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Certified Professional Chemist

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FORMAL ACADEMIC HISTORY:

Date of Completion	Degree	Major	Institution
1984	M.Ed.	Personnel and Industrial relations	University of North Texas
1979	courses	Clinical Chemistry	University of Alabama School of Medicine
1975	Ph.D.	Biochemistry	Louisiana State University
1971	B.A.	Chemistry	Louisiana Tech University
1967	Diploma	General	Central HS, Baton Rouge, LA

HONORS AND AWARDS:

Fellow of the American Chemical Society, 2010
Salute to Excellence Award, Dallas-Fort Worth Section of the ACS, 2009
Wilfred T. Doherty Award, Dallas-Fort Worth Section of the ACS, 2007
EPA Presidential Green Chemistry Challenge, Small Business Award Winner, 2006
Honorary Fellow of the American Institute of Chemists, 2002

PROFESSIONAL EXPERIENCE:

2011-present Editor, **Southwest Retort**: editor of 5-section publication for the DFW Section of the ACS

1982-present **Arkon** Consultants: Proprietor: industrial chemical consulting; expert witness
Product development and specialty analysis; surfactant products

1983-present **Adjunct Instructor**: Development and presentation of chemistry courses
2007-present University of Dallas, Irving, TX: Department of Chemistry
1999-2004 Tarrant County College, Northeast Campus, Hurst, TX: Natural Sciences Division
1992-1993 Brookhaven College, Dallas, TX: Science and Math Division
1983-1989 Richland College, Dallas, TX: Math and Sciences Division

1994-1998 **Brookhaven College**, Dallas, TX: Coordinator, Environmental Technology Training Program

1993-1994 **Brookhaven College**, Dallas, TX: Content specialist and DACUM Coordinator
Office of Instructional Development
Development of curriculum for 2-year associates' program for Environmental Technician (Grant funded by the Texas Higher Education Coordination Board, Carl D. Perkins Vocational and Applied Technical Education Act).

1981-1982 **Rockwood Systems Corporation**, Dallas, TX: Chief Chemist
Organization of R&D program in high-expansion foams and surfactants

1980-1981 **Texas Wesleyan College**, Fort Worth, TX: Temporary Assistant Professor
Development and presentation of courses

1978-1979 **University of Alabama School of Medicine**, Clinical Pathology, Birmingham: Clinical fellow
Development and implementation of clinical methodology

1975-1978 **Johns Hopkins University**, Department of Biophysics, Baltimore, MD: Research Fellow
Independent development and implementation of research in neuronal cell culture and mechanism of neuroactive compounds; Organization of tissue culture facility
Grant proposal for DHEW Public Health Service fellowship and research support (approved and funded 1976-78)
Development of novel brain cell culture system

1971-1975 **Louisiana State University**, Department of Biochemistry, Baton Rouge, LA: graduate student
Research in inhibitory mechanisms of polychlorinated organic compounds
Organization and supervision of undergraduate laboratory courses

Undergraduate activities:

1970 Argonne National Laboratory, Argonne, IL: Summer Research Student. Methodology research
1967-1971 Louisiana Tech, Ruston, LA: Laboratory assistant
Supervision of organic laboratory courses (junior and senior years)

ABBREVIATIONS:

ACS American Chemical Society
AIC American Institute of Chemists
ASBC American Society of Biological Chemists
AACC American Association of Clinical Chemistry
ASN American Society for Neurochemistry
ACT2 Association of Chemistry Teachers of Texas

PUBLICATIONS and PUBLISHED ABSTRACTS *:

Hendrickson, C. and Bowden, J. A.: The in vitro inhibition of lactic acid dehydrogenase by selected polychlorinated pesticides. *Fed. Proc.* 32: 235, 1973 *.

Hendrickson, C. and Bowden, J. A.: Proposed mechanism for inhibition of NADH-linked dehydrogenases by halogenated pesticides. *Fed. Proc.* 34: 506, 1975 *.

Hendrickson, C. and Bowden, J. A.: The in vitro inhibition of rabbit muscle lactic dehydrogenase by mirex and kepone. *J. Ag. Food Chem.* 23: 407-409, 1975.

Hendrickson, C. and Bowden, J. A.: The inhibition of lactic dehydrogenase by insecticidal polychlorinated hydrocarbons. 1. Mechanism of inhibition and possible association of NAD(H) with mirex. *J. Ag. Food Chem.* 24:241-244, 1976.

