19, "Effect of UHF on thyroid gland functions"); (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, AID Rept. P-65-17, Apr. 1965), "Determination of the functional activity of the thyroid gland by means of radioactive iodine in workers exposed to UHF fields"
1558. SMIRNOVA, M. I., & SACHIKOVA, M. M. (1962) Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, (Title not given)
1559. SMITH, E. E. (1928) U. S. Navy Medical Bulletin 26:479-502, "Heat stroke, a thermoregulatory incompetency"
1560. SMITH, G. C. (1950) British Medical J., No. 4668, (July 13-21), pp. 1466-1467, "Effects of diathermy currents on metal implants in the body wall"
1561. SMITH, G. C. (1958) Medical J. of Australia 45:313-315, "Radiation hazards in industry"
2548. SMITH, R.H. (1963), Electrical Anesthesia, Charles C. Thomas, Springfield, 54 pps. (LC: 62-21127).
3031. SMITH, S.W., & BROWN, D.G. (1973), IEEE Trans. on Electromagnetic Compatibility, EMC-15(1):2-6, "Nonionizing radiation levels in the Washington, D.C. area"
1562. SMOLYANOV, A. A. (1957) Sci. Work 1st Leningrad Military Naval Hospital, pp. 56-65, "The effect of high frequency pulsed field on the vegetative nervous system"
1563. SMEROVA, YE. I. (1959) Summaries of reports. Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, "Occupational hygiene problems in areas where MF-UF currents are used"
1564. SMEROVA, YE. I. (1966) Gigiya Truda i Professional'nye Zabolevaniya (Moskva) 10(1):17-, (JPRS 35648; TT-66-32083), "Health characteristics of conditions for medical personnel working with sources of radio frequency range electromagnetic fields"
1565. SMEROVA, YE. I. (1967) Gigiya i Sanitariya, USSR, 32(6):37-41, (TT-67-51409-2); (Also Abstr. in: Soviet Radiobiology, AID 68-105-108-9, pp. 84-85) (AD 671436), "Changes in the phagocytic and bactericidal functions of the blood in animals exposed to radio frequency electromagnetic fields"
1566. SMEROVA, YE. I., ROGOVAYA, T. Z., TROITSKIY, A. S., LASECHENKO, N. S., & MELNIKOVA, N. D. (1962) Gigiya Truda i Professional'nye Zabolevaniya (Moskva) 6(5):22-23, (In Russian), (JPRS 14925, N62-14907), "Problems of occupational hygiene and health status of operators exposed to the effects of high frequency currents"
1567. SMEROVA, YE. I., ROGOVAYA, T. Z., YAKUB, I. L., & TROITSKIY, S. A. (1964) Gigiya i Sanitariya, USSR, (12):27-30, (Abstr. in: Biological Effects of Microwaves, AID-P-65-68, pp. 11-12 (1965)), "Industrial hygiene and the health of technicians servicing 60 - 90 kc generators"
1568. SMEROVA, YE. I., ROGOVAYA, T. Z., YAKUB, I. L., & TROITSKIY, S. A. (1966) Kazanskiy Meditsinskiy Zh. 47(2):82-84, "General health of workers working with HF, UHF, and VHF generators in physiotherapy machines"
2549. SMYTH, N., KESHISHIAN, J., HOOD, O., HOFFMAN, A., PODOLAK, E., & BAKER, N. (1972), J. of the Assoc. for the Advancement of Med. Instrumentation, 6:192-, "Effects of active magnetic fields on permanently implanted triggered pacemakers".
3032. SMYTH, N.P.D., KESHISHIAN, J.M., HOOD, O.C., HOFFMAN, A.A., PODOLAK, E., & BAKER, N.R. (1973), Medical Instrumentation, 7(3):189-195, (May-Aug.), "Effects of active magnetic fields [frequency of 100 Hz to 450 kHz, field strength 0.5 to 1.35 gauss] on permanently implanted triggered pacemakers", [no ill effects noted from weapons detectors].
3033. SMYTH, N.P.D., PARSONNET, V., ESCHER, D.J.W., & FURMAN, S. (1974), J. of the Amer. Med. Assoc., 227(12):1412 only, (Mar. 25), "The pacemaker patient and the electromagnetic environment".
2551. SNYDER, J.J., & GLAZIER, P.A. (1966), In: First International Symposium on Electrotherapeutic Sleep and Electroanesthesia, Graz, Austria, (12-17 Sept.), "Hormone release during application of low-intensity current".
1569. SNYDER, S. H. (1970) Annual Summary Report, Johns Hopkins Univ. (AD 710005), June 1960 to May 1970, 18 pages, "The effect of microwave irradiation on the turnover rate of serotonin and norepinephrine in rat brain"
2550. SNYDER, S.H. (1971); Final Rept. (#2) to ARPA, from Dept. of Pharmacology, Johns Hopkins Univ., School of Med., (AD #729161), "The effect of microwave irradiation on the turnover rate of serotonin and norepinephrine and the effect on monoamine metabolizing enzymes".

1570. SOBAKIN, M. A. (1965) Digest of the 6th Internat. Conf. on Medical Electronics and Biological Engineering, (Iwai, Y., ed.) p. 654 only, "Infra-red radiations from the body surface (radio epigastrica) as an index of the state of the stomach function"
1571. SOKOLNIKOV, O. I. (1937) Tr. III Vses. Syezda fizioterap. (Trans. of the Third All-Union Conf. of Physical Therapists), Kiev, pp. 206-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, Apr. 1965), "The character of biochemical displacements in the organism under the effect of HF and UHF waves"
1572. SOKOLOV, S. D. (1967) Patologicheskaya fiziologiya i eksperimental'naya terapiya 11(3):69-70, (Abstr. in: Soviet Radiobiology, ATD 63-103-103-9, pp. 85-86, (AD 671436), "Anti-inflammatory effect of a constant magnetic field"
1573. SOKOLOV, V. V., & ARIYEVICH, M. N. (1960) Trudy Nii Gigiyena Truda i Profzaboleaniya AMN SSSR (1):43-45, (Abstr. in: "The Biological Action of UHF, (Letavet, A. A., & Gordon, Z. V., eds.), pp. 39-41, (JPRS 12471); "Changes in the blood under the influence of SHF-UHF on the organism"
1574. SOKOLOV, V. V. & CHULINA, N. A. (1964) Trudy Nii Gigiyena Truda i Profzaboleaniya AMN SSSR (2):122-125, (Abstr. in: The Biological Action of Radio Frequency Electromagnetic Fields, (Letavet, A. A., & Gordon, Z. V., eds.), JPRS 12471 (1962); (JPRS 14753); "Peripheral blood counts under the action of radio waves of various wavelengths on the organism"
1575. SOKOLOV, V. V., et al. (1962) Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, p. 48 only, "The effect of centimeter waves of varying intensity on blood"
3632. SOKOLOVA, I.P. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #64532), p. 49 only, "The effects of combined exposure to SHF electromagnetic fields and soft X-ray radiation on the peripheral blood."
1576. SOLEM, D. L., REMARK, D. G., MOORE, R. L., CRAWFORD, R. E., RECHEN, H. J. L. (1968) U. S. Dept. of Health, Education, and Welfare, Public Health Service, Environmental Control Admin., Technical Service Branch Staff Rept., TSB No. 5, "Report of preliminary measurements of electromagnetic radiation fields near microwave ovens" (Also: Non-Ionizing Rad. 1(2):88-94 (1969))
1577. SOLOV'EV, N. A. (1962) In: Proc. of the 2nd All-Union Conf. on the Use of Radioelectronics in Biology and Medicine, Moscow, pp. 29-, "Differentiation of the action of an alternating magnetic field and the emfs and currents induced by it in living organisms"
1578. SOLOV'EV, N. A. (1963) Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Meditsinskikh Instrumentov, Oborudovani, USSR, 3:120-, "Responses of the entire living organism to an electromagnetic field"
1579. SOLOV'EV, N. A. (1963) Doklady Akademii Nauk SSSR 149:438-, "Mechanism of the biological action of a pulsed electromagnetic field"
3633. SOLOV'EV, N.A. (1963), Doklady Akademii Nauk SSSR, 149(2):438-441 (Mar.), (In Russian), "On the mechanism of the biological action of a pulsed magnetic field."
1580. SOLOVTSOVA, K. M. (1965) Fiziologicheskii Zh. Akad. Nauk UKR SSSR 11(4):489-503, "Effect of electromagnetic high-frequency oscillations on the functioning of the liver in persons with a normal or moderately pathological functional state of this organ"
1581. SOMMER, H. C., & Von GIERKE, H. E. (1964) Aerospace Med. 35(9):834-839, "Hearing sensations in electric fields"
1582. SOKOKINA, YE. I. (1965) Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Sci., Physiotherapy & Medical Physical Culture) 30(1):40-45, (JPRS 29914, pp. 1-8; IT 65-30903 (1965)), "Experience in the use of microwave therapy in patients suffering from sympathetic ganglionitis and radiculitis of the thoraco-cervical segment with a cardiac pain syndrome"
3634. SOUTHERN, W.E. (1973), Northern Illinois Univ. Final Report prepared for the Office of Naval Research (31 Dec.), "Orientation behavior of ring-billed gull chicks (Larus delawarensis) exposed to Project SANGUINE's electric and magnetic fields."
1583. SOUTHWORTH, G. (1937) J. of Applied Physics 8:660-664, "New experimental methods applicable to ultrashort waves"
1584. SOWTON, E., GRAY, K., & PRESTON, T. (1970) British Heart J. 32:626-632, "Electrical interference in non-competitive pacemakers"
1585. SPALA, M. (1961) Sbornik lekarsky 63:349-370, "Dosimetry of thermogenic effects of an rf field and its tolerable dose" in the rabbit" (In Czech.)
1586. SPALA, M., RIEDEL, O., & KACL, J. (1962) Casopis Lekarů Ceských 101:791-795, (In Czech) "Effect of the rf field on the metabolism of bone tissue in the rabbit: Incorporation of osteotropic radioisotopes"
1587. SPARKS, R. A. (1961) Digest of the Internat. Conf. on Medical Electronics, Biological Effects of Microwaves I (Athermal Aspects), (Frommer, P. L., ed.) Plenum Press, New York, pp. 230-, "X-radiation hazards from high power traveling wave tubes"
1588. SPASSKIY, V. A. (1956) Voenno Meditsinskii Zh. (USSR Military Med. J.) (9):25-28, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, 1965), "The objectives of the study of work conditions and hygienic facilities for the personnel of radar stations"
1589. SPECTOR, N. (1969) Medical College of Virginia Quarterly 5(1):20-, "Thermodes and theories"
1590. SPEICHER, H. W. (1938) AMA Arch. of Industrial Health 17:546-555, "Some factors to be considered in a protection program for use of radiation sources"
1591. SPENCER, J. L., & KNAUF, G. M. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation, (Pattishall, E. G., ed.) 1:52-59, "Exposure of Air Force personnel to ionizing radiation produced by radio frequency generators - summary"

3635. SPIEGEL, R.J., & JOINES, W.T. (1973), *Bulletin of Mathematical Biology*, 35():591-605, "A semiclassical theory for nerve excitation by a low intensity electromagnetic field."
2552. SPILLER, K.H. (1950), (In Ger.), *Elektrotechnische Zeitschrift*, (Berlin), 71:27-30, (Jan. 15), "Ultra-short wave therapy with decimetre and centimetre waves".
3636. SPITTKA, O., TAEGE, M., & TEMBROCK, G. (1969), *Biol. Zbl.*, 88():273-282, (in German), "Experimental investigations on the operant drinking behavior of rats in the 50 Hz high tension alternating field."
3034. SPLITTER, S.R. (1966), *Delaware Medical J.*, 38(3):83-84, (Mar.), "New approach to the management of subacute sinusitis [using pulsed electromagnetic energy]".
3314. STAMM, M.E., WINTERS, W.D., MORTON, D.L., & WARREN, S.L. (1974), *Oncology*, 29(4):294-301, "Microwave characteristics of human tumor cells", [Microwave energy (between 76 and 86 GHz) has been used to identify differences between human tumor cells and normal cells grown in tissue culture. Unique differential transmission spectra were demonstrated when various types of cultured malignant cells were compared to their autologous counterparts].
3035. STANLEY, J.L., BENTLEY, H.W., & DENTON, M.B. (1973), Rept. No. 2 for Office of Naval Research on Contract N00014-67-A-0209-0019, Task No. NR-051-549, from Dept. of Chem., Univ. of Ariz. (Tucson), AD #759 720, (Mar.), "Radiation exposure considerations when employing microwave-excited spectroscopic sources".
3036. STAPLES, P.J., & GRINER, P.F. (1971), *New England J. of Med.*, 285(6):317-319, (Aug. 5), "Extracorporeal hemolysis of blood in a microwave blood warmer".
1592. STARIKOVA, M. N. (1959) *Sovetskaya Meditsina* (3):66-68, "The use of a new physical factor - The pulsed VHF-HF electric field in cases of acute inflammatory infiltrates and lymphadenitis"
1593. STARMER, C. F., WHALEN, R. E., & McIVTOSH, K. D. (1964) *Amer. J. of Cardiology* 14:537-546, "Hazards of electric shock in cardiology"
3037. STAVINOKA, W.B., MEDINA, M.A., & DEAN, A.P. (1973), Univ. of Texas Med. School, San Antonio, Final report under AF Contracts F41609-71-C-0035 & F410609-73-C-008, "Neurochemical alterations in specific brain areas in rodents exposed to high intensity fields".
2553. STAVINOKA, W.B., PEPELKO, B., & SMITH, P.W. (1970), *The Pharmacologist*, 12:275 only, "Microwave radiation to inactivate cholinesterase in the rat brain prior to analysis for acetylcholine".
3038. STAVINOKA, W.B., WEINTRAUB, S.T., MODAK, A.T. (1973), *J. of Neurochemistry*, 20():361-371, "The use of microwave heating to inactivate cholinesterase in the rat brain prior to analysis for acetylcholine".
3315. STEFANOV, B. (1973), *Higiena i Zdrav opazvane* (Sofia), (5):507-513, (In Bulgarian), "The biological action of super-high frequency electromagnetic waves".
3316. STEFANOV, B., ZLATAROV, I., & SOLAKOVA, S. (1973), *Higiena i Zdraveopazvane* (Sofia), (5):443-446, (In Bulgarian), "A study of the action of electromagnetic waves at various regions of the radio band on some functional indices in workers".
3637. STENZLER, M. (1975), *Electronic Engineering Times*, (Monday, Feb. 24), p. 2 only, "[Electronic cardiac] Pacemakers designed to counter [non-ionizing electromagnetic] radiation."
3317. STENZLER, M. (1975), *Electronic Engineering Times*, Mon., March 24, p. 7 only, "[Collaborative] U.S./Soviet [non-ionizing] radiation studies pending".
3638. STENZLER, M. (1975), *Electronic Engineering Times*, (Nov. 17), p. 12 only, "Americans, Soviets sign [non-ionizing] radiation pact."
1594. STEPHENS, F. H., JR. (1959) In: *Investigators' Conf. on Biological Effects of Electronic Radiating Equipments*, (Knauf, G. M., Chm.) pp. 42-45, (AD 214692), "Equipment and methods employed in the exposure of experimental animals to microwaves at 24,000 megacycles"
1595. STEPHENS, F. H., JR. (1961) *Industrial Med. & Surgery* 30:221-228, "Microwave radiation of 10 mw/cm and factors that influence biological effects at various power densities"
1596. STEPHENS, F., & LANDEBN, K. (1963) *J. of Occupational Med.* 5:418-425, "Effects on dogs of chronic exposure to microwave radiation"
1597. STEPIN, L. D. (1965) M.I.T. Press, Quantum Radio Frequency Physics
2554. STEWART, H.F., PETERSON, R.W., & VAN PELT, W.F. (1970), Southwestern Radiological Health Laboratory (Rept. #SWRHL-84), Environmental Health Services, Public Health Service, U.S. Dept. of Health, Education & Welfare, "Microwave hazard evaluation (A field survey form)".
1598. STIEBOCK, L. H. (1935) *Arch. of Physical Therapy* 16:657-661, "The fundamentals and indications of short wave therapy, fulguration and coagulation"
1599. STILLWELL, G. K. (1967) In: Vol. 4, Therapeutic Electricity and Ultraviolet Radiation, Physical Medicine Library, (Licht, S. H., ed.), Licht, E., Pub., New Haven, Conn., "Clinical electric stimulation"
1600. STOCKMAN, H. E. (1969) *Electronics* (Nov. 24), (11)0-, "Seeing in the dark is aim of r-f holography"
3039. STODOLNIK-BARANSKA, W. (1967), *Nature*, 214():102-103, (Apr.), "Lymphoblastoid transformation of lymphocytes *in vitro* after microwave irradiation".
1602. STOLWJJK, J. A. J., & HARDY, J. D. (1965) Rept. No. DASA-1566, "Skin and subcutaneous temperature changes during exposure to intense thermal radiation"
2276. STONER, E. (1951) *Arch. of Physical Medicine* 32:408-416, "The effect of microwave radiation on the peripheral pulse volume, digital skin temperature, and digital blood flow in man"

1603. STOPCZYK, M., & PIENIAK, M. (1968) Polish Arch. Med. Wewn 41:773-782, (In Polish), "Diagnosis of the cause of stimulation disorders in patients with implanted heart stimulators with constant rhythm"
1604. STOWELL, R. E., ARNOLD, E. A., GOLDBLATT, P. J., TAKASHIMA, S., TRUMP, B. F., & YOUNG, D. E. (1960) Armed Forces Institute of Pathology Annual Progress Rept, (AD 241314), (Also 1964 Progress Report), "Biological and biochemical effects of microwaves"
1605. STOWELL, R. E., ARNOLD, E. A., FAITH, G. C., GRIFFIN, J. L., & YOUNG, D. E. (1965) Armed Forces Institute of Pathology Annual Progress Rept., pp. 98-117, (AD 470416; RCS-MEDDR-288), "Biological and biochemical effects of microwaves and other physical agents"
1606. STRASSBURGER, A., & SCHLIEPKE, E. (1935) Archiv für Experimentelle Pathologie u. Pharmakol. 177:1-17, (In German) "The influence of ultrashort waves on the beat regulation of rabbits"
2555. STRAUB, K.D., KENDRICK, J.Z., & JACKSON, H. (1972), Naval Air Development Ctr., Rept. NADC-72126-CS, "Effects of low frequency electrical current on various marine animals", [The current density which produced "startle" or "avoidance" response was determined at frequencies between 10 and 7500 Hz].
1607. STRAUB, K. D., & LYNN, W. S., JR. (1963) Federation Proc. 22, Abstr. No. 2763, p. 623 only, "Effects of oxidizing and reducing agents and A-C current on frog skin potential"
2556. STRAUS, B. (1966), In: First International Symposium on Electrotherapeutic Sleep and Electroanesthesia, Graz, Austria, (12-17 Sept.), "Electrical induction of sleep II"
3318. STRELKOVA, N.I., & ZEYNALOV, R.K. (1973), Zhurnal Neuropatologii i Psikiatrii Imeni S. S. Korsakova, 73(): pp. ?, [Transl. in "Effect of nonionizing electromagnetic radiation", JPRS No. 62462, July 1974, Citation #3134, this Biblio., pp. 25-31], "The problem of correlating biochemical data to the condition of the neuromuscular apparatus of Parkinsonism patients subjected to decimeter wave therapy"
3639. STRUMZA, M.V. (1970), Archives des Maladies Professionnelles de Medecine du Travail et de Securite Sociale (Paris), 1.31(6):269-276, (in French), "Influence on the human health of close electric conductors at high tension: Medical inquiry result."
3040. STUCHLY, S.S. (1973), The J. of Microwave Power, 8(3/4):211 only, "Editorial: Instrumentation & measurement".
2277. STURMTER, H., & THOM, E. (1955) Ber. dtsh. Ophthal. Ges. 50:361-363, (In Ger.), (Abstr. in: Zentralbl. f. d. res. Ophth. 63(4):353-359 (Oct 1955)), "Eye alterations in rabbits due to microwaves and eddy currents"
(USSR Military Medical J.)
1608. STYKAN, O. A. (1967) Voenno Meditsinskiy Zh./ (7):36-38, (AD Abstr. 8(6/51)), "Problem of radiation-genetic effects of the electronic-vacuum apparatus in radar stations"
1609. SUBBOTA, A. G. (1957) Trudy Voenno Meditsinskii Akademii i Kirov, USSR, 73:35-37 (Abstr. from Zh. Biol. No. 46203, 1959), "The effect of SHF-UHF electromagnetic fields upon the higher nervous activity of dogs"; *ibid.*, pp. 78-83, (Abstr. from Zh. Biol. No. 59927, 1959), "Changes in respiration, pulse rate and general blood pressure during irradiation of animals with SHF-UHF *ibid.*, pp. 111-115, (Abstr. from Zh. Biol. No. 59926, 1959), "The effect of a SHF-UHF field on heart function and the lumen of vessels"; *ibid.*, pp. 127-132, (Abstr. from Zh. Biol. No. 59922, 1959), "Effect on the blood of animals of exposure to a strong SHF-UHF field"; *ibid.*, pp. 165-, "Some tissue reactions due to local exposure to a SHF field"
1610. SUBBOTA, A. G. (1958) Bulletin Eksperimental'noi Biologii i Meditsiny 46(10):55-61, "The effect of pulsed SHF-UHF electromagnetic fields on the higher nervous activity of dogs"
1611. SUBBOTA, A. G. (1959) In: Summaries of reports. Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, (Title not given)
1612. SUBBOTA, A. G. (1962) In: Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 49-51, "Some problems of adjustment and accumulation under multiple exposures to microwaves"
1613. SUBBOTA, A. G., & GREBESHCHENIKOVA, A. M. (1967) In: Medical and Biological Problems of SHF Radiation. (Petrov, I. R., ed.) (Title not given)
3640. SUGARMAN, R. (1976), Electronic Engineering Times, (Monday, Apr. 26), p. 10 only, "NY state . . . investigates biological effects of 765 kv lines." [Part of a "series of articles concerning the interaction of man, electronics, and the environment."]
2557. SUKHAYEV, G.V. (1971), Voenno Meditsinskiy Zhurnal, (4):pps ?, "Assessment of injuries caused by SHF fields".
3641. SUNDERMANN, H. (1954), Archiv für Meteorologie, Geophysik und Bioklimatologie (Ser. B), 5():258-282, (in German), "On the possibility of biotropism in atmospheric electrical phenomena."
3642. SUNDERMAN, R., & FAHIDY, T.Z. (1976), J. of Applied Electrochemistry, 6(1):89-92, (Technical Note), "On the generation of electrolyte flow by alternating electric and magnetic fields."
1614. SUPONITSKAYA, F. M. (1933) Byull. Tsentr. Nii Fiz. Metodov Lecheniya Im Sechenov (6-7):244-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, AD Rept. P-65-17, 1965), (Title not given)
1615. SUROVIEC, H. J. (1967) Arch. of Environmental Health 14:469-472, (Also in Senate Hearings, pp. 1359-1362), "Microwave oven radiation hazards in food vending establishments"
1616. SUSSKIND, C. (1958) Annual Scientific Rept. (1957-1958); (RADC TR-59-298; AD 226735) Institute of Engineering Research, Univ. of Calif. (Berkeley), Ser. No. 50, No. 205, "Biological effects of microwave radiation"
1617. SUSSKIND, C. (1959) Annual Scientific Rept. (1958-1959); (RADC TR-59-181; AD 227847), 45 pages, Inst. of Engineering Research, Univ. of Calif. (Berkeley), Ser. No. 60, No. 241, "Cellular and longevity effects of microwave radiation"

1618. SUSSKIND, C. (1959) In: Investigators' Conf. on Biological Effects of Electronic Radiating Equipments (Knauf, G. M., Chn.) (RADC TR-59-67, p. 18 only; AD 214693), "Summary of the microwave research performed at the Univ. of Calif."
1619. SUSSKIND, C., (ed.) (1959); (RADC TR-59-140, Univ. of Calif., Berkeley, AD 234788) 335 pages, "Proc. of 3rd Annual Tri-service Conf. on Biological Effects of Microwave Radiating Equipments"
1620. SUSSKIND, C., et al. (1960) Institute of Engineering Research, Univ. of Calif., Berkeley, Series No. 60, No. 285, (RADC TR-60-122; AD 245534) 39 pages, "Microwave radiation as biological hazard and tool"
1621. SUSSKIND, C. (& Staff) (1961) Annual Scientific Rept. (1960-1961); (RADC-TR-61-205; AD 269385), Inst. of Engineering Research, Univ. of Calif., Berkeley, Series No. 60, No. 382, 28 pages, "Longevity study of the effects of 3-cm microwave radiation on mice"
1622. SUSSKIND, C., (& Staff) (1962); (RADC-TR-62-624) Univ. of Calif., Berkeley, Series No. 60, No. 489, "Nonthermal effect of microwave radiation"
1623. SUSSKIND, C., & PRAUSNITZ, S. (1959) Proc. of the 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments, (Susskind, C., ed.) 3:33-, (RADC-TR-59-140), "Temperature regulation in laboratory animals irradiated with 3-cm microwaves"
1624. SUSSKIND, C., & VOGELHUT, P. O. (1959) Proc. of the 3rd Tri-service Conf. on the Biological Effects of Microwave Radiating Equipments, (Susskind, C., ed.) 3:46-53, "Analytical and experimental investigation of unicellular organisms with 3-cm microwaves"
1625. SUSSKIND, C., & VOGELHUT, P. O. (1959) Digest of Technical Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology (Schwan, H. P., Chn.), p. 53 only, "Analytical and experimental investigation of unicellular organisms under microwave irradiation"
1626. SUSSKIND, C., & VOGELHUT, P. O. (1961) Presented at the Conf. on Microwave Measurement Techniques held by the Inst. of Electrical Engineers in London, Sept., (Institute of Engineering Research, Univ. of Calif., Berkeley, Series No. 60, No. 489, 1962, p. 19-); (Also in: Proc. of the Institute of Electrical Engineers 109B, Suppl. 23:668-669, and 682-685 (1961)), "Cavity perturbation measurement of the effects of microwave radiation on proteins"
1627. SUSSKIND, C., & VOGELHUT, P. O. (1963) Annual Scientific Rept. No. 63-27 (1962-1963) Univ. of Calif., Berkeley, (AD 433659) "Biological uses of non-ionizing radiation"
3643. SUTTON, C.H. (1974), *Cryobiology*, 11(6):584- , "Alterations in blood flow in glial tumors produced by microwave heating and temperature gradients."
3041. SUTTON, C.H., NUNNALLY, R.L., & CARROLL, F.B. (1973), *Cryobiology*, 10(6):513-514, "Protection of microwave-irradiated brain with body-core hypothermia".
3319. SUTTON, C.H., NUNNALLY, R.L., CARROLL, F.B., & KUBAN, K. (1974), *Federation Proceedings, Fed. of Amer. Soc. of Experimental Biol.*, 33(3):621- , "Increased blood flow in glial tumors produced by microwave heating".
1628. SUVOROVSKAYA, N. A. (1961) *Patologicheskais Piziologii i Eksperimental'nais Terapiis* 5(1):38-40, (JPRS 9314), "Investigation of the effect of electromagnetic energy of centimeter waves on hemopoiesis pathology"
1629. SVETLOVA, Z. P. (1962) In: *Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad*, pp. 43-44, "Changes in the symmetrical conditioned and unconditioned reflex times in dogs under the influence of a SHF-UHF field in the decimeter range"
1630. SWANSON, J. R., ROSE, V. E., & POWER, C. H. (1970) Paper presented at 4th Annual Midyear Topical Symposium, Health Physics Soc., *Electronic Product Radiation and the Health Physicist*, Louisville, Ky., 28-30 Jan.; Bureau of Radiation Health, Div. of Electronic Products Rept. No. 70-26, pp. 95-110, (Also: *Amer. Industrial Hygiene Assoc. J.* 31:623-629, (1970)), "A review of international microwave exposure guides"
2279. SWICORD, M.L. (1971), *USDHEW/PHS, Bur. of Rad. Health (Pub. No. BRH/DEP 71-1)*, 33 pages, (PB #197-715), "Microwave measurements and new types of detectors for evaluation of health hazards."
1631. SYCH, G. YA. (1940) *Dnepropetrovsk. Universitet. Institut fiziologii. Sbornik rabot*, 3:103-, (Abstr. in: *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, ATD Rept. P-65-17, 1965), [Title not given - Discusses alteration of reflex times in frogs exposed to ultrahigh frequency electromagnetic fields]
1632. SYNGAYEVSKAYA, V. A. (1962) In: *Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad*, pp. 52-53, "Some metabolic indices in the blood and urine of individuals following their exposure to SHF-UHF electromagnetic fields"
1633. SYNGAYEVSKAYA, V. A., & IGNATYEVA, O. S. (1962) In: *Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad*, p. 52 only, [Title not given]
1634. SYNGAYEVSKAYA, V. A., IGNATYEVA, O. S., & PLESKENA-SINENKO, G. F. (1962) In: *Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad* [Title not given]
1635. SYNGAYEVSKAYA, V. A. & PLESKENA-SINENKO, G. F. (1959) In: *Summaries of reports. Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow* [Title not given]
1636. SYNGAYEVSKAYA, V. A., PLESKENA-SINENKO, G. F., & IGNATYEVA, O. S. (1962) In: *Summaries of reports. Questions of the Biological Effect of SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad*, pp. 51-52, "The effect of microwave radiation in the meter and decimeter waveranges on the endocrine regulation of carbohydrate metabolism and the functional state of adrenal cortex in rabbits and dogs"

1637. SZACHNOWICZ, L. A. (1967) *Pediatrics Polska* 42:679-684, "Use of physical therapy in sequelae and late complications of infectious hepatitis (Botkin's Disease) in children"
1638. SZCZUREK, M. (1963) *Przegląd Wojskowych*, Warsaw, (3):5-15, "Effect of microwaves on living organisms"
3644. SZENT-GYÖRGI, A. (), *Life Sciences*, 15(5):863-875, "Electronic biology and its relation to cancer."
3042. SZMIGIELSKI, S. (1968), *Med. Lot.*, 28():89-?, (In Pol.), "Effect of chronic microwave irradiation on granulopoiesis"
3645. SZMIGIELSKI, S. (1975), *Annals of the New York Academy of Sciences*, 247:275-281, "Effect of 10 cm, 3 GHz electromagnetic radiation (microwaves) on granulocytes *in vitro*." [Liberation of lysosomal enzymes after irradiation at 5 mW/cm².] (Cited also in #3117, this Biblio.)
3646. SZMIGIELSKI, S., & BIELEC, M. (1976), *Proceedings of the International Symposium on Cancer Treatment by Hyperthermia*, Washington, DC, 28-30 April 1975 (Radiology, Supplement, in press), "Microwaves as a tool for cancer treatment by hyperthermia." [Cellular effects of subthermal power densities of microwaves; use of thermography for quantitation of microwave energy absorbed in irradiated animals.]
3647. SZMIGIELSKI, S., & BIELEC, M. (1976), *Post. Hig. Med. Dosw.* (in Polish) (in press), (): , "Hyperthermia in therapy of malignant neoplasms." [Use of microwaves for intensive (42-44°C) local hyperthermia in cancer treatment: A review.]
3648. SZMIGIELSKI, S., BIELEC, M., & JANIĄK, M. (1976), *Cancer Letters* (in press), (): , "Effect of microwave hyperthermia combined with interferon and/or Poly I - Poly C on development of Sarcoma 180 in mice." [General microwave hyperthermia (2 hrs. daily) combined with interferon and interferon-inducers leads to inhibition of tumour growth in 75% of animals.]
3649. SZMIGIELSKI, S., JANIĄK, M., & BIELEC, M. (1976), *Exp. Pathologie* (in press), "Nucleic acid synthesis and cyclic AMP levels in WISH cell cultures irradiated with 3 GHz microwaves." [Temporary inhibition of ³H-thymidine and ³H-uridine incorporation after irradiation at 20 mW/cm².]
3650. SZMIGIELSKI, S., JANIĄK, M., & KOBUS, M. (1976), *Exp. Pathologie* (in press), (): , "Effect of microwave radiation on cells treated with membrane-injuring agents." [Substances injuring cell membranes—digitonine and purified bacterial phospholipases—enhance sensitivity of cell cultures to subthermal power densities of 3 GHz microwaves.]
3651. SZMIGIELSKI, S., JELJASZEWICZ, J., & WIRANOWSKA, M. (1975), *Annals of the New York Academy of Sciences*, 247:305-311, "Acute staphylococcal infections in rabbits irradiated with 3 GHz microwaves." [Weak reaction of granulopoiesis to experimental staphylococcal infections in rabbits irradiated over 3 months at 3 mW/cm², 6 hrs. daily.]
3652. SZMIGIELSKI, S., & LUCZAK, M. (1975), *Physics in Med. & Biol.*, 20(5): , "Autoradiographic analysis of protein synthesis and measurements of nuclear volume in WISH cell cultures irradiated with 3 GHz electromagnetic radiation." [Temporary stimulation of protein synthesis after irradiation at 5 mW/cm² and inhibition after 20 mW/cm².]
3653. SZMIGIELSKI, S., LUCZAK, M., & WIRANOWSKA, M. (1975), *Annals of the New York Academy of Sciences*, 247:263-274, "Effect of microwaves on cell function and virus replication in cell cultures irradiated *in vitro*." [Temporary stimulation of cell function after irradiation with 3 GHz microwaves at 5 mW/cm², and inhibition of growth rate after 20 mW/cm².]
3654. SZMIGIELSKI, S., LUCZAK, M., & WIRANOWSKA, M. (1975), *Folia histochem. cytochem.*, 14(3/4): , "Karyometric observations of cell cultures irradiated with 3 GHz microwaves." [Changes in nuclear and nucleolar volume after irradiation at 5 or 20 mW/cm² over 30 min.]
1639. SZYMAHOWSKI, W. T., & HICKS, R. A. (1932) *J. of Infectious Diseases* 50(1):1-25, (Title?)
1640. TACCARI, E., CRESPI, M., & DDAINOTTO, F. (1967), *Ressegna di medicina sperimentale*, 14(4):158-167, (In Ital.), "Experimental contribution to the study of the effects of microwaves on the mesenteric mast cells of the albino rat."
3655. TAFLOVE, A., & BRODWIN, M.E. (1975), *IEEE Transactions on Microwave Theory and Techniques*, MTT-23(11):888-896 (Nov.), "Computation of the electromagnetic fields and induced temperatures within a model of the microwave-irradiated human eye."
2558. TAJCHERT, J., & CHMURKO, E. (1972), *Klin. Oczna* (Eye Clinic), 42(4):979-983, (In Pol. with Eng. summary), "Investigation of the cataractogenic influence of microwaves of 10 cm wavelength".
2095. TAKAHASHI, K., VASISHTH, R. C., & COTE, W. A. (1969) *J. Microwave Power* 4:64-67, (Abstr. in: *Non-ionizing Rad.* 1(3):151 only, (1969), Abstract #69), "Uniform polymer distribution in paper saturated with polymer solutions via microwave power"
1641. TAKASHIMA, S. (1966) *IEEE Trans. on Bio-Medical Engineering*, BME-13(1):28-31, "Studies on the effect of radio-frequency waves on biological macromolecules"
1642. TAKATA, H., & MURASUGI, T. (1941) *Bioklimatische Beiblätter* 8:17-26, "Disturbance of the flocculation index in healthy human blood serum: Cosmo-terrestrial sympathy"
1643. TALLARICO, R. B., & KETCHUM, J. (1959) *Annual Report to Air Force of Microwave Radiation Research at the Univ. of Miami*, (AD 232925), pp. 57-78, "Effects of exposure to microwave and infrared energy upon behavior of rats"
1644. TALLARICO, R. B., & KETCHUM, J. (1959) *Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments*, (Suskind, C., ed.) 3, pp. 7 "Effect of microwaves on certain behavior patterns of the rat"
1645. TALLMAN, O. G. (1961) *Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation*, Vol. 1, (Peyton, H. F., ed.), pp. 3-8, "Radio frequency environment"
1646. TANNER, J. A. (1966) *Nature* 210:636 only, (May 7), "Effect of microwave radiation on birds"

