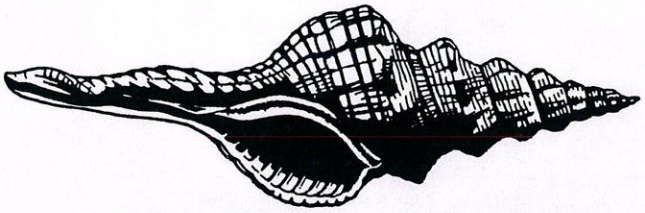
29th ANNUAL

PESTICIDE RESIDUE

WORKSHOP

JULY 19-22, 1992

ST. PETERSBURG, FLORIDA



Tradewinds

ON ST. PETERSBURG BEACH • FLORIDA

State of Florida
Department of Agriculture & Consumer Services
Tallahassee, Florida

BOB CRAWFORD
Commissioner of Agriculture

WELCOME TO THE 29TH ANNUAL PESTICIDE RESIDUE WORKSHOP! We are pleased to see such a large turnout and we appreciate your support.

During the years we have enriched each other with the knowledge of pesticide residue analytical technology by sharing them among the colleagues. The 29th Annual Meeting contains a program of many great technical presentations and will again provide an excellent opportunity of sharing knowledge, interest and problems.

While you are here, be sure to enjoy the facilities of the TradeWinds Hotel and the beautiful beaches of Florida's west coast. Please let me or the TradeWinds staff know if we can be of any assistance to you.

Sincerely,

BOB CRAWFORD
COMMISSIONER OF AGRICULTURE

W. George Fong
Chief

We appreciate the continuous interest and support by the exhibitors. Please be sure to visit the exhibitors and discuss your interest(s) and needs with them.

EXHIBITORS

All-World Scientific.....C. E. Mainard/Chuck Luke

Bio-Rad Laboratories, Inc. and Bio-Rad Digilab Division.....Ralph Cowden

Dionex.....Royce Bramlett / Rabun Rampey / Bob Joyce

Enzytec.....Kathleen Howe

Finnigan Mat.....Randy Porch / Wayne Rimkus / Tony Williams

Fisher Scientific.....Rodney Crosby

Gervin Massey and Associates.....Gervin Massey

Hewlett-Packard.....Tom Stocks / Chip Townsend

IN/US Systems, Inc.....John Hnizdil / George Deffner

Millipore Corporation.....Joe Peters

Ohmicron Corporation.....Terry Doherty

O.I. Analytical.....Terry Dasson

Perkin-Elmer Corp.....Larry Myers / Bob Riggs / Ray Thompson / Jim Wagner

Sci-Con.....James B. Westmoreland

SGE, Incorporated.....Ken Mahler

Shimadzu Scientific Instruments.....Chris Gaylor / Jim Velinsky

Southern Measurement Co. of Florida/Sievers Research, Inc.....Dave Westerheide

Tremetrics, Inc.....Peter Vega

Varian Instrument Group.....Gary Cook/ Mickey McAllister / Phil Tondra

Whatman, Inc.....Elaine Heilweil

YMC, Inc.....Bob Bickler

Zymark Corp.....Russell Salisbury

Sunday / July 19, 1992 / Afternoon

4:00 - 6:00 REGISTRATION

Meetings and Exhibits are to be held in the ISLAND BALLROOMS

Door Prizes will be drawn at the end of each morning and afternoon session. You must be ON TIME at the beginning of each session to receive a ticket and BE PRESENT AT THE DRAWING TO WIN.

Monday / July 20, 1992 / Morning

7:30 - 8:30 REGISTRATION

8:30 - 9:00 Welcome
Introduction and Announcements - George Fong

1. 9:00 - 9:45 Mass Spectrometry for Pesticide - Dr. Thomas Cairns
Residue Analysis

9:45 - 10:30 BREAK - VISIT EXHIBITS
Refreshments - Courtesy of Dionex Corp and Hewlett-Packard

2. 10:30 - 10:50 Activities Update, FY92 - US FDA Southeast
Regional Laboratory - Elizabeth Lehman

3. 10:50 - 11:20 Pesticide Data Program Update - Dr. Robert Epstein

4. 11:20 - 11:30 Virginia Pesticide Residue Lab Outlook for 1992 - Dave Lynn

5. 11:30 - 11:40 Mississippi State Report - Reba L. Ingram

6. 11:40 - 11:50 Washington State Report - Herman Moya

11:50 - 12:00 DOOR PRIZE DRAWING

12:00 - 1:30 LUNCH (on your own)