Hendrickson, C. and Bowden, J. A.: The inhibition of lactic dehydrogenase by insecticidal polychlorinated hydrocarbons. 2. Inhibition by dieldrin and related compounds. *J. Ag. Food Chem.* 24: 756-759, 1976.

Hendrickson, C. and Lin, S.: Glia-free neuronal preparation from embryonic chick brain. *Fed. Proc.* 36: 515, 1977 *.

Hendrickson, C. and Lin, S.: The opiate receptor in neuronal cells isolated from embryonic chick brain. *Proc. American Soc. Neurochemistry*, 1978 *.

Hendrickson, C. and Lin, S.: Isolation of surface membranes from embryonic chick brain neuronal cells containing stereospecific opiate receptors. *Fed. Proc.* 37: 210, 1978 *.

Hendrickson, C. and Lin, S.: Opiate receptors in highly purified neuronal cell populations from embryonic chick brain. *Neuropharmacology* 19: 731-739, 1980.

Hendrickson, C.: Problems associated with models of cytoplasmic streaming in glass microcapillaries. *Arch. Biochem. Biophys.* 210: 537-539, 1981.

Hendrickson, C.: The consulting chemist & the organizational system. *The Chemist* 64(5): 8-9, 1987.

Hendrickson, C. and Lin, S.: Isolation of surface membranes from neuronal and nonneuronal cell populations from embryonic chick brain: Opiate receptor activity of neuronal membranes. *Neuroscience Lett.* 46: 109-114, 1984.

Hendrickson, C.: Women chemists as consultants. *The Chemist* 66(10): 14, 1989.

Hendrickson, C.: Ultra stabilized high expansion foams. US Patent No. 4,836,939, 1989.

Hendrickson, C.: Use of highly stabilized high expansion foams in fighting forest fires. In *FIRE AND POLYMERS*, G. Nelson, ed., pp. 450-457, ACS, Washington, DC, 1990.

Hendrickson, C.: The H in HI&I: Ingredient classes in the household products industry. *Symposia: ACS Division of Chemical Marketing and Economics*, 173-180, 1990.

Hendrickson, C.: The consulting process. *CHEMTECH* 20(10): 598-601, 1990.

- Hendrickson, C.: Additives for emulsification. *Symposia: ACS Division of Chemical Marketing and Economics*, pp.125-130, 1990.
- Hendrickson, C. and Bradford, D.: Developing solvent for photopolymerizable printing plates [methyl esters]. US Patent No. 6,582,886, 2003.
- Hendrickson, C. and Bradford, D.: Terpene ether developing solvent for photopolymerizable printing plates. US Patent No. 6,897,008, 2005.
- Hendrickson, C. and Bradford, D.: Methods for reclaiming developing solvents. US Patent No. 7,326,353, 2008.
- Hendrickson, C. and Bradford, D.: Substituted benzene developing solvent for photopolymerizable printing plates. US Patent No. 7,413,849, 2008.
- Hendrickson, C. and Bradford, D.: Alkyl ester developing solvent for photopolymerizable printing plates. Published application 20040142282.
- Hendrickson, C. and Bradford, D.: Method for reclaiming alkyl esters. Published application 20040091824.
- Decker, D. and Hendrickson, C.: Lamp oil and lighter fluid composition. US Patent No. 7,524,339, 2009.
- Spurgeon, J. and Hendrickson, C.: Urine gender test. US Patent No. 8,614,098, 2013.
- Spurgeon, J. and Hendrickson, C.: Urine gender test kit. US Patent No. 8,623,664, 2014.
- Merkle, D. and Hendrickson, C.: Means to culture cochineal insects in an artificial medium. US Patent No. 8,445,282, 2013.
- Merkle, D. and Hendrickson, C.: Means to culture cochineal insects in an artificial medium. US Patent No. 8,919,281, 2014.
- Merkle, D. and Hendrickson, C.: Method for harvesting cochineal wax from cochineal insects grown on an artificial medium. US Patent No. 9,049,880, 2015.
- Merkle, D. and Hendrickson, C.: System and methodology for culturing cochineal insects on an artificial medium. U.S. 9,497,946, 2016.
- Merkle, D. and Hendrickson, C.: Method for harvesting cochineal wax from cochineal insects grown on an artificial medium. US Patent No. 9,822,282, 2017.
- Merkle, D. and Hendrickson, C.: System and methodology for culturing cochineal insects on an artificial medium. US Patent No. 10,188,085 B2, 2019.
- Hendrickson, C., Merkle, D., Spurgeon, J., and Spurgeon, G.: Gender Determination Method. Patent pending, 2011.
- PRESENTATIONS:** * published abstract
- The effect of various pesticides and related compounds on crystalline rabbit muscle lactic dehydrogenase.* 29th SW Regional ACS Meeting, Baton Rouge, LA; 1972, with J. Bowden and R. S. Allen.
- The in vitro inhibition of lactic acid dehydrogenase by selected polychlorinated pesticides.* ASBC Annual Meeting 1973, with J. Bowden.
- A proposed mechanism for the inhibition of NADH-linked dehydrogenases by halogenated hydrocarbon pesticides.* ASBC Annual Meeting 1975, with J. Bowden.
- Glia-free neuronal preparation from embryonic chick brain.* ASBC Annual Meeting 1977, with S. Lin.
- Opiate receptor in neuronal cells isolated from embryonic chick brain.* ASN Meeting 1978, with S. Lin.
- Isolation of surface membranes from embryonic chick brain neuronal cells containing stereospecific opiate receptors.* ASBC Annual Meeting 1978, with S. Lin.
- Bioluminescent detection of bacteria.* AACC, Texas Section Spring Meeting, 1981.
- The consulting chemist and working within the organizational system.* AIC Annual Meeting, 1986.
- Aqueous surfactant foams for control of hazardous material spills.* ACS SW Regional Meeting, 1986.
- Kitchen chemistry and magic shows.* ACS National Meeting, Los Angeles, CA, 1988.
- * *Use of highly stabilized high expansion foams in fighting forest fires.* ACS Natl Meeting, Dallas, 1989.