1647. TANNER, J. A., & ROMERO-SIERRA, C. (1963) 2nd Canadian Medicine and Biology in Engineering Conf., Toronto, (9-10 Sept.) "Microwaves vs. birds: A new approach to the bird problem in aviation"
1648. TANNER, J. A., & ROMERO-SIERRA, C. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Medical College of Va., Richmond, Va., 17-19 Sept.; (Bureau of Radiological Health/Division of Biological Effects, Rept. No. 70-2, pp. 185-187), "Bird feathers as sensory detectors of microwave fields"
3043. TANNER, J.A., & ROMERO-SIERRA, C. (1971), Quarterly Bulletin of the Division of Mechanical Engineering, Nat'l Res. Council of Canada, Rept. No. DME/NAE 1971(4):37-45, "Non-ionizing electromagnetic radiation and pollution of the atmosphere".
1649. TANNER, J. A., ROMERO-SIERRA, C., & DAVIE, S. J. (1967) Nature 216:1139 only, (16 Dec.), "Non-thermal effects of microwave radiation on birds"
1650. TANNER, J. A., ROMERO-SIERRA, C., & DAVIE, S. J. (1969) J. of Microwave Power 4(2):122-128, "The effects of microwaves on birds: preliminary experiments"
1651. TANNER, J. A., ROMERO-SIERRA, C., & VILLA, F. (1969) Proc. of 8th Internat. Conf. on Medicine and Biology in Engineering; and 22nd Annual Conf. on Engineering in Medicine and Biology, held in Chicago, Ill., 21 July, "Changes of muscle action in birds exposed to a microwave field"
2559. TANSY, M.F., KENDALL, F.M., CHRYSANOWSKI, J., HOHENLEITNER, F.J., & KALL, A.R. (1971), Experientia, 27(12):1431-1432, (In Engl.), "Gastrointestinal motor activity following exposure to a high-frequency electric field"
2280. TAPPE, R. L. (1969) Pacific Missile Range (Pt. Muro, Calif.), Rept. PNT-TM-69-8(1), "A study of personnel radiation hazards created by selected high-power radar sets"
1652. TARGHEVSKIY, I. A. (1964) In: Proc. of Concluding Scientific Conf. of Kazan State University, Kazan, pp. 30-, "Change in photosynthetic carbon metabolism as a nonspecific response to the action of electromagnetic factors"
1653. TARJAN, P. P., & MURPHY, W. P., JR. (1970) J. Amer. Medical Assoc. 214(7):1328 only, "Cardiac pacemakers and microwave ovens"
1654. TARLOSOV, B. N. (1938) Arkhiv Biologicheskikh Nauk Moscow (Archives des Sciences Biologique) (2):pp.? (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17, Apr. 1965), "Electroconductivity as a method of determining the viability of tissues"
1655. TATAJINOV, V. V., & FRENKEL', G. L. (1939) Medgiz, Leningrad, An Introduction to the Study of Ultrahigh Frequency Biological Effects
1656. TAUSSIG, H. S. (1969) Amer. Scientist 57(3):306-316, "Death from lightning and the possibility of living again"
3044. TAYLOR, E.M., & ASHLEMAN, B.T. (1974), Brain Research, 74(2):201-208, "Analysis of central nervous system involvement in the microwave auditory effect."
3045. TAYLOR, E.M., GUY, A.W., ASHLEMAN, B., & LIN, J.C. (1973), Presented at the IEEE-GMTT Internat. Microwave Symposium, (MALEY, S.W. (ed.)), Univ. of Colorado, Boulder, June 4-6, "Microwave effects on central nervous system attributed to thermal factors", (Inadvertently omitted from the listing of technical meetings, Citation #2636, this Biblio.).
1657. TAYLOR, F. J. D., FLOYD, C. F., & RAWLINSOW, W. A. (1960) Proc. of the Internat. Conf. on Medical Electronics and Biological Engineering, 3:393-398, "Some aspects of the measurement of potentially hazardous electromagnetic fields"
3320. TAYLOR, J.R. (1970), U.S. Army Environmental Hygiene Agency (Edgewood Arsenal, MD) report (AD #748106), "Hazards from microwave ovens and inspection guidelines".
3321. TAYLOR, J.R. (1971), U.S. Army Environmental Hygiene Agency (Edgewood Arsenal, MD) report (AD #902853L), "Radiation protection special study No. 42-053-71, Microwave oven instrumental, Narda Model 8200 [radiation monitor]".
2560. TAYLOR, L.S. (1972), U.S. Medicine, pp. 28-29 (Sept.1), "Current standards seem adequate as protection against [ionizing] radiation".
1658. TEIXEIRA-PINTO, A. A., CUTLER, J. L., & HELLER, J. H. (1959) Investigators Conf. on Biological Effects of Electronic Radiating Equipments, held at Patrick AFB, Fla. 14-15 Jan. (Knauf, G. M. Chm.) RADC-TR-59-67, pp. 31-32, (AD 214693), "Review of work accomplished at the New England Institute for Medical Research"
1659. TEIXEIRA-PINTO, A. A., NEJELSKI, L. L., CUTLER, J. L., & HELLER, J. H. (1960) Experimental Cell Research 20:548-564, "The behavior of unicellular organisms in an electromagnetic field"
3130. TEIXEIRA-PINTO, A.A., NEJELSKI, L.L., Jr., CUTLER, J.L., & HELLER, J.H. (1960), Experimental Cell Research, 20():548-564, "The behavior of unicellular organisms in an electromagnetic field." [at RF]
2281. TELL, R.A. (1971) In: Radiation Bio-Effects Summary Report, Hodge, D. W., (ed.), for Jan-Dec 1970, Div. of Biological Effects, Div. of Health, NRC, Rept. No. BEH/DB 71-7, pp. 35-77, "Radio frequency and microwave energy absorption in tissue"; and (with FIDM, J. D.), pp. 75-80, "Heating with diathermy"
3046. TELL, R.A. (1971), IEEE Spectrum, ___(): ? , "Environmental radiation exposure from radio and television broadcasting: A human hazard?"
2561. TELL, R.A. (1972), IEEE Spectrum, 9(8):43-51, "Broadcast radiation: How safe is safe?"
2562. TELL, R.A. (1972), Rept., Environmental Protection Agency, Office of Radiation Programs, No. ORP/SID 72-3, 28 pps., "Reference data for radiofrequency emission hazard analysis".
2563. TELL, R.A. (1972), Environmental Protection Agency, Technical Report PB #208-233, 53 pps., "Microwave energy absorption in tissue."
3047. TELL, R.A., & KINN, J.B. (1971), J. of Oral Surg., ___(): ? , "Ocular heating during dental diathermy".

3048. TELL, R.A., & NELSON, J.C. (1974), Radiation Data and Reports, 15(4):161-179, (Apr.), "Microwave hazard measurements near various [commercial] aircraft radars".
3049. TELL, R.A., & NELSON, J.C. (1974), Electromagnetic Radiation Analysis Branch, Office of Radiation Programs, Environmental Protection Agency, Rept. No. EPA-520/1-74-005, (May), "RF pulse spectral measurements in the vicinity of several air traffic control radars".
3050. TENGROTH, B. (1973), Lakartidningen (Stockholm), 70(23):2314-2317, (In Swedish), "Non-ionizing radiation", [general and medical aspects of potential skin and eye hazards].
1660. TEPLYAKOVA, N. L. (1965) Trans. of the Science Conf., Central Science Laboratory, Tomsk, (2):363-364, "Clinical and morphological changes in the visual organ in guinea pigs under short term exposure to alternating and constant magnetic fields"
1661. TEREENT'YEVA, YE. V. (1945) Nauchno-issledovatel'skiye ratoty biologicheskikh nauk za 1945 g. Referaty. (Research of the division of biological sciences for 1945. Abstracts), (Izd-vo AN SSSR pp. 347- (1947), (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, 1965), [Title not given; Discusses exposure of the head of dogs to EMF fields (50 MHz) at thermal levels. Changes in conditioned reflex feeding effects were observed]
3322. TERNI, M., & LOMBARDINI, P. (1951), Bollettino dell'Istituto Sieroterapico, 30():134-150, (In Ital. w/Engl. summary) "The action of microwaves on bacteria: (of wavelength 3, 10, 142 cm., on *E. coli*)", [anti-bacterial effect decreased with increasing wavelength; thermal action].
1662. TERZIE, M., & LOMBARDINI, P. (1951) Bollettino Dell'Istituto Sieroterapico Milanese, Italy, 30:134-150, "Effect of microwaves on bacteria: electromagnetic waves of 3, 10, and 142 cm. wavelength on *Escherichia coli*"
2096. TERRILL, J. G. (1970) Archives of Environmental Health 19:265-271, (Abstr. in: Non-ionizing Rad. 1(4):193 only, (1970)), "Microwaves, lasers and X-rays -- adverse reactions due to occupational exposures"
1663. THERIOT, F. P. (1953) Military Medicine 113:334-344, (1953-1960), "The effect of electromagnetic radiation on tissue"
1663. THERIOT, F. P. (1953) Unpublished summary of the "Conference on the Biological Effects of Microwaves" held at the Naval Medical Research Institute, Bethesda, Md., 29 April
3051. THIMIJAN, R.W., PICKENS, L.G., & MORGAN, N.D. (1973), J. of Economic Entomology, 66(6):1269-1270, "Responses of house fly, stable fly, and face fly to electromagnetic radiant energy".
3052. THOMAS, A.M. (1952), British Electrical and Allied Industries Research Assoc. Tech. Rept. W/T23, (Thorncroft Manor, Dorking Road, Leatherhead, Surrey, UK), "Pest control by high-frequency electric fields: Critical resume".
2071. THOMAS, A., COUGET, P., & PAREILLEUX, A. (1970), French Patent No. 2,036,491, (No. 69.07475), "Procedure and techniques for destruction of micro-organisms in aqueous medium" [using low frequency (45 to 5000 Hz) alternating electromagnetic currents]
1664. THOMAS, J. A., & THOMSON, J. D. (1951) Federation Proceedings 20(1):401-, (Also, Dissertations Abstr. 22(5):1696 (1961)) "The effect of microwave irradiation on spermatogenesis and on accessory sex organs in the male Albino rat"
2564. THOMAS, P.G. (1972), FDA Papers (Food and Drug Administration), 6(4):14-17 (May), "Microwave ovens: Are they safe?"
3656. THOMPSON, J., (1974), Optical Measurements of High Electric Magnetic Fields, Ph.D. Dissertation, Texas Tech. Univ. (May), (University Microfilms, No. 74-23,069, Ann Arbor, Mich.). [Theoretical discussion and laboratory studies on the Kerr and Faraday effects.]
1665. THOMPSON, R. L. (1970) Presented at 4th Annual Midyear Topical Symposium, Health Physics Soc., Electronic Product Radiation and the Health Physicist, Louisville, Ky., 28-30 Jan., Bureau of Radiation Health, Div. of Electronic Products Rept. No. 70-26, pp. 463-464, "Microwave hazards surveillance and control"
1666. THOMPSON, W. D., & BOURGEOIS, A. E. (1965) Primate Behavior Lab., Aeromedical Research Lab. Report, (Wright-Patterson AFB, Ohio), (ARL-TR-65-20; AD 489245; 77 pages, "Effects of microwave exposure on behavior and related phenomena" [i.e., physiological processes] & X67-11057)
2283. THOMPSON, W. D., & BOURGEOIS, A. F. (1971) In: Pharmacological and Biophysical Agents and Behavior, Furchtrott, E., (ed.), Academic Press, N. Y., pp. 65-98, "Non-ionizing radiations"
3323. THOMSON, E. (1921), Nature, 107(2695):520-522, (June 23), "A novel magneto-optical effect", [early observations on a 'pearl chain effect' in a magnetic field].
1667. THOMSON, P. (1910) Proceedings, Royal Soc. (London) 82:396-, "A physiological effect of an alternating magnetic field"
1668. THOMSON, R. A. E., MICHAELSON, S. M., & HOWLAND, J. W. (1960) Federation Proceedings 19(1):71-, "Leucocyte changes in normal dogs exposed to microwaves"
1669. THOMSON, R. A. E., MICHAELSON, S. M., & HOWLAND, J. W. (1963) Report, 10 pages, (RADC-TDR-63-352, AD 424411), "Microwave modification of x-ray lethality in mice"
1670. THOMSON, R. A. E., MICHAELSON, S. M., & HOWLAND, J. W. (1965) Radiation Research 24:631-635, "Modification of x-irradiation lethality in mice by microwaves (Radar)"
1671. THOMSON, R. A. E., MICHAELSON, S. M., & HOWLAND, J. W. (1966) Blood 28(2):157-162, "Leukocyte response following simultaneous ionizing and microwave (Radar) irradiation"
1672. THOMSON, R. A. E., MICHAELSON, S. M., & HOWLAND, J. W. (1967) Aerospace Medicine 38(3):252-255, "Microwave radiation and its effect on response to x-radiation"
1673. THORPE, H. (1952) Trans. of the American Academy of Ophthalmology 56:596-599, "Microwave diathermy in ophthalmology. The various diathermy currents used in ophthalmology"

1674. TIAGIN, S. V. (1958) *Bulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 46(8):963-966, "The thermal effects of UHF electromagnetic fields" (A duplicate of TIAGIN (1958) 91718)
2284. TIKHONOV, F. D. (1970) *Voenno-Meditsinskii Zhurnal* 44-46, (In Russ.), (Abstr. #A71-21955), "Functional disturbances of the gastrointestinal tract in [human] subjects working in a microwave field"
2565. TIKHONOV, F.D. (1970), *Voyenno Meditsinskiy Zhurnal*, (12): , (Transl. No. J-9780 for Army Intelligence, pp. 61-62), "Functional disturbances in the GI tracts of people working in an SHF field".
1675. TIKHONOVA, M. A. (1948) *Problems of Experimental Physiotherapy, Collection, Tashkent*, pp. 113-119, "The problem of the action of an electromagnetic (UHF) field on the growth of young animals"
3324. TIKHONCHUK, V.S. (1974), *Kosmicheskiye Issledovaniya*, 12(3):478-482, (In Russ.), (Transl. in JPRS No. 62942, September 12, 1974, pp. 23-30), "The effects [on mice] of combined SHF [electromagnetic radiation] and gamma irradiation on hemopoiesis".
3657. TIKHONCHUK, V.S. (1975), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #64532), pp. 66-72, "The effects of combined SHF and gamma irradiation on hemopoiesis."
3325. TIMESKOVA, G.F. (1966), *Trudy VMA im S. M. Kirova*, 166():100- , "Influence of microwave radiation on the human and animal organism".
3053. TINGA, W.R., & NELSON, S.O. (1973), *J. of Microwave Power*, 8(1):23- ? , "Dielectric properties of materials for microwave processing — tabulated", [including biological materials].
3054. TINNEY, C.E., LORDS, J.L., & DURNEY, C.H. (1974), (In Press), "Rate effects in isolated turtle hearts induced by microwave irradiation".
3658. TINNEY, C.E., LORDS, J.L., & DURNEY, C.H. (1976), *IEEE Transactions on Microwave Theory & Techniques*, MTT-24(1):18-24 (Jan.), "Rate effects in isolated turtle hearts induced by microwave irradiation."
2566. TITAYEVA, M.A., & LEYZEROVICH, E.A. (1966), In: *Electrosleep and Electroanesthesia*. Materials of the All-Union Symposium on Problems of Electroanesthesia [Electronarcosis], Dedicated to the 20th Year of Electroanesthesia Method, pp. 30-31 (In Russ.), Moscow, (13-15 Oct.), "The problem of changes in the EEG frequency spectrum during various currents/frequencies used in electroanesthesia".
2567. TITAYEVA, M.A., & NAROKKOVA, L.N. (1966), In: *Electrosleep and Electroanesthesia*. Materials of the All-Union Symposium on Problems of Electroanesthesia [Electronarcosis], Dedicated to the 20th Year of the Electroanesthesia Method, pp. 28-30, (In Russ.), Moscow, (13-15 Oct.), "The problem of the mechanism of action of a pulsed electroanesthesia current".
1676. TITEL, J. H., & EL-ETR, A. A. (1968) *Anesthesiology* 29:845-846, "Fibrillation resulting from pacemaker electrodes and electrocautery during surgery"
1677. TRACHENKO, YE. G., & PALALKA, Y. S. (1965) *Trans. of Science Conf., Central Science Lab. Tomsk*, pp. 338-341, "Changes in the reactivity of leukocytes in the peripheral blood of Albino mice simultaneously vaccinated against anthrax under the action of an alternating electromagnetic field"
1678. TRAN, V. K., & PRILUCHIHI, I. I. (1953) *Inst. Biofiz. Akad. Nauk SSSR Sci. Session Celebrating Achievements of Soviet Biophysics in Agriculture*, pp. 61-, "Peculiarities of the kinetics of electrical properties of the blood under the action of UHF, infrared rays, and high frequency fields on the organism"
3326. TO, E.C., MUDGETT, R.E., WANG, D.I.C., GOLDBLITH, S.A., & DECAREAU, R.V. (1974), *J. of Microwave Power*, 9(4):303-315, "Dielectric properties of food materials", [at frequencies of 300, 915, and 2450 MHz].
3055. TODOROV, N., & DRAGANOV, V. (1973), *Patol. Fiziol. Eksp. Ter.*, 17(1):53-54, "Effect of a pulsed UHF electromagnetic field on the serum cholesterol content in rabbits".
1679. TOLGSKAYA, M. S. (1957) *Bulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* 43(1):104-107, "Changes in the synaptic formations during intoxication with occupational poisons"
1680. TOLGSKAYA, M. S. (1959) *Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Sci., Physiotherapy, & Medical Physical Culture)* (1):21-24, (Abstr. in: *Biological Effects of Microwaves: Compilation of Abstracts*, Sept. 1965, pp. 28-29; AD-P-65-65), "Morphological changes in animals exposed to 10 cm microwaves"
1651. TOLGSKAYA, M. S., & FUKALOVA, P. P. (1963) *Gigiyena Truda i Professional'nye Zaboлевaniya (Moskva)* (9):37-40, "Morphological changes in experimental animals under the action of electromagnetic fields in the HF and VHF ranges"
1682. TOLGSKAYA, M. S., & GORDON, Z. V. (1959) In: *Summaries of reports. Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves*. Moscow, pp. 55-, [Title not given].
1683. TOLGSKAYA, M. S., & GORDON, Z. V. (1960) *Trudy Nil Gigiyena Truda i Profzabolevaniya AMN SSSR* (1):99-103, (In Russian); (In: *The Biological Action of UHF*, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow, Academy of Medical Sciences USSR, 1960, pp. 104-103 (OTS 62-19175-R; JPRS 12471); (Abstr. in: *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, 1965); (Also, Abstr. in: *Biological Effects of Microwaves: Compilation of Abstracts, Effect of UHF on receptor and inter-receptor mechanisms*, Sept. 1965, pp. 37-38; AD-P-65-65), "Changes in the receptor and inter-receptor apparatus under the influence of SHF-UHF radiation"
1684. TOLGSKAYA, M. S., & GORDON, Z. V. (1964) *Trudy Nil Gigiyena Truda i Profzabolevaniya AMN SSR* (2):80-88, (Biological Effects of Radio Frequency Electromagnetic Fields, Inst. of Industrial Hygiene & Occupational Diseases, Acad. of Med. Sciences, Moscow), "Comparative morphological characteristics of the effect of microwaves of various wavelengths"
2285. TOLGSKAYA, M. S., & GORDON, Z. V. (1971) *Meditsina* Pub. House, Moscow, 135 pages, (In Russ.), Morphophysiological Changes During the Action of Radio-Frequency Electromagnetic Waves
2568. TOLGSKAYA M.S., & GORDON, Z.V. (1973), *Pathological Effects of Radio Waves*, (Transl. from Russ. (see Citation #2285, this Biblio.) by HAIGH, B., Consultants Bureau, 146 pps.).

1685. TOLGSKAYA, M. S., GORDON, Z. V., & LOBANOVA, YE. A. (1957) In: Summaries of reports, Part 2. Jubilee Scientific Session of the Institute of Labor Hygiene & Occupational Diseases Dedicated to the 40th Anniv. of the Great October Socialistic Revolution, Moscow, [Title not given]
1686. TOLGSKAYA, M. S., GORDON, Z. V., & LOBANOVA, YE. A. (1959) Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Sci., Physiotherapy, & Medical Physical Culture) (1):21-24, (Abstr. in: Biological Effects of Microwaves: Compilation of Abstracts (1965), ATD-P-65-68), "Morphological changes in experimental animals under the action of ten centimeter electromagnetic waves"
1687. TOLGSKAYA, M. S., GORDON, Z. V., & LOBANOVA, YE. A. (1960) In: Physical Factors of the Environment, Letavet, A. A. (ed.) [Title not given]
1688. TOLGSKAYA, M. S., GORDON, Z. V., & LOBANOVA, YE. A. (1960) Trudy Nii Gigiyena Truda i Profzaboleaniya ANU SSSR (1):50-58, (In Russian); (Abstr. in: The Biological Action of UHF, Letavet, A. A., & Gordon, Z. V., (eds.), Moscow: Academy of Medical Sciences USSR (1960), pp. 94-103; OTS 52-19175; JPRS 12471); (Also abstr. in: Biological Effects of Microwaves: Compilation of Abstracts, "Effect of pulsed and nonpulsed UHF on the organism", Sept. 1965, pp. 34-37; ATD-P-65-68), "Morphological changes in experimental animals under the influence of pulsed and continuous wave SHF-UHF radiation"
1689. TOLGSKAYA, M. S., & NIKONOVA, K. V. (1964) Trudy Nii Gigiyena Truda i Profzaboleaniya ANU SSSR (2):89-93, "Histologic changes in the organs of white rats under continuous exposure to HF-LF electromagnetic fields"
1690. TOLGSKAYA, M. S., et al (1957) Tezisy Dokladov Yubileynoy Sessii Institut Gig. Tr. Prof. Zabol. (2):73-74, "Morphological changes in animals exposed to SHF and UHF fields"
1691. TOLLES, W. E., & HORVATH, W. J. (1955) Trans. of Institute of Radio Engineers on Medical Electronics, PGME-4:13-15, (See also Irradiat. in Trans. of Inst. of Radio Engineers PGME-7:pp? 1955); (Presented at Symposium on Physiologic and Pathologic Effects of Microwaves, Krusen, F. H., (Chm.), Mayo Clinic, 23-24 Sept., 1955), "Energy densities of microwave radiating systems"
3659. TOMASHEVSKAYA, L.A., & POPOVICH, V.M. (1975), Gigiyena Naselennykh Mest, (14):103-105, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 17-19, "Several indicators of the metabolic processes of organisms irradiated by a high-frequency electromagnetic field."
1692. TOMBERG, V. T. (1934) Abstracts of the 1st Internat. Congress on Electro-Radio-Biology, (Cappelli, I., ed.) Bologna, Italy, pp. 445-451, (In German with English summary) "The specific biological effects of short wavelength electrical energy"
1693. TOMBERG, V. T. (1959) Digest of Technical Papers, Proc. 12th Annual Conf. on Electrical Techniques in Medicine and Biology, (Schwan, H. P., Chm.), pp. 55-59, "Bionegative actions of microwaves"
1694. TOMBERG, V. T. (1960) Proc. 2nd Internat. Conf. on Medical Electronics, Paris, (1959), Chas. C. Thomas (Publisher), Springfield, Ill., pp. 401-407, "Ultrasonic effects compared with microwave biological effects"
1695. TOMBERG, V. T. (1960) In: Institute of Radio Engineers Internat. Convention Record, Part 9: Instrumentation, Medical Electronics and Nuclear Science Session, "Varied Views of Medical Electronics", pp. 94-97, "Biological microwave hazards"
1696. TOMBERG, V. T. (1960) Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.) pp. 221-226, "Specific thermal effects of high frequency fields"
1697. TOMBERG, V. T. (1961) Digest of Internat. Conf. on Medical Electronics, Biological Effects of Microwaves, I (Athermal Aspects) (Froemer, P. L., ed.) Plenum Press, New York, p. 231-, "Specific electrical effects of radiowaves and their biomedical importance"
3327. TOMPKINS, P., & BIRD, C. (1972), Harpers Magazine, ():90-96, (Nov.), "Love among the cabbages: Sense and sensibility in the realm of plants", [communication with, and between, plants].
3328. TOMPKINS, P., & BIRD, C. (1973), The Secret Life of Plants, Harper & Row, Publishers, New York, 402 pages, [including chapters entitled: "Plants and ESP", "Plants and electromagnetism", "Force fields, humans and plants", and "The mystery of plant and human auras"].
1698. TONKIN, A. V. (1940) In: Questions on the Use of Short Waves and Ultrashort Waves in Medicine, Moscow, "The effect of HF/VHF electromagnetic fields on basal metabolism"
1699. TONKIN, A. V. (1941) Sborn. Physiol. Veget. Nerv. System, Leningrad, 13, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD P-65-17, 1965), "Influence of UHF electromagnetic fields on basal metabolism"
2569. TOROPTSEV, I.V. (1968), Arkhiv Patologii, 30(3):3-12 (FSTC-HT-23-349-72), "Morphological characteristics of the biological action produced by magnetic fields".
1700. TOROPTSEV, I. V., & GARGANEYEV, G. P. (1962) In: Materials of the All Union Sci. Conf., Exp. Kurortology and Physiol. Moscow, "Some morphological changes in experimental animals subject to exposures of alternating electromagnetic fields of industrial importance"
3329. TOROPTSEV, I.V., GARGANEYEV, G.P., GORSHENINA, T.I., & TEPLYAKOVA, N.L. (1971), In: KHOLODOV, Yu.A. (ed.), Influence of Magnetic Fields on Biological Objects, (Citation #3230, this Biblio.), pp. 95-104, "Pathologicoanatomic characteristics of changes in experimental animals under the influence of magnetic fields".
1701. TOSHEV, G., NINOV, V., & TOMOV, V. (1964) Voprosy Kurortologii Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Sci., Physiotherapy, & Medical Physical Culture) 29(2):154-155, (JPRS 25121, pp. 17-19 (1964); OTS-64-31500), "Experience in the treatment of puerperal mastitis with decimeter waves"
1702. TRESKUNOVA, A. S., & SLIZSKIY, G. N. (1962) In: Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 53-54, "Data on the dispensary service offered to individuals exposed in their work to microwave fields"
1703. TRIFONOV, YU. A., & UTINA, I. A. (1966) Biofizika 11(4):646-652, (Biophysics 11:740-748 (1966), (in English)), "Investigation of the mechanism of action of current on the L type cells of the retina"

3660. TROMP, S.W., & WEIHE, W.H. (eds.), Int. J. of Biometeor., 13 Supplement Biometeorology 4, Part II:127-131 (1969); and Int. J. of Biometeor. 14 Supplement Biometeorology 4, Part I:204-205 (1970), "Proceedings of the Fifth Internat. Biometeorological Congress" held at Montreux, Switzerland (31 Aug. to 6 Sept. 1969). [Bio-effects of electric, magnetic, and electromagnetic fields.]
2570. TROYANSKIY, M.P. (1972), Gigiyena i Sanitariya, (Moskva), 37(8):87-92 (in Russ.), (JPRS #57209), "Hygienic aspects of the effects of (SHF) microwave electromagnetic fields on the body."
1704. TROYANSKIY, M. P., KRUGLIKOV, R. I., KORNILOV, R. M., PETROVA-GOLUVEIKO, L. B., & KALASHNIKOVA, Z. S. (1967) Voenno-Meditsinskiy Zh. USSR (Military Med. Jour.), (7):30-35, (Abstr. in Soviet Radiobiology, 68-105-108-9, ATD Press, (June 1968), p. 87 only), "Some results of an investigation of the state of health of specialists working with SHF-UHF generators"
2571. TRUKHAN, E.M. (1966), Biophysics, 11:468-477 (In Engl.), (Biophysika, 11(3):412-419, (1966), (In Russ.)), "Determination of the mobility of free charged carriers in biological compounds". [Hall effect measurements using 3 cm wavelength electromagnetic radiation].
1705. TSOU, H., et al. (1962) National Medical Journal of China (7-12):531-533, "Observations on the clinical effectiveness of microwave therapy"
1706. TUMARKINA, L. N., & DUBROVSKIY, I (1966) Biophysika 11(4):653-658 (Biophysics 11:750-756 (1966), (In English), "Certain aspects of the perception by man of amplitude-modulated signals"
2572. TURAYEVA, V.A. (1966), In: Electrosleep and Electroanesthesia, Materials of the All-Union Symposium on Problems of Electrosleep and Electroanesthesia [Electronarcosis], dedicated to the 20th Year of the Electrosleep Method, pp. 242-246, (In Russ.), Moscow (13-15 Oct.), "The significance of electrosleep in treating patients with eczema and neurodermatitis in the psychiatric clinic".
1707. TURLYGIN, S. YA. (1937) Comptes Rendus (Doklady) de l'Acad. des Sci. de l'USSR, 17(1):19-22, (In English), (Abstr. in: ATD Rept. P-65-68, Sept. 1965, Biological Effects of Microwaves, pp. 1-2, "Effect of centimeter waves on the human central nervous system"); (Also, Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, 1965), "Effect of electromagnetic centimeter waves on the central nervous system"
1708. TURLYGIN, S. YA. (1942) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) (4):63-, "Irradiation of the human organism with 2-mm microwaves"
1709. TURNER, J.J. (1962), Based on a translation of The Biological Action of Ultrahigh Frequencies (Based on a transl. of citation #879, this Biblio.), Letavet, A.A., & Gordon, Z.V., Moscow (1960); U.S. Army Materiel Command, ZEUS Liaison Office, Bell Telephone Labs., Whippany, N.J., 16 July, 64 pages, (AD #278-172), "The effects of radar on the human body (results of Russian studies on the subject)."
1710. TURNER, J. J. (1962) Rept. No. EN-TR-62-1 (AD 273787), U. S. Army Ordnance Missile Command, (Bell Telephone Labs.), 21 Mar., 89 pages, "The effects of radar on the human body" (Based on a transl. of citation #879, this Bibliography)
1711. TURRELL, W. J. (1935) Arch. of Physical Therapy 16:278-281, "Short wave therapy"
1712. TUTTLE, W. W., & JANNEY, C. D. (1948) Arch. of Physical Med. 29:416-421, "The construction, calibration, and use of thermocouples for measuring body temperature"
1713. TUVE, H. A., & WHITMAN, W. G. (1930) "Unpublished super-high frequency data"
1714. TYAGIN, N. V. (1957) Trudy Voenno-Meditsinskaya Akademiya i Kirov (Leningrad) USSR, 73:9-19, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17, Apr. 1965), "Study of the thermal effect of SHF-UHF electromagnetic fields on various animals using the thermometric method"
1715. TYAGIN, N. V. (1957) Trudy Voenno-Meditsinskaya Akademiya i Kirov (Leningrad) USSR, 73:84-101, "Electrocardiogram changes in dogs affected by SHF-UHF electromagnetic fields"
1716. TYAGIN, N. V. (1957) Trudy Voenno-Meditsinskaya Akademiya i Kirov (Leningrad) USSR, 73:116-126, (Abstr. from Zh. Biol. No. 59923 (1959)), "Changes in the blood of animals subjected to a SHF-UHF field"
1717. TYAGIN, N. V. (1957) In: Summaries of reports. Part 2, Jubilee Scientific Session of the Institute of Labor Hygiene & Occupational Diseases Dedicated to the 40th Anniv. of the Great October Socialist Revolution, Moscow, [Title not given] 963-966 (67-),
1718. TYAGIN, N. V. (1958) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 46(8):/ "The thermal action of a SHF electromagnetic field"
1719. TYAGIN, N. V. (1959) In: Summaries of reports. Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves, Moscow, "Some problems of occupational hazard caused by microwave electromagnetic fields"
1720. TYAGIN, N. V. (1960) Voenno Med. Zh., (USSR Military Med. J.), (9):14 only, [Title not given]
1721. TYAGIN, N. V. (1962) In: Summaries of reports. Questions of the Biological Effect of a SHF-UHF Electromagnetic Field. Kirov Order of Lenin Military Medical Academy, Leningrad, pp. 54-55, "The syndrome of the chronic effect of a microwave field" (A67-80162)
1722. TYAGIN, N. V., & USPENSKAYA, N. V. (1966) Zh. Nervropatologii i Psikiatrii i Korsakova 66(8):1132-1136/ "Functional changes in the nervous system and some other systems of the organism under chronic exposure to SHF-UHF radiation"
- See also TYAGIN
2573. TYLER, P.E. (1973), IEEE Trans. on Aerospace and Electronic Systems, AES-9(2):225-228 (Mar.), "Overview of the biological effects of electromagnetic radiation".
3330. TYLER, P.E. (Ed. and Conf. Chmn.), (1975), Annals of the New York Academy of Sciences, ANYAA 247, 545 pps., (Feb. 28), (Proceed. of a conference entitled 'Biologic Effects of Nonionizing Radiation', held Feb. 12-15, 1974, See Citation #3117, this Biblio.), "Biologic Effects of Nonionizing Radiation".