Monday / July 20, 1992 / Afternoon

7.	1:30 -	1:45	Preliminary Studies Using Ion-Trap GC/MS (EI & CI) for Analysis of Pesticide Residues in Fruits & Vegetables Dr. Ping Liu
8.	1:45 -	2:05	Productivity Quality - A Leadership Philosophy for Lab Managers - Joe Majors
9.	2:05 -	2:15	Pesticide Residues in North Carolina - David H. Hall
10.	2:15 -	2:30	Mercury Accumulations in Sediments and Soils of the Everglades: Initial Findings - Dr. Joseph J. Delfinol B. E. Rood/C. D. Earle/J. F. Goftgens/T. L. Crisman
11.	2:30 -	2:45	Analysis of Methyl Mercury Using Capillary GC - Mark French
	2:45 -	3:30	BREAK - VISIT EXHIBITS Refreshments Courtesy of Shimadzu Scientific Instruments and Varian Instrument Group
12.	3:30 -	3:45	A Closer Look at In-Block Benzylation of Carboxylic Acids Dr. Alan P. Thio
13.	3:45 -	4:00	Pesticide Disposal System Update 1992 - Dr. R. W. Young
14.	4:00 -	4:10	California CDFA Report - Dr. Terry Jackson
15.	4:10 -	4:20	Nevada Activities: A Report from the Desert - Dr. Chris Mason
16.	4:20 -	4:30	Florida Department of Agriculture, Chemical Residue Laboratory / Annual Report - Gail Parker
	4:30 -	4:40	DOOR PRIZE DRAWING
	4:40 -	5:30	USDA PDP Chemists/QA Officers Meeting
	6:00 -	7:00	Get Acquainted Reception - Courtesy of TradeWinds Hotel

Tuesday / July 21, 1992 / Morning

7:00 -	8:00	CHECK SAMPLE COMMITTEE MEETING (Committee Members Only)
7:30 -	8:00	REGISTRATION

17.	8:00 - 8:20	Challenges of Implementing GLP's - **Pat Beckett**
18.	8:20 - 8:40	Regulatory Aspects of Detection and Quantitation Limits **Dr. Fred Haeberer**
19.	8:40 - 9:00	Quality Control Monitoring of Pesticide Immunoassays **Dr. Mary C. Hayes**
20.	9:00 - 9:20	The Coming of Age of SFE: New Application for Pesticide Determinations - **Dr. Joseph M. Levy**
21.	9:20 - 9:40	High Efficiency Packed Column SFC Separation of Thermally Labile Pesticides with Simultaneous UV NPD and ECD Detection **Dr. Terry Berger**
22.	9:40 - 9:55	Get Permeation Chromatography for Sample Clean-up **Dr. Michael B. Thomas**
	9:55 - 10:40	BREAK - VISIT EXHIBITS Refreshments Courtesy of Bio-Rad Laboratories Digital Division/Millipore Corporation
23.	10:40 - 10:55	Pesticide Analysis in Oil Matrices Using Commercial Solid Phase Extraction Cartridge - **Dr. Audrey W. Chen**
~~24.~~	10:55 - 11:10	Proposed Modification of EPA Method 549: Determination of Diquat and Paraquat - **Rose Marie Carey**
25.	11:10 - 11:30	Rapid Method for the Multiresidue Screening of Organo - CL -N, -P and -S Pesticides in Fruits and Vegetables **Harry M. Pylypiw, Jr.**
26.	11:30 - 11:50	Eat Your Damned Vegetables! We Checked for Paraquat by EIA - **Dr. Terry D. Spittler**
	11:50 - 12:00	DOOR PRIZE DRAWING
	12:00 - 1:30	LUNCH (on your own)