3331. UKOLOVA, M.A., KVAKINA, Ye.B. (1971), In: KHOLODOV, Yu.A. (ed.), *Influence of Magnetic Fields on Biological Objects*, (Citation #3230, this Biblio.), pp. 144-162, "Effect of magnetic fields on experimental tumors (direct and through the nervous system)".
1723. ULC, M., & SVACINA, J. (1966) *Ceskoslovenska Neurologie* 29(6):402-406, "EEG shifts in personnel working around centimeter wave sources"
1724. ULRICH, L., & FERIN, J. (1959) *Pracovní Lékařství*, Prague, 11:500-503, (In Czech.) "The effect of working in high-power transmitting stations upon certain functions of the organism"
2574. ULRICH, W.D. (1971), Naval Medical Research Institute, Res. Rept. No.2 on Project M4306.01-1010BXX9, "Ultrasound dosage for experimental use on human beings", [This rept. is listed since ultrasound has, on occasion, been included in discussions on "non-ionizing" radiation.]
1725. USPERSKAYA, N. V. (1959) In: Works of the Scientific Session Devoted to Results of Work in 1957 by the Inst. of Industrial Hygiene and Occupational Diseases, Leningrad, pp. 63-67, "Clinical aspects of the continuous action of SHF/UHF currents"
1726. USPERSKAYA, N. V. (1959) In: Summaries of reports. Labor Hygiene and the Biological Effect of Radio Frequency Electromagnetic Waves. Moscow, p. 23 only, [Title not given]
1727. USPERSKAYA, N. V. (1961) In: Materials of the Scientific Session Concerned with the Results of Work Conducted by the Leningrad Institute of Industrial Hygiene & Occupational Diseases for 1959-1960. Leningrad, pp. 116-117, "Results of the observation of workers exposed to electromagnetic waves in the centimeter range"
2575. USPERSKAYA, N.V. (1970), *Voyenno-Meditsinskiy Zhurnal*, (6):71 (June), (Transl. #J-8892 for Army Intelligence, p. 98 only), "UHF electromagnetic waves and human health".
1728. VALFEL, et al. (1964) *Ceophys. Meteorol.* 11:76-, (In Italian) "The sensitivity of animal organisms to cosmic variables tested with regular water and physically 'active' water"
1729. VALITOV, N. V., & SHTELSHI, L. V. (1958) *Vozmozdat*, Moscow, *Radio Measurements at Superhigh Frequencies*
1730. VALTONEN, E. J. (1966) *Acta Pharm. Scand.* 12:291-299, "The effects of microwave radiation on the cellular elements in the peritoneal fluid and peripheral blood of the rat"
1731. VALTONEN, E. J. (1966) *Experimental Cell Research* 43:221-, "Giant mast cells - a special degenerative form produced by microwave radiation"
2286. VALTONEN, E. J. (1967) *Z. Zellforsch. Mikroskop. Anat.* 80:322-326, "Observations on the fine structure of giant mast cells produced by microwave radiation on the peritoneal fluid"
2287. VALTONEN, E. J. (1968) *Amer. J. of Physical Medicine* 47:73-83, "Effect of treatment with short wave diathermy on the histamine content of various organs"
3056. VAN DE GRIEK, A., & BRITAIN, R. (1974), *J. of Microwave Power*, 9(1): 7, (Mar.), "Amendments to the U.S. Dept. of Health, Education and Welfare microwave oven performance standard".
1733. VAN EVERDINGEN, W. A. G. (1935) *Nederlands Tijdschrift voor Geneeskunde*, Amsterdam, 82:284-, (In Dutch) "Irradiation with ultrahigh frequency radio waves"
1734. VAN EVERDINGEN, W. A. G. (1940) *Nederlands Tijdschrift voor Geneeskunde*, Amsterdam, 84:4370-4380, "Molecular changes following irradiation with Hertzian waves of a frequency of 1875 megahertz"
1735. VAN EVERDINGEN, W. A. G. (1941) *Nederlands Tijdschrift voor Geneeskunde*, Amsterdam, 85(29):3094-3104, (In Dutch), (Biol. Abstr. 16:576-577, Abstr. # 6386 (1942)), (In Dutch) "Molecular and structural alterations due to irradiation with 10 cm Hertzian waves at 3000 MHz frequency"
1736. VAN EVERDINGEN, W. A. G. (1946) *Revue Belge des Sciences Medicales (Revue de Pathologie et de Medecine Experimentale)* 17(5):261-283, (In French) "Molecular and structural changes produced by irradiation with Hertzian radio waves of 16 and 10 cm (1875 and 3000 MHz). 1. Molecular transformations (hepatic metabolism and problems of cancer)"
3057. Van OSCH, P.M.M., & HEERING, H. (1972), Medical Biological Laboratory, TNO, Rept. No. MBL 1972-5, (Apr.), "Summaries: Biological effects of microwave radiation - Part 5".
3661. VAN PELT, W.F., PAYNE, W.R., & PETERSON, R.W. (1973), U.S. Department of Health, Education, and Welfare, DHEW Publication No. (FDA) 74-8010, "A review of selected bioeffects thresholds for various spectral ranges of light" [visible, ultraviolet, and infrared].
1737. VAN POOL, C. McD. (1935) *Arch. of Physical Therapy* 16:634 only, (Abstr. from *Arch. of Otolaryngology* 20:152-, (1934)), "Tuberculosis of the larynx" [Used electrocautery for treatment.]
1738. VAN UMMERSEN, C. (1961) *Proc. 4th Tri-service Conf. on the Biological Effects of Microwave Radiation*, Vol. 1, (Peyton, M. J., ed.) pp. 201-219, (Also in: Investigators' Conf. on Biological Effects of Electronic Radiating Equipments, Patrick AFB, (Knauf, G. M., Chm.), RADC-TR-59-57, AD 214693, July 1959, pp. 16-17), "The effect of 2450 mc radiation on the development of the chick embryo"
2576. VAN UMMERSEN, C.A. (1963), Ph.D. Thesis, Tufts U., "An experimental study of developmental abnormalities induced in the chick embryo by exposure of radio-frequency waves". (A65-82039),
1739. VAN UMMERSEN, A. & COGAN, F. C. (1965) *Arch. of Environmental Health* 11(2):177-178, (Also in Senate Hearings, pp. 972-973) "Experimental microwave cataracts: age as a factor in induction of cataracts in the rabbit"
1740. VAN UMMERSEN, C. A., & COGAN, F. C. (1969) *Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium*, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 122 only, "Effects of microwave radiation on lens epithelial cells (summary)"

2577. VAN UMHERSEN, G.A., & COGAN, F.G. (1969), Submitted to Arch. of Opth., "Effects of microwave radiation on the lens epithelium in the rabbit eye".
1741. VAN WENT, J. (1952) Geneeskundige Gids (Den Haag) 30:77-88, "Ultrashort wave pituitary irradiation"
2288. VAN ZANTE, H. J., & JOHNSON, S. K. (1970) J. of the Amer. Dietetic Assoc. 56:133-135, "Effect of electronic cookery on thiamine and riboflavin in buffered solutions"
1742. VARIN, I. YE. (1954) Gigiena i Sanitariya, USSR, 29(1):25-33, (JPRS 23898), "Concerning the occupational hazards in working with medical VHF-HF oscillators"
1743. VARIN, I. YE. (1964) Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems of Health Resort Science, Physiotherapy, and Therapeutic Physical Culture), Moscow, 29(2):183-190, (JPRS 25121, pp. 22-35; OTS-64-31500), "First all-Russian congress of health-resort specialists and physiotherapists"
3662. VARMA, M.M., & TRABOULAY, Jr., E.A. (1975), Rept., Howard Univ., Washington, DC (AD #A013-315), July, "Biological effects of non-ionizing radiation—Considering mutagenic hazard."
3663. VAROQUAUX, P., & DUPUY, P. (1975), J. of Microwave Power, 10(3):314 only (Sept.), "Correspondence on chemical effects of microwave energy [lack of production of H₂O₂ from a solution of NaOH]."
1744. VASILENKO, F. D. (1937) Moskovskaya oblastnaya klinika fizicheskikh metodov lecheniya. Trudy., 3, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, 1965), "Influence of HF electrical fields on the isolated frog heart"
1745. VASIL'YEV, N. V. (1965) Trans. of the Sci. Conf. of the Central Sci. Lab. Tomsk 2(2):379-381, "The effect of static and AC magnetic fields on the immunobiological reaction of the organism"
3332. VASIL'YEV, N.V., SHTERNBERG, I.B., & BOGINICH, L.F. (1971), In: Influence of Magnetic Fields on Biological Objects, (Citation #3230, this Biblio.), pp. 105-120, "Magnetic fields, infection, and immunity".
1732. VEDRAL, D. A. (1968) Report. NT-OS-01-03-68, 58 pages, "Soviet research on the pathophysiology of ultrahigh frequency electromagnetic fields"
1746. VERNICK, A., & VUS, J. (1958) J. of Applied Physiology 22(5):435-444, "Comparison of the stimulation of the thermal sense organ by microwave and infrared radiation"
1747. VEPETINSKIYA, A. G., TOLGSKAYA, M. S., & PAILOVA, I. V. (1956) Gigiena Truda i Professional'nye Zabolvaniya (Moskva) 10(9):41-44, (JPRS 59632, IT-67-30281), "Changes of nucleic acids content, induced by UHF waves, in the lungs of rats with experimental silicosis"
2289. VERNICK, S. H. (1962) Dissertation Abstr. 23(2):1174-1175, "The effects of temperature, light, and HF radio waves upon the embryonic development of Tilapia macrocephala"
1748. VERSEK, F. A. (1965) In: U. S. Army Medical Research Lab. Progress Rept. pp. 35-36, (AD 470368), "Dosimetry of radio-frequency and microwave radiation in mammals"
3058. VETTER, R.J., ZIEMER, P.L., & PUNTENNEY, D. (1974). Research/Development, 24(4):22-26, (Apr.), "Microwave dosimetry: Prototype microwave dosimeter is small enough and passive - requiring no connections to integrate exposure," [using a coulometer powered by the microwave field].
1749. VIEB, K. C., & PAITEL'BERG-BLANK, V. P. (1968) Vestnik Akademi^{Nauk k} Kazanskoy SSSR, 3(3):40-42, "Effect of microwaves on the content of nucleic acids in digestive organs"
2578. VILENSKAYA, R.L., SMOLYANSKAYA, A.Z., ADAMENKO, V.G., BULDASHEVA, Z.P., GELVICH, E.A., GOLANT, M.B., & GOLDBABER, D.Ya. (1972), Biull. Eksp. Biol. Med., 73:52-54, (Apr.), "Induction of colicine synthesis with the aid of electromagnetic waves of millimeter wavelength". [Irradiation of colicinogenic strain E. coli at "nonthermal" level].
1750. VINES, YE. I., & KHARITONOV, S. A. (1940) Theory and Practice of Physiotherapy, Collection (Moscow) 4(4):70-, "The sugar content in the blood under the action of a UHF electric field"
3664. VINOGRADOV, I.I., & DUMANSKIY, Yu.D. (1974), Fiziologichnyy zhurnal Adakemii Nauk Ukr. SSR, 20(3):392-394 (in Ukrainian), "Effect of SHF energy on anaphylactic shock and antibody genesis."
1751. VIOLANTI A., TACCARI, E., & CESPI, M. (1964-65) Medicina Sperimentale, Turin, 14:44-, (In Italian) "Histopathologic study of abdominal organs of animals treated with microwaves"
1752. VISEK, J. (1955) Final Report of ZEZ Research and Development Center, Prague, (In Czech.), "Measurement of RF-energy emission in RF equipment from the health aspect and suggestion for safety measures"
1753. VLADIMIROVA, N. A. (1959) Meditsinskaya Radiologiya 4(7):14-20, "The effect of VHF-HF electric fields on the course of experimental radiation sickness in animals"
3665. VLADIMIRSKIY, B.M. (1975), Transl. in JPRS #63992, 40 pps. (30 Jan.), "Effects of non-ionizing electromagnetic radiation."
1754. VOCCIA, M. (1955) Annali di Medicina Navale e Tropicale 60:652-, (In Italian) "On the causes of ocular fatigue in radar operators"
1755. VOGELHUT, P. O. (1960) Proc. of the Internat. Conf. on Medical Electronics 3:409 only, "Microwaves as a tool in biological research"
1756. VOGELHUT, P. O. (1960) In: 3rd Internat. Conf. on Medical Electronics, p. 52, "Study of enzymatic activity under the influence of 3-cm electromagnetic radiation"
1757. VOGELHUT, P. O. (1962) Electronics Research Laboratory Rept., Series No. 60, Issue (476), Univ. of Calif., Berkeley, (AD 40167), "The dielectric properties of water and their role in enzyme-substrate interactions"

1758. VOGELHUT, P. O. (1968) *J. of Microwave Power* 3(3):143-147, "Microwave techniques in biophysical measurements"
1759. VOGELHUT, P. O. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, Richmond, Va., 17 Sept., pp. 98-100, "Interaction of microwave and radio frequency radiation with molecular systems"
1760. VOGELMAN, J. H. (1958) Proc. of 2nd Tri-service Conf. on Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:9-18, (AD 131477; RADG-TR-58-54), "Physical characteristics of microwaves as related to biological effects"
1761. VOGELMAN, J. H. (1959) Proc. 3rd Tri-service Conf. on Biological Effects of Microwave Radiating Equipments (Susskind, C., ed.) 3:332-333, "Comments on papers delivered at Tri-service Conference on Biological Effects of Microwave Radiation"
1762. VOGELMAN, J. H. (1959) Digest of Technical Papers, Proc. of the 12th Annual Conf. on Electrical Techniques in Medicine and Biology, (Schwan, H. P., Chm.), p. 36 only, "Physical and electrical characteristics of a microwave hazard"
1763. VOGELMAN, J. H. (1961) Proc. 4th Tri-Service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Susskind, C., ed.) 3:23-31, "Microwave instrumentation for the measurement of biological effects"
1764. VOGELMAN, J. H. (1966) Proc. of the Symposium on Biomedical Engineering, (Sances, A., Jr., ed.) Marquette Univ., Milwaukee, 1:204-210, "A comparative analysis of biological effects of microwave energy"
1765. VOGELMAN, J. H. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 7-12, "Physical characteristics of microwave and other radio frequency radiation"
2290. VOGT, A. (1912) *Arch. f. Ophth.* 83(1):99-113 (Oct), (Ir. Ger.), "Some measurements on the diathermancy of the human eye ball, its media, and the human eyelid, in addition to observations of the biological effects of infrared (radiation)"
1766. VOKOVA, YE. P. (1947) Candidates Dissertation, Leningrad, "Therapy with the UHF Electrical Field for Acute Inflammatory Processes"
1767. VOLFOVSKAYA, R. N., OSIPOV, YU. A., KLYADA, T. E., KULIKOVSEYNA, E. L., ASANOVA, T. P., & SHCHIGLOVA, A. V. (1961) *Gigiena i Sanitariya, USSR*, 28(5):18-23, (In Russian), (JPFS 9895) "On the combined action of RF field and x-radiation in industry"
1768. VOLKOVA, A. P., & SMUROVA, YE. I. (1967) *Gigiena i Sanitariya, USSR*, (9):107-110, (Abstr. in Soviet Radiobiology, ATD 68-105-108-9 (June 1968) p. 88 only), "The effect of radio frequency electromagnetic fields on phagocytosis, and the course of infectious inflammation in rats" (Also: Hygiene & Sanitation 32:451-454 (1967), (In English))
2291. VON EULER, C. (1947) *Acta Physiologica Scandinavica* 14, Supplement 45, pp. 1-75, "Selective responses to thermal stimulation of mammalian nerves"
1770. VOSBURGH, B. L. (1956) Institute of Radio Engineers Trans. on Medical Electronics, PGML-4:5-7, (From: Symposium on Physiologic and Pathologic Effects of Microwaves, Sept. 1955, Mayo Clinic, Krusen, F. H. (Chm.)), "Problems which are challenging investigators in industry"
1771. VOSBURGH, B. L. (1958) Proc. 2nd Tri-service Conf. on the Biological Effects of Microwave Energy (Pattishall, E. G., & Banghart, F. W., eds.) 2:118-123, "Recommended tolerance levels of microwave energy: current views of the General Electric Company's health and hygiene service"
1772. VOSS, W. A. G. (1969) *J. of Microwave Power* 4(2):120-121, "Exposure reference chart and notes on instruments"
1773. VOSS, W. A. G. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 217-221, "Microwave hazard control in design"
3333. VOSS, W.A.G. (1972), IMPI Short Course, pps. 43-64, (May), "Microwave Safety".
3334. VOSS, W.A.G., RAJOTTE, R.V., & DOSSETOR, J.B. (1974), *J. of Microwave Power*, 9(3):181-194, (Sept.), "Applications of microwave thawing to the recovery of deep frozen cells and organs: A review".
3335. VYALOV, A.M. (1971), In: KHOLODOV, Yu.A. (ed.), Influence of Magnetic Fields on Biological Objects, (Citation #3230, this Biblio.), pp. 163-174, "Clinico-hygienic and experimental data on the effects of magnetic fields under industrial conditions".
1774. VYALOV, A. N., & LISICHKINA, Z. S. (1966) *Gigiena Truda i Professional'nye Zabolevaniya (Moskva)* (5):39-43, "Characteristics of some clinical and physiological changes in workers exposed to the action of dispersed, constant magnetic fields under industrial and laboratory conditions"
1775. VYALOV, A. N., et al. (1964) In: Questions of Occupational Pathology, Moscow, pp. 169-, "The question of the effect of constant and variable magnetic fields on the human organism"
1776. VYALOV, A. N. (1967) *Vestnik Akad. Meditsinskikh Nauk AN SSSR*, (8):52-58, (Abstr. in: Soviet Radiobiology, ATD 68-105-108-9 (June 1968) p. 88 only), "Magnetic fields as a factor in an industrial environment"
3666. VYGODNER, Ye.B., KISLINA, V.M., & FRENKEL', I.D. (1975), *Voprosy Kurortologii i Lechebnoy Fizicheskoy Kul'tury*, (5):395-399 (Sept.-Oct.), (In Russian), Transl. In: "Effect of Non-Ionizing Electromagnetic Radiation" (JPFS #L/5615), 10 Feb. 1976, pp. 61-70, "Influence of pelotherapy and microwaves on the functional condition of the adrenal cortex of peptic ulcer patients."
3336. WACHTEL, H., JOINES, W., SEAMAN, R., & WALKER, C. (1973), Abstr. of: Society for Neuroscience Third Annual Meeting, (Nov. 7-10), "Firing pattern changes induced by low intensity microwave radiation of isolated neurons from *Aplysia californica*". ["Absorbed power" of between 10 and 50 mW/cm² and frequencies of 1.5 and 2.45 GHz].

1777. WACKER, P. F. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Rad. Health, Div. of Bio. Effects, Rept. No. 70-2, pp. 197-203, (Also: (1970) Report: NBS, Boulder, Colo., Electromagnetics Div., NBS-TN-391, (N70-32534), "Quantifying hazardous microwave fields: analysis"
1778. WACKER, P. F., & BOWMAN, R. R. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):178-187, "Quantifying hazardous electromagnetic fields: scientific basis and practical considerations"
3337. WADE, N. (1972), Science, 177():778 only, "Fischer-Spassky charges: What did the Russians have in mind?", [low-intensity microwave radiation-produced "asthenic syndrome" during the chess match?].
2579. WAGENER, F.M., JENKER, F.L., & HAFNER, H. (1965), Deutsches Medizinisches J., 7(7):pps?, "Changes in cerebral hemodynamics during electrosleep".
2580. WAGENER, F.M., SHUY, __., & GENSE, __. (1964), Der Anaesthetist, 13(11):pps?, "Measurements of potentials in the dog brain during passage of pulse current".
2581. WAGNER, C.F., McCANN, G.D., & BECK, E. (1941), Amer. Inst. of Elect. Engr. (AIEE) Trans., 60:1222-1230, "Field investigation of lightning", [Discusses wave shape and current discharged by lightning arresters].
1779. WAJSZCZUK, W. J., NOWRY, F. M., & DUGAN, N. L. (1969) New England J. of Med. 280(1):34-35, "Deactivation of a demand pacemaker by transurethral electrocautery"
1780. WAKIM, K. C., GERSTEN, J. W., HERRICK, J. P., ELKINS, E. C., & KRUSEN, F. H. (1948) Arch. of Physical Med. 29(9):583-593, "The effects of diathermy on the flow of blood in the extremities (An experimental and clinical study)"
1781. WAKIM, K., HERRICK, J., & GERSTEN, J. (1947) Proc. Central Society for Clinical Research 20:49-, (Also: J. Laboratory Clinical Medicine 32:1511-1512 (1947)), "Effects on blood flow: clinical and experimental studies"
1782. WAKIM, K., HERRICK, J., PARKHILL, E., & BENEDICT, W. (1948) Amer. J. of Physiol. 155:432-, (Also: Amer. J. of Ophthal. 33:1241-1245, (1950)), "Effects of microwave diathermy on the eye"
1783. WAKIM, K. C., HERRICK, J. P., MARTIN, G. H., & KRUSEN, F. H. (1949) J. of the Amer. Medical Assoc. 139(15):989-992, "Therapeutic possibilities of microwaves"
3059. WALCOTT, L.E., WHELLER, P.C., HARDWICK, H.M., & ROWLEY, B.A. (1969), Sou. Med. J., 62():795-?, "Accelerated healing of skin ulcers by electrotherapy".
3338. WALKER, C.M.B., McWHIRTER, K.G., & VOSS, W.A.G. (1974), J. of Microwave Power, 9(3):221-229, (Sept.), "Use of a bacteriophage system for investigating the biological effects of low intensity pulsed microwave radiation", [2450 MHz, pulsed at 8 KHz, at 1 to 10 mW/cm² showed no effect on the number of infections of *E. coli* B by phage T_{4r11}].
3339. WALLIS, R. (1959), Presented at the 87th Annual Meeting of the Amer. Public Health Assoc., Atlantic City, Oct. 19-23, "Evolution of concepts concerning the application of high-frequency currents upon living organisms".
3060. WALTER, W.H., III, MITCHELL, J.C., RUSTAN, P.L., FRAZER, J.W., & HURT, W.D. (1973), J. of the Amer. Med. Assoc., 224(12):1628-1631, (Jun. 18), "Cardiac pulse generators and electromagnetic interference".
1784. WALTHER, K. (1950) Medical Hygiene 3:182, 431, "Microwaves in physiotherapy"
3667. WANGEMAN, R.T. (1974), Health Physics, 27(6):633-634, "In-vivo effects of 2.45 GHz microwave radiation on rabbit serum components."
1785. WARD, G. E. (1947) The Internist 13:347-351, and p. 379, (August), "Electrosurgery"
3668. WARD, T.R., ALLIS, J.W., & ELDER, J.A. (1975), J. of Microwave Power, 10(3):315-320 (Sept.), "Measure of enzymatic activity coincident with 2450 MHz microwave exposure."
3669. WARNKE, U. (1973), Dissertation, Universitat des Saarlandes, "Physical-physiological base to the atmospheric electrically-caused 'weather awareness' of the honey bee (*Apis mellifica*)."
3340. WARREN, S.L. (1935), Amer. J. of Roentgenology, 33(1):75-87, "Preliminary study of the effect of artificial fever upon hopeless tumor cases", [Brief report of use of short wave diathermy].
1786. WATARI, H., EWANG, K. J., ASEIDA, K. (1966) Biochim. Biophys. Acta 128:256-261, "Semiquinone formation of D-amino acid oxidase by irradiation"
3670. WATSON, J., DeHAAS, W.G., & HAUSER, S.S. (1975), Nature, 254(5498):331-332 (Mar. 27), "Effect of electric fields on growth rate of embryonic chick tibiae in vitro." [See also DUNCAN & MACMILLAN, citation #3435, this Biblio.]
3061. WATTERS, F.L. (1962), Proc. of the Entomol. Soc. of Ontario, 92():26-32, "Control of insects in foodstuffs by high-frequency electric fields".
3341. WAYLAND, J.R., DAVIS, F.S., YOUNG, L.W., & MERKLE, M.G. (1972), J. of Microwave Power, 7(4): pp. ?, "Thermal and non-thermal effects of UHF fields on plants and seeds of mesquite and beans".
1787. WEBB, S. J., & BOOTH, A. D. (1969) Nature 222(5159):1199-, (21 June), "Absorption of microwaves by microorganisms"
1788. WEBB, S. J., & DODDS, D. D. (1968) Nature 218(5139):374-, (27 Apr.), "Inhibition of bacterial cell growth by 136 Gc microwaves"
2060. WEBB, S. J., & BOOTH, A. D. (1971) Science 174(4004):72-74, (1 Oct.), "Microwave absorption by normal and tumor cells"
1789. WEDLICK, L.T. (1967), Medical J. of Australia, 2(23):1050-1051, "The use of heat and cold in the treatment of sports injuries."
1790. WEI, L. Y. (1969) Science 163:280-282, (19 Jan.), "Role of surface dipoles on axon membrane"

3671. WEIL, C.M. (1975), IEEE Transactions on Biomedical Engineering, BME-22():468-476 (Nov.), "Absorption characteristics of multilayered sphere models exposed to UHF/microwave radiation." [head tissue dosimetry phantom]
2582. WEISKE, W. (1963), Biomedical Sciences Instrumentation, Vol. I:467-475, "Human sensitivity to electric fields". [Primarily at power transmission frequencies; however, also describes a subject "hearing" radio waves].
1791. WEISS, J. (1935) Arch. of Physical Therapy 15:95-96, "The flasher sinusoidal machine"
1792. WEISS, M. M., & MEMFORD, W. W. (1961) Health Physics 5:160-168, "Microwave radiation hazards"
1793. WEISSENBERG, E. (1934) Abstracts of the 1st Internat. Congress on Electro-radio-biology, pp. 452-456, (In German with English Summary), "Effects of distance on biological hazards to man from radio waves"
2583. WEISZ, H., PICK, J., & TOMBERG, V. (1938), Archives of Physical Therapy, 19():79-83, (Feb), "The problem of a specific effect of short waves on blood vessels".
1794. WESTIN, J.B. (1968), J. of Occupational Med., 10(3):134-141, "Microwave radiation and human tolerance: a review."
1795. WEVER, R. (1967) Zeitschrift für Vergleichende Physiologie 55:111-128, "The influence of weak electromagnetic fields on the cardiac rhythms of man"
1796. WEVER, R. (1970), Life Sciences and Space Research (Amsterdam: North Holland), 8:177-187, "The effects of electric fields on circadian rhythmicity in men."
3062. WEVER, R. (1973), Internat. J. of Biometeorol., 17():227-232, "Human circadian rhythms under the influence of weak electric fields and the different aspects of these studies".
1797. WHALEN, R. E., STARMER, C. F., & McINTOSH, H. D. (1964) Annals of the N.Y. Academy of Sci. 111:922-931, "Electrical hazards associated with cardiac pacemaking"
2584. WHITE, C.E. (1972), Microwave Journal, 15(12):6 & 66, (Editorial), "A problem that won't go away", [Concern for the possible biological hazards resulting from RF and microwave radiation exposure; background, and present governmental program.]
3063. WHITEHEAD, C.T. (1973), In: Radiation Control for Health and Safety, Hearings before the Committee on Commerce, U.S. Senate, Mar. 8-12, Serial No. 93-24, U.S. Govern. Print. Office, Wash., DC, "Statement (on government activities to assess the biological effects of nonionizing EM radiation - March 9)".
3131. WHITNEY, W.K., NELSON, S.O., & WALKDEN, H.H. (1961), U.S. Dept. of Agriculture, Marketing Res. Report No. 455, 52 pps., "Effects of high-frequency electric fields on certain species of stored-grain insects".
3342. WHYTLAW-GRAY, R., & SPEAKMAN, J.B. (1921), Nature, 107(2698):619 only, (July 14), "A novel magneto-optical effect", [early observation of a 'pearl chain effect' in a magnetic field].
3064. WILCH, M. (1974), The Palatine (Ill.) Herald, Feb. 11, "She's engaged in microwave research: Effects on behavior interest Harper professor [describes work of S. KORBEL]."
1798. WILDERVANCK, A., MAKIM, K.G., HERRICK, J.F., & DRUSEN, F.H. (1959), Arch. of Physical Med., 40:45-55, (Feb.), "Certain experimental observations on a pulsed diathermy machine."
1799. WILKE, E., & MÜLLER, R. (1933) Kolloid Z. 65:257-260, (In German), "Effect of electrical waves on colloids"
1800. WILKINS, D. J., & HELLER, J. H. (1963) J. of Chemical Physics 39(12):3401-3405, "Effect of radio-frequency fields on the electrophoretic mobility of some colloids"
1801. WILLIAMS, C. (1955) Annual Meeting of the Industrial Hygiene Foundation, Mellon Inst., Pittsburgh, Pa., 16-17 Nov. "Industrial hygiene aspects of microwaves"
1802. WILLIAMS, D. B., & PIXOTT, R. S. (1957) Proc. 1st Tri-service Conf. on Biological Hazards of Microwave Radiation (Pattishall, E. G., ed.) 1:6-19, (AD 115603), "A summary of the SCMASAF program for research on the biomedical aspects of microwave radiation"
1803. WILLIAMS, D. B., & PIXOTT, R. S. (1957) Medical News Letter (Navy) 30(10):35-, "Biological hazards of microwave radiation"
1804. WILLIAMS, D. B., MONAHAN, J. P., NICHOLSON, W. J., & ALDRICE, J. J. (1956) Institute of Radio Engineers Trans. on Medical Electronics PGME-4:17-22, (From: Symposium on Physiologic and Pathologic Effects of Microwaves (Krusen, F. H., Chm.) Sept. 1955); (Also, A.M.A. Arch. Ophthalmol. 54:863-874 (1955), and Report 55-94 of Air University, USAF School of Aviation Med., Randolph AFB, Texas, Aug. 1955), (AD 80072), "Biologic effects studies on microwave radiation: time and power thresholds for the production of lens opacities by 12.3 cm microwaves"
1805. WILLIAMS, D. B., & NICHOLSON, W. J. (19__) Report (Classified): Air University, School of Aviation Medicine, USAF, Randolph AFB, Texas, "Biological effects studies on microwave radiation" An appraisal of the biological effects potential of current USAF 'S' band ground radar transmitters"
1806. WILLIAMS, R. B., & CARPENTER, H. M. (1957) Naval Medical Research Institute Report (by Ely, T. S., & Goldman, D. E.), Appendix B of "Heating characteristics of laboratory animals exposed to ten-centimeter microwaves", NMRI Research Reports 15:124-137, "Early lesions in dog testes due to microwaves"
1807. WILLIAMS, D. B., et al. (19__) Institute of Radio Engineers Trans. on Medical Electronics, Ref?, "An observation on the detection by the ear of microwave signals"
3065. WILLIAMS, R.J., & FINCH, E.D. (1974), Aerospace Medicine, 45(4):393-396, "Examination of the cornea [of rabbits] following exposure to microwave radiation", (at 2.45 GHz (CW) or 2.86 GHz (pulsed) of average power density of 225 mW/cm². 'Radiation did not appear to influence the normal cornea, or the healing process in the wounded cornea.').

2585. WILLIAMS, R.J., & MCKEE, A. (1973), Naval Medical Research Institute (Juna), submitted for publication "Microwave induced lens damage: Evaluation by scanning and transmission electron microscopy".
1608. WILMER, H. B., & MILLER, M. M. (1935) Arch. of Physical Therapy 16:674-677, "Physical therapy in allergic diseases"
2292. WINTER, F. C., & BOOMER, R. B. (1959) Am. J. of Ophth. 48(3)II:336-337, "Changes in corneal astigmatism observed following surface diathermy to rabbit corneas"
2586. WILSON, A.S., SANCES, A., & LARSON, S.J. (1966), In: First International Symposium on Electrotherapeutic Sleep and Electroanesthesia. Graz, Austria, (12-17 Sept.), "Effects of electroanesthesia on acquisition and retention of behavior patterns in primates".
3066. WILSON, C.L. (1970), J. of Bone & Joint Surg., 52-A ():1033-1040, "Experimental attempts to stimulate bone growth".
3067. WILSON, D.H. (1972), British Med. J., 2():269-270, (29 Apr.), "Treatment of soft-tissue injuries by pulsed [high frequency] electrical energy".
1809. WILSON, G. (1951) North Carolina Medical J. 12(1):19-23, "Treatment of fibrositis in the neck and shoulder with micro-thermy (radar)"
3672. WILSON, G.C. (1975), The Washington Post, (Wednesday, Dec. 10), p. A5 only, " '73 Report cites biological effects in radio project" [SANGUINE].
1810. WILTSCHKO, W. (1968) Zeitschrift fur Tierpsychologie 25:537-, (In German), "A study of the influence of static magnetic fields on the migratory orientation of the robin (*Erithacus rubecula*)"
1811. WILTSCHKO, W., & MERKEL, F. W. (1966) Zoologischer Anzeiger Suppl. 29:362-, (In German), "Orientation and migratory behavior of the robin in a static magnetic field"
1812. WIMMER, R. (1954) Report: (ERD-CRRC-TM-55-118) Atomic Warfare Directorate, Air Force Cambridge Research Center, Air Research and Development Command, "A survey and analysis of ultra-high-frequency measurement of dosimetry techniques"
1813. WINDLE, J., & SHAW, T. (1954) J. of Chemical Physics 22:1752-, "Dielectric properties of wool-water system at 3000 and 9300 MHz"
1814. WINDLE, J., & SHAW, T. (1956) J. of Chemical Physics 25:435-, "Dielectric properties of wool-water system at 26,000 MHz"
1815. WINGO, W. (1958) Washington Daily News, p. 6 only, (Sept. 3), "Navy warns of strange antenna"
1816. WISE, C. S. (1948) Arch. of Physical Med. 29:17-21, "Effect of diathermy on blood flow: plethysmographic studies"
1817. WISE, C. S., Castleman, B., & Watkins, A. L. (1949) J. of Bone & Joint Surgery, 31A(3):487-, "Effect of diathermy on bone growth in the Albino rat"
1818. WORDEN, R. E., HERRICK, J. F., WAKIM, K. G., & KRUSEN, F. H. (1948) Arch. of Physical Med. 29(12):751-758, "The heating effects of microwaves with and without ischemia"
3068. WRIGHT, G.G. (1973), Physiotherapy (British), 59(12):385-387, (Dec.), "Treatment of soft-tissue and ligamentous injuries in professional footballers [using pulsed, electromagnetic radiation]".
3343. WROBLEWSKI, T.E., ZARZECKI, K., & DENISIEWICZ, R. (1973), Mater. Med. Pol., 5():209-212, (In Engl.), "Duodenal ulcer in persons occupationally exposed to microwave radiation".
1819. WROMBLE, R. F. (Editor), (1968) Proc. of a Meeting to Discuss "Technical Considerations in the Measurement and Evaluation of Radiation Emissions from Microwave Ovens", National Center for Radiological Health, U. S. Dept. of Health, Education, and Welfare, Public Health Service, Rockville, Maryland
1820. WUDKA, E., & LEOPOLD, I. H. (1957) Arch. of Ophthalmology 58:829-849, "Experimental studies of the choroidal vessels: VI: Observations on the effects of physical agents"
3673. WULFSOHN, N.L., & SANCES, Jr., A. (eds.) (1970), The Nervous System and Electric Currents, (Proceedings of the 3rd Annual Nat. Conf. of the Neuro-Electric Soc., held in Las Vegas, Nev., Mar. 23-25, 1970), 184 pps., Plenum Press, New York.
3674. WULFSOHN, N.L., & SANCES, Jr., A. (eds.) (1971), The Nervous System and Electric Currents, Volume 2, (Proceedings of the 4th Annual Nat. Conf. of the Neuro-Electric Soc., held in San Antonio, Tex., Mar. 10-12, 1971), 228 pps., Plenum Press, New York.
3675. WYCKOFF, J.M. (1973), Proceedings of the Annual Meeting of the Institute of Environmental Sciences (19th), (Anaheim, Calif., 2-5 Apr.), pp. 130-135, "Measurements for radiation [ionizing and non-ionizing] safety."
3676. YADRINTSEV, V.A. (1975), Gigiyena Truda i Profess. Zabollevaniya, (2):18-21, (In Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation"(JPRS #66512), (7 Jan. 1976), pp. 3-6, "Cerebral and peripheral circulation in persons handling sources of ultrahigh radio frequencies based on the results of rheographic examinations."
2293. YAGI, K. (1970) Nippon Acta Radiol. (Jap.) 30:184-204, (In Jap., with Eng. abstr., fig. titles, and biblio.), "Local aplastic bone marrow induced by microwave irradiation in rabbits; especially histological and histochemical studies"
2029. YAKIMENKO, D. I. (1961) Vest. derm. vener. 35:33-36, (In Russian) "Treatment of certain neurotrophic skin diseases with ultraviolet radiation and high-frequency currents in small doses"
1821. YAKOVLEVA, M. I. (1964) Section in: Chapter 8 of Outline of the Evolution of Nervous Activity, Meditsina Publ. House, Leningrad, pp. 202-, "The functional state of the sympathetic-adrenal system during the action of microwave electromagnetic fields."
1822. YAKOVLEVA, M. I. (1968) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 62(9):9-11, "The study of efferent impulsion in postganglionic sympathetic fibrose under the action of a SHF-UHF electromagnetic field" (Also cited as #656, this Biblio.)