38.	9:35 - 9:55	Implementation of HPLC/and Post Column Techniques for Rugged Carbamate/Glyphosate Analysis - Gene T. Dalton
	9:55 - 10:40	BREAK - VISIT EXHIBITS Refreshments Courtesy of Enzytec, Inc. and Perkin-Elmer Corp.
39.	10:40 - 11:00	Monitoring of Drinking Water for Residue of Aldicarb and Asulam in Florida: 1992 Update - David Gustafson
40.	11:00 - 11:20	Use of Household Bleach and HPLC Ion-Pair Chromatography on C-18 in Glyhosate Analysis - Dr. Verne A. Simon
41.	11:20 - 11:30	HPLC/Post Column System for the Determination of N-Methyl Carbamate Pesticides in Agricultural and Environmental Samples - Harry Pylypiw
~~42.~~	11:30 - 11:45	A Performance Appraisal of a New Carbamate Method Mark French
	11:45 - 12:00	DOOR PRIZE DRAWING
	12:00 - 12:30	ANNUAL CHECK SAMPLE REPORT (open to all SSCS participants and interested parties)
	12:00 - 1:30	LUNCH (on your own)

Wednesday / July 22, 1992 / AFTERNOON

1:30 - 4:30	USDA PDP SAMPLING COORDINATORS MEETING
2:00 - 4:30	VENDORS SEMINARS (details at registration desk)
SPONSORED BY:	Finnigan Mat/Hewlett Packard/Perkin-Elmer/and Varian Instrument Group
4:30 - 5:30	USDA PDP Chemists/QA Officers Meeting

Thursday / July 23, 1992

8:00 - 11:00	USDA PDP Planning Meeting
11:30 - 1:00	USDA PDP Equipment Meeting
2:00 - 5:00	USDA PDP Chemists/QA Officers Meeting

Program Speakers

Anderson, Rollen J.; Tremetrics; 2215 Grand Avenue Pkwy; Austin, TX 78728; 30

Beckett, Pat; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; 17

Berger, Dr. Terry; Hewlett Packard; P.O. Box 900; Rt. 41 & Starr Road; Avondale, PA; 19311-0900; 21

Cairns, Dr. Thomas; US Food and Drug Administration; 1521 West Pico Blvd.; Los Angeles,CA 90015; 1

Carey, Rose Marie; American Water Works; Belleview Lab; 1115 South Illinois Street; Belleview, IL 62220; 24

Chen, Dr. Audrey; FMC Corporation; Post Office Box 8; Princeton, NJ 08543; 23

DeKok, A.; Food Inspection Service; Burgpdelwaard 6; 1824 DW Alkmaar, Netherlands; 36

Dalton, Gene T.; Perkin-Elmer Corporation; 510 Guthridge Ct. Norcross, GA; 30092; 38

Delfino, Joseph J.; Department of Environmental Engineering Sciences; University of Florida; 217 Black Hall; Gainesville, FL 32511; 10

Epstein, Dr. Robert; USDA Agricultural Marketing Service; Science Division; P. O. Box 96456; Washington, DC 20090; 3

Erney, D. Ronald; US Food & Drug Administration - Pesticide & Industrial Chemicals Research Center; 1560 East Jefferson Avenue; Detroit, MI 48207; 27

Fischer, Joseph B.; USDA Forest Service;, Southern Forest Experiment Station; George W. Andrews Laboratory; Devall Drive; Auburn, AL 36849; 28

Fong, W. George; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650

Ford, Joseph H.; USDA, APHIS, S&T, NMRAL; P.O. Box 3209; 3505 25th Avenue; Gulfport, MS 39505-3209; 33

French, Mark; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; 11 and 42

Program Speakers

Anderson, Rollen J.; Tremetrics; 2215 Grand Avenue Pkwy; Austin, TX 78728; 30

Beckett, Pat; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; 17

Berger, Dr. Terry; Hewlett Packard; P.O. Box 900; Rt. 41 & Starr Road; Avondale, PA; 19311-0900; 21

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Dalton, Gene T.; Perkin-Elmer Corporation; 510 Guthridge Ct. Norcross, GA; 30092; 38

Delfino, Joseph J.; Department of Environmental Engineering Sciences; University of Florida; 217 Black Hall; Gainesville, FL 32511; 10

Epstein, Dr. Robert; USDA Agricultural Marketing Service; Science Division; P. O. Box 96456; Washington, DC 20090; 3

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Fong, W. George; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650

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French, Mark; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; 11 and 42

Gustafson, David I.; Rhone-Poulene AG Company; P.O. Box 12014; 2 T.W. Alexander Drive; Research Triangle Park, NC 27709; 39

Haeberer, Dr. Fred; US-EPA; 401 "M" Street, SW; Washington, DC 20460; 18

Hall, David H.; North Carolina Department of Agriculture; Food & Drug Protection Division; 4000 Reedy Creek Road; Raleigh, NC 27607; 9