1823. YAKOVLEVA, M. I. (1968) Zh. Vysshei Nervnoi Deyatel'nosti imeni i Pavlova, USSR, 18(3):418-424, (JPRS 46632; N68-37285), "The effect of SHF-UHF electromagnetic fields of conditioned reflex control of cardiac and respiratory activity"
3677. YAKOVLEVA, M.I. (1973), Physiological Mechanisms of the Action of Electromagnetic Fields, "Meditsina" Publishing House, Leningrad.
1824. YAKOVLEVA, M. I., SHLYAFER, T. P., & TSVETKOVA, I. P. (1968) Zh. Vysshei Nervnoi Deyatel'nosti imeni i Pavlova, USSR, 18(6):973-978, "Conditioned cardiac reflexes and the functional and morphological status of cortical neurons under the action of SHF-UHF electromagnetic fields" (Also cited as #658, this Biblio.)
1825. YAMAURA, I., & CHICHIBU, S. (1967) Tohoku J. of Experimental Med. 93(3):249-259, "Superhigh frequency electric field and crustacean ganglionic discharges"
3069. YAMAURA, I., & MATSUMOTO, G. (1972), Japanese J. of Medical Electronics, 10():25-32, (Jun.), (In Jap. w/Engl. abstr.), "Dynamic characteristics of crayfish stretch receptor for microwave radiation".
1826. YAO, K. T. S., & JILES, M. M. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.), Bur. of Radiological Health, Division of Biological Effects, Rept. No. 70-2, pp. 123-133, "Effects of 2450 MHz microwave radiation on cultivated rat kangaroo cells"
2294. YAO, K. T. S., & JILES, M. M. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), Jan-Dec 1969, Div. of Biological Effects, Bur. Rad. Health, DHEW (Rept. No. DRH-DBE 70-1), pp. 185-187, "Effects of 2450 MHz microwave radiation on cultivated rat kangaroo cells"
2295. YAO, K. T. S., & JILES, M. M. (1970) In: Radiation Bio-Effects Summary Report, Hodge, D. M., (ed.), Jan-Dec 1970, Div. of Biological Effects, Bur. Rad. Health, DHEW, (Rept. No. DRH-DBE 70-7), pp. 233-235, "Mortality patterns of microwave irradiated rat kangaroo cells in culture"
3070. YARRINGTON, C.T., Jr., & JAQUISS, G.W. (1969), Arch. of Otolaryng., 89():856-860, "Electrical control of bone growth in ossicles".
2588. YASHINA, L.N. (1972), Gigiyena Truda i Professional'nyye Zaboлевaniya, (2):53-56 (LC Abstract), "Effect of low frequency pulsed magnetic field on the activity of oxidizing-deoxidizing enzymes in the liver of albino rats (histochemical investigation)".
3344. YASHINA, L.N. (1972), Gigiyena Truda i Professional'nye Zabolivaniya, 16(2):53-56, (Feb.), (In Russ.), "Effects of a pulsed low frequency magnetic field on the activity of redox enzymes in the albino rat liver: Histochemical investigation", [Inhibition of succinate dehydrogenase in hepatic tissue of rats exposed acutely to 900 Oe fields, or chronically to 300 Oe fields, pulse of 130 usec duration, 10 sec. between pulses, at a pulse modulation of 7 KHz]. (See also citation #2588, this Biblio.)
1827. YASNOGORODSKIY, Y. (1959) Voprosy Kurortologii, Fizioterapii i Lechebnoy Fizicheskoy Kul'tury (Problems in Health Resort Sci., Physiotherapy, & Medical Physical Culture), Moscow, (6):563-567, (JPRS 3039D), "Conference devoted to problems concerning the application of radioelectronics in medicine and biology"
1828. YASNOGORODSKIY, V. G. (1960) In: Elektronika V Meditsine (Electronics in Medicine), Gosenergizdat, Leningrad, pp. 228-232, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17, (Apr. 1965)), "Specifications for a high-frequency therapeutic apparatus; hygienic estimate of labor conditions during work with HF generator"
1829. YASUICHI, H. (1952) J. Chem. Soc. of Japan (Pure Chem. Sec.) 73:644-645, "Effect of ultra-high-frequency waves on the crystallisation process of salts"
1830. YATSENKO, M. I. (1965) Fiziologicheskii/Akad. Nauk UKR SSR 11(4):516-519, "Effect of microwaves on the absorptive capacity of the synovial membrane of the knee joint when the spinal cord has been severed"
1831. YATSENKO, M. I. (1966) Fiziologicheskii/Akad. Nauk UKR SSR 12(3):377-381, "Effect of microwaves on the absorptive capacity of the knee joint under the effect of atropine and carbocholine" (Also cited as #659, this Biblio.)
1832. YATSENKO, M. I. (1968) Fiziologicheskii/Akad. Nauk UKR SSR 14(2):261-264, "Effect of microwaves on the absorptive capacity of the knee joint under conditions where adrenalin and aminazine have been introduced into the organism"
1833. YATTEAU, R. F. (1970) New England J. of Med. 283(26):1447-1448, "Radar-induced failure of a demand pacemaker"
1834. YEFIMOV, V. V. (1942) Biulleten Eksperimental'noi Biologii i Meditsiny (Moskva) 14(2):61-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17 (Apr. 1965)), (Title not given) [A UHF field causes drowsiness in some species of animals]
1835. YELEAZAROVA, M. P. (1940) Klinika Fizicheskikh Metodov Lecheniya. Trudy, Moscow oblast', (4):177-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17 (Apr. 1965)), "Change in protein metabolism under the influence of a UHF field"
1836. YELISEYEV, V. V. (1964) Trudy Nii Gigiyena Truda i Profzabolaniya AMN SSSR (2):94-104, "Method of animal irradiation in the experimental study of the effects of radio frequency electromagnetic waves"
1837. YELISEYEVA, M. I. (1937) Biological Effect of Ultrahigh Frequencies, Symposium, Moscow, pp. 261-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept P-65-17 (Apr. 1965)), "Glycemic reactions of rabbits to a UHF field"
1838. YERMAKOV, Y. V. (1969) Voyenno Meditsinskiy Zh. (USSR Military Med. J.), (3):42-44, "Developmental mechanism of astheno-vegetative disorders in case of chronic exposure to UHF fields"
1839. YERMOLAYEV, YE. A. (1964) Voyenno-Meditsinskiy Zh. (USSR Military Med. J.), (9):22-26, (Abstr. in: Biological Effects of Microwaves, (ATD-P-65-68, (Sept. 1965), pp. 23-24, "Industrial Hygiene and Radiation Dosimetry Around UHF Sources"), "Evaluating the danger of SHF-UHF and x-radiation in the vicinity of radar stations"

1840. YERMOLAYEV, Y. A., & KOVACE, R. I. (1968) *Voyenno Meditsinskiy Zh.*, (USSR Military Med. J.), (1):55-59, "On the problems of the methods of estimating irradiation by SEP-UHF radiowaves"
1841. YERMOLAYEV, YE. A., SUBBOTA, A. G., & CHUKHLOVIN, B. A. (1967) *Voyenno Meditsinskiy Zh.* (USSR Mil. Med. J.) (7):45-49, (ACSI J3145), "The degree of standardization of microwave radiation in foreign armies - a literature review"
3678. YERSHOVA, L.K., & DUMANSKIY, Yu.D. (1975), *Gigiyena Naselennykh Mest*, (14):89-92, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 1-4, "Physiological changes in the central nervous system of animals under the chronic effect of continuous microwave fields."
1842. YEVDOKIMOV, I. R. (1964) In: *Biological Action of Ultrasound and Superhigh Frequency Electromagnetic Oscillations*, Gorodetskiy, A. A., Academy of Sciences, Institute of Physiology, imeni A. A. Bogomolets, Kiev, "Ultraacoustic parameters of the blood in the dynamics of acute radiation sickness"
1843. YOUMANS, C. R., JR., BOURLASOFF, G., ALLENSWORTH, D. C., MARTIN, W. L., & DERRICK, J. R. (1969) *Amer. J. of Surgery* 118:931-937, "Electroshock therapy and cardiac pacemakers"
3679. YOUMANS, H.D., & HO, H.S. (1975), *Health Physics*, 29():313-316 (Aug.), "Development of dosimetry for RF and microwave radiation—I: Dosimetric quantities for RF and microwave electromagnetic fields."
3680. YOUNG, L.B., & YOUNG, H.P. (1974), *Bulletin of the Atomic Scientists*, ():34-38 (Dec.), "Pollution by electrical transmission: The environmental impact of high voltage lines" [up to 765 KV].
3071. YOUNG, R.G. (1964), Presented at the 26th Annual General Motors Medical Conference, held in conjunction with the Industrial Health Conference, Pittsburgh, PA, (Apr. 12 & 13), "Value and limitations: [in the use of] Pulsed high frequency", [electromagnetic radiation in the treatment of injuries].
1844. ZABOTIN, A. I. (1965) In: *Questions of Hematology, Radiobiology, and the Biological Action of Magnetic Fields*, Tomsk, pp. 323-, "The effect of magnetic and electric fields on the rate and chemistry of photosynthesis"
1845. ZAGORIL'KO, L. T. (1948) *Uspekhi sovremennoy biologii* 25:231-, (Abstr. in: *The Biological Effects of Electromagnetic Fields - Annotated Bibliography*, AD Rept. P-65-17 (Apr. 1965)), (Title not given) [Exposure of occipital regions to UHF produces alterations in the course of consecutive visual images]
3681. ZAHNER, R. (1964), *Zeitschrift für vergleichende Physiologie*, 49():172-190, (in German), "Effects of the electrical field on the behavior of hamsters (*Mesocricetus auratus* Waterhouse)."
1846. ZARACNIK, J. W., & CHEN, C. S. (1967) *Digest of the 7th Internat. Conf. on Medical and Biological Engineering*, (Jacobson, B., ed.), Stockholm, p. 402 only, "Bacterial lethality predictions during heating based on principles of similitude"
1847. ZARZHEVSKIY, YE. B., & MALYSEEV, V. M. (1964) *Voyenno Meditsinskiy Zh.* (USSR Military Med. J.), (10):15-19, (Abstr. ACSI-17232), "The chronic effect of an SEP-UHF electromagnetic field on the human organism - review of literature"
3682. ZALYUBOVSKAYA, N.P., GORDIYENKO, O.I., & KISELEV, P.I. (1975), *Problemy Gematologii i Perelivaniya Krovi*, 20(4):31-33, (in Russian), Transl. In: "Effects of Non-Ionizing Electromagnetic Radiation" (JPRS #66512), (7 Jan. 1976), pp. 30-32, "Action of electromagnetic fields of superhigh frequencies on erythrocytes preserved at low temperature."
1848. ZANINI, A. (1943) *Zentralblatt für die gesamte radiologie* 37:216 only, (Originally appeared in *Med. Ital.* 24:73-83, (1943); (in Italian)), Abstr. only, (in German), "Shortwave therapy in the non-expectorant bronchopneumonia in children"
1849. ZARET, M. M. (1959) *Proc. 3rd Tri-Service Conf. on Biological Effects of Microwave Radiating Equipments* (Susskind, C., ed.) 3:324-335, "Comments on papers delivered at Tri-Service Conference on Biological Effects of Microwave Radiation"
1850. ZARET, M. M. (1962) *Industrial Hygiene Review* 5:11-, "The biological effects of microwave radiation"
1851. ZARET, M. M. (1964) *Report*, 25 pages, (AD 608746; RADC TDR-64-273), "An experimental study of the cataractogenic effects of microwave radiation"
1852. ZARET, M. M. (1965) In: *Life in Spacecraft*, *Proc. of the 16th Internat. Astronautical Congress*, Athens, (A67-30769; Abstr. available as A66-10793), "Ophthalmic effects associated with ionizing and non-ionizing electromagnetic radiation fields"
1853. ZARET, M. M. (1965) *Annual Progress Report* (AD 615469), "Effects of electromagnetic radiation on biological systems"
1854. ZARET, M. M. (1966) *Annual Progress Report*, Zaret Foundation Inc., Scarsdale, N. Y., 22 pages, (AD 635943), (Also, *Progress Rept. for 1967*, 5 pages, (AD 654447; N67-86176)), "Ocular effects of microwave radiation"
1855. ZARET, M. M. (1967) *Annual Progress Report*, The Zaret Foundation, Inc., June 1966 to May 1967, 10 pages, (AD 654523; N67-35537), "Ophthalmic hazards of microwave and laser environments"
1856. ZARET, M. M. (1969) *Final Report on A2PA Project*, The Zaret Foundation, Inc., (AD 856712), "Effects of low-level microwave irradiation on heart rate in rabbits"
2296. ZARET, M. (1969) 40th Annual Sci. Meeting of the Aerospace Med. Assoc., San Francisco, "Ophthalmic hazards of microwave and laser environments"
3346. ZARET, M.M. (1971), *J. of Microwave Power*, 6(3):269-271, "Comments on 'Biological effects of microwaves - An overview'"
2030. ZARET, M. M. (1971) *Proceedings of the "Biological Effects of Non-Ionizing Radiation" Symposium*, IEEE Internat. Convention and Exposition, N. Y., (Rosenthal, S. W., chm.), (22-25 Mar), "Clinical aspects of non-ionizing radiation"
2589. ZARET, M.M. (1972), *IEEE Transactions on Biomedical Engineering*, BME-19(4):313-316, "Clinical aspects of non-ionizing radiation".
3072. ZARET, M.M. (1973), *Medical Trial Technique Quarterly*, 19():246-252, "Microwave cataracts".

3347. ZARET, M.M. (1974), New York State J. of Medicine, 74(11):2032-2048, (Oct.), "Cataracts following use of microwave oven", and letters of comment (pro and con) from: MICHAELSON, S.M., & OSEPCHECK, J. (pp. 2034-2035); CARPENTER, R.L. (pp. 2035-2036) MERRIAM, G.R., Jr. (pp. 2036-2037); DONALDSON, D.B. (pp. 2037); APPLETON, B. (pp. 2037-2038); BOUCHAT, J.A. (pp. 2038-2039); and, response by ZARET, M. (pp. 2039-2048).
3683. ZARET, M.M. (1975), Eye, Ear, Nose, & Throat Monthly (for Otolaryngologist, p. 291-294), 54:49-52 (July), "Blindness, deafness, and vestibular dysfunction in a microwave worker."
1857. ZARET, M. M., CLEARY, S. F., PASTERNAK, B., EISENBUD, M., & SCHMIDT, H. (1961) Report (RADC TN-61-226), 110 pages, (AD 266831), "Occurrence of lenticular imperfections in the eyes of microwave workers and their association with environmental factors"
1858. ZARET, M. M., CLEARY, S. F., PASTERNAK, B., EISENBUD, M., & SCHMIDT, H. (1963) Institute of Industrial Medicine, N. Y. Univ. Medical Center, Final Report (RADC-TDR-63-125), (AD 413294), 142 pages, "A study of lenticular imperfections in the eyes of a sample of microwave workers and a control population"
1859. ZARET, M. M., & EISENBUD, M. (1961) Proc. 4th Tri-Service Conf. on the Biological Effects of Microwave Radiation, Vol. 1, (Peyton, M. F., ed.) pp. 293-308, "Preliminary results of studies of the lenticular effects of microwaves among exposed personnel"
1860. ZARET, M. M., KAPLAN, I. T., & KAY, A. M. (1969) Proc. of the "Biological Effects and Health Implications of Microwave Radiation" Symposium, (Cleary, S. F., ed.) Bur. of Radiological Health, Division of Biological Effects, Rept. No. 70-2, pp. 82-84, "Clinical microwave cataracts"
1861. ZARET, M. M., MARTIN, C., & LYONS, W. (1965) Ref?, "Investigation of hazard due to exposure to microwave radiation fields encountered in Naval operations"
1863. ZARZHEVSKIY, S. YA., & KARELIN, O. N. (1966) Voenno Meditsinskiy Zh., (USSR Military Med. J.), (12):pp?, (ACSI J1642), "The methods of calculating the protective zones in radar station areas"
1864. ZDECKI, S. (1967) Lekarski Wojskowy (Poland) 43(2):124-129, (PTD HT-23-1500-67; ATD Abstr. 20(5)124; & AD 845280), "Examination and rating of the organ of vision of persons exposed to microwave radiation with particular attention to the lenses of the eye"
1865. ZELLER, E.A., WAKIM, K.G., HERRICK, J.F., BENEDICT, W., & DAILY, L. (1951), Amer. J. of Ophthalmology, 34(9):1301-1304, "Influence of microwave on certain enzyme systems in the lens of the eye."
2590. ZEMAN, G.H., CHAPUT, R., GLASER, Z.R., & GERSHMAN, L.C. (1973), Armed Forces Radiobiology Research Institute, Bethesda, Md., Tech. Note #TN 73-5, (June), (AD #769-299), "Gamma-aminobutyric acid metabolism in rats following microwave exposure."
3073. ZEMAN, G.H., CHAPUT, R.L., GLASER, Z.R., & GERSHMAN, L.C. (1973), J. of Microwave Power, 8(3/4):213-216, [absence of changes in], "Gamma Aminobutyric acid metabolism in rats following microwave exposure".
1866. ZENDLE, R., & GOODALE, E. E. (1959) Health Physics 2:78-80, "Some unusual x-radiation dosimetry problems associated with radar installations"
1867. ZENINA, I. N. (1964) Trudy Nii Gigiyena Truda i Profzabolevaniya AMN SSSR (2):26-32, (Abstr. in: The Biological Action of Radio Frequency Electromagnetic Fields, Institute of Industrial Hygiene and Occupational Diseases, Academy of Medical Science, Moscow, USSR), "The effect of pulsed SHF-UHF fields on the central nervous system during single and continuous radiation"
3074. ZERVINS, A. (1973), Amer. Industrial Hygiene Assoc. J., 34(3):120-127, (Mar.), "Chick embryo development in a 26 KHz electromagnetic field." ["The fertilized eggs developed normally in the EM field; the field did not affect the early differentiation of the organ systems; ...development, growth, and subsequent survival was within bounds of control group."]
1868. ZHUKHIN, V. A. (1938) Works of the Turkmens Med. Inst. 2(3-4):1-247, "Pathological and anatomical changes in certain animals under the general exposure to UHF electromagnetic fields"
1869. ZHUKHIN, V. A. (1967) Tr. Nauchno-issledovatel'skogo Inst. Fizich. Metodov Lecheniya, SSSR, (2) / "Pathomorphological changes occurring in the central nervous systems of animals exposed to ultrashort waves" PP.?,
3684. ZHURAKOVSKAYA, N.A. (1975), Gigiyena Naselelynykh Mest, (14):99-103, (in Russian), Transl. In: "Effects of Non-ionizing Electromagnetic Radiation" (JPRS #L/5615), 10 Feb. 1976, pp. 13-16, "Effect of low-intensity high frequency electromagnetic energy on the cardiovascular system."
3348. ZHURAVLEV, V.A. (1973), Voen. Med. Zh. (3):64-67, (In Russ.), "The combined effects of a superhigh frequency field and an unfavorable microclimate on the body", [rats exposed to 10 cm radiation at 5 mW/cm² for 1 hr/day then to 40°C incubator showed increased WBC and hemoglobin content, a decrease in the no. of animals producing progeny, and in the size of the litter, altered sex ratio (more males), and histological changes (myocardium, liver, and spleen), compared to the "heat-stressed-only" group].
2591. ZHURAVLEV, V.A., & SEVAST'YANOV, V.V. (1972), Voenno Meditsinskiy Zhurnal, (3):pps?, "Method of exposing animals to UHF".
1870. ZILITINKEVICH, S. I., BALOBEI, F. P., BOGDANOVA, E. K., IVANOV, P. P., & KUZNETSOV, YU. V. (1967) Biomedical Engineering 1(3):177-179, (Translation of Med. Tekh. 1(3):59-62, 1967, (In Russian)), "Measuring apparatus for biological and medical investigations in centimeter range of radio waves"
1871. ZIMMER, R. P., ECKER, H. A., & POPOVIC, V. P. (1971) IEEE Trans. on Microwave Theory and Techniques (Special Issue on Biological Effects of Microwaves) MTT-19(2):238-245, "Selective electromagnetic heating of tumors in animals in deep hypothermia"
2297. ZILKA, A. M., COMENIU, M., VOICU, A., STRATIAT, I., & BUCUR, I. (1967) Cercet. Balneol. Fiziol. 8:612-621, (AGC-80778), "Histochemical studies on some alterations of the animal organism under the action of microwaves"

1872. ZORE, V. A., KIMEL'FEL'D, O. D., SUZDALEVA, V. V., KOPYZEVA, L. P., & GENKINA, YE. S. (1967) *Biofizika* 12(1):124-126, (Abstr. ATD 15 (5/117); AP 7006956), "Complex dielectric permittivity of human blood serum in the 100-500 MHz range under normal conditions and during some diseases"
1873. ZUBENKO, P. M. (1940) Dnepropetrovsk Universitet. Institut. Fiziologii. Sbornik rabot, (3):63-, (Abstr. in: The Biological Effects of Electromagnetic Fields - Annotated Bibliography, ATD Rept. P-65-17 (Apr. 1965)), "Mechanism of the action of UHF on gas exchange"
1874. ZUBKOVA, S. M. (1967) Author's Abstract of Candidate's Dissertation, Moscow, "Reaction of Excitable System of Paramecia to Microwave Irradiation"
1875. ZUBKOVA, S. M. (1968) *Trans. of the Moscow Society of Naturalists* 28:130-136, "Effects of electromagnetic fields on the regulation of motor functions in paramecia"
3075. ZUBKOVA, S.M., & NIKONOVA, V.A. (1969), *Trudy CNII Kurortologii i Fizioterapii*, 14():34- ?, "Changes in the excitability of paramecia during chronic exposure to low-level microwaves".
3076. ZUBKOVA, S.M., & NIKONOVA, V.A. (1970), *Trudy Moskovskogo Obshchestva Ispytatelej Prirody*, 45():79- ?, "Study of the possibility of a regulatory effect of microwaves on the excitability of paramecia".
1876. ZUBKOVA-MIKHAYLOVA, ?, & ALEKSEYEV, YU. N. (1968) *Bulleten Eksperimental'noi Biologii i Meditsiny (Moskva)* (1):115-118, "The effect of electromagnetic oscillations in the radio frequency spectrum on neurosecretion of the hypothalamus and on endocrine glands"
(or *Isitolozia*)
2298. ZUFAROV, K. A., & SHKAIVALS, V. B. (1970) *Zytologia* 12(2):146-151, (In Russ.), "Reactions of the mitochondria of the liver of white mice to the action of electromagnetic fields" [Swelling, lysis, and appearance of giant cells, at 100 MHz]
3349. ZULLI, L.P. (1968), *J. of the Amer. Podiatry Assoc.*, 58(8): pp. ?, (Aug.), "Pulsed high frequency electromagnetic energy for adjunctive care of foot lesions".

ZYDECKI, S. (See ZDECKI, S.)

3077. ZYDECKI, S. (1972), *Klinika Oczna (Warsaw)*, 42(1A):411-415, (Abstr. in *Excerpta Medica (Occupat. Hygiene & Industr. Health Section)*, 3(3):141 only (Apr. 1973)), "Ophthalmologic certification of physical fitness to work in the range of microwave radiation".
2592. ZYSS, R., & BOCZYNSKI, W. (1972), *Otolaryngol. Pol.*, 26(4):398-406, (In Pol. with Engl. Summary), "Morphological changes in the cells of the organ of Corti following exposure to microwaves", [Developmental and morphological changes observed in the cells of the organ of Corti following exposure of Guinea pigs to 10 cm rad. at a level of 2 mw/cm² for 4 hrs/day over 25 or 50 days. Reported are: swelling or vacuolar degeneration of cytoplasm, pyknosis or swelling of nuclei, decreased content of glycogen and nucleic acid, and congestion and extravasations in the vascular stria. The authors suggest these changes have an influence on the decrease of bioelectric activity of the cochlea. The changes regressed within 30 days following cessation of the irradiation.]

UNSIGNED REPORTS AND ARTICLES

1877. Opening (and Closing) Speech made by the regent at the First Meeting of the S. I. R. B. (Sec. Internat. of Electro-Radio-Biology). Abstr. of the 1st Internat. Congress of Electro-Radio-Biology, Venice, (Cappelli, L., ed., Bologna, Italy), pp. 82-85, (1934) (English Translation)
1878. "Those most sensitive to electricity stand shock best", *Arch. of Physical Therapy* 16:625-626, (1935), (Abstr. in: *Science Newsletter*, date?)
1879. "Ultrashort waves in medicine and biology", *Proc. of the 1st Ukrainian Conf. on Shortwave Studies*, Kharkov, Gosmedizdat (1936)
1880. Problems of the Matrix and Dosimetry and Ultrahigh Frequency in Biology and Medicine, Moscow (1937)
1881. Materials of the Leningrad Conference on VHF-HF Waves, Leningrad, (1937)
1882. Proceedings of First All-Union Conference (of Physicians, Biologists, & Physiologists) on the Problems of the Use of short and Ultrashort Waves in Medicine, Medgiz, (Moscow), (1940)
1883. "Biological and Therapeutic effect of a magnetic field and strictly-periodical vibrations", Perm, Molotov (1948)
1884. "Radar and cataracts", *J. Amer. Medical Assoc.*, 150(5):528 (4 Oct. 1952), (Also, *Nuc. Sci. Abs.* 4:339 (1957))
1885. "Health hazards in microwave radiation", U. S. Military Air Transport Service Medical Information Letter, No. 113, pp. 10-12 (1953)
1886. "Council on Physical, Medical, and Rehabilitation Therapy: Illegal Operations of Medical Diathermy Equipment", *J. Amer. Medical Assoc.* 156:1583-, (1954)
1887. "Critique of the biological hazards of microwave radiation", Geo. Washington Univ., Washington, D. C., Rept. 36-21, (Nov. 1956)
1888. "Electromagnetic radiation hazards" (Classified) *Some Air Defense Center*, Proj. 4554, (Oct. 1956)
1889. "Biomedical aspects of microwave radiation", (Classified), School of Aviation Medicine, U. S. Air Force, Proj. 7783, (Mar. 1956)

1890. "Symposium on Physiologic and Pathologic Effects of Microwaves", Institute of Radio Engineers Trans. on Medical Electronics PGML-4, 52 pages, (Feb. 1956)
1891. "Radar death calls for caution", Electronics (Business Edition), p. 26, (20 June 1957)
1892. "Health hazards; Information on microwave radiation (including ionizing radiation from electronic equipment)", Environmental and Occupational Health Information Letter No. 5B; Headquarters Air Material Command, Wright-Patterson AF Base, Ohio, (Nov. 1957)
1893. Conference on Radio-Frequency Hazards; Minutes, Sponsored by Navy Dept., Bureau of Ships, Electronics Div. (Code 960), (Aug. 1957), (Also Minutes of 1958 Conf.)
1894. "Bibliography of microwaves and their biological effects", Prepared in cooperation with the Directorate of Technical Services, Rome Air Defense Center; Appendix E, p. 111-114, Proc. 1st Tri-Service Conf. on Biological Hazards of Microwave Radiation, (Pattishall, E. G., ed.) 1, (1957) (AF 1860011, AD 115603)
1895. "The biological effect of a SEP-CHF electromagnetic field, Trudy Voy. Med. Akad. i Kirov, USSR, Leningrad (1957)
1896. "Microwave (radar) health hazards; health precautions for prevention of", Bureau of Medicine and Surgery, Department of Navy, BUMED Notice 6260, (1958)
1897. "Radar radiation hazards", Electronics (Business Edition) 15-, (April 18, 1958)
1898. "Hazards of microwave electromagnetic radiation", New York Univ. College of Engineering, N. Y., (1958) 8 pages, (AD 624221; SETE-210-14)
1899. "Control of potential hazards to health from microwave energy", Army Regulation (A.R.) No. 40-583, (Sept. 1958), Superseded by Regulations of Sept. 1961)
1900. "Radio frequency hazards handbook", Bur. of Aeronautics of U. S. Air Force, T. O. 31-1-80, (Apr. 1958), (Revised Jan. 1959)
1901. "Hazards of microwave electromagnetic radiation", Report, N. Y. Univ. School of Eng. Sci. (AD 624221), (1958)
1902. "Health Hazards Information: Microwave radiation", U. S. Air Force Rept. APP 160-613, pp. 1-10, (May 1958)
1903. "New biological effects of E-F radiation", Electronics 32:35-39, (1959), (From Proc. of the 12th Annual Conf. on Electrical Tech. in Med. and Biology)
1904. "Investigator's Conference on Biological Effects of Electronic Radiating Equipments", Tech. Report on Proj. 5545, RADC-TR-59-67, 45 pages, (AD 214653), (Jan. 1959)
1905. "Biological, Clinical, and Research Aspects of the New Bio-Electrical Approach to the Treatment of the Whole Patient", The Abraham J. Ginsberg Foundation, Invitational Symposium, New York, (June 1959)
1906. "Medical considerations of exposure to microwaves (radar)", Medical News Letter (Navy) 34(7):35-40, (Oct. 1959)
1907. "Radar hazards", National Safety News, Data Sheet 481, (1959)
1908. "Blood coagulation changes due to electromagnetic microwave irradiations", Report, St. Louis Univ., (DA-36039, SC-78122), (AD 229267), (1959)
1909. "Labor hygiene and the biological effect of radio frequency electromagnetic waves, summaries of reports", Moscow (1959)
1910. Digest of Technical Papers of 12th Annual Conf. on "Electrical Techniques in Medicine and Biology", (Schwan, H. P., Chm.), Rome Air Development Center, N. Y., TR-59-227, (Sponsored by Institute of Radio Engineers, AIEE, and Instrument Soc. of America; Phila., Pa.), (Nov. 1959)
1911. "Biological effects of radio frequency radiation: bibliography", Prepared by Rome Air Development Center and Midwest Research Institute, Kansas City, Mo., (RADC TR 60205), (AD 244003), (1960)
1912. "How dangerous are microwaves?", British Medical J., pp. 1420-1421, (1960)
1913. Discussion on Ultrasonics and Microwave Radiation (at 3rd Internat. Conf. on Medicine & Electronics), Proc. of the Internat. Conf. on Med. Electronics in Medicine & Biol. Engineering 3:459-461, (1960);
1914. "Safety precautions relating to intense radio-frequency radiation", Her Majesty's Stationery Office, London (1960); Reprinted in: Radiation Control for Health and Safety Act of 1957 ("To provide for the protection of the public health from radiation emissions"), Hearings before the Committee on Commerce, United States Senate, 90th Congress, Second Session, Part 2, Serial No. 90-49, pp. 1571-1574, (May, 1958)
3350. "Hi-fi and living cells", Think. (Int. Bus. Mach.), pps. June 31-32, 1960, [unable to verify].
2299. "Important areas of electronic research; Compilation of statements by leaders in the field", (A. 253881), (1961).
1915. "Interim standard definitions of terms related to radio frequency radiation hazards", Prepared under Navy, Bureau of Ships, Contract with Midwest Research Institute, Contract No. N0BS-77142, (May 1961)
1916. "Electromagnetic radiation hazards", U. S. Air Force T. O. 31Z-10-4, (Oct. 1961), Superseded by: "Ground Electronics Engineering - Installation Agency Standard", Tech. Manual, (May 1957)

3078. Report of "near-fatalities...directly or indirectly attributed to microwave energy" (p.2), and as described on pages 30-34 of the General Electric Report, Light Military Electronics Dept., Utica, entitled "RADHAZ (RF radiation hazard) Instrumentation", Approx. date 1962.
1918. "Questions of the Biological Effect of a SHF-UHF Electromagnetic Field, Summaries of Reports", Kirov Order of Lenin Military Medical Academy, Leningrad (1962)
1919. Methods of Protection Against the Action of Electromagnetic Fields with the Use of High-Frequency Generators, Moscow, (1962) (In Russian)
1920. "Bulletin on health hazards due to radar and similar installations and their prevention", Dusseldorf, (1962), (In German)
1921. In: The Biological Action of Ultrahigh Frequencies, Letavet, A. A., & Gordon, Z. V., (Eds.), (JPRS 12471), (N62-11902), (Feb. 1962), "Recommendations for conducting preliminary and periodic medical examination of workers using UHF sources", pp. 123-125; "Sanitary regulations in work with generators of centimeter waves", pp. 126-130; "Instructions on the method of measuring the power flux density of UHF energy at working positions", Appendix, pp. 131-133; "Bibliography of biological effects of UHF", pp. 134-142
1922. "Microwave effects on the human body: bibliography", (AD/46950), (1962) [Not presently avail. from DDC; "withdrawn by controlling agency"]
1917. "Final report: on biological effects of R-F radiation on macromolecules", Melpar, Inc., Falls Church, Va., (AD 284373), (Aug. 1962)
1923. "The 'Hyfrecator' for electro-desiccation, fulguration, and coagulation", Symposium on Electrodesiccation and Bi-active Coagulation; The Birtcher Corp., Los Angeles, 32 pages, (1963)
1924. "Neurological responses to external electromagnetic energy (A critique of available data and hypotheses)", Compilation of Material Presented at the Conf. at the Brain Research Inst., UCLA, (Adey, W. R., Chm.), 101 pages, (July 1963)
1925. Abstracts of the Conference on "Industrial Hygiene and the Biological Action of Radio Frequency Electromagnetic Fields", Inst. of Indust. Hygiene and Occup. Diseases, Acad. of Med. Sci., Moscow, (1963) (In Russian),
1926. Protection Against the Action of Electromagnetic Fields and Electric Current in Industry, Leningrad, (1963) (In Russian),
3132. "'Wake-up waves' [RF] being used on bulbs", [exposed gladiolus sprout], Science News Letter, 84():25 only, July 13, 1963.
2300. "The biological action of radio frequency electromagnetic fields and magnetic fields: Summary report" of the Panel on Magnetic, Radio Frequency, and Other Field Effects. Environmental Biology Committee, Space Science Board, (1963-23561), (Oct. 1963)
1927. "Soviets design clothing to protect workers from the effects of electric fields", Technical Digest (Czech) (9):79-, (Sept. 1964)
1928. "Threshold limit values for toxic chemicals and certain electromagnetic radiation", U. S. Army Report (TB MED-265), (April 1964)
1929. "Some biochemical changes in workers exposed to centimeter waves", Trans. of Soviet Bloc Sci. and Tech. Lit. (ATDP 6495; AD 460106), (1964)
1930. "Biological Effect of Ultrasound and UHF Electromagnetic Waves", Kiev, (1964), (In Russian)
1931. The Biological Effects of Electromagnetic Fields - An Annotated Bibliography of Soviet-Bloc Literature, Aerospace Technology Division, Library of Congress, ATD Rept. P-65-17, 45 pages, (AD 460705), (April 1965) [by DODGE, C. R.]
1932. Biological Effects of Microwaves: Compilation of Abstracts, (Survey of Soviet Scientific & Tech. Lit.), Aerospace Technology Div., Library of Congress, ATD Rept. P-65-68, 98 pages, (AD 621648), (Sept. 1965) [by DODGE, C. R.]
1933. "Biomedical microwave research", "Aerospace Technology Division Press, Library of Congress, 4(43):pp.?, (August 1965)
1934. "Radiation hazards", California Public Health, (Berkeley), pp. 1-12, (1965)
1935. "A standard method of determining field intensity and irradiation by electromagnetic waves in the RF and UHF bands for health purposes, preventive medical examinations of personnel and possibly of persons exposed to such radiation", Decree of the Czechoslovak Surgeon General, (1965), (In Czech.)
1936. "Control of hazards to health from microwave radiation", U. S. Army/Air Force, TB-MED-270/AFM-161-7, (Dec. 1965)
1937. "Effects of R-F energy on biological macromolecules, II", by Melpar, Inc., Falls Church, Va., for U. S. Army, Edgewood Arsenal, Md., (AD 618472), (1965)
3079. "Radiation hazards from electronic equipment", Rept., Canadian Standards Association, CSA Standard Z65-1966, (1966).
1940. "Sanitary regulations in work with sources of MF-LF and VHF-HF electromagnetic fields" (USSR No. 615-66), (1966), 11 pages.
1942. "UHF electromagnetic fields change behavior", Radiation 90(20):389-412, (1966)
1943. "UHF changes behavior", Science News 90(20):394 only, (1966)
1944. "Dog tests increase microwave concern", Technology Week, pp. 33-34, (1966)
1939. "Technical manual for radio frequency radiation hazards", NAVSHIPS 0900-005-8000, Dept. of the Navy, Naval Ship Systems Command, (July 1966)

2052. "Electromagnetic waves speed up potato growth rate", *Glos Hybrzeza*, (Rumania), 4- (29 May 1966)
1941. "Safety level of electromagnetic radiation with respect to personnel", Report of U. S. of A. Standards Institute, Sponsored by U. S. Navy and Inst. of Electrical & Electronics Engineers, (USAS C95.1), (Nov. 1966); Also IEEE Trans. on Biomedical Engineering, BME-14(2):pp.?, (1967)
1938. "Ground electromagnetic interference and radiation hazards", Air Force Regulation AFR-100-6, (Supersedes AFR-66-19 of Oct. 1961), (Dec. 1966)
1949. "Report of shipboard electromagnetic radiation hazard measurements (aboard the USS DECATUR (DDG-31))", (U), (Classified), Naval Ship Systems Command, Dept. of the Navy, (March 1967).
1945. "Electronic (RF) safety", Abstr. from 'Safety Precautions for Shore Activities'; Dept. of the Navy, NAVSO P-2455, (June 1967)
1947. "Radiation hazards", Abstr. from: 'Electronics Installation and Maintenance Book', Dept. of the Navy, NAVSHIPS 0967-000-0106, (formerly 900,000.100), (June 1967)
1946. "Microwave equipment", Chapt. G, p. 25-, in: Electrical Safety Guides for Research; Safety and Fire Protection Technical Bulletin #13, (Div. of Operational Safety, U. S. Atomic Energy Commission), (Dec. 1967)
3080. "Soviet Radiobiology", Aerospace Technology Division, Library of Congress, Rept. ATD-68-105-108-9, (AD #671 436), 12 March 1968, [Contains a number of abstracts of repts on electric, magnetic, and RF-microwave studies].
2301. "Resolution of Radio-Frequency Hazards Problems", Chief of Naval Operations Instruction (OPNAVINST 5191.1B) of 24 Feb. 1968, ("To promulgate policy pertaining to the resolution of radio frequency hazard problems involving ordnance, personnel, and volatile materials, and to assign responsibilities in connection therewith")
1948. "The microwave oven - a benefit and a potential hazard", In Congressional Record - Senate, (8 July 1968), pp. 8231-8234
1950. "Radiation Control for Health and Safety Act of 1967" (to provide for the protection of the public health from radiation emissions), Hearings before the Committee on Commerce, U. S. Senate, 90th Congress, 2nd Sessions on S. 2067, S. 3211, and H.R. 10790, Part 1, 22, 29, 30 Aug. 1967; Part 2, 6-15 May 1968, Ser. No. 90-49; Government Printing Office (Referred to in this bibliography as "Senate Hearings 1967", (1968)
1951. "Evaluation of microwave radiation hazard measurement equipment and techniques", Georgia Institute of Technology Research Proposal submitted to: National Center for Radiological Health, Department of Health, Education, and Welfare, (Dec. 1968)
1952. "Effects of radar on the human body", (AD 278172), (1969)
1953. "Biological effects of low intensity radio-frequency radiations", (bibliography), Allied Research Associates, Inc., Concord, Mass. Rept. No. ARA-5366, 224 pages, (1969)
2098. "Non-ionizing radiation - an introduction", Non-ionizing Rad. 1(1):5-6, (1969)
3081. "Microwave radiation called growing hazard [to man]", *Electronic Design*, 14():p. 28 only, (Jul. 5, 1969).
1954. Report of Chief of Naval Research, Chief of Naval Development (CNR-CND) Technical Working Group on Biological Effects of Non-Ionizing Radiation, Department of the Navy, (Aug. 1969)
3082. "Radiation biology: [Information] gathered at the 'Symposium on the Biological Effects of Microwave Radiation' Sept., 1969, in Richmond, VA", *Science News*, 96():276 only, (27 Sept.).
3083. "R-f pollution: A rising concern", *Electronics*, Editorial Comment, p. 31 only, Dec. 8, 1969.
3084. "Electromagnetic radiation hazard study at Site 487L, Silver Creek, Nebraska", EMC/Measurements Engineering Section, Engineering Division, Central GEEIA Region, Tinker AFB, Oklahoma, 1969.
2048. "Microwave conference", Proc. of the European Microwave Conf. held in London Sept. 1969, 570 pages. (1969 European Microwave Conf., IEE Conf. Publication 58, Dept. S 100, Institute of Electrical Engineers, Savoy Place, London WC2R 0BL, England)
2053. "Electronic device for treating nervous system diseases", Nedelya, (Bulgaria), 7():8-, (5 Feb. 1967)
2051. "A low field electron spin resonance study of the effect of radiation in living animals", Final report on Project No. 05-1927-01, Contract No. DA-49-146-XZ-560, Defense Atomic Support Agency, Wash., D. C., DASA-1952, (AD 816130), (June 1967)
1961. "Safety procedures for RF and microwaves (equipment)", Abstr. of Stanford Univ., in: Electrical Safety Guide/Crossfeed, Naval Aviation Safety Newsletter, Dept. of the Navy, NAVELCOS P-35, (7), p. 2 only, (1970)
2594. "Industrial Heating: Putting power where it counts economically", Ref.?, [Discusses use of microwave power, with mention of control of radiation leakage, and emission control standard.], (1970?).
2595. "Survey of radiation levels generated by equipment used on EC-121 Aircraft, and clinical evaluation of selected crew members", U.S. Air Force Radiological Health Lab., (Wright-Patterson AFB) Tech. Rept. No. 70W-109, (1970).
2596. "The radar radiation hazard", Ref ?, pp. 77-78, (1970).
3086. "Microwave heating of human blood for massive transfusion", Items and Topics (Ohio Medical Products), 16():9-, (1970).
(Madison, Wisconsin)
1957. "Voltage and violets for the insane", *The World's Most Socialized Medicine (USSR)*, *Life (Magazine)* 68(2):42-43, (23 Jan. 1970)
1962. "Radarange (R) Microwave Oven Radiation Standards, Testing and Quality Control", Prepared for the 4th Annual Midyear Symposium of the Health Physics Soc., (Louisville, Ky., Jan. 1970), by Anana Refrigeration, Inc.
1963. "Microwave cooker hazards", *New Scientist* 45(628):293 only, (19 Feb. 1970)

2606. "Public Law No.153 of May 25, 1972", J. of Statutes, No.21, Polish Peoples Republic, Warsaw, (June 8, 1972), [Concerning the safety of workers using equipment which generates electromagnetic fields in the microwave range].
2607. "Can microwaves hurt?" Microwave, 11(7):33, (Jul. 1972).
2608. "Microwaves and Pacemakers — Just how well do they go together?", J. of the Amer. Medical Assoc., 221(9):957-959, (Aug. 28, 1972).
2609. "Anti-Sex Machines", Parade Magazine (in The Washington Post, P.7, Sunday, Oct. 8, 1972), [Report of impotency experienced by male employees in an Italian furniture plant that uses high frequency electromagnetic tools].
3092. "A housewife's dream [i.e., microwave oven] is sick man's [cardiac electronic pacemaker wearer] nightmare", The Wall Street Journal, ___():34 only, Nov. 8, 1972.
3685. "Microwave health hazard; control of," BUMED INSTRUCTION 6470.13, Dept. of the Navy, Bureau of Medicine & Surgery, 10 November 1972.
2610. "Microwave Health Hazard; control of", Bureau of Medicine and Surgery (BUMED), Dept. of the Navy, BUMED Instruction 6470.13 of 10 Nov. 1972. [To outline the potential health hazards associated with the use of microwave equipment, including radar; to specify maximum personnel exposure levels, to provide medical surveillance guidance, and to require reporting of microwave overexposure incidents].
2611. "Research and development sources sought on [biological and behavioral] effects of [CW and pulsed] radio waves", Commerce Business Daily, No.PSA-5712, p. 18 only, (Dec. 6, 1972).
2612. "Microwaves — A public menace?", Medical World News, 13(46):4-5, (Dec. 8, 1972).
2613. "Radio waves cut hearing loss", Research/Development, News Notes Section, 23(12):8 & 10, (Dec. 1972).
3100. "Cargo hook RF-burn prevention", Fathom: Surface Ship & Submarine Safety Review (Navy), p. 7 only, Fall 1973.
3101. "Health hazards through microwaves: Dangers for [electronic] heart pacemakers", Z. Allgemeinmed, 49():1299- ?, (In Ger.), 1973.
3102. "We want you to know about microwave oven radiation", Food & Drug Admn. Rept. DHEW Publication No. (FDA)73-8049, [including statement on 'radiation injuries']., 1973.
2615. "Microwave TV: Is a little too much?", Medical World News, 14(2):5-6, (Jan. 12, 1973).
2616. "Electric current sparks mammalian tissue regeneration", (Discusses work of BECKER, R.O. at the V.A. Hoop., Syracuse, N.Y., "Using electrical stimulation, he was able to get two types of human cells (stem cells and lymphocytes) to produce blastocytes, showing that regeneration is theoretically possible."), J. of the Amer. Med. Assoc., 223(5):483-484 & 494, (Jan. 29, 1973).
2618. "Program for control of electromagnetic pollution of the environment: The assessment of biological hazards of nonionizing electromagnetic radiation," Rept., Office of Telecommunications Policy, Executive Office of the President, 48 pps., (Mar. 1973).
3094. "Radiation Control for Health and Safety" Act of 1968 Hearings before the Committee on Commerce, U.S. Senate, 93rd Congress, 1st session on Public Law 90-602, Radiation Control for Health and Safety Act of 1968, held Mar. 8, 9, and 12, 1973 (U.S. Government Printing Office, Wash., DC, Serial No. 93-24).
2617. "Microwave oven safety", The Washington Post, Page ?, (Mar. 10, 1973).
2619. Electromagnetic News Report, Vol. 1, No. 1, March/April 1973, A bimonthly publication of R&B Enterprises (P. O. Box 328, Plymouth Meeting, Pa., 19462).
2620. "Microwaves", In: Lifeline, The Naval Safety Journal, 2(2):9 only, (Mar.-Apr. 1973). [An outline of the hazards from microwave equipment, as described in BUMED Instruction 6470.13 of 10 Nov. 1972 entitled "Microwave health hazards; control of", and a brief listing of safety precautions].
3095. "Techniques and instrumentation for the measurement of potentially hazardous electromagnetic radiation at microwave frequencies", American National Standard (American National Standards Inst., Inc., New York, NY), No. ANSI C95.3-1973, Apr. 20, 1973.
2621. "Microwave ovens: Not recommended. The popular models we tested leaked radiation at levels we can't be sure are harmless", Consumer Reports, 38(4):221-230, (Apr. 1973).
2622. "Biological effects, hazards, and medical uses of non-ionizing radiation", Short Course, Dept. of Mechanical Engineering, Massachusetts Institute of Technology, (June 25-29, 1973).
3686. Radiation Health Protection Manual, NAVMED P-5055, Dept. of the Navy, Bureau of Medicine & Surgery, 4 May 1973, and CHANGE TRANSMITTAL 1, "Personnel dosimetry requirements," 7 Feb. 1975, and CHANGE TRANSMITTAL 2, "Medical examinations," 19 June 1975.
3096. "The U.S. Navy is experimenting with electromagnetic radiation devices which, experts say, can disrupt operations of an enemy warship without damaging the vessel or injuring its crew", from the 'Wash. Whispers' column of U.S. News & World Report, ___():8 only, Aug. 20, 1973.
3097. [Voluntary] "Performance standard on leakage from industrial microwave systems", Internat. Microwave Power Institute (IMPI) Publication No. IS-1, August 1973.
3098. "What about microwave oven safety?", Advertisement of the General Electric Co. in Better Homes & Gardens, ___():116 only, September 1973.
3099. "Health hazards from exposure to microwaves", Report (No. EURO-3170) on an Evaluation Group convened (in Copenhagen, 22-23 Oct. 1973) by the Regional Office for Europe of the World Health Organization on 'Long-Term Programme in Environmental Pollution Control in Europe'.

2061. "And now, microwave pollution—An expose of the damage wrought to humans by radar, electronic ovens, and TV transmission;" In: Moneysworth Magazine (In: Issue to be published, Dec. 73), (110 West 40th Street, New York, NY 10018).
3361. "Effects of electromagnetic radiation" [on biological materials], In: Interference Technology Engineers' Master (ITEM) - [GOLDBLUM, R.D., (ed.)], Directory and Design Guide, (Pub. by R&B Enterprises, P.O. Box 128, Plymouth Meeting, PA 19462), pp. 130-132, 1974.
3687. "The Navy research program in nonionizing radiation," Rept. prepared by: Ad Hoc Committee on the Navy Nonionizing-Radiation Research Program, Committee on Naval Medical Research, Division of Medical Sciences, Assembly of Life Sciences, National Academy of Sciences-National Research Council; Supported by: Office of the Surgeon General, U.S. Dept. of the Army, Contract DADA17-69-C-9084; 44 pps., 1974.
3103. "Electric fields influence sleep", in the Research Trendletter section of Industrial Research, 16(1):15 only, Jan. 1974, [weak VHF fields, in air, at brainwave frequencies, 'may even effect...emotions and behavior through action on harmones'; at UCLA School of Med.].
3355. "Screening procedure [using transcutaneous electrical stimulation or dorsal column stimulation at radio frequency] relieves chronic pain", J. of the Amer. Med. Assoc., 223(9):968-969, (Feb. 26, 1973).
3356. "Microwave Oven Radiation Protection Program", (Effective March 1, 1974), U.S. Army Regulation No. AR-40-44, (Jan. 21, 1974).
3688. "BUMED radiation effects advisory board; appointment, functions, and responsibilities of," BUMED INSTRUCTION 6470.12A, Dept. of the Navy, Bureau of Medicine & Surgery, 28 March 1974.
3104. "Electromagnetism and bone repair", Science News, 105(18):287 only, May 4, 1974, [describes work of BASSETT, PAWLUK, & PILLAI].
3105. "Second report on 'Program for control of electromagnetic pollution of the environment: The assessment of biological hazards of non-ionizing electromagnetic radiation'", Office of Telecommunications Policy, May 1974.
3106. "Danger: Heavy waves", [concern for non-ionizing electromagnetic radiation bio-effects], Newsweek, p. 59 only, June 3, 1974.
3357. "Biological effects of electromagnetic radiation", BEEMR Digest, 1(1):40 pps., (A digest of current literature and a forum of communication produced quarterly for the U.S. Army Research Office by the Franklin Institute Research Labs. [Science Information Services], June 1974); Issue (2) dated Sept. 1974.
3358. "Changes in metabolism of nitrogenous substances in animal nerve tissue subjected to an electromagnetic field of ultrahigh frequency", Ukrain's'kyi Biokhimichnyy Zhurnal, (4):483-486, 1972, [Transl. in "Effect of nonionizing electromagnetic radiation", JPRS No. 62462, (July 1974), citation #3134, this Biblio., pps. 1-5].
3133. "Microwaves: Hazardous to your health?", Microwaves, 13(7):21 only, July, 1974.
3134. "Effect of non-ionizing electromagnetic radiation", Transl. of current Russ. language articles in the biological and medical sciences, JPRS #62462, 12 July 1974.
3135. "Radio waves: More harm than expected", Industrial Research, 16(8):34 only, August 1974.
3136. "Microwave emissions in the air: Are they a biological time bomb?", [brief rept. of the Rochester "Environmental Toxicity" Meeting, citation #3120, this Biblio.], Medical World News, ():22-23, August 2, 1974.
3360. "More radiation [microwave and laser] protection," [considered by British National Rad. Protection Board], Nature, 250():528 only, (Aug. 16, 1974).
3359. "How unseen microwaves are changing your life", U.S. News & World Report, pp. ? only, December 9, 1974.
3689. "Health hazards from exposure to microwaves," Health Physics, 28(1):69-73 (1975).
3690. "A summary of the ERMAC work session on nervous system and behavioral effects of nonionizing electromagnetic radiations," J. of Microwave Power, 10(2):127-140 (1975).
3691. "Compilation of Navy sponsored ELF biomedical and ecological research reports, Volume 1," Naval Medical Research and Development Command, Bethesda, MD, EMR Project Office, 747 pps. (AD #A015068 EMPRO-2-VOL-1), Feb. 1975.
3692. "Compilation of Navy sponsored ELF biomedical and ecological research reports, Volume 2," Naval Medical Research and Development Command, Bethesda, MD, EMR Project Office, 736 pps. (AD #A015069 EMPRO-2-VOL-2), Feb. 1975.
3693. Proceedings of the Fourth International Symposium on Electrosleep and Electroanesthesia, associated with the Eighth Conference of the Neuroelectric Society, held in Paris, France, March 18-24, 1975.
3694. "Third report on 'Program for control of electromagnetic pollution of the environment: The assessment of biological hazards of nonionizing electromagnetic radiation'," Office of Telecommunications Policy, Executive Office of the President (April 1975). [See citation #2618, this Biblio., for 1st Report, and #3105 for 2nd Report.]
3695. "Microwave ovens: Caution urged," The Washington [DC] Star, p. C-3, April 2, 1975.
3696. "Effects of Non-Ionizing Electromagnetic Radiation," Collection of Soviet reports (in Russian), (Transl. as JPRS #64532, 72 pps.), 11 April 1975.
3697. "Radiation Hazards," Advisory Group for Aerospace Research and Development (AGARD), Paris (France), Aug. 1975, Presented at a Lecture Series in the Netherlands, 22-23 Sept. 1975, Germany, 25-26 Sept. 1975, and Norway, 29-30 Sept. 1975 sponsored by the Aerospace Med. Panel, and the Consultant and Exchange Program of AGARD (Report #AGARD-LS-78), 149 pps.
3698. "Laser hazards and safety in the military environment," AGARD Lecture Series No. 79 (AGARD-LS-79), Sept. 1975.

3109. (Continued)

- CZERSKI, P., & PIOTROWSKI, M. "Principles for evaluation safety doses of electromagnetic radiation at the range of 300-300,000 MHz".
- EDELWEJN, Z. "Investigations on the effect of microwave radiation on the functional state of the central nervous system".
- GIDYNSKI, A. "Use of thin-layer metallic shields for eye protection [from HF electromagnetic radiation]".
- KOLAKOWSKI, Z.E. "Audiometric tone perception in people working in microwave fields at various power densities".
- KOLAKOWSKI, Z.E., KRYCH, J., ZYDECKI, S., & YARECKI, R. "Evaluation of the transparency of human lenses exposed to microwave radiation".
- KUCIA, H. "Activity of the Central Institute for Labor Protection in the protection against electrical hazards".
- KUCIA, H. "Principles for evaluation of safety doses of electromagnetic radiation in the range of 0,1-300 MHz".
- MANCZARSKI, S. "Early studies in Poland of the biological action of electromagnetic fields, and future perspectives".
- MIKOLAJCZYK, H. "Endocrine reactions and changes in endocrine glands under the influence of microwaves".
- MIKOLAJCZYK, H. "Results obtained and future plans for investigation into the biological effects of microwave radiation, in the Department of Physical Hazards of the Institute of Professional Medicine in Lodz".
- MIKOLAJCZYK, H. "Thermal effect of microwaves on the chromogenic reaction of adrenaline in neutral solution".
- SIEKIERZYNSKI, M. "The effect of microwaves on iron metabolism in rabbits".
- SIEKIERZYNSKI, M., DZIUK, E., & FORGALSKI, W. "Studies of the iron binding capacity in human serum following exposure to microwave radiation".
- SZUBSKI, A. "Measurement of dielectric penetration of fluid substances and biological fluids with the use of waveguide".
2628. Proceedings of "Third Annual Meeting of the Joint Services Ad Hoc Committee on Microwave Ocular Effects", APPLETON, B. (Chmn.), held at Airlie House, Warrenton, Va., (Jan. 6-7, 1972).
2629. Proceedings of the 7th Annual Microwave Power Symposium, Sponsored by the International Microwave Power Inst., Ottawa, Canada, (24-26 May 1972),
- Session 8 - "Biological Effects of Microwaves, I", OSEPCCHUK, J.M. (Chmn.):
- CARPENTER, R.L., FERRI, E.S., & HAGAN, G.J., pp. 143-144, "Lens opacities in eyes of rabbits following repeated daily irradiation at 2.45 GHz".
- EVERTS, J.M., HERMAN, W.A., COLVIN, M.C., PORTER, C.R., & PHILLIPS, C.R., pp. 139-142, "Cytogenetic effect of microwave radiation in Chinese hamsters".
- FREY, A.H., & FELD, S., pp. 130-138, "Perception and avoidance of illumination with low power RF electromagnetic energy".
- GUY, A.W., LIN, J.C., & HARRIS, F.A., pp. 120-129, "The effect of microwave radiation on evoked tactile and auditory CNS response in cats".
- HUNT, E.L., PHILLIPS, R.D., CASTRO, R.D., & KING, N.W., p. 119, "General activity of rats immediately following exposure to 2450 MHz microwaves".
- MICHAELSON, S.M., pp. 145-147, "The relevancy of experimental studies of microwave-induced cataracts to man".
- PHILLIPS, R.D., HUNT, E.L., & KING, N.W., p. 118, "Vital functions of rats after exposure to 2450 MHz microwaves".
- Session 10 - "Biological Effects of Microwaves, II", ROSENTHAL, S.W. (Chmn.):
- CARPENTER, R.L., FERRI, E.S., & HAGAN, G.J., pp. 196-197, "Perturbation of the microwave field by experimental animal and apparatus in biological research".
- FRAZER, J.W., MITCHELL, J.C., GASS, A.E., & HURT, W.D., pp. 167-168, "Exposure of biological specimens to high power HF band fields".
- FREY, A.H., & MESSENGER, R., pp. 169-177, "Psychophysical data on the RF hearing effect".
- GUY, A.W., & KORBEL, S.F., pp. 180-193, "Dosimetry studies on a UHF cavity exposure chamber for rodents".
- KRITIKOS, H., & SCHWAN, H., pp. 194-195, "The differential temperature rise at hot spots generated in lossy spheres by electromagnetic waves".
- RAJOTTE, R., VOSS, W.A.G., DOSSETOR, J.B., & STILLER, C.R., pp. 178-179, "Microwave defreezing of canine kidneys".

2630. Presentations made at the "Microwave Hazards Measurement and Dosimetry Workshop", held at Georgia Institute of Technology, Atlanta; Sponsored by Walter Reed Army Institute of Research and the Engineering Experiment Station of Georgia Tech., (1 & 2 June, 1972):

- BASSETT, H.L., & HUDDLESTON, G.K. (Engineering Experiment Station, Georgia Tech.), "Design of a microwave dosimeter".
- BOWMAN, R.R. (Nat'l Bureau of Standards), "Probes for measurements of electromagnetic fields".
- BURNS, C.P., & MAGIN, R.L. (Engineering Experiment Station, Georgia Tech.), "Potential medical and biological applications of electromagnetic radiation".
- GROVE, H.M. (Walter Reed Army Institute of Research), "An overview of the problem of microwave hazards measurement and dosimetry".
- GUY, A.W. (U. of Washington School of Medicine), "Infrared thermography in microwave/biological research".
- HIATT, R.E., & KNOTT, R.P. (U. of Michigan), "Use of RF magnetic probes for measurement of penetration of microwave energy in biological specimens".
- HOLLIS, J.S. (Scientific-Atlanta), "Pitfalls in electromagnetic field measurements".
- HOPFER, S. (General Microwave Corp.), "An ultrabroad band probe for RF radiation measurements".
- HUNT, E.L. (Battelle-Northwest Laboratories), "Absolute dosimetry for whole animal experiments".
- JUSTESEN, D.R. (Kansas City Veterans Administration Hospital), "Biodosimetry, [use of animal physiological or behavioral responses as indications of dose]".
- LARSEN, L.E. (Walter Reed Army Institute of Research), "Temperature and electro-physiological measurements in the presence of electromagnetic fields".
- MEYERS, B. (Hewlett-Packard Corp.), "Electromagnetic interference effects on medical instrumentation".

3712. Proceedings of the Symposium on Biological Effects of Natural Electric, Magnetic and Electromagnetic Fields (REITER, R., Chmn.), held during the 6th International Biometeorological Congress at Noordwijk, The Netherlands, 3-9 September 1972 (Published in Internat. J. of Biometeor., 17(3):245-308, (1973)).

- BACHMAN, C.H. (Syracuse U., NY), & REICHMANIS, M., "Barley leaf tip damage resulting from exposure to high electrical fields," pp. 243-251.
- BACHMAN, C.H. (Syracuse U., NY), & REICHMANIS, M., "Some effects of high electrical fields on barley growth," pp. 253-262.
- CALLOT, F., LECOEUR, J., & RIVOLIER, J. (Service Médical, Terres Australes et Antarctiques Française, Boulogne, France). (in French), "Study of a varying electrical field and its pathophysiological effects on the people wintering over in Kerguelen," pp. 233-238.
- GILBERT, G.O. (Pacific Lutheran U., Tacoma, WA), "Effect of negative air ions upon emotionality and brain serotonin levels in isolated rats," pp. 267-275.
- GOMERSALL, J.D. (U. of Sheffield, Whiteley Wood Clinic, England), & STUART, A., "Variations in migraine attacks with changes in weather conditions," pp. 285-299.
- HAUF, R. (Im Gärtle, Freiburg, Germany), & WIESINGER, J., "Biological effects of industrial electric and electromagnetic VLF fields," pp. 213-215.
- KITAGAWA, N. (Saitama U., Japan), KINOSHITA, K., & ISHIKAWA, T., "Discharge experiments using dummies and rabbits simulating lightning strokes on human bodies," pp. 239-241.
- KROGMAN, K.K. (Agriculture Canada Research Station, Lethbridge, Alberta, Canada), & HOBBS, E.H., "Evapotranspiration by beans during low-volume sprinkling," pp. 301-306.
- LOTT, J.R. (North Texas State U., Denton), & MCCAIN, H.B., "Some effects of continuous and pulsating electric fields on brain wave activity in rats," pp. 221-225.
- LUDWIG, H.W. (D-2000 Norderstedt 3, Postfach 1349, Germany), "Shielding effect of materials in the ULF, ELF, and VLF region," pp. 207-211.
- OLIVEREAU, J.M. (Université de Paris, France), (in French), "Influence of negative air ions on the adaptation of the male rat to an anxiety-producing situation," pp. 277-284.
- PERSINGER, M.A. (Laurentian U., Sudbury, Ontario, Canada), & OSSENKOPP, K.P. (U. of Manitoba, Winnipeg, Canada), "Some behavioral effects of pre- and neo-natal exposure to an ELF rotating magnetic field," pp. 217-220.
- PERSINGER, M.A. (Laurentian U., Sudbury, Ontario, Canada), "Possible cardiac driving by an external rotating magnetic field," pp. 263-266.
- REITER, R. (Institut für atmosphärische Umweltforschung der Fraunhofer-Gesellschaft), "Introductory remarks," pp. 205-206.
- WEVER, R. (Max-Planck-Institut für Verhaltensphysiologie, Germany), "Human circadian rhythms under the influence of weak electric fields, and the different aspects of these studies," pp. 227-232.

2634. (Continued)

Session 22. Symp. on Magnetics in Bioengineering (MAASS, J.A., Chmn.):

- BATTOCLETTI, J.H., SANCES, A., Jr., LARSON, S.J., & HALBACH, R.E. (Medical College of Wisconsin), and BOWMAN, R.L., & KUDRAVCEV, V. (NHLI, Bethesda, Md.), "NMR Detection of low magnetization levels in flowing fluids".
- COHEN, D. (Massachusetts Inst. of Technology), "Technique for measuring ferromagnetic contamination in the human body".
- DRILLER, J. (Riverside Research Inst., N.Y.), "Magnetic materials as biological implants — Criteria for selection".
- GRYNSZPAN, F. (COPPE, Brazil), "Relationship between the magnetocardiogram and the electrical activity of the heart".
- HORACEK, M. (Dalhousie Univ., Halifax, Nova Scotia, Can.), "A digital model for studies in magnetocardiography".
- NEWBOWER, R.S. (Harvard Anesthesia Center, Boston, Mass.), "Magnetic fluids in the blood".
- WEISMAN, I.D., BENNETT, L.H. (National Bureau of Standards), & MAXWELL, L.R., Sr. (Naval Ordnance Lab.), "In vivo NMR relaxation studies of tumors".

2635. Workshop on "Electromagnetic Pollution", McKAY, H.D. (Chmn.), Rockville, Md., Hosted by: Bureau of Radiological Health (FDA/HEW), Office of Rad. Programs (EPA), and Committee AE-4 on Electromagnetic Compatibility (SAE), (May 7-8, 1973).

3363. International Committee of Military Medicine and Pharmacy Conference, May 22-26, 1973, Bucharest, Romania; Sponsored by the Internat. Committee of Mil. Med. & Pharm. and the Union of Societies of Med. Science (relevant presentations):

OLTEANU, M. (S.R. of Romania), "Effects of microwaves on the human eye: Radar chorioretinopathy".

2636. Digest of Tech. Papers, 1973 IEEE G-MTT Internat. Microwave Symp. (MALEY, S.W., ed.), "Applications in the 70's", held in Boulder, Colo., (4-6 June 1973):

Session 11. Microwave Techniques in Biological Research (ALTSCHULER, H.M., Chmn.):

- BIGU DEL BLANCO, J., & ROMERO-SIERRA, C. (Queens University, Kingston, Ontario, Canada), & TANNER, J.A. (National Research Council of Canada, Ottawa, Can.), pp. 268-270, "Bird feathers as dielectric receptors of RF fields".
- HO, H.S., GINNS, E.I., & CHRISTMAN, C.L. (Bureau of Radiological Health, Rockville, Md.), pp. 255-256, "Environmentally controlled waveguide irradiation facility".
- KRAMAR, P., EMERY, A.F., GUY, A.W., & LIN, J.C. (Univ. of Washington, Seattle, Wash.), pp. 265-267, "Theoretical and experimental studies of microwave induced cataracts in rabbits".
- LARSEN, L.E. (Walter Reed Army Inst. of Res., Wash., D.C.), MOORE, R.A., & ACEVEDO, J. (Westinghouse Defense & Electronic Systems Center, Baltimore, Md.), pp. 262-264, "An RF decouples electrode for measurement of brain temperature during microwave exposure".
- LIN, J.C., JOHNSON, C.C., & GUY, A.W., (Univ. of Washington, Seattle, Wash.), pp. 257-259, "Power deposition in a spherical model of man exposed to 1-20 MHz EM fields".
- TRZASKA, H., (Tech. Univ. of Wroclaw, Poland), p. 254, "Geoelectric discontinuity detector".
- VETTER, R.J., ELLE, D.R., & ZIEMER, P.L. (Purdue University, West Lafayette, Ind.), pp. 260-261, "Application of nonthermal effects in high dielectric materials to microwave dosimetry".