Hayes, Dr. Mary C.; Ohmicron Corporation; 375 Pheasant Run; Newtown, PA 18940; 19

Ingram, Reba L.; Mississippi State Chemical Laboratory; P.O. Drawer CR; Mississippi State, MS 39762; 5

Jackson, Casanova P.; Department of Agriculture and Consumer Services; Chemical Residue Laboratory; 3125 Conner Blvd.; Tallahassee, FL 32399-1650; 35

Jackson, Terry; California Department of Food & AG; Chemistry Branch; 3292 Meadowview Road; Sacramento, CA 95832; 14

Lehman, Elizabeth; FDA 60 8th Street, NE; Atlanta, GA 30309; 2

Levy, Dr. Joseph M.; Suprex Corporation; 125 William Pitt Way; Pittsburgh, PA 15238; 20

Liu, Dr. Ping; Department of Agriculture and Consumer Services; Chemical Residue Laboratory; 3125 Conner Blvd.; Tallahassee, FL 32399-1650; 7

Lynn, Dave; Virginia Department of General Services; Division of consolidated Labs 1 North 14th Street, Room 354; Richmond, VA 23219; 4

Majors, Jr., Joe H.; Tennessee Department of Agriculture; Technical Services Division; Ellington Agriculture Center; Hogan Road; Box 40627; Melrose Station; Bruer Bldg.; Nashville, Tenn. 37204; 8

MacGeachy, Gordon; Jun-Air & Sci-Con; 631 Executive Drive; Winter Park, FL 32789; 32

Mason, Chris; Nevada Department of Agriculture; P.O. Box 11100; Reno, NV 89510; 15

Moya, Herman; Washington State Department of Agriculture ; 2017 South 1st Street; Yakima, VA 98903; 6

Moye, Dr. Anson; Institute of Food and Agricultural Sciences; Pesticide Research Laboratory; University of Florida; Gainesville, FL 32611; 37

Parker, Gail A.; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; 16

Penton, Zelda; Varian Chromatography Systems; 2700 Mitchell Drive; Walnut Creek, CA 94598; 29

Pylypiw, Jr., Harry M.; Connecticut Agricultural Experiment Station; 123 Huntington Street; New Haven, CT 05404-1106; 25 and 41

Simon, Dr. Verne A.; Florida Department of Health & Rehabilitative Services; 1217 Pearl Street; Jacksonville, FL 32202; 40

Spittler, Terry D.; Cornell Analytical Laboratories; Cornell University - NYSAES; Geneva, NY 14456; 26

Thio, Alan P.; University of Kentucky; Division of Regulatory Services; Regulatory Services Building; Lexington, KY 40546-0275; 12

Thomas, Michael B.; Hewlett-Packard; Route 41 and Starr Route; Avondale, PA 19311-0900; 22 and 34

Wylie, Philip L.; Hewlett-Packard; P.O. Box 900; Avondale, PA 19311; 31

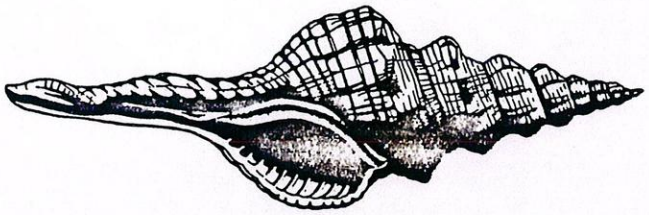
Young, R.W.; Virginia Tech; VA Polytechnic Institute & State University; 352 Litton Reaves Hall; Blacksburg, VA 24061-0309; 13

30th ANNUAL

PESTICIDE RESIDUE

WORKSHOP

JULY 18-21, 1993 ST. PETERSBURG, FLORIDA



Tradewinds

ON ST. PETERSBURG BEACH • FLORIDA

State of Florida
Department of Agriculture & Consumer Services
Tallahassee, Florida

BOB CRAWFORD
Commissioner of Agriculture

WELCOME TO THE 30TH ANNUAL PESTICIDE RESIDUE WORKSHOP! We have again planned a very informative meeting, providing an excellent opportunity for sharing knowledge, interests and problems.

Ever since the very first meeting in 1964, we have been enriched with the knowledge of pesticide residue analytical technology through sharing among colleagues. This successful tradition is due to your enthusiastic support.