Session 15. Biological Effects of Microwave Radiation, (MILLS, W.A., Chmn.):

- CHOU, C.K., & GUY, A.W. (Univ. of Washington, Seattle, Wash.), pp. 318-320, "Effect of 2450 MHz microwave fields on peripheral nerves".
- GUY, A.W., TAYLOR, E.M., ASHLEMAN, B., & LIN, J.C. (Univ. of Washington, Seattle, Wash.), pp. 321-323, "Microwave interaction with the auditory systems of humans and cats".
- HAIDT, S.J., & McTIGHE, A.J. (Bureau of Radiological Health, Rockville, Md.), pp. 324-325, "The effect of chronic, low-level microwave radiation on the testicles of mice".
- RABINOWITZ, J.R., (N.Y. Univ. Med. Ctr.), pp. 314-315, "Possible mechanisms for the biomolecular absorption of microwave radiation with functional implications".
- SCHMIDT, D.E., SCHMIDT, H.J., ROBISON, G.A., & WILSON, L.K. (Vanderbilt Univ., Nashville, Tenn.), pp. 326-327, "Microwave irradiation sacrifice: Application in neurochemical research".

(Continued)

Workshop: Biological Effects of Microwave Radiation, (ROSENTHAL, S.W., Moderator):

- GIAROLA, A.J., & KRUEGER, W.F. (Texas A&M Univ.), pp. 337-338, "Continuous exposure of chicks to electromagnetic fields".
- LIU, L.M., SKEWES, G.W., ROSENBAUM, F.J. (Washington Univ., St. Louis, Mo.), & LINDAUER, G.A. (Emerson Electric Co., St. Louis), pp. 333-334, "Further experiments seeking evidence of nonthermal biological effects of microwave radiation".
- LORDS, J.L., DURNEY, C.H., BORG, A., & TINNEY, C. (Univ. of Utah, Salt Lake City), pp. 335-336, "Bradycardia in isolated hearts induced by microwave irradiation".
- MICHAELSON, S.M. (Univ. of Rochester, N.Y.), & SCHWAN, H.P. (Univ. of Pennsylvania, Phila.), pp. 330-332, "Comparative aspects of radiofrequency and microwave biomedical research".
3364. Digest of Tech. Papers, 1973 IEEE G-MTT Internat. Microwave Symp. (MALEY, S.W., ed.), "Applications in the 70's", held in Boulder, Colorado, (June 4-6, 1973): (presentation inadvertently omitted from citation #2636, this Biblio.)
- TAYLOR, E.M., GUY, A.W., ASHLEMAN, B., & LIN, J.C. (U. of Washington, Seattle, WA), pp. 316-317, "Microwave effects on central nervous system attributed to thermal factors".
3365. First Prague Symposium on Rheumatology, June 13-15, 1973; Sponsored by the Czechoslovak Medical Society (relevant paper presented):
- SVARCOVA, J. "Treatment of joint diseases with microwaves".
3366. 18th Annual Meeting of Health Physics Society, Miami Beach, FL, June 17-21, 1973 (relevant presentation):
- TAYLOR, J. (USAEHA, Dept. of the Army, Aberdeen Proving Ground, MD), "Review of microwave standards".
2637. IEEE Internat. Symp. on Electromagnetic Compatibility, New York, N.Y., (relevant presentations), (June 20-22, 1973)
- Session 1B. "Electromagnetic Pulse (EMP)", (SHERMAN, R., Chmn.):
- DAHLEN, G., "A survey of Swedish electromagnetic pulse (EMP) research".
- Session 2B. "Biological Hazards from RF energy", (ROSENTHAL, S., Chmn.):
- BIGU DEL BLANCO, J., ROMERO-SIERRA, C., & TANNER, J.A., "Radio Frequency fields: A new ecological factor".
- KALL, A.R., "Studies of RF biological hazards from high power transmitters operating in the HF band".
- RASHID, A., "Mathematics of interaction between blood and electromagnetic fields".
- SCHMITT, O.H., & TUCKER, R.D., "Human perception of moderate — strength, low frequency magnetic field".
- Session 3B. "Radio Frequency Radiation Hazards to Ordnance EED'g", (SETH, C., Chmn.):
- CAINE, S., "Overview of the DoD electromagnetic hazards program".
- Session 4A, MILLER, D. (Chmn), SMYTH, N., FLINK, R., MITCHELL, J., MALIK, J., & FRAZIER, M., "EMC and the Pacemaker — A Panel Discussion".
3110. International Symposium on Dynamics and Controls in Physiological Systems; and, The American Physiological Society 24th Annual Fall Meeting, August 19-24, 1973, University of Rochester, Rochester, New York.
- APS Session 53. "Hyperbaria and Radiation" (MICHAELSON, S.M., Chmn.)
- HOUK, W.M., MICHAELSON, S.M., & LONGACRE, A. Jr. (University of Rochester, Rochester, NY), "Thermal regulation in Long-Evans rats exposed to 2450 MHz microwave radiation".
- PHILLIPS, R.D., HUNT, E.L., & KING, N.W. (Battelle Pacific Northwest Laboratories, Richland, WA), "Physiologic response of rats to hypothermia induced by exposure to 2450 MHz microwave radiation".
3367. International Genetics Society of America, "13th International Congress", August 20-29, 1973, Berkeley, California (relevant presentations):
- MITTLER, S. (Northern Illinois Univ., DeKalb), "Low frequency electromagnetic radiation and genetic aberrations in *Drosophila melanogaster*".
- COHEN, B.H. (Johns-Hopkins University School of Hygiene and Public Health, Baltimore, MD), "Paternal radiation; radar exposure and mongolism".

3368. Institute of Electrical & Electronics Engineers G-AP Internat. Symposium and USNC/URSI Meeting, Boulder, Colorado, August 21-24, 1973 (relevant presentations):

- BELDEN, L.H. "Diode probe for detection of microwave leakage".
- BOWMAN, R.R., & BELSHER, D.R. (National Bureau of Standards, Boulder), "Isotropic electric-field probes: Three new models".
- CHEN, K.M. (Michigan State U., E. Lansing), & HOOPINGARNER, T. "Cytological damage to chromosomes of living cells due to microwave radiation".
- CRAWFORD, M.L. (Nat'l Bureau of Standards, Boulder), "Generation of standard EM fields using TEM transmission cells".
- DURNEY, C.H. (U. of Utah, Salt Lake City), GROW, R.W., SORENSON, K.L., & URE, R.W., Jr. "A microwave cumulative radiation personnel dosimeter".
- ECKER, H.A., & CAIN, F.L. (Georgia Inst. of Technology, Atlanta), "Illumination systems for research on biological effects of electromagnetic radiation".
- GIAROLA, A.H., KRUEGER, W.F., BRADLEY, J.W., & SHREKENHAMER, A. (Texas A&M Univ., College Station), "Preliminary results of the effect of electromagnetic fields on fecundity in birds".
- GREENE, F.H. (Nat'l Bureau of Standards, Boulder), & FRAZER, J.W. (USAF School of Aerospace Medicine, Brooks AFB, TX), "Development and construction of an electromagnetic near-field synthesizer for the HF band".
- GUY, A.W. (U. of Washington, School of Medicine, Seattle), "Electromagnetic interactions with biological materials".
- HERMAN, W.A., & BASSEN, H.I. (Bureau of Radiological Health, Rockville, MD), "Microwave power density calibration utilizing the power equation concept".
- JOHNSON, C.C., & DURNEY, C.H. (U. of Utah, Salt Lake City), "A theoretical estimation of tissue anisotropy effects on electromagnetic power deposition (0.1 to 100 MHz)".
- OLSEN, R.G., JOHNSON, C.C. (U. of Utah, Salt Lake City), ROZZELL, T.C. (Office of Naval Research, Arlington, VA), DURNEY, C.H., & LORDS, J.L. (U. of Utah, Salt Lake City), "Microwave transparent temperature sensor".

3111. "Third Internat. Cong. of the International Radiation Protection Association (IRPA), Washington, D.C., Sept. 9-14, 1973.

Session 2A. "Non-Ionizing Radiation", (JAMMET, H. (France) Chmn.)

- CARPENTER, R.L., FERRI, E.S., & HAGAN, G.J. (Bureau of Radiological Health), "Pitfalls in the assessment of microwave radiation as a hazard".
- MICHAELSON, S.M. (Univ. of Rochester), "Biological effects and exposure standards for non-ionizing electromagnetic energies".
- SUESS, M.J. (World Health Organization), "The long-term programme on non-ionizing radiation protection of the World Health Organization, Regional Office for Europe".

Session 2A. Rapporteur Presentations, (CLEARY, S. (USA) Rapporteur)

- IIDA, H., & KOSHIZUMA, T. (Japan), "Public health and control of non-ionising radiation in Japan".
- LEITH, I.S. (Australia), "A calibration facility for microwave monitors; design and operating experience".
- LIBERMAN, A.N., BRONSHTEYN, I.E., OROBEY, V.V., SAKOVSKAYA, M.S., CHESNOKOVA, A.P., & SHUBIK, V.M. (USSR), "Combined effect of ionizing radiation and a superhigh-frequency field on the body".
- WUKASCH, M.C., & THIEL, J.F. (USA), "Progress in the reduction of microwave exposure from microwave ovens, used in commercial food vending operations".

Plenary Session. (VILLFORTH, J.C. (USA), Chmn.)

- JAMMET, H. (France), "Protection problems involved by non-ionizing radiation".

3112. International Microwave Power Institute (IMPI) "Symposium on Microwave Power", Sept. 10-13, Univ. of Technology, Loughborough, U.K.

Session 1B. "Biomedical Applications and Effects" (VOSS, W.A.G., Univ. of Alberta, Canada, Chmn.)

- ALMASSY, G., & MISIK, S. (TKI, Budapest, Hungary), "Determination of the properties of the bound water in biological samples by microwave methods".
- BAILLIE, H.D. (Ancoats & Crumpsall Hospitals, Manchester, UK), "A limited review of the recent biological effects of microwave radiation".
- FERRI, E.S., CARPENTER, R.L., & HAGAN, G.J. (Northeastern Radiological Health Laboratory, Winchester, MA), "Use of a dielectric lens in microwave irradiation of animal subjects".
- GRANT, E.H. (Queen Elizabeth College, London, UK), "Dielectric studies on biological materials near 1 GHz: Biophysical and medical implications".

(Continued)

Session 2A. "Microwave Heating Applications" (Relevant to this Biblio.), (TINGA, W.R., Univ. of Alberta, Canada, Chmn.)

KASHYAP, S.C., & LEWIS, J.E. (Univ. of New Brunswick, Fredericton, Can.), "Microwave processing of tree seeds", [for germination enhancement].

Session 2B. "Biomedical Effects I", (ROSENTHAL, S.W., Polytechnic Inst. of Brooklyn, NY, Chmn.)

CZERSKI, P., & PAPROCKA-SLONKA, E. (National Res. Inst. of Mother & Child, Warsaw, Poland), "Microwave irradiation and the circadian rhythm of bone marrow cell mitoses".

GINNS, E.I., RUGH, R., HO, H.S., LEACH, W., GILLESPIE, L., BUDD, R., & HAZZARD, D.D.G. (U.S. Dept. of Health Education & Welfare, Rockville, MD), "Microwave biological effects under reproducible dosimetric environmental conditions".

ROZZELL, T.C. (Office of Naval Research, Arlington, VA), JOHNSON, C.C., DURNEY, C.H., LORDS, J.L., & OLSEN, R.G. (Univ. of Utah, Salt Lake City), "A nonperturbing temperature sensor for measurements in electromagnetic fields".

TOLER, J.C. (Georgia Institute of Technology, Atlanta), "Accurate measurement of microwave fields for medical and biological applications".

Session 3A. "Microwaves In the Food Industry" (KENT, M., Torrey Res. Station, Aberdeen, UK, & DECAREAU, R.V., U.S. Army Natick Labs., Natick, MA, Chmn.)

ALEXANDER, D.W. (US Army Natick Labs.), "Process parameters for continuous microwave sterilization".

ARMBRUSTER, G., & ECROYD, L. (Cornell Univ., Ithaca, NY), "The use of pulsed heating periods in 915 MHz and 2450 MHz microwave cooking of meat".

MUDGETT, R.E., TO, E., WANG, D.I.C., & GOLDBLITH, S.A. (Massachusetts Inst. of Technology, Cambridge), & DECAREAU, R.V. (US Army Natick Labs, Natick, MA), "Dielectric measurements of food materials".

OHLSSON, T., & BENGTTSSON, N. (Swedish Institute for Food Preservation Res., Goteborg, Sweden), "Development of a Pilot-Plant microwave food sterilizer and results of preliminary experiments".

OHLSSON, T., BENGTTSSON, N. (Swedish Inst. for Food Preservation Res., Goteborg, Sweden), & RISMAN, P.O. (Husqvarna AB, Husqvarna, Sweden), "Dielectric data of foods at 915 MHz and 2.8 GHz as a function of temperature: A comparison".

RZEPECKA, M.A., & PEREIRA, R.R. (Univ. of Manitoba, Winnipeg, Can.), "Dielectric properties of dairy products at 2450 MHz".

Session 3B. "Biomedical Effects II", (RICKETTS, C.R., Medical Res. Council, UK; & MICHAELSON, S.M., Univ. of Rochester, N.Y., Chmn.)

BIGU del BLANCO, J., ROMERO-SIERRA, C. (Queen's Univ., Ontario, Can.), & TANNER, J.A. (National Res. Council, Ottawa, Can.), "Effect of microwave radiation on the nastic response of some sensitive plants".

LANGLEY, J.B., YEARGERS, E.K., SHEPPARD, A.P., & HUDDLESTON, G.K. (Georgia Inst. of Technology, Atlanta), "Effects of microwave radiation on enzymes".

LAWRENCE, J.C. (Medical Res. Council Unit, Birmingham, UK), "Effect of microwaves on isolated skin".

McAFEE, R.D., CAZENAVETTE, L.L., & HOLLAND, M.G. (University School of Medicine, New Orleans, LA), "Screening for cataracts".

MILROY, W.C., O'GRADY, T.C., & PRINCE, E.T. (Naval Weapons Laboratory, Dahlgren, VA), "Electromagnetic pulse radiation: A potential biological hazard?".

PHILLIPS, R.D., KING, N.W., HUNT, E.L. (Battelle Northwest Labs, Richland, WA), "Thermoregulatory, cardiovascular and metabolic response of rats to single or repeated exposures to 2450 MHz microwaves".

Session 4B. "Equipment Safety and Interference, (OSEPCHUK, J.M., Raytheon Company, Waltham, MA, Chmn.)

ASLAN, E. (Narda Microwave Corp., Plainview, NY), "A broad-band isotropic probe for microwave power density measurements".

McREE, D.I. (National Inst. of Environmental Health Sciences, Res. Triangle Park, NC), "Determination of energy absorption of microwave radiation using the cooling curve system".

MOBLEY, M.C. (Federal Communications Commission, Laurel, MD), "Revisions of Federal Communications Commission type-approval test procedures".

OSEPCHUK, J.M. (Raytheon Res. Division, Waltham, MA), FOERSTNER, R.A., & McCONNELL, D. (Amana Refrigeration, Inc., Amana, IA), "Computation of personnel exposure in microwave leakage fields and comparison with personnel exposure standards".

3118. (Continued)

ROHL, D., LAUN, H.M., HAUBER, M.E.T., VOIGT, H., & STAUNCH, M. (Univ. of Ulm & AEG-Telefunken Co., Ulm, Ger.), "Susceptibility of cardiac pacemakers to radar interference".

VAN de GRIEK, A., & BRITAIN, R.G. (U.S. Department of Health, Education, & Welfare, Rockville, MD), "Amendments to the US Department of Health, Education, and Welfare microwave oven performance standard".

Panel Discussion. "Biological Effects - Radiation Standards - Equipment Limitations", (GALLAGHER, J.C., Univ. of Bradford, UK, Chmn.).

3113. "Conference on Electrically Mediated Growth Mechanisms in Living Systems", The New York Academy of Sciences, Sept. 19-21, 1973, New York, (LIBOFF, A.R., & RINALDI, R.A., Conf. Chmn.).

Session I. "Biological Studies", (MINKIN, C., Univ. of Southern Calif., Los Angeles, CA, Chmn.)

BASSETT, C.A.L., PAWLUK, R.J., & PILLA, A.A. (Columbia Univ., NY), "Electrical effects in biological systems".

BECKER, R. (Veterans Administration Hospital, Syracuse, NY), "The basic biological data transmission and control system influenced by electrical forces".

BECKER, R., CONE, C.C., JAFFEE, L.F., PARSEGLIAN, V.A., POHL, H., & WEISS, L. "Panel Discussion: The role of electrical potential at the cellular level in growth and development".

BRICK, I., SHAEFFER, B., SHAEFFER, H., & GENNARO, J.F. (New York Univ.), "Electrokinetic properties and morphological characteristics of amphibian embryo gastrula cells".

BRIGHTON, C., & FRIEDENBERG, Z. (Univ. of Pennsylvania, Phila.), "Electrical stimulation and oxygen tension".

CONE, C.D. (Eastern Virginia Medical School, Hampton), "The role of the surface electrical transmembrane potential in normal and malignant mitogenesis".

ERIKSSON, C. (Karolinska Institutet, Stockholm, Sweden), "On electrically induced bone formation".

PREY, A.H. (Randomline, Inc., Willow Grove, PA), "Differential biological effects of pulsed vs. continuous electromagnetic fields of the same carrier frequency".

GENSLER, W. (Univ. of Arizona, Tucson), "Bioelectric potentials in higher plants and their relation to growth factors".

GUZELSU, A.N. (Scientific & Technical Res. Council), & AKCASU, A. (Univ. of Istanbul, Turkey), "A piezoelectric model for nerve conduction".

HARRINGTON, D.B. (New York Univ.), "Effects of small amounts of electric current at the cellular level".

JAFFEE, L.F., NUCCITELLI, R., & ROBINSON, K.R. (Purdue Univ., Lafayette, IN), "Transcellular currents, self-electrophoresis and cell development".

PARSEGLIAN, V.A. (National Inst. of Health, Bethesda, MD), "Changes in electrostatic potential expected from cell contact".

RINALDI, R.A., SHAMOS, M.H. (New York Univ.), & LAVINE, L. (S.U.N.Y. Downstate Medical Center, Brooklyn, NY), "Uptake of tritiated thymidine during electrical stimulation of living tissue".

ROMERO-SIERRA, C. (Queen's Univ., Kingston, Can.), & TANNER, J.A. (National Res. Council, Ottawa, Can.), "Biological effects of non-ionizing radiation: An outline of fundamental laws".

TANNER, J.A. (National Res. Council, Ottawa, Can.), & ROMERO-SIERRA, C. (Queen's Univ., Kingston, Can.), "Beneficial and harmful accelerated growth induced by the action of non-ionizing radiation".

TELFER, W., & WOODRUFF, R. (Univ. of Pennsylvania, Phila.), "Electrical potential and transport across inter-cellular bridges".

WEISS, L. (Roswell Park Memorial Inst., Buffalo, NY), "Electrical heterogeneity of cell surfaces".

Session II. "Physical and Chemical Studies", (ROSENBERG, B., Michigan State Univ., Chmn.)

ATHENSTAEDT, H.A. (Inst. of Physical Chemistry, Julich, W. Germany), "Pyro and piezoelectric properties of vertebrates".

BLACK, J. (Univ. of Pennsylvania, Phila.), "Strain related potentials in living bone".

DIGBY, P.S.B. (McGill Univ., Montreal, Can.), "Electric fields in calcifying tissue".

FUKADA, E. (Inst. of Physical & Chemical Res., Saitama, Japan), "Piezoelectric properties of organic polymers".

FUKADA, E., LANG, S.B., MASCARENHA, S., PILLA, A., SHAMOS, M.H., & STANLEY, H.E., "Panel Discussion: The electro-physical and electrochemical properties of living tissue".

(Continued)

3113. Session **II** (Continued)

- LANG, S.B. (Univ. of The Negev, Beersheba, Israel), SOREMI, E.A., & STIPANICH, N. (McGill Univ., Montreal, Can.), "Mass transfer of bone in vitro under the effect of applied stress".
- LIBOFF, A.R. (Oakland Univ., Rochester, Mich.), & FURST, M. (Hunter College, C.U.N.Y., New York), "Pyroelectric effect in collagenous structures".
- MASCARENHAS, S. (Inst. of Physics & Chemistry, San Carlos, Brazil), "The electret effect in bone and biopolymers and the bound water problem".
- MENEPEE, E. (U.S. Dept. of Agriculture, Berkeley, Calif.), "Charge separation associated with dipole disordering in protein".
- OSTROWSKI, K. (Medical School, Warsaw, Poland), "Electromagnetic phenomena of normal and pathological mineralized tissues".
- PILLA, A. (Electric Storage Battery Co., Yardley, Pa.), "Electrochemical phenomena at platinum junctions".
- ROYCE, B.S.H. (Princeton Univ., NJ), "Field induced transport mechanisms in hydroxyapatite".
- SHAMOS, M.H., RINALDI, R.A. (New York Univ.), & LAVINE, L. (S.U.N.Y. Downstate Medical Center, Brooklyn, NY), "Passive electric properties of tissue in vivo".
- STOCKEM, W., HABEREY, M., & BRAATZ-SCHADE, K. (Univ. of Bonn, W. Germany), "Electrophysiological studies of amoeboid movement".
- WILLIAMS, W., & BREGER, L. (Univ. of Illinois, Urbana), "Analysis of stress distribution and piezoelectric response in cantilever bending of bone and tendon".

Session III. "Clinical Studies", (RADIN, E.L., Harvard Univ., Cambridge, MA, Chmn.)

- BAKER, B., SPODARO, J.A., & MARINO, A. (S.U.N.Y. Upstate Medical Center, Syracuse, NY), "Electrical stimulation of articular cartilage regeneration".
- BASSETT, C.A.L., BECKER, R., BRIGHTON, C., FRIEDENBERG, Z.B., & LAVINE, L. "Panel Discussion: To what extent can electrical stimulation be used in treatment of human disorders?".
- FRIEDENBERG, Z.B., & BRIGHTON, C. (Univ. of Pennsylvania, Phila.), "Electrical fracture healing".
- HAMBURY, H.J. (Singleton & Morrison Hospitals, Swansea, UK), & WATSON, J. (Univ. College, Swansea), "Effect of microamp electrical currents on bone in vivo".
- KLAPPER, L., & STALLARD, R. (Boston Univ., MA), "Investigation into the mechanism of electrical stimulation of bone growth".
- LAVINE, L., LUSTRIN, I. (S.U.N.Y. Downstate Medical Center, Brooklyn, NY), SHAMOS, M.H., & RINALDI, R.A. (NY Univ.), "Electrical treatment of congenital pseudarthrosis".
- LEVY, D.D. (Hydron Labs, Inc., New Brunswick, NJ), "A pulsed stimulation electrical technique for inducing bone growth".
- NORTON, L.A. (Univ. of Kentucky, Lexington), "Bone growth in a controlled electric field".
- ORTIZ, J., CONNOLLY, J., BAYUZICK, R.J., & PRICE, R. (Vanderbilt Univ., Nashville, TN), "Effect of electrical stimulation on physical properties of healed fractures".
- ROWLEY, B.A., MCKENNA, J.M., CHASE, G.R., & WOOLCOTT, L.E. (Texas Tech. Univ., School of Medicine, Lubbock), "The influence of electric current on infecting microorganisms in wounds".
- SMITH, S.D. (Univ. of Kentucky, Lexington), "Electrically induced morphogenesis".
- YASUDA, I. (Kyoto Second Red Cross Hospital, Kyoto, Japan), "Mechanical callus and electrical callus".

3369. 26th Annual Conference on Engineering in Medicine and Biology; Sponsored by the Alliance for Engineering in Medicine and Biology, Minneapolis, Minnesota, September 30 - October 4, 1973 (relevant presentations):

- BIGU DEL PLANCO, J. (Queen's U., Kingston, Ont., Canada), "Active and passive properties of bird feathers: Their roles as piezoelectric transducers and as receptors of microwave radiation".
- SCHWAN, H.P. (U. of Pennsylvania, Philadelphia), "Selective heating, localized heating, and scaling theory".
- STACK, D.B. "Microwave sterilization of water".
- SUESS, M.J. (World Health Organization, Copenhagen, Denmark), "Overview of standards for safety from exposure to nonionizing radiation".

3115. Seventh Annual Winter Conference on Brain Research, held Jan. 19-26, 1974, in Steamboat Springs, Colorado, sponsored by Barrow Neurological Inst., Michigan State Univ., and the Univ. of California at L.A. (Relevant presentations)

Session 10. "The Effects of Low Intensity Microwaves Upon the Brain", (WACHTEL, H., Chmn.)

- BARNES, F.S. (Univ. of Colorado, Boulder), "Threshold effects of microwave radiation on embryo cell systems".
- GAMOW, I. (Univ. of Colorado, Boulder), "An analysis of a heat sensor via microwave stimulation".
- POSTOW, E. (Bureau of Medicine & Surgery (Navy), Washington, DC), "Two views of microwave effects on the CNS: East and West".
- WACHTEL, H. (Duke Univ., Durham, NC), "Immediate effects of low intensity microwaves on isolated neurons".

3116. San Diego Biomedical Symposium, "Innovations in Biomedicine", held Feb. 6-8, 1974, Mission Valley, San Diego, California, (Relevant presentations)

- EDRICH, J., & HARDEE, P.C. (Denver Res. Inst., CO), "Thermograms of the human body from millimeter wavelength signals".
- GIAROLA, A.J., KRUEGER, W.F., BRADLEY, J.W., & SHREKENHAM, A. (Texas A&M Univ., College Station), "Effect on fecundity in birds exposed to various electromagnetic fields".

3117. Conference on the Biological Effects of Non-Ionizing Radiation, Sponsored by the New York Academy of Sciences, Feb. 12-15, 1974, New York, (TYLER, P.E., Conf. Chmn.)

Introductory Remarks

- TYLER, P.E. (Bureau of Medicine & Surgery (Navy), Washington, DC), "Overview of electromagnetic radiation research: Past, present, and future".

Session I. "Electromagnetic Radiation Effect on the Nervous System", (ADEY, W.R., Chmn.)

- ALBERT, E.N. (G. Washington Univ. Medical Center, Washington, DC), & DeSANTIS, M.E. (Georgetown Univ. Medical & Dental School, Washington, DC), "Do microwaves alter nervous system structure?".
- BARANSKI, S., & EDELWEJN, Z. (Inst. of Aviation Medicine, Warsaw, Poland), "Experimental morphologic and electroencephalographic studies on microwave effects on the nervous system".
- BAWIN, S.M., GAVALAS-MEDICI, R., ADEY, W.R., & KACZMAREK, L. (Brain Res. Inst., UCLA, Los Angeles, CA), "Effects of modulated VHF fields on the central nervous system".
- GRODSKY, I.T. (Cleveland State Univ., OH), "Possible physical substrates for the interaction of electromagnetic fields with biological membranes".
- GUY, A.W. (Univ. of Washington, Seattle), "Microwave interactions with the auditory systems of humans and cats".
- LEBOVITZ, R.M. (Univ. of Texas, Dallas), "Detection of weak electromagnetic radiation by the mammalian vestibulo-cochlear complex".
- MALCOLM, J.E. (Central Med. Establishment, London, UK), "A new theory of the action of the organ of corti and of the cochlea".
- MICHAELSON, S.M., LU, S.-T., HOUK, W., LEBDA, N., & MAGIN, R. (Univ. of Rochester, NY), "Biochemical and neuroendocrine aspects of exposure to microwaves".
- SERVANTIE, B., SERVANTIE, A.-M., & ETIENNE, J. (ESSSAM-CERB/Hopital I.A. Sainte Anne, Toulon, France), "Synchronization of cortical neurons by a pulsed microwave field: Evidenced by spectrum analysis of electrocorticogram of the white rat".
- TAYLOR, E.M., ASHLEMAN, B.T., & GUY, A.W. (Univ. of Washington, Seattle), "Some effects of electromagnetic radiation on the brain and spinal cord of cats".
- WACHTEL, H., SEAMAN, R., & JOINES, W. (Duke Univ., Durham, NC), "The effects of microwaves on isolated neurons".

Session II. "Electromagnetic Radiation Effect on Special Senses", (DONALDSON, D.D., Chmn.)

- APPLETON, B., & HIRSCH, S. (Walter Reed Army Medical Center, Washington, DC), "Experimental microwave cataractogenesis".
- CARPENTER, R.L., FERRI, E.S., HAGAN, G.J. (Northeast Radiological Lab., Winchester, MA), "Some current studies on microwave ocular effects".
- KRAMAR, P. (Univ. of Washington, Seattle), "Theoretical and experimental studies of microwave cataracts in rabbits".

3117. Session II. (Continued)

McAFEE, R.D., CAZENAVETTE, L.L. (Veterans Admn. Hospital, New Orleans, LA), & HOLLAND, M.G. (Tulane Univ. School of Medicine, New Orleans), "Screening for cataracts".

WEITER, J.J., FINCH, E.D., SCHULTZ, W., & FRATTALI, V. (Naval Medical Res. Inst., Bethesda, MD), "Ascorbic acid changes in cultured rabbit lenses following microwave irradiation".

WILLIAMS, R.J., McKEE, A., & FINCH, L.D. (Naval Medical Res. Inst., Bethesda, MD), "Ultrastructural changes in the rabbit lens induced by microwave radiation".

Session III. "Biochemical and Biophysical Effects", (STRAUB, K.D., Chmn.)

ALLIS, J.W. (Nat'l Environmental Res. Center, Res. Triangle Park, NC), "Discussion Paper: The effects of cross-illumination".

CZERSKI, P. (National Res. Inst. of Mother & Child, Warsaw, Poland), "Microwave effects on the blood-forming system with particular reference to lymphocytes".

ELDER, J.A., & ALI, J.S. (Nat'l Environmental Res. Center, Res. Triangle Park, NC), "The effect of microwaves on isolated rat liver mitochondria".

FRAZER, J.W., RUPP, T., & MONTET, J. (USAF School of Aerospace Med., Brooks AFB, TX), "A comparison of thermal and RF exposure effects on trace metal content of blood plasma and liver cell fractions of rodents".

ROTKOVSKA, D., & VACEK, A. (Czechoslovak Academy of Sciences, Brno, Czech.), "The effect of electromagnetic radiation on the hematopoietic stem cells of mice".

STRAUB, K.D. (Univ. of Arkansas Med. School, Little Rock), "Effects on microsomal and mitochondria preparations".

SZMIGIELSKI, S. (Inst. of Aviation Medicine, Warsaw, Poland), & JELJASZEWICZ, J. (Nat'l Inst. of Hygiene, Warsaw, Poland), "Acute staphylococcal infections in animals irradiated with 3 GHz microwaves".

SZMIGIELSKI, S. (Inst. of Aviation Medicine, Warsaw, Poland), & LUCZAK, M. (Univ. Medical School, Warsaw, Poland), "Effect of microwaves (3 GHz) on cell function and virus replication in cell cultures irradiated in vitro".

YEARGERS, E.K. (Georgia Inst. of Technology, Atlanta), "Effects of microwaves on enzymes".

Session IV. "Electromagnetic Radiation Effects on Genetics and Development", (LEACH, W.M., Chmn.)

BLACKMAN, C.F., BENANE, S.G., WEIL, C.M., & ALI, J.S. (Nat'l Environmental Res. Center, Res. Triangle Park, NC), "Effects of non-ionizing electromagnetic radiation on single cell biological systems".

DIETZEL, F. (Wilhelm-Conrad-Rontgen-Klinik, Giessen, Fed. Republic of Germany), "Effects of electromagnetic radiation on implantation and intra-uterine development of the rat".

KRUEGER, W.F., GIAROLA, A.J., BRADLEY, J.W., & SHREKENHAMER, A. (Texas A&M Univ., College Station), "The effect of electromagnetic fields on fecundity in the chicken".

McREE, D.I., HAMRICK, P., ZINKL, J. (Nat'l Inst. of Environmental Health Sciences, Res. Triangle Park, NC), THAXTON, P., & PARKHURST, C. (North Carolina Univ., Raleigh), "Some effects of exposure of the coturnix quail embryo to 2.45 GHz microwave radiation".

PYLE, S., NICHOLS, D., GAMOW, E., & BARNES, F.S. (Univ. of Colorado, Boulder), "Threshold effects of microwave radiation on embryo cell systems".

WEBB, S.J. (Univ. of Saskatchewan, Saskatoon, Canada), "Genetic continuity and metabolic regulation as seen by the effects of various frequencies of microwaves on these phenomena".

Session V. "Behavioral Effects of Electromagnetic Radiation", (JUSTESEN, D.R., Chmn.)

FREY, A.H. (Randomline, Inc., Willow Grove, PA), "Neural function and behavior: Defining the relationship".

GALLOWAY, W.D. (Bureau of Radiological Health, Rockville, MD), "Microwave dose-response relations on two behavioral tasks".

HEEBELS, G.H. (Lab. of the Armed Forces, Oegstgeest, The Netherlands), ROBERTI, B., & WOLTHUIS, O.L. (Medical Biological Lab. (TNO), Rijswijk, The Netherlands), "Preliminary investigations of the influence of low-level microwave irradiation on the spontaneous motor activity of rats".

HUNT, E.L., KING, N.W., & PHILLIPS, R.D. (Battelle Pacific NW Labs., Richland, WA), "Behavioral effects of pulsed microwave irradiation".

THOMAS, J.R., FINCH, E.D., & FULK, D.W. (Naval Medical Res. Inst., Bethesda, MD), "Effects of microwave radiation on behavioral baselines".

Session VI. "Dosimetry of Electromagnetic Radiation", (BAIRD, R.C., Chmn.)

ALLEN, S.J. (USAF School of Aerospace Medicine, Brooks AFB, TX), "Measurement of power absorption by human phantoms immersed in radiofrequency fields".

BEISCHER, D.E., & RENO, V.R. (Naval Aerospace Medical Res. Lab., Pensacola, FL), "Microwave energy distribution measurements in the proximity of man and their practical application".

3117. Session VI. (Continued)

- BONMAN, R.R., & BELSHER, D.R. (Nat'l Bureau of Standards, Boulder, CO), "A discussion of three new models of isotropic electromagnetic hazard meters".
- GHANDI, O.P. (Univ. of Utah, Salt Lake City), "Discussion Paper: Polarization and frequency effects".
- HO, H.S. (Bureau of Radiological Health, Rockville, MD), "Contrast of dose distribution in phantom heads due to aperture and plane wave sources".
- HUDDLESTON, G.K. (Georgia Inst. of Technology, Atlanta), & McREE, D.I. (Nat'l Inst. of Environmental Health Sciences, Res. Triangle Park, NC), "A pyroelectric probe for measurement of microwave power density under far-field conditions".
- JOHNSON, C.C. (Univ. of Utah, Salt Lake City), "Discussion Paper: Fiberoptic liquid crystal probe for absorbed RF power measurement".
- PHILLIPS, R.D., HUNT, E.L., & KING, N.W. (Battelle Pacific NW Labs., Richland, WA), "Field measurements, absorbed dose, and biological dosimetry of microwaves".
- SWICORD, M.L., BASSEN, H. (Bureau of Radiological Health, Rockville, MD), & ABITA, J. (Johns Hopkins Applied Physics Lab., Silver Spring, MD), "A broadband, miniature electric field probe".

Panel Discussions

- CZERSKI, P., GUY, A.W., JUSTESEN, D.R., SERVANTIE, B., & STRAUB, K.D. "Future research directions and needs in biological electromagnetic radiation research".
- APPLETON, B., BARANSKI, S., BOWMAN, R.C., ELDER, R.L., MICHAELSON, S.M., SHORE, M.L. "Results of the Polish conference".

3118. Proceedings of Conference on "Biomedical Aspects of Non-ionizing Radiation", held 10 July 1973 in conjunction with the opening and dedication of the Biomedical Research Lab., U.S. Naval Weapons Laboratory, Dahlgren, VA, (MILROY, W.C., (ed.)), (NWL Tech. Rpt. TR-3110, Mar. 1974)

- BAUM, S.J., SKIDMORE, W.D., & EKSTROM, M.E. (Armed Forces Radiobiology Res. Inst., Bethesda, MD), "Continuous exposure of rodents to 10^8 pulses of electromagnetic radiation".
- DIACHENKO, J.A., ELLIS, R.L., LAWTON, L.E., MILROY, W.C., O'GRADY, T.C., & PRINCE, E.T. (Naval Weapons Laboratory, Dahlgren, VA), "Biomedical aspects of non-ionizing radiation: An overview of the NWL effort".
- MICHAELSON, S.M. (Univ. of Rochester, NY), "Comparative biology in assessment of electromagnetic bioeffects".
- RENO, V.R., & BEISCHER, D.E. (Naval Aerospace Med. Res. Lab., Pensacola, FL), "Microwave reflection, diffraction, and transmission by man".
- ROSE, M.F. (Naval Weapons Laboratory, Dahlgren, VA), "High power pulse transmitters".
- SCHWANN, H.P. (Univ. of Pennsylvania, Philadelphia), "Some guidelines for the development of EM radiation standards".
- TYLER, P.E. (Bureau of Medicine & Surgery, Washington, DC), "Where are we and where are we going?".

3370. Aerospace Medical Association 45th Annual Meeting, held in Washington, D.C., May 6-9, 1974 (relevant sessions):

Panel: "Aerospace Medical Implications of Non-Ionizing Radiation", (PICKERING, J.E., Moderator)

- APPLETON, B. (Walter Reed Army Med. Ctr., Washington, D.C.), "Ocular status of personnel occupationally exposed to microwaves", (not presented).
- BEISHER, D.E. (Naval Aerospace Med. Res. Lab., Pensacola, FL), "Results of human exposure to non-ionizing radiation"
- FRAZER, J.W. (U.S. Air Force School of Aerospace Med., Brooks AFB, TX), "Interactions of man and animals with radio-frequency fields".
- MITCHELL, J.C. (U.S. Air Force School of Aerospace Med., Brooks AFB, TX), "Special problems of general public exposure to RF radiation".
- PICKERING, J.E. (USAF School of Aerospace Med., Brooks AFB, TX), "Overview of the problem".
- TYLER, P.E. (Naval Med. R&D Command, Bethesda, MD), "U.S. and Eastern standards for exposure to electromagnetic radiation".

Session: "Electromagnetic Radiation", (FRIEDBERG, W., & BURNER, A.M., Co-Chan)

- GRISSETT, J.D. (Naval Aerospace Med. Res. Lab., Pensacola, FL), "Exposure of man to magnetic fields alternating at extremely low frequency".
- HOUK, W.M. (Naval Aerospace Med. Res. Lab., Pensacola, FL), "Metabolic and thermoregulatory responses to microwave radiation in young male rats".

3119. Ninth Annual Symposium on Microwave Power, Sponsored by the Internat. Microwave Power Inst., 28-31 May 1974, Marquette Univ. Milwaukee, Wisconsin, (BOSISIO, R.G., Tech. Prog. Chmn.), (Bio-medically relevant presentations)

Plenary Session. (OSEPCHUK, J.M., Chmn.)

NELSON, S.O., & STETSON, L.E. (Univ. of Nebraska, Lincoln), "Use of microwave and lower frequency RF energy for improving alfalfa seed germination".

Session B2. "Biological Effects of Microwaves", (BIGU DEL BLANCO, J., Chmn.)

ALBERT, E.N. (The G. Washington Univ., Washington, DC), & DeSANTIS, M.E. (Georgetown Univ., Washington, DC), "Histological alterations in central nervous system after microwave irradiation".

FANSLow, G.E., TOLLEFSON, J.J., & OWENS, J.C. (Iowa State Univ., Ames), "Ovicidal effects of electromagnetic energy at 2.45 GHz on eggs Diabrotica undercimpunctata howardi barber".

GANDHI, O.P. (Univ. of Utah, Salt Lake City), "A method of measuring RF absorption of whole animals and bodies of prolate spheroidal shapes".

GLASER, Z.R. (Bureau of Medicine & Surgery, Washington, DC), "Studies on the bio-medical effects of microwave radiation: Past, present, and future". (Invited paper)

KING, N.W., HUNT, E.L., & PHILLIPS, R.D. (Battelle Pacific NW Labs., Richland, WA), "Biological dosimetry of 2450 MHz microwave irradiation with mice".

LASZLO, T.S., & STEPHENS, W.K. (Philip Morris (USA) Res. Center, Richmond, VA), "The effect of microwaves on the tobacco beetle".

Session No. A3. "Medical and Biological Applications", (BAILLIE, H.D., Chmn.)

BIGU DEL BLANCO, J., ROMERO-SIERRA, C. (Queen's Univ., Kingston, Ont., Can.), & TANNER, J.A. (National Res. Council of Canada, Ottawa), "Colour-thermography: A powerful technique in the evaluation of microwave field radiation patterns in biological systems. Its use as a microwave energy density monitor".

CARTER, J.L., FLEISCHFRESSER, D.A., & ISHII, T.K. (Marquette Univ., Milwaukee, WI), "Microwave oven techniques for biological solids determination of wastewater samples".

LENOX, R.H. (Walter Reed Army Inst. of Res., Wash., DC), GANDHI, O.P. (Univ. of Utah, Salt Lake City), MEYERHOFF, J.L., & BROWN, P.V.K. (Walter Reed Army Inst. of Res.), "Modifications of in vivo rapid microwave inactivation of enzymes in the central nervous system".

THOUREL, L., PARAILLEUX, A., THOUREL, B., & AUGE, C. (Department d'Etudes et de Recherches en Micro-Ondes, Toulouse, France), "Microwaves specific effects on beer yeast".

Session No. B3. "Microwaves in the Food Industry", (DECAREAU, R.V., Chmn.)

STONE, W.R. (Raytheon Company, Waltham, MA), "Multi-energy source cooking device (oven) with programming means", [incorporating 915 and 2450 MHz microwave energy, infrared, and steam].

TO, E.C., GOLDBLITH, S.A., WANG, D.I.C., & DECAREAU, R.V. (Massachusetts Inst. of Technology, Cambridge), "Dielectric properties of food stuffs".

WATANABE, M. (Hitachi, Ltd.), SUZUKI, M. (Hokkaido Univ.), KIKUCHI, I. (Hitachi Heating Appliance Co.), FUKUI, Y. (Hitachi, Ltd.), & HIRAKAWA, K. (Bunmeido Ltd., Yokohama, Japan), "A means of detecting temperature of food in microwave electromagnetic field".

Session No. B5. "Microwave Applicators", (HAMID, M.A.K., Chmn.)

HAMID, M.A.K., MOSTOWY, N.J. (Univ. of Manitoba, Winnipeg, Can.), & BHARTIA, P. (Univ. of Saskatchewan, Regina, Can.), "Microwave bean roaster", ["to destroy the anti-trypsin enzyme (or growth inhibitor), thus facilitating safe nutritional consumption by humans and animals"].

3120. "Fundamental and Applied Aspects of Non-Ionizing Radiation", Seventh Rochester International Conference on Environmental Toxicity, June 5-7, 1974, Univ. of Rochester, Rochester, N.Y., (Proceeding to be pub. by Plenum Publishing Corp., N.Y., NY), (MICHAELSON, S.M., Conf. Chmn.).

Session I. "Biophysics & Dosimetry", (BEISCHER, D.E., Chmn.)

BABIJ, T.M. (Technical Univ. of Wroclaw, Poland), "Synthesis of frequency response of electric field probes".

BOWMAN, R.R. (Nat'l Bureau of Standards, Boulder, CO), "Dosimetry of electromagnetic Radiation".

DUNN, F. (Univ. of Illinois, Urbana), "Acoustic properties of biological materials".

SCHWAN, H.P. (Univ. of Pennsylvania, Philadelphia), "Dielectric properties of biological materials".

STEWART, H.F. (Bureau of Radiological Health, Rockville, MD), "Dosimetry of ultrasound".

(Continued)

Session II. "Energy Absorption", (HARDY, J.D., Chmn.)

BLIGH, J. (Inst. of Animal Physiology, Babraham, Cambridge, UK), "Physiological responses to heat".

LELE, P.P. (Massachusetts Inst. of Technology, Cambridge), "Ultrasonic heating of tissues".

PORTELA, A., et al. (National Council of Scientific & Technical Investigations, Buenos Aires, Argentina), "Transient effects of low-level microwave radiation on bioelectric properties of muscle".

Session III. "Microwaves — Biological Effects", (LOWY, K., Chmn.)

GUY, A.W., & LIN, J. (Univ. of Washington, Seattle), "Electrophysiological effects in animals".

LEHMANN, J.P. (Univ. of Washington, Seattle), "Therapeutic heat".

MICHAELSON, S.M. (Univ. of Rochester, New York), "Review of the biological effects of microwaves".

Session IV. "Ultrasound — Biological Effects", (CASARETT, G.W., Chmn.)

HILL, C.R. (Inst. of Cancer Res., Belmont, Sutton, Surrey, UK), "Effects of ultrasound on isolated cells and cell cultures".

NYBORG, W., GERSHOY, A., & MILLER, D. (The Univ. of Vermont, Burlington), "Effects of ultrasound on plant tissues".

SAVAGE, J.R.K. (MRC Radiobiology Unit, Harwell, Didcot, Berks, UK), "Are chromosomal aberrations reliable indicators of environmental hazards?".

TAYLOR, K.J.W. (The Royal Marsden Hospital, London, UK), "The biological effects of ultrasound on intact tissues".

Session V. "Medical Applications", (GRAMIAK, R., Chmn.)

HILL, C.R. (Inst. of Cancer Res., Belmont, Sutton, Surrey, UK), "Safety of ultrasound in diagnosis".

LELE, P.P. (Massachusetts Inst. of Technology, Cambridge), "Uses of ultrasound in surgery".

MITCHELL, J.C., HURT, W.D., & STEINER, T.O. (USAF School of Aerospace Med., Brooks AFB, TX), "EMR design effectiveness in electronic medical prosthetic devices".

Session VI. "Occupational Aspects", (TYLER, P.E., Chmn.)

CZERSKI, P., & SIKIERZYNSKI, M. (Nat'l Res. Inst. of Mother & Child, Warsaw, Poland), "Analysis of occupational exposure to microwave radiation".

ELY, T. (Eastman Kodak Company, Rochester, NY), "Control of occupational exposure to non-ionizing radiation".

ODLAND, L.T. (Wright-Patterson Air Force Base, Dayton, Ohio), "Military role in safe use of microwaves".

Session VII. "Future Applications and Controls", (TOMPKINS, E., Chmn.)

MAYNARD, O., & GLASER, P.E. (A.D. Little, Inc., Cambridge, MA), "Satellite solar power station: An option for large scale power generation on earth".

OSEPCHUK, J.M. (Raytheon Company, Waltham, MA), "Prospects for expansion of industrial and consumer uses of microwaves".

SUESS, M.J. (World Health Organization, Regional Office for Europe, Copenhagen, Denmark), "Overview of standards for safety from exposure to non-ionizing radiation".

(Presenters: underlined)

3121. "International Microwave Symposium, 1974 IEEE S-MIT", June 12-14, 1974, Georgia Inst. of Technology, Atlanta, Georgia, (Bio-Medically Related Presentations).

Special Session. "Technical Forecasting and Assessment"

GUARRERA, J.J. (Guide Scientific Inds., Sun Valley, CA), "Microwave sensors for military and civil use", (Invited).

SAAD, T.S. (Sage Labs., E. Natick, MA), "Microwave applications for material and food processing", (Invited).

(Continued)

Session 2: "Analysis and Application of Microwaves in Biology and Medicine", (ECKER, H.A., Chmn.)

- BIGU DEL BLANCO, J., ROMERO-SIERRA, C. (Queen's Univ., Kingston, Ont., Can.), & TANNER, J.A. (NRC of Canada, CSL, Ottawa), "Some theory and preliminary experiments on microwave radiometry of biological systems".
- BURNS, C.P., & BURDETTE, C.E. (Georgia Inst. of Technology, Atlanta), "Multi-frequency electromagnetic thawing of frozen kidneys".
- JOHNSON, C.C., DURNEY, C.H., & LORDS, J.L. (Univ. of Utah, Salt Lake City), "Liquid crystal fiberoptic temperature probe for the measurement of electromagnetic power absorption in tissue".
- JOHNSON, C.C., LORDS, J.L., & COOMBS, M.A. (Univ. of Utah, Salt Lake City), "Nerve stimulation by implanted diode".
- LIVESAY, D., & CHEN, K.-M. (Michigan State Univ., East Lansing), "Electromagnetic fields induced inside of biological bodies".
- NELSON, S.O. (Univ. of Nebraska, Lincoln), "Insect control possibilities using microwaves and lower frequency RF energy".
- OSEPCHUK, J.M. (Raytheon Co., Waltham, MA), "A survey of the potential for beneficial applications of microwaves in medicine and biology", (Invited).

Session 5. "Biological Effects of Microwaves", (GUY, A.W., Chmn.)

- CHRISTMAN, C.L., HO, H.S., & YARROW, S. (Bureau of Radiological Health, Rockville, MD), "A microwave dosimetry system for measuring sampled integral dose rate".
- COURTNEY, K., LIN, J.C., GUY, A.W., & CHOU, C.K. (Univ. of Washington School of Med., Seattle), "Microwave effect on rabbit superior cervical ganglion".
- CZERSKI, P. (Nat'l Inst. of Mother & Child, Warsaw, Poland), "Experimental models for the evaluation of microwave biological effects", (Invited).
- LIN, J.C., GUY, A.W., & CALDWELL, L.R. (Univ. of Washington Med. School, Seattle), "Behavioral changes of rats exposed to microwave radiation".
- LU, S.-T., BOGARDUS, R., COHEN, J., JONES, J., KINNEN, E., MICHAELSON, S., & MAGIN, R. (Univ. of Rochester, NY), "Thermogenetic and cariogynamic regulation in dogs cranially exposed to 2450 MHz (cw) microwaves".
- MICHAELSON, S.M. (Univ. of Rochester, NY), & SUESS, M.J. (World Health Organization, Regional Office for Europe, Copenhagen, Denmark), "An international program for microwave exposure protection".
- WEIL, C.M. (Environmental Protection Agency, Res. Triangle Park, NC), "Absorption characteristics of multi-layered sphere models exposed to UHF/microwave radiation".

(Presente: Underlined)

3122. Conference on Precision Electromagnetic Radiation Measurements, London, England, July 1-5, 1974.
- BASSEN, H. (Bureau of Radiological Health, Rockville, MD), "An optically-linked telemetry system for use with electromagnetic hazard probes".
3371. 19th Annual Meeting of the Health Physics Society, Houston, TX, July 7-11, 1974 (relevant presentation):
- HANKIN, N.N., TELL, R.A., & JANES, D.E. (U.S. Environmental Protection Agency, Silver Spring, MD), "Assessing the potential for exposure to hazardous levels of microwave radiation from high power sources".
3123. Fifth International Congress of Radiation [including non-ionizing] Research, Seattle, Washington, July 14-20, 1974.
- CUNITZ, R.J., GALLOWAY, W.D., & BERMAN, C.M. (Bureau of Radiological Health, Rockville, MD), "Behavioral suppression by 383 MHz radiation".
- ANDERSEN, F.A., & PAY, T.L. (Bureau of Radiological Health, Rockville, MD), "Survival of drosophila eggs exposed to microwave energy and to heat".
- EDWARDS, W.P., & HO, H.S. (Bureau of Radiological Health, Rockville, MD), "Microwave cavity irradiation dosimetry".
3372. "The Physics of Nonionizing Radiation"; summer school conference sponsored by the Amer. Assoc. of Physicists in Medicine, U. of Colorado, Boulder, July 21-26, 1974 (relevant presentations):
- BARNES, F.S. (U. of Colorado, Boulder), & CENKOVICH, F. "Clinical applications and bio-effects of microwaves".
- CHANEY, E.L. (U. of Colorado Medical Center, Denver), "Fundamental principles of microwaves".

3373. Conference on "Biological Effects, Hazards, and Medical Uses of Non-Ionizing Radiation", held at the Massachusetts Inst. of Technology, Cambridge, July 29 - August 2, 1974.

3374. "Earth Environment and Resources Conference (EERC)"; sponsored by the Institute of Electrical and Electronics Engineers, Philadelphia, PA, Sept. 12, 1974:

CORY, W.E., & FREDERICK, C.L. (Southwest Res. Inst., San Antonio, TX), "Environmental health effects caused by non-ionizing electromagnetic energy".

3375. National Academy of Science/National Research Council, 1974 Annual U.S. National Committee/International Union of Radio Science (USNC/URSI) Meeting, University of Colorado, Boulder, October 14-17, 1974:

Session #34 - URSI Commission I, Sess. 5 (ROSENTHAL, S.W., Chmn.)

BOWMAN, R.R. (National Bureau of Standards, Boulder), "Electromagnetic field measurements for bioeffects experiments and the control of potential hazards".

GUY, A.W. (University of Washington, Seattle), "Measurement of power absorbed in the tissues of man and animals exposed to electromagnetic fields".

DURNEY, C.H., JOHNSON, C.C., & MASSOUDI, H. (University of Utah, Salt Lake City), "Long wavelength analysis of plane-wave electromagnetic power absorption by a prolate spheroidal tissue body".

BARBER, P.W. (U. of Utah, Salt Lake City), "Electromagnetic fields in a homogeneous model of man".

3376. Meeting of the Electromagnetic Radiation Management Advisory Council (ERMAC), Executive Office of the President, Washington, D. C., October 31 - November 1, 1974:

Work Session on: "Nervous System and Behavioral Effects of Nonionizing EM Radiation".

GALLOWAY, D. (Bureau of Radiological Health, Rockville, MD)

BAWIN, S.M. (Brain Research Inst., UCLA, Los Angeles, CA)

FRASER, J., STAVINOHA, & MITCHELL, J. (USAF School of Aerospace Medicine, Brooks AFB, TX)

GUY, A.W., & LOVELY, R. (U. of Washington, Seattle)

HAWKINS, T.D. (Walter Reed Army Inst. for Res., Washington, DC)

THOMAS, J. (Naval Medical Res. Inst., Bethesda, MD)

JUSTESEN, D. (Veterans Admn. Hospital, Kansas City, MO)

HUNT, E.L. (Battelle Pacific NW Labs., Richland, WA)

FREY, A. (Randomline Inc., Huntington Valley, PA)

SEAMAN, R. (Duke University, Durham, NC)

ALBERT, E. (G. Washington University, Washington, DC)

3377. Neurosciences Research Program of the Mass. Inst. of Tech., Boston, Work Session on "Brain interactions with weak electric and magnetic fields", November 10-12, 1974.

3378. The University of New Orleans School of Engineering Short Course on "The Biological Effects of Microwave Radiation: Sense and Nonsense", New Orleans, LA, February 18-21, 1975:

SCHWAN, H.P. (U. of Pennsylvania), "Biological effects of microwave radiation".

MICHAELSON, S.M. (U. of Rochester, New York), "The Tri-Service Conferences: Basis of the presently accepted microwave radiation safety recommendations of the Armed Services", "A comparison of soviet and western microwave bioeffects research".

JUSTESEN, D.D. (Veterans' Administration Hospital, Kansas City, MO), "Behavioral effects of microwave radiation".

CARPENTER, R. (Bureau of Radiological Health NE Lab, Winchester, MA), "Cataractogenic effects of microwave radiation".

OSEPCHUCK, J. (The Raytheon Co., Waltham MA), "The 'microwave controversy': Congressional investigation and federal regulation".

3124. 1975 Microwave Power Symposium, sponsored by the International Microwave Power Institute, May 28-30, 1975, to be held at the Univ. of Waterloo, Ontario, Canada.

3713. Proceedings of the 1975 International IEEE/AP-S Symposium and URSI Meeting, University of Illinois, Urbana, 2-5 June 1975.

CHUNG, A. (Univ. of Maryland), & SWICORD, M.L. (Div. of Electronic Products, DHEW), "Development of electromagnetic modeling materials for X-band dosimetry studies."

KANTOR, G., SWICORD, M.L., & BLAIR, M.J. (Div. of Electronic Products, DHEW), "Heating patterns of enclosed and direct contact microwave diathermy applicators."

KELLOGG, R. (Univ. of Maryland), & NEUDER, S. (Div. of Electronic Products, DHEW), "A finite element method for calculating electromagnetic fields in complex geometries."

3714. North Atlantic Treaty Organisation/Advisory Group for Aerospace Research and Development (AGARD) Lecture Series No. 78 on "Radiation Hazards," presented in the Netherlands (22-23 Sept. 1975), Germany (25-26 Sept. 1975), and Norway (29-30 Sept. 1975). (In: AGARD-LS-78, August, 1975, 158 pps.)

- GUY, A.W. (U. of Washington School of Medicine, Seattle), "Biophysics—energy absorption and distribution," p. 4, 1-14.
- GUY, A.W. (U. of Washington School of Medicine, Seattle), "Engineering considerations and measurements," p. 9, 1-36.
- GUY, A.W. (U. of Washington School of Medicine, Seattle), "On EMP safety hazards," p. 11, 1-7.
- GUY, A.W., & CHOU, C-K. (U. of Washington School of Medicine, Seattle), "Microwave induced acoustic effects in mammalian auditory systems," p. 7, 1-17.
- HILL, C.R. (Royal Cancer Hospital, Sutton, Surrey, UK), "Biological effects of ultrasound," p. 8, 1-4.
- MICHAELSON, S.M. (U. of Rochester, Rochester, NY), "Biologic and pathophysiological effects of exposure to microwave or ultrasonic energy—an overview," p. 1, 1-2.
- MICHAELSON, S.M. (U. of Rochester, Rochester, NY), "Pathophysiological aspects of exposure to microwaves," p. 2, 1-7.
- MICHAELSON, S.M. (U. of Rochester, NY), "Endocrine and central nervous system effects of microwave exposure," p. 6, 1-8.
- MICHAELSON, S.M. (U. of Rochester, NY), "Protection guides and standards for microwave exposure," p. 12, 1-6.
- MITCHELL, J.C. (USAF School of Aerospace Medicine, Brooks AFB, TX), "Electromagnetic radiation: effects on the eye," p. 5, 1-6.
- MITCHELL, J.C. (USAF School of Aerospace Medicine, Brooks AFB, TX), "Electromagnetic interference of cardiac pacemakers," p. 10, 1-10.
- WELLS, P.N.T. (Bristol General Hospital, Bristol, UK), "Physical aspects—ultrasound," p. 3, 1-7.
- Bibliography, p. B, 1-22.

3715. Proceedings of the 5th European Microwave Conference, held 1-4 Sept. 1975 in Hamburg, Federal Republic of Germany.

Session B6—Medical/Biological Applications

- AGARWAL, R., HANNAH, S., HARTNAGEL, H., & KENNAIR, J.T. (U. of Newcastle upon Tyne, UK), "A pocket-sized monitor of dangerous microwave power levels."
- DEFICIS, A. (O.N.E.R.A.-C.E.R.T., Toulouse, France), "Use of dielectric microprobes for electromagnetic fields measurement."
- EDRICH, J. (U. of Denver, CO), "Microwave absorption of living human skin between 8 and 96 GHz."
- GRANT, E.H., SHEPPARD, R.J. (Queen Elizabeth College, London), & SOUTH, G.P. (Bradfield College, UK), "The importance of bound water studies in the determination of energy [absorption] by biological tissue."
- GUY, A.W., & LOVELY, R.H. (U. of Washington School of Medicine, Seattle), "A system for quantitative chronic exposure of a population of rodents to UHF fields."
- ROZZELL, T.C. (Office of Naval Research, Arlington, VA), "Measurement of temperature and microwave power using liquid crystal/optic fiber probes."

Session A3—Invited Papers

- CZERSKI, P., & SZMIGIELSKI, S. (Dept. of Human Genetics, National Research Inst. of Mother and Child, Warsaw, Poland), "Microwave bioeffects: Current status and concepts" (p. 348-357).

3716. Proceedings of the Eighteenth Navy Occupational Health Workshop, held October 6-10, 1975, San Diego, Calif.

- BAKER, ___, "Medical Aspects of ionizing and non-ionizing radiation."

3717. Proceedings of 1975 IEEE International Symposium on Electromagnetic Compatibility, San Antonio, TX, 7-9 Oct. 1975.

Session 2A - II. EMC and Spectrum Management in Electro-Optics; A Panel Discussion (AASEN, M.D., & ATKINSON, J.H. (co-chmn)).

- HAM, W.T., Jr. (Medical College of VA, Richmond), "Hazards: The effects of optical radiation on biological environments and materials."
- RICHARDS, W. (Naval Electronics Laboratory Center, San Diego, CA), "Standards: Systems, components, safety, etc."

(Continued)

Session 5B - II. EMC Related Bio-Instrumentation (MITCHELL, J.C., Chmn.).

BASSEN, H.I. (Bureau of Radiological Health, Rockville, MD), "A broadband miniature, isotropic electric field measurement system."

BRONAUGH, E.L., & KERNS, D.R. (Southwest Research Institute, San Antonio, TX), "Calibration of a multimode microwave exposure chamber."

HOFF, R.J. (McDonnell Douglas Astronautics Co., St. Louis, MO), "EMC measurements in hospitals."

RUGGERA, P.S. (Bureau of Radiological Health, FDA, Rockville, MD), "Radiofrequency E-field measurements within a hospital environment."

TOLER, J.C. (Georgia Institute of Technology, Atlanta), "Electromagnetic interference levels in hospitals."

3718. National Academy of Science/National Research Council, 1975 Annual U.S. National Committee/International Union of Radio Science (USNC/URSI) Meeting, University of Colorado, Boulder, October 20-23, 1975: (Relevant Presentations)

Session B-1a: Auditory Effects (FREY, A.H., Chmn.)

CAIN, C.A., & RISSMANN, W.J. (U. of Illinois, Urbana), "Microwave hearing in mammals at 3.0 GHz."

CHOU, C.K., GUY, A.W. (U. of Washington School of Medicine, Seattle), & GALAMBOS, R. (U. of California, San Diego, CA), "Microwave-induced auditory response—cochlear microphonics."

EICHERT, E.S., & FREY, A.H. (Randomline, Inc., Huntingdon Valley, PA), "RF sound: possible mechanisms as defined by recent research." (withdrawn)

JOHNSON, R.B., MEYERS, D., GUY, A.W., LOVELY, R.H. (U. of Washington, Seattle), & GALAMBOS, R. (U. of California, San Diego, CA), "Discriminative control of appetitive behavior by pulsed microwave radiation in rats."

LIN, J.C., & LAM, C-K. (Wayne State U., Detroit, MI), "A theoretical study of microwave-generated auditory phenomena in mammalian cranial structures."

Session B-1b: Microwave Cataractogenesis (ROSENTHAL, S., Chmn.)

AL-BADWAIHY, K.A., & YOUSSEF, A-B. (Cairo U., Egypt), "Biological thermal effect of microwave radiation on human eyes." (not given)

BIRENBAUM, L. (Polytechnic Institute of New York, Brooklyn), KAPLAN, I.T. (Zaret Foundation, CUNY, New York), METLAY, W. (Hofstra U., Hempstead, NY), ROSENTHAL, S.W. (Polytechnic Institute of New York, Farmingdale), & ZARET, M.M. (Zaret Foundation, Scarsdale, NY), "Effects of 35 and 107 GHz CW microwaves on the rabbit eye."

KRAMAR, P., HARRIS, C., GUY, A.W., & EMERY, A. (U. of Washington School of Medicine, Seattle), "Mechanism of microwave cataractogenesis in rabbits."

RABINOWITZ, J.R. (New York U. Medical Center, New York), "The effect of cataractogenic doses of microwave radiation on lenticular transport."

Combined Session: (RICHARDSON, J.M., Chmn.)

JUSTESEN, D.R. (V.A. Hospital, Kansas City, MO), "A rose by another name is a cabbage."

Session B-2a: Therapeutic Applications (LEHMANN, J.F., Chmn.)

AL-BADWAIHY, K.A., & YOUSSEF, A-B.A. (Cairo Univ., Egypt), "Steady state temperature profiles in microwave diathermy" [paper not presented].

GORDON, G.A., LIVINGSTON, G., & DETHLEFSEN, L.A. (Univ. of Utah, Salt Lake City), "Microwave-induced hyperthermia and radiation sensitivity of mouse intestine."

GUY, A.W., McDOUGALL, J.A., & WEBB, M.D. (Univ. of Washington, Seattle), "Shortwave diathermy applicators."

KANTOR, G., BASSEN, H., & SWICORD, M. (BRH, Rockville, MD), "Mapping of free space and scattered fields in microwave diathermy."

LEHMANN, J.F., GUY, A.W., & STONEBRIDGE, J.B. (Univ. of Washington, Seattle), "Physiologic design criteria for therapeutic applicators operating at 915 MHz."

WEST, B., & REGELSON, W. (M.C.V./V.C.U., Richmond, VA), "Biologic effects of pulsed high frequency electromagnetic radiation" [using a Diapulse Machine].

Session B-2b: Diagnostic Applications (JOHNSON, C.C., Chmn.)

LANDT, J.A. (U. of California, Los Alamos, NM), "Antenna design for a passive temperature monitoring and identification system for livestock."

PEDERSEN, P.C., JOHNSON, C.C., DURNEY, C.H., & BRAGG, D.G. (U. of Utah, Salt Lake City), "Microwave radiation as a diagnostic tool."

SPELMAN, F.A., KINDT, C.W., BOWDEN, D.M., SACKETT, G.P., SPILLANE, J.E. (Regional Primate Research Center at the U. of Washington, Seattle), & BLATTMAN, D.A. (RACON, Inc., Seattle), "Remote measurement of respiration in infant primates using an X-band doppler radar."

3718. (Continued)

Session B-3: Field Survey Instruments (BOWMAN, R., Chmn.)

- ASLAN, E. (Narda Microwave, Plainview, NY), "A low frequency H-field radiation monitor."
- BASSEN, H., & PETERSON, R. (BRH, Rockville, MD), "Complete measurement of hazardous electromagnetic fields with electro optical crystals."
- CONOVER, D.L., PARR, W.H., SENSINTAFFAR, E.L., & MURRAY, W.E., Jr. (NIOSH, Cincinnati, OH), "Measurement of electric and magnetic field strengths from industrial radiofrequency (10-40 MHz) power sources."
- RUGGERA, P.S. (BRH, Rockville, MD), "E- and H-field instrumentation and calibration below 500 MHz."
- SWICORD, M.L., BASSEN, H.I., HERMAN, W.A., DUFF, J.E., & BING, J.R. (FDA, Rockville, MD), "Methods and instrumentation for the evaluation and calibration of microwave survey instruments."
- SWICORD, M.L. (FDA, Rockville, MD), & CHEUNG, A.Y. (U. of Maryland, College Park), "Mutual coupling between linear antennas."
- TRZASKA, H. (Technical U. of Wroclaw, Wroclaw, Poland), "Magnetic field standard at frequencies above 30 MHz."

Session B-4: Cellular and Mutagenetic Effects (McREE, D., Chmn.)

- BLACKMAN, C.F., SURLES, M.C., & BENANE, S.G. (EPA, Research Triangle Park, NC), "The effect of microwave exposure on bacteria: mutation induction."
- ELDER, J.A., ALI, J.S., & LONG, M.D. (EPA, Research Triangle Park, NC), "Respiratory activity of mitochondria exposed in a coaxial airline to 2000-4000 MHz microwave radiation."
- FRAZER, J.W. (USAF School of Aerospace Medicine, Brooks AFB, TX), "A summary of cell and tissue level events produced by RF fields predicted from consideration of regional hyperthermia."
- HSIEH, S.T., & SETO, Y.J. (Tulane U., New Orleans, LA), "Microwave perturbation on cellular enzymatic reactions."
- LIN, J.C., & CHEN, K.C. (Wayne State U., Detroit, MI), "Effects of microwave radiation on mammalian cells *in vitro*."
- SMIALOWICZ, R.J. (EPA, Research Triangle Park, NC), "The effect of microwaves (2450 MHz) on lymphocyte blast transformation *in vitro*."
- VARMA, M.M., DAGE, E.L., & JOSHI, R. (Howard U., Washington DC), "Mutagenicity induced by non-ionizing radiation in Swiss male mice."
- VARMA, M.M., & TRABULAY, E.A., Jr. (Howard U., Washington, DC), "Evaluation of dominant lethal test and DNA studies in measuring mutagenicity caused by non-ionizing radiation."

Session B-5: Exposure Systems (SHORE, M., Chmn.)