While you are here, be sure to enjoy the beautiful beaches of Florida's west coast and the facilities of the TradeWinds. Please let me or the TradeWinds staff know if we can be of any assistance to you.

Sincerely,

BOB CRAWFORD
COMMISSIONER OF AGRICULTURE

W. George Fong
Environmental Administrator

We appreciate the continuous interest and support by the exhibitors. Please be sure to visit the exhibitors and discuss your interests and needs with them.

EXHIBITORS

ABC Laboratories, Inc.....Dennis Schupp

All-World Scientific.....C. E. Mainard

Bio-Rad Laboratories, Inc.....Ralph Cowden

CEM Corporation.....Bob Revesz

Dionex.....Greg Cuzzort / Rabun Rampey

Enzytec.....Kathleen Howe

Finnigan Mat.....Randy Porch / Wayne Rimkus / Bob Farr

Hitachi Instruments, Inc.....R. Kalbracher / L. Oldeen

Haymes Scientific, Inc.....Mark Haymes

Hewlett-Packard.....Chip Townsend / Tom Stocks / Mike Thomas

Horizon Technology.....Martha Johnson

J. T. Baker.....Bill West

LEAP Technology.....Mark Alpee

Ohmicron Corporation*.....David Deardorff

O.I. Analytical.....Kirk Holladay

Perkin-Elmer Corp.....Michael Barbera / Bob Riggs / Ray Thompson
Jim Wagner and Dave Bodwell

Reeves Glass, Inc.....Arthur G. Reeves

Sci-Con.....James B. Westmoreland

Sci Optics Corp.....Dianna Jones / Jack Dixon

SGE, Incorporated.....Ken Mahler

Shimadzu Scientific Instruments.....Chris Gaylor / Jim Velinsky

Southeastern Technical Sales, Inc.....John Hickinbotham

SPEC Division of Analysis.....Rebecca Paschad

Suprex Corp.....Scott Elkins / Joe Levy

Tekmar Company.....Pete Vega

Varian Analytical Instruments.....Gary Cook

Varian Sample Preparation.....Andy Senedlbach

Whatman, Inc.....Elaine Heilweil

YMC, Inc.....Bob Bickler

Zymark Corp.....John Holdren

Our special thanks to *Environmental Testing & Analysis* for advertising our meeting in the magazine.

Sunday / July 18, 1993 / Afternoon

4:00 - 6:00 REGISTRATION

Meetings and Exhibits are to be held in the ISLAND BALLROOMS

Door Prizes will be drawn at the end of each morning and afternoon session. You must be ON TIME at the beginning of each session to receive a door prize ticket and BE PRESENT AT THE DRAWING TO WIN.

Monday / July 19, 1993 / Morning

7:30 - 8:00 REGISTRATION

8:00 - 8:30 Welcome
Introduction and Announcement - W. George Fong

1. 8:30 - 10:00 Mass Spectrometry for Pesticides: Progress Update - **Dr. Thomas Cairns, Keynote Speaker**
Residue Analysis

10:00 - 10:30 BREAK - VISIT EXHIBITS
Refreshments - Courtesy of Dionex Corp and J. T. Baker

2. 10:30 - 10:50 Analysis of Organochlorine Pesticides Utilizing a Novel Injection Port - **Anne S. Williams**

3. 10:50 - 11:05 Effect of Injector Liner in GC Analysis for Triazolinone Herbicide and its Hydroxy Metabolite - **In-Young Kim**

4. 11:05 - 11:25 Performance of NPD in Residual Pesticide Analysis - **Rollen J. Anderson**

5. 11:25 - 11:40 Matrix-Enhanced Response for Selected Pesticides Analyzed by Gas Chromatography - **Pat Beckett**

6. 11:40 - 11:50 Update on the South Carolina Water Resources Commission **Betsy A. Copper**

11:50 - 12:00 DOOR PRIZE DRAWING (must be present to win)
12:00 - 1:30 LUNCH (on your own)

Monday / July 19, 1993 / Afternoon

7. 1:30 - 1:40 Maryland State Report - **Stanley Daniello**

8. 1:40 - 2:00 Comparison Study of Turbovap and KD Concentrations of Selected Chlorinated Hydrocarbons and PCB's in Fats - **Anna R. Sullivan**

9. 2:00 - 2:15 Termiticide Residue Study - **Reba Ingram**

10. 2:15 - 2:20 Mississippi Pesticide Residue Report - **Rubel Cowart**

11. 2:20 - 2:50 The New Chemical Analysis Laboratory in the Hawaii Department of Agriculture - Technical Methods and Summary of Duties - **Dr. David Klein**

12. 2:50 - 3:00 Florida Department of Agriculture - Chemical Residue Laboratory - Annual Report - **Gail Parker**

3:00 - 3:30 **BREAK - VISIT EXHIBITORS**
Refreshments - Courtesy of Ohmicron

13. 3:30 - 3:50 Comparison of Magnetic Particle-Based Enzyme-Linked-Immunosorbent Assay (ELISA) with GLC and HPLC for the Quantitation of Atrazine, Alachlor and Carbofuran in Water and Soils - **L. R. Marti** and **R. A. Leonard**

14. 3:50 - 4:00 New Developments in "Ab- or Ad- sorption" Matrix Materials for the Removal of Pesticides from Rinsates, Two Phase-Rinsate Filtration Systems and Biodegradable Compost- Systems of Pesticides - **Dr. R. W. Young**

15. 4:00 - 4:15 A Survey of Low PPB Pesticide Residues in Produce - **Herbert J. Schattenberg**

16. 4:15 - 4:35 Safety Issues and The Design of a New Laboratory Facility - **Mike Sutton**

4:35 - 4:45 DOOR PRIZE DRAWING (must be present to win)

6:00 - 7:00 **Get Acquainted Reception - Courtesy of TradeWinds Hotel**

Tuesday / July 20, 1993 / Morning

	7:00 -	8:00	CHECK SAMPLE COMMITTEE MEETING (committee members only)
	7:30 -	8:00	REGISTRATION
17.	8:00 -	8:15	Current EPA Approaches to Estimating Pesticide Residues in Food - **Dr. Richard D. Schmitt**
18.	8:15 -	8:35	1993 Update Pesticide Data Program - **Dr. Robert Epstein**
19.	8:35 -	8:55	What Happens to Data When It Leaves the Lab - Residue Data for Exposure Analyses and Risk Assessment - **Dr. J. R. Tomerlin**
20.	8:55 -	9:15	The Role of the NEIC in FIFRA Cooperative Enforcement Agreements - **Dr. Elizabeth A. Mishalanie**
21.	9:15 -	9:35	An HPLC Instrument Vendor's Response to GLP/GALP Requirements - **Dr. Michael Thomas**
22.	9:35 -	9:55	Important Case Law and Legal Discussion Regarding Pesticides - **Janis A. Morelli, Esq.**
	9:55 -	**10:30**	**BREAK - VISIT EXHIBITS** **Refreshments Courtesy of Perkin Elmer and SGE, Incorporated**

10:45

23.	10:30 -	11:00	The Stability of National Pesticide Survey Group One Pesticides on Empore Extraction Disks - **Dr. Anson Moye**
24.	11:00 -	11:20	Solid Phase Extraction of Environmental Samples for Pesticides , PAH's and PCB's - **Thomas D. Mathews**
25.	11:20 -	11:40	Solid Phase Extraction - A pollution Prevention Opportunity - **Susan Price**
26.	11:40 -	11:55	Highlights of the FDA Southeast Laboratory Pesticide Activities - **John A. Pardue**
	11:55 -	12:05	DOOR PRIZE DRAWING (must be present to win)
	12:00 -	1:30	LUNCH (on your own)

Tuesday / July 20, 1993 / Afternoon

27.	1:30 -	1:45	EPA Automated Mercury Analysis of Soils - **Dr. Linda Zuvich** and **James B. Wstmoreland**

28. 1:45 - 2:00 Methyl Mercury Analysis: Now You See It, Now You Don't. - **Mark French**

29. 2:00 - 2:20 Application of NMR Spectroscopy to the Identification of Pesticide Residue in Environmental and Biological Matrices - **Dr. M. E. Krolski**

30. 2:20 - 2:40 The Analysis of Picogram Levels of Some Environmentally Harmful Compounds by GC/Cryogenic Trapping FT-IR - **David J. Johnson** and **Wendy King**

31. 2:40 - 3:00 Automated Extraction and Extract Concentration for Fats and Pesticides - **Evelyn E. Conard**

3:00 - 3:30 BREAK - VISIT EXHIBITS
Refreshments - Courtesy of Shimadzu Scientific Instruments