- GRAF, E.R., BURKS, D.G. (Auburn U., AL), & COLE, F.E. (Ochsner Medical Foundation, New Orleans, LA), "A unique electromagnetic environmental simulator."
- GUY, A.W., CHOU, C.K., & LOVELY, R.H. (U. of Washington School of Medicine, Seattle), "Chronic exposure of a rat population by circularly polarized guided waves."
- HO, H.S., FOSTER, M.R., & SWICORD, M.L. (Bureau of Radiological Health, Rockville, MD), "Microwave irradiation apparatus design and dosimetry."
- HOUK, W.M., GRISSETT, J.D., & LONGACRE, A., Jr. (Naval Aerospace Medical Research Laboratory, Pensacola, FL and U. of New Orleans, New Orleans, LA), "Considerations of chamber design, environmental control, and microwave field interactions in small animal experimentation."
- LEICHER-PREKA, A. (Inst. Physiol. Biochem. Med. Fac., Sarajevo, Yugoslavia), & HO, H.S. (BRH, Rockville, MD), "Dependence of total and distributed absorbed microwave energy upon size, shape, and orientation of rat phantoms in waveguide."
- LOTZ, W.G., & MICHAELSON, S.M. (U. of Rochester, Rochester, NY), "Adrenocortical response in rats exposed to microwaves."
- RENO, V.R., & deLORGE, J.O. (Naval Aerospace Medical Research Laboratory, Pensacola, FL), "Field measurements for a series of behavioral studies."

Session B-6a: Behavioral Effects (Low Level Exposure), (JUSTESEN, D., Chmn.)

- CLEARY, S.F. (Virginia Commonwealth U., Richmond), "The effects of 1.7 and 2.45 GHz microwaves on drug-induced sleeping time in the rabbit."
- GILLARD, J., SERVANTIE, B., BERTHARION, G., SERVANTIE, A.M., OBRENOVITCH, J., & PERRIN, J.C. (Hopital d'Instruction des Armées Sainte-Anne, Toulon Naval, France), "Study of the microwave-induced perturbations of the behaviour by the open-field test into the white rat." [read by S. Rosenthal]
- HUNT, E.L. (Walter Reed Army Institute of Research, Washington, DC), KING, N.W., LOVELY, R.H. (U. of Washington, Seattle), & PHILLIPS, R.D. (Battelle Pacific Laboratory, Richland, WA), "'Avoidance' by rats of a 2.88 GHz pulse microwave field."

(Continued)

MANTHEI, R.C., & GLASER, Z.R. (Naval Surface Weapons Center, Dahlgren, VA), "Alterations in the sleep process of the rabbit as a function of chronic low intensity electromagnetic radiation exposure."

THOMAS, J.R., YEANDLE, S.S., & BURCH, L.S. (Naval Medical Research Institute, Bethesda, MD), "Modification of internal discriminative stimulus control of behavior by low levels of pulsed microwave radiation."
[not presented]

Session B-6b: Behavioral Effects (High Level Exposure), (HUNT, E., Chmn.)

D'ANDREA, J.A., GANDHI, O.P., & KESNER, R.P. (U. of Utah, Salt Lake City), "Behavioral effects of resonant electromagnetic power absorption in rats."

deLORGE, J.O. (Naval Aerospace Medical Research Laboratory, Pensacola, FL), "The effects of microwave radiation on behavior and temperature in Rhesus monkeys."

McAFEE, R.D., ELDER, S.T., LIPSCOMB, T.J., MAY, J.G., & HOLLAND, M.G. (Veterans Administration Hospital, New Orleans, LA), "Microwave and infrared radiation effects on an operant response in Rhesus monkeys."

MOE, K.E., LOVELY, R.H., & GUY, A.W. (U. of Washington, Seattle), "Physiological and behavioral effects of chronic low level microwave radiation of rats."

MONOHAN, J.C., & HO, H.S. (Bureau of Radiological Health, Rockville, MD), "Microwave-induced avoidance behavior in the mouse."

Session B-7a: Assessment of Power Deposition in Tissues by Mathematical and Phantom Models (SCHWANN, H., Chmn.)

ALLEN, S.J., HURT, W.D., KRUPP, J.H., RATLIFF, J.A. (USAF School of Aerospace Medicine, Brooks AFB, TX), DURNEY, C.J., & JOHNSON, C.C. (U. of Utah, Salt Lake City), "Measurement of radio frequency power absorption in monkeys, monkey phantoms, and human phantoms exposed to 10-30 MHz fields."

GANDHI, O.P., SEDIGH, K., BECK, G.S. (U. of Utah, Salt Lake City), & HUNT, E.L. (Walter Reed Army Institute of Research, Washington, DC), "Distribution of electromagnetic energy deposition in models of man with frequencies near resonance."

MacDOUGAL, J., WEBB, M. (U. of Washington, Seattle), & FRAZER, J.W. (USAF School of Aerospace Medicine, Brooks AFB, TX), "Models of biologic interaction with electromagnetic fields."

MASSOUDI, H., DURNEY, C.H., JOHNSON, C.C. (U. of Utah, Salt Lake City), & ALLEN, S. (Brooks AFB, TX), "Theoretical calculations of power absorbed by monkey and human spheroidal and ellipsoidal phantoms in an irradiation chamber."

NEUDER, S.M. (BRH, Rockville, MD), HILL, D.H., & KELLOGG, R.B. (U. of Maryland, College Park), "Power deposition in a multilayered spherical model of the human head."

Session B-7b: Dielectric Properties of Tissues (SCHWANN, H., Chmn.)

CHEUNG, A.Y., KOOPMAN, D.W., & SWICORD, M.L. (U. of Maryland, College Park), "Wide-band characterization of dielectric and heat properties of simulated tissues."

ILLINGER, K.H. (Tufts U., Medford, MA), "The attenuation function for biological fluids at millimeter and far-infrared wavelengths."

PLYE, S.D., HU, C.L., CALDWELL, R., & BARNES, F.S. (U. of Colorado, Boulder), "Electric dipole interactions for microwave pulses and damage to embryos."

SWICORD, M., SAFFER, J. (BRH, Rockville, MD), & CHEUNG, A. (U. of Maryland, College Park), "A two impedance method for wide range dielectrometry."

Session B-8a: CNS Effects—I (ADEY, R., Chmn.)

ALBERT, E.N. (The George Washington U. Medical Center, Washington, DC), "Light and electron microscopic investigation of brains exposed to non-ionizing radiation." [Read by E. Postow]

HAWKINS, T.D., & HUNT, E.L. (Walter Reed Army Institute of Research, Washington, DC), "Reduction in sensitivity to audiogenic seizure following a single, 2450 MHz, CW irradiation of rats."

KRITIKOS, H., & TAKASHIMA, S. (U. of Pennsylvania, Philadelphia), "Nonthermal effects of electromagnetic fields on the central nervous system." [Read by H. Schwann]

OSCAR, K.J. (U.S. Army Mobility Equipment R&D Center, Fort Belvoir, VA, and American U., Washington, DC), & HAWKINS, T.D. (Walter Reed Army Institute of Research, Washington, DC), "Electromagnetic radiation effects on the blood-brain barrier system in rats."

Session B-8b: CNS Effects—II (CLEARY, S., Chmn.)

CHAMNESS, F., SCHOLES, H., SEXAUER, S., & FRAZER, J.W. (USAF School of Aerospace Medicine, Brooks AFB, TX), "The effect of 1.6 GHz CW fields on trace metal content of specific regions of rat brain."

MERRITT, J.H., HARTZELL, R., & FRAZER, J.H. (USAF School of Aerospace Medicine, Brooks AFB, TX), "The effect of 1.6 GHz radiation on neurotransmitters in discrete areas of the rat brain."

MIKOLAJCZYK, H. (Institute of Occupational Medicine, Lodz, Poland), "Microwave-induced shifts of gonadotropic activity in anterior pituitary gland of rats." [withdrawn]

WU, C-L., & LIN, J.C. (Wayne State U., Detroit, MI), "Interaction of modulated electromagnetic fields with nervous structures."

3718. (Continued)

Session B-9a: Assessment of Power Deposition in Tissues by Numerical Methods (GUY, A.W., Chmn.)

- BARBER, P.W. (U. of Utah, Salt Lake City), "Numerical study of electromagnetic power deposition in biological tissue bodies."
- EMERY, A.F., GUY, A.W., KRANING, K.K., & SHORT, R. (U. of Washington, Seattle), "Numerical simulation of the effects of non-ionizing RF radiation upon the human body."
- NEUDER, S.M. (BRH, Rockville, MD), & MEIJER, P.H.E. (Catholic U. of America, Washington, DC), "Finite element-variational calculus approach to the determination of electromagnetic fields in irregular geometry."
- SPEIGEL, R.J. (ITT Research Institute, Washington, DC), "High voltage electric field coupling to humans using moment method techniques."
- UMASHANKAR, K.R., & BUTLER, C.M. (U. of Mississippi, University), "Electromagnetic power absorption in lossy wire model of man."

Session B-9b: Polarization Effects (GUY, A.W., Chmn.)

- GITHENS, S.H., HAWKINS, T.D., & SCHROT, J. (Walter Reed Army Institute of Research, Washington, DC), "Colonic temperature changes during microwave exposure."
- SCHROT, J., & HAWKINS, T.D. (Walter Reed Army Institute of Research, Washington, DC), "Microwave frequency and E-field orientation interact with animal size."

Session B-10a: Effect of ELF Fields on Biological Systems—I (PHILIPS, R., Chmn.)

- BAWIN, S.M., & ADEY, W.R. (U. of California, Los Angeles), "Effects of weak low frequency electric fields on calcium efflux from isolated chick and cat brain."
- BLISS, V., & HEPPNER, F. (U. of Rhode Island, Kingston), "Effects of the field free space on the circadian activity rhythm of the house sparrow, *Passer domesticus*, and of the song sparrow, *Melospiza melodia*."
- DURFEE, W.K., PLANTE, P.R., MARTIN, P., MUTHUKRISHNA, S., & POLK, C. (U. of Rhode Island, Kingston), "Exposure of domestic fowl to ELF electric and magnetic fields."
- GREENEBAUM, B., GOODMAN, E.M., & MARRON, M.T. (U. of Wisconsin-Parkside, Kenosha), "Long-term effects of weak 45-75 Hz electromagnetic fields on the slime mold *Physarum polycephalum*."
- MATHEWSON, N.S., OOSTA, G.M., OLIVA, S.A., & BLASCO, A.P. (AFRRI, Defense Nuclear Agency, Bethesda, MD), "Effects of 45 Hz electric field exposure on rats."

Session B-10b: Effect of ELF Fields on Biological Systems—II (BIRENBAUM, L., Chmn.)

- MEDICI, R.G. (U. of California, Los Angeles), "The effects of weak ELF electric fields on schedule-controlled behavior of monkeys."
- MORAN, W.P. (U. of Tulsa, OK), "Physiological basis of human electric shock threshold."
- SUGIYAMA, S., & MIZUNO, K. (Kwansei Gakuin U., Hyogo, Japan), "Effect of AC electric field application upon human visual threshold."
- GREENBURG, B. (U. of Illinois at Chicago Circle, Chicago), "Impact of extremely low frequency electromagnetic fields on animals in nature."

Session B-11: Measurement of Power Deposition in Biological Tissues (ROZZELL, T., Chmn.)

- BOWMAN, R.R. (National Bureau of Standards, Boulder, CO), "A temperature probe for RF heated material."
- CETAS, T.C. (BRH, Rockville, MD), "A birefringent crystal optical thermometer for measurements of electromagnetically induced heating."
- CHEN, K.M., GURU, B.S., & NYQUIST, D.P. (Michigan State U., East Lansing), "Quantification and measurement of induced fields inside finite biological bodies."
- CHEUNG, A.Y. (U. of Maryland, College Park), SWICORD, M.L., & BASSEN, H.I. (BRH, Rockville, MD), "Experimental calibration of a miniature electric field probe within muscular tissues."
- CHRISTENSEN, D.A. (U. of Utah, Salt Lake City), "Optical etalon temperature sensor for microwave tissue heating applications."
- DEFICIS, A. (O.N.E.R.A.-C.E.R.T., France), "Use of dielectric microprobes for electromagnetic fields measurement."
- LIVINGSTON, G.K., JOHNSON, C.C., DURNEY, C.H. (U. of Utah, Salt Lake City), & ROZZELL, T.C. (Office of Naval Research, Arlington, VA), "Performance of the LCOF probe in calorimetric and tissue temperature monitoring applications."

(Continued)

3718. (Continued)

Session B-12: General Biological Effects (MICHAELSON, S., Chmn.)

- BURKS, D.G., & GRAF, E.R. (Auburn U., AL), "Investigation of electromagnetic effects of a 1000-foot TV tower on migratory birds."
- HOUK, W.M., MICHAELSON, S.M., & BEISCHER, D.E. (Naval Aerospace Medical Research Laboratory, Pensacola, FL, and U. of Rochester, Rochester, NY), "The effects of environmental temperature on thermoregulatory, serum lipid, carbohydrate and growth hormone responses of rats exposed to microwave."
- KINDT, C.W., BOWDEN, D.M., SPELMAN, F.A., & MORGAN, M.K. (Regional Primate Research at the U. of Washington, Seattle), "Some developmental and behavioral factors of low intensity X-band radiation."
- MAXEY, E.S. (Miami Heart Institute, Miami, FL), "Critical aspects of human versus terrestrial electromagnetic symbiosis."
- MITCHELL, J.C., & HURT, W.D. (USAF School of Aerospace Medicine, Brooks AFB, TX), "The biological significance of radiofrequency radiation emission characteristics on cardiac pacemaker performance."
- O'GRADY, T.C., MILROY, W.C., & GLASER, Z.R. (Naval Surface Weapons Center, Dahlgren, VA), "Long term exposure studies of high peak power (HPP) pulsed electromagnetic radiation on mice."
- STAVINOHA, W.B., MEDINA, M.A., WEINTRAUB, S.T., ROSS, D.H., & MODAK, A.T. (U. of Texas Health Science Center, San Antonio), "The effects of 19 megacycle irradiation on mice and rats."
- TELL, R.A., & JANES, D.E. (EPA, Washington, DC), "Broadcast radiation: A second look."
- WOOLAS, K.D. (MOD, United Kingdom), "Health hazards in microwave fields."

Session B-13: Selected Topics (ALTSCHULER, H.M., Chmn.)

- ALLIS, J.W., & FROMME, M.L. (EPA, Research Triangle Park, NC), "Pseudosubstrate binding to ribonuclease during exposure to microwave radiation at 1.70 and 2.45 GHz."
- CARPENTER, R.L., & HAGAN, G.J. (BRH, Winchester, MA), "Comparison of thermal effects in the rabbit eye from microwave radiation and from external heating."
- FERRI, E.S., & HAGAN, G.J. (BRH, Winchester, MA), "Chronic low-level exposure of rabbits to microwaves."
- GLASER, Z.R. (Naval Surface Weapons Center, Dahlgren, VA), & DODGE, C.H. (Library of Congress, Washington, DC), "Biomedical aspects of radiofrequency and microwave radiation: A review of selected Soviet, East European, and Western references."
- GUILLET, R., LOTZ, W.G., & MICHAELSON, S.M. (U. of Rochester, NY), "Time-course of adrenal response in microwave-exposed rats."
- HAGAN, G.L., & CARPENTER, R.L. (BRH, Winchester, MA), "Microwave frequency as a factor in the induction of lens opacities in the rabbit eye."
- MAGIN, R.L., LU, S-T., & MICHAELSON, S.M. (U. of Rochester, NY), "Thyroid response to localized microwave exposure."
- MASSOUDI, H., DURNEY, C.H., JOHNSON, C.C. (U. of Utah, Salt Lake City), & ALLEN, S. (Brooks AFB, TX), "Theoretical calculations of power absorbed by an ellipsoidal model of man and animals in an electromagnetic plane wave."
- MICHAELSON, S.M. (U. of Rochester, NY), "The influence of microwave exposure on neuroendocrine function in the rat and dog."
- MURACA, G.J., Jr., & FERRI, E.S. (BRH, Winchester, MA), "A study of the effects of microwave irradiation of the rabbit testes."
- SANDLER, S.S. (Northeastern U., Boston, MA), "Electromagnetic field effects on isolated nerve tissue."
- SEAMAN, R.L., WACHTEL, H., & JOINES, W.T. (Duke U., Durham, NC), "The use of stripline to study microwave biological effects."

3719. The Congenital Anomalies Research Association of Japan and the Japan Society of Human Genetics—Joint Conference, Tokyo, Japan, November 7-9, 1975. (Presentation given by title only.)

RUGH, R., & LEACH, W.M. (Division of Biological Effects, BRH), "Microwave teratogenesis in mice."

3720. American Public Health Association Annual Conference, Chicago, Illinois, November 16-20, 1975.

LANDAU, E. (American Public Health Assoc.), & ALBRECHT, R.M. (Division of Biological Effects, BRH), "Microwave radiation: An epidemiologic assessment."

3721. Proceeding of the Ninth Midyear Topical Symposium, Health Physics Soc., Denver, Colorado, February 9-12, 1976.

CZERSKI, P. (FDA Visiting Scientist, Division of Biological Effects, and Dept. of Genetics, National Research Inst. of Mother & Child, Warsaw, Poland), "Comparison of the USA, USSR, and Polish microwave permissible exposure standards."

3722. "Measurements for Safe Use of Radiation," National Bureau of Standards 75th Anniversary Symposium, March 1-4, 1976, Gaithersburg, MD.

Session on Measurement System

SWICORD, M.L., BASSEN, H.I., & HERMAN, W.A. (Bureau of Radiological Health, FDA), "Methods for the evaluation and calibration of microwave survey instruments."

Session on Standardization and Measurement Assurance

BAIRD, R.C. (National Bureau of Standards), "Non-ionizing radiation and standardization."

Session on Environment and Personal Protection

TELL, R.A., HANKIN, N.N., NELSON, J.C., ATHEY, T.W., & JANES, Jr., D.E. (U.S. Environmental Protection Agency), "An automated measurement system for determining environmental radiofrequency field intensities."

THIEL, J.F. (Texas Dept. of Health Resources), "Radio-frequency electromagnetic radiation from portable and mobile telecommunication transmitters."

3723. American Industrial Hygiene Association Conference, Atlanta, Georgia, May 16-21, 1976.

ALBRECHT, R.M. (Division of Biological Effects, BRH), "Potential adverse effects of exposure to nonionizing radiation."

(Fins)

17. Alterations in the Biocurrents (EEG?) of the Cerebral Cortex (in animals)
18. Changes in the Rate of Clearance of Tagged Ions from Tissue
19. Reversible Structural Changes in the Cerebral Cortex and the Diencephalon
20. Electrocardiographic (EKG) Changes
21. Alterations in Sensitivity to Light, Sound, and Olfactory Stimuli
19. Reversible Structural Changes in the Cerebral Cortex and the Diencephalon
20. Electrocardiographic (EKG) Changes
21. Alterations in Sensitivity to Light, Sound, and Olfactory Stimuli
22. Functional (a) and Pathological (b) Changes in the Eyes: (a) decrease in size of blind spot, altered color recognition, changes in intraocular pressure, lacrimation, trembling of eyelids; (b) lens opacity and coagulation, altered tissue respiration, and altered reduction-oxidation processes
23. Myocardial Necrosis
24. Hemorrhage in Lungs, Liver, Gut, and Brain
25. Generalized Degeneration of all Body Tissue
26. Loss of Anatomical Parts
27. Death
28. Dehydration
29. Altered Rate of Calcification of Certain Tissue

} At Fatal Levels of Radiation

C. Central Nervous System Effects

1. Headaches
2. Insomnia
3. Restlessness (Awake and During Sleep)
4. Electroencephalographic (EEG) Changes
5. Cranial Nerve Disorders
6. Pyramidal Tract Lesions
7. Conditioned Reflex Disorders
8. Vagomimetic Action of Heart; Sympaticomimetic Action
9. Seizures, Convulsions

D. Autonomic Nervous System Effects

1. Neuro-vegetative Disorders (e.g., alteration of heart rhythm)
2. Fatigue
3. Structural Alterations in the Synapses of the Vagus Nerve
4. Stimulation of Parasympathetic Nervous System (Bradycardia), and Inhibition of the Sympathetic Nervous System

E. Peripheral Nervous System Effects

Effects on Locomotor Nerves

F. Psychological Disorders ("Human Behavioral Studies") - the so-called "Psychophysilogic (and Psychosomatic) Responses"

1. Neurasthenia - (general "bad" feeling)
2. Depression
3. Impotence
4. Anxiety
5. Lack of Concentration
6. Hypochondria
7. Dizziness
8. Hallucinations
9. Sleepiness
10. Insomnia
11. Increased Irritability
12. Decreased Appetite
13. Loss of Memory
14. Scalp Sensations
15. Increased Fatigability
16. Chest Pain
17. Tremor of the Hands

G. Behavioral Changes (Animal Studies)

Reflexive, Operant, Avoidance, and Discrimination Behaviors

H. Blood Disorders

(V = in vivo)
(v = in vitro)

Changes in:

1. Blood and Bone Marrow
2. Phagocytic (polymorphs) and Bactericidal Functions of Blood (V,v)
3. Hemolysis Rate (increase), (a shortened lifespan of cells)
4. Sedimentation Rate (increase), (due to changes in serum protein levels or amount of fibrinogen (?))
5. Number of Erythrocytes (decrease), also number of Lymphocytes
6. Blood Glucose Concentration (increase)
7. Blood Histamine Content
8. Cholesterol and Lipids
9. Gamma (also α and β) Globulin, and Total Protein Concentration
10. Number of Eosinophils
11. Albumin/Globulin Ratio (decrease)
12. Hemopoiesis (rate of formation of blood corpuscles)

13. Leukopenia (increase in number of white cells), and Leukocytosis
14. Reticulocytosis

I. Vascular Disorders

1. Thrombosis
2. Hypertension

J. Enzyme and Other Biochemical Changes

Changes in activity of:

1. Cholinesterase (V,v)
2. Phosphatase (v)
3. Transaminase (v)
4. Amylase (v)
5. Carboxydismutase

6. Protein Denaturation
7. Toxin, Fungus, and Virus Inactivation (at high radiation dose levels), Bacteriostatic Effect
8. Tissue Cultures Killed
9. Alteration in Rate of Cell Division
10. Increased Concentration of RNA in Lymphocytes, and Decreased Concentration in Brain, Liver, and Spleen
11. Changes in Pyruvic Acid, Lactic Acid, and Creatinine Excretions
12. Change in Concentration of Glycogen in Liver (Hyperglycemia)
13. Alteration in Concentration of 17- Ketosteroids in Urine

K. Metabolic Disorders

1. Glycosuria (sugar in urine; related with blood sugar?)
2. Increase in Urinary Phenol (derivatives? DOPA?)
3. Alteration of Rate of Metabolic Enzymatic Processes
4. Altered Carbohydrate Metabolism

L. Gastro-Intestinal Disorders

1. Anorexia (loss of appetite)
2. Epigastric Pain
3. Constipation
4. Altered Secretion of Stomach "Digestive Juices"

M. Endocrine Gland Changes

1. Altered Pituitary Function
2. Hyperthyroidism
3. Thyroid Enlargement
4. Increased Uptake of Radioactive Iodine by Thyroid Gland
5. Altered Adrenal Cortex Activity
6. Decreased Corticosteroids in Blood
7. Decreased Glucocorticoidal Activity
8. Hypogonadism (usually decreased testosterone production)

N. Histological Changes

1. Changes in Tubular Epithelium of Testicles
2. Gross Changes

O. Genetic and Chromosomal Changes

1. Chromosome Aberrations (e.g., linear shortening, pseudochiasm, diploid structures, amitotic division, bridging, "sticky" chromosomes, irregularities in chromosomal envelope)
2. Mutations
3. Mongolism
4. Somatic Alterations (changes in cell not involving nucleus or chromosomes, cellular transformation)
5. Neoplastic Diseases (e.g., tumors)

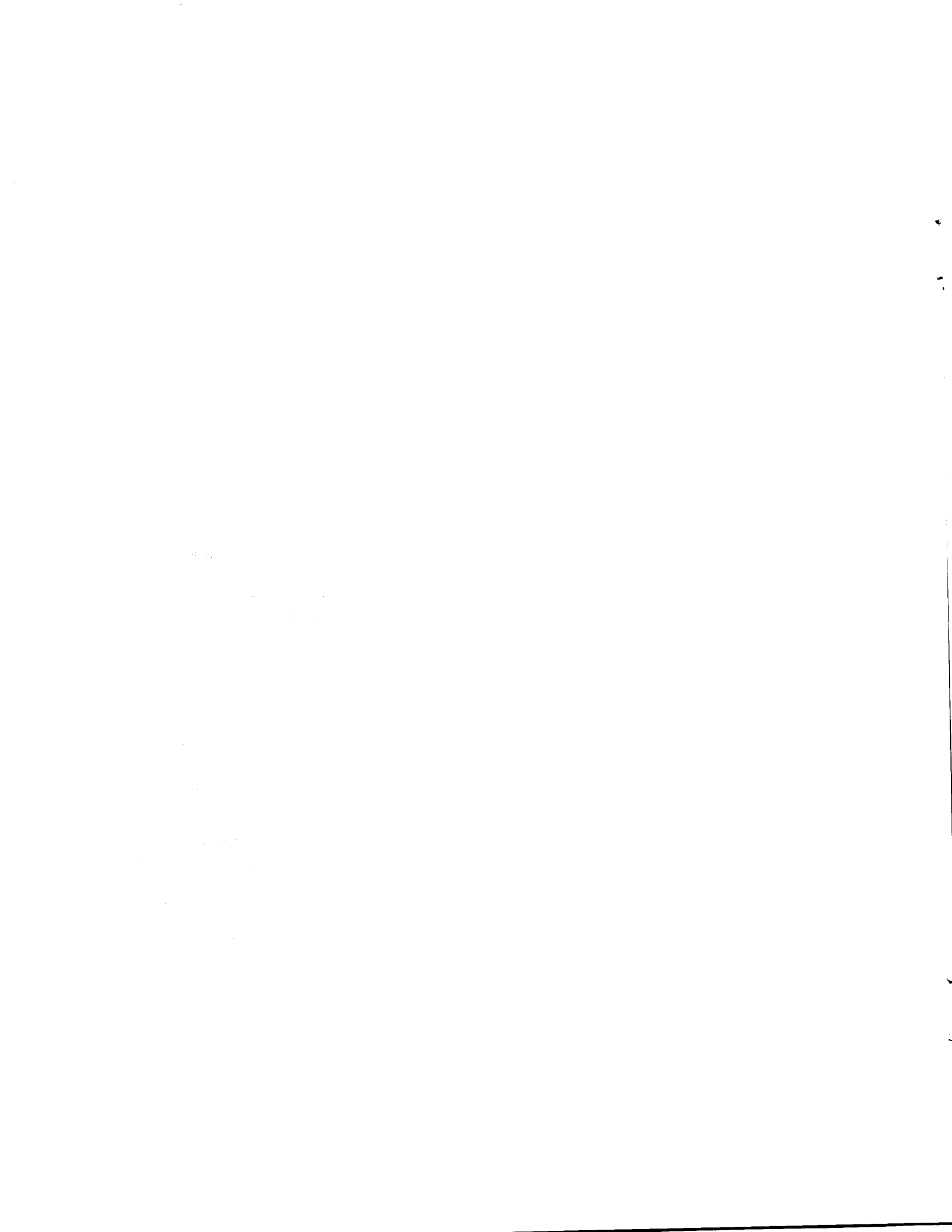
P. Pearl Chain Effect (Intracellular orientation of subcellular particles, and orientation of cellular and other (non-biologic) particles)

Also, orientation of animals, birds, and fish in electromagnetic fields

Q. Miscellaneous Effects

1. Sparking between dental fillings
2. Peculiar metallic taste in mouth
3. Changes in Optical Activity of Colloidal Solutions
4. Treatment for Syphilis, Poliomyelitis, Skin Diseases
5. Loss of Hair
6. Brittleness of Hair
7. Sensations of Buzzing Vibrations, Pulsations, and Tickling About the Head and Ears
8. Copious Perspiration, Salivation, and Protrusion of Tongue
9. Changes in the Operation of Implanted Cardiac Pacemakers
10. Changes in Circadian Rhythms

The Outline of Reported Biological Phenomena ('Effects') and Clinical Manifestations Attributed to Microwave and Radio-Frequency Radiation, is patterned after that given by R. Murray, et al., in an article entitled, "How safe are microwaves", which appeared in Non-Ionizing Radiation 1(1):7-8 (1969). Some of the "effects" were listed in the report by S. F. Cleary and W. T. Ham, Jr., entitled, "Considerations in the evaluation of the biological effects on exposure to microwave radiation", (Background document, Part I, 1969, for the Task Force on Research Planning in Environmental Health, Subtask Force on Physical Factors in the Environment). The discussion and suggestions offered by Byron McLees, Edward Finch, Lewis Gershman, and Christopher Dodge relating to the Outline are also gratefully acknowledged.



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<p>More than 3700 references on the biological responses to radio frequency and microwave radiation, published up to May 1976, are included in this bibliography of the world literature. Particular attention has been paid to the effects of non-ionizing radiation on man at these frequencies. The citations are arranged alphabetically by author (where possible), and contain as much information as possible so as to assure effective retrieval of the original documents. Soviet and East European literature is included in detail.</p> <p style="text-align: right;">(cont'd)</p>												

19. KEY WORDS (cont'd)

Electric-Field Bio-Effects
Magnetic Bio-Effects
Human Factors

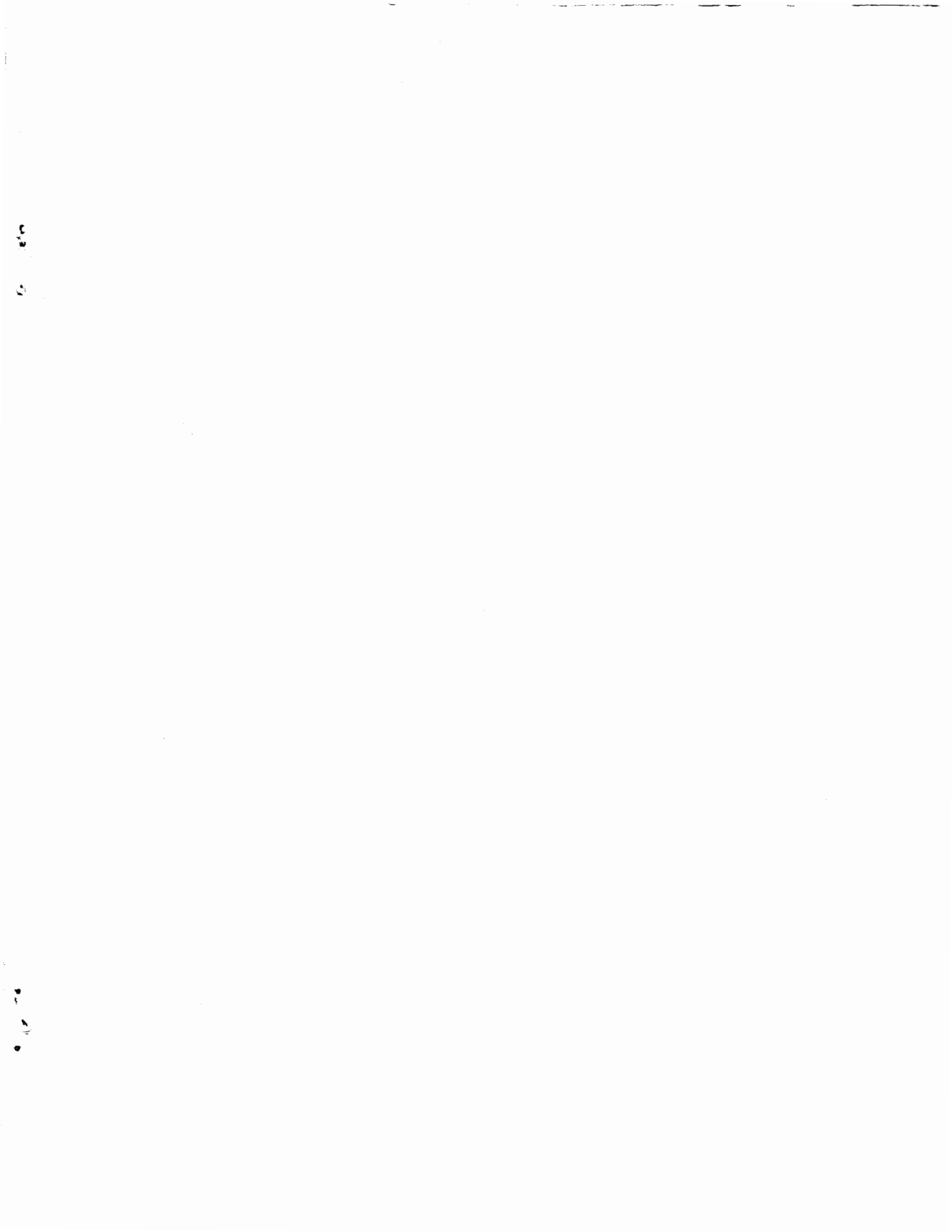
Pulsed Electromagnetic Radiation
Stress Physiology
Radar Safety

20. ABSTRACT (cont'd)

This report is a compilation and integration of the first seven supplements, and the alphabetical addenda (appended to the original bibliography), with the revised bibliography of April 1972. The report is a successor to Naval Medical Research Institute (NMRI, Bethesda, MD 20014) Research Report No. 2, completed under Research Work Unit MF12.524.015-0004B in October 1971, by the senior author, and available from National Technical Information Service (Springfield, VA 22151) as AD #734-391. The original report was revised and reprinted in April 1972, and also contains the first three supplements; No. 1 dated October 1971, No. 2 dated November 1971, and No. 3 dated April 1972. The revised report which consists of more than 2300 literature citations, is available from NTIS as AD #750-271, and includes, as the first chapter, an outline of the effects which have been attributed to radio frequency and microwave radiation. Supplement No. 4 (containing 327 citations) was completed in June 1973, as an Electromagnetic Radiation (EMR) Project Office Report, Bureau of Medicine and Surgery (Navy), (Washington, DC 20372), and is available from NTIS as AD #770-621. Supplement No. 5 (containing 497 citations) was completed in July 1974 as an EMR Project Office Report, Naval Medical Research and Development Command (NMR&DC, Bethesda, MD 20014), and is available from NTIS as AD #784-007. The sixth Supplement (containing 241 citations) was completed in June 1975 (also as an EMR Project Office, NMR&DC Report), and is available from NTIS as AD #A015-622. The seventh Supplement (containing 345 citations) was completed in May 1976 as a NMRI Report, and is available from NTIS as AD #A025-354. Supplement No. 8 (not included in this report, but containing 331 citations), was completed in August 1976 as a NMRI Report, and is available from NTIS as AD #A029-430.

Relevant presentations made at technical meetings are included in a separate section.

The "outline of bio-effects" which appeared in the original Bibliography has been included in this report as an Appendix.



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