32. 3:30 - 3:50 Coupling Off-Line Supercritical Fluid Extraction to Gas Chromatography - **Dr. Philip L. Wylie**

33. 3:50 - 4:10 New Development in the use of SFE for Sample Preparation for Pesticide Determinations - **Dr. Joseph M. Levy and Scott Elkins**

34. 4:10 - 4:30 Pesticides in Air - An Update - **Joanne Cook** and **Nancy MacEwen**

35. 4:30 - 4:50 Fast Turnaround Methods for PAH Analysis - **Gene A. Dalton**

4:50 - 5:00 DOOR PRIZE DRAWING (must be present to win)

Wednesday / July 21, 1993 / Morning

7:30 - 8:00 REGISTRATION

36. 8:00 - 8:15 EPA Method Validation Program - **Harvey K. Hundley**

37. 8:15 - 8:45 Automated Sample Pretreatment Methods for the HPLC Determination of N-Methylcarbamate and Phenylurea Herbicides in Water and Crop Samples - **Dr. Andre de Kok**

38. 8:45 - 9:05 HPLC Column Switching in Residue Analysis - **Dr. Robert E. M. Wurz**

39. 9:05 - 9:20 Coca-Cola Foods Pesticide Analysis Program - **Susan K. Martin**

40. 9:20 - 9:40 Environmental Analysis of Benomyl: A Discussion of Hydrolysis Kinetics and Methodology - **Michael J. Page**

41. 9:40 - 9:55 Determination of Benomyl, Thiabendazole, 2,4-D, Bromoxynil in Various Fruits and Vegetables - **Harry Richardson**

9:55 - 10:30 **BREAK - VISIT EXHIBITS**
Refreshments Courtesy of Southern Technical Sales, Inc. and Hewlett-Packard

42. 10:30 - 10:45 Determination of 2-Aminobenzimidazole and 5-Hydroxy-thiobedazole, Metabolites of Bezimidazole Fungicides, Benomyl and Thiabendazole by Ion-Pairing HPLC - **Dalia M. Gilvydia**

43. 10:45 - 11:00 Benzyl Esters of Phenoxyacetic Acids - **Dr. Alan P. Thio** and **Milton J. Kornet**

44. 11:00 - 11:20 Carbaryl, 1-Naphthyl-N-Methylcarbamate: Penetration into and Metabolism by Southern Pine Beetle and Spruce Beetle - **Harry Zhong**

45. 11:20 - 11:40 A Multiresidue Analytical Approach for Low PPB Screening of Pesticides in Produce - **Dr. Paul L. W. Geno**

46. 11:40 - 11:55 Analysis of Pesticides in Fruits and Vegetables by Bench-top GC/MSD with Selected Ion Monitoring - **Dr. Ping Liu**

11:55 - 12:05 **DOOR PRIZE DRAWING (must be present to win)**

General Meeting Adjourns

12:05 - 12:35 ANNUAL CHECK SAMPLE REPORT (open to all SSCS participants and interested parties)

Wednesday / July 21, 1993 / AFTERNOON

1:30 - 4:00 VENDORS SEMINARS
Details and Sign-up at the Registration Desk

SPONSORED BY: Dionex / Gilson / Ohmicron / Shimadzu

THANK YOU FOR ATTENDING THE
30TH ANNUAL PESTICIDE RESIDUE WORKSHOP
HOPE TO SEE YOU NEXT YEAR

******* 1994 Meetings *******

California Pesticide Residue Workshop
February 7-11, 1994

Florida Pesticide Residue Workshop
July 17-20, 1994

Program Speakers

Anderson, Rollen J.; Tremetrics; 2215 Grand Avenue Pkwy; Austin, TX 78728; **4**

Beckett, Pat; Florida Department of Agriculture & Consumer Services; Chemical Residue Laboratory; 3125 Conner Boulevard; Tallahassee, FL 32399-1650; **5**

Cairns, Dr. Thomas; Food and Drug Administration, 1521 Pico Boulevard, Los Angeles, CA 90015 **1**

Conrad, Evelyn E.; ABC Laboratories, 7200 E. ABC Lane, P. O. Box 1097, Columbia, MO 65202 **31**

Cook, Joanne; Same as MacEwen, **34**

Cooper, Betsy A.; South Carolina Water Resource Commission, 1201 Main Street, Suite 1100, Columbia, SC 29201 **6**

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