- * *Surfactants: Consulting across many industries.* AIC Annual Meeting, Orlando, FL, 1990.
- * *Additives for emulsification.* ACS National Meeting, Atlanta, GA, 1991.
- * *Surfactant changes to meet environmental needs.* AIC Annual Meeting, Indianapolis, IN, 1994.
- * *Career changes and choices.* ACS National Meeting, San Diego, CA, 1994.
- Training the chemical technician.* AIC National Meeting, Charlotte, NC, 1996.
- * *Certifying the chemical technician.* ACS National Meeting, San Diego, CA, 2001.
- * *Flexographic printing: Environmentally safe washout solvents.* ACS SWRM, Fort Worth, TX, 2004.
- Environmentally safe washout solvents and reclaim systems.* GreenChem2006, Washington, DC, 2006
- * *Reduction of VOC emissions in flexographic washout solvents.* GreenChem2006, Washington, DC, 2006

SYMPOSIA and MEETINGS ORGANIZED:

- Chemicals in Consumer Products: Household, Personal Care, and Automotive.* Division of Chemical Marketing and Economics, ACS National Meeting, Dallas, TX, 1989.
- Communications for the Small Business Person.* Division of Small Chemical Businesses, ACS National Meeting, Dallas, TX, 1989.
- Issues for Consultants.* AIC National Meeting, Orlando, FL, 1990.
- Career Changes, Career Choices.* AIC National Meeting, San Antonio, TX, 1992.
- National Certification Program.* AIC National Meeting, Sunnyvale, CA, 1995.
- Training the Chemical Technician.* AIC National Meeting, Charlotte, NC, 1996.
- Environmental Responsibility: Green Chemistry in Industry and Academics.* ACS SWRM, Fort Worth, 2004.
- ACS Southwest Regional Meeting, Fort Worth, TX, Sept. 2004. Program Chair.

OTHER PROFESSIONAL ACTIVITIES, ORGANIZATIONS, and RECOGNITIONS:

- New York Academy of Sciences: elected 1973
- DHEW Public Health Service Fellow, 1976-1978
- American Men and Women in Science: elected 1977
- NSF Undergraduate Instrumentation and Laboratory Improvement (ILI) grant, Brookhaven College, 1996
- NSF Undergraduate Instrumentation and Laboratory Improvement (ILI), Panel reviewer, 1997
- WECM (Workforce Education Course Manual), 1997: Content specialist (worked with other faculty members to finalize environmental technology program descriptions and competencies)
- American Chemical Society, Dallas-Fort Worth Section: Chair-Elect/Chair 1987-88;
Editor, *Southwest RETORT* (DFW Section magazine), 2011-present
- ACS National Division of Business Development and Management [formerly Chemical Marketing and Economics], Newsletter editor 1987-88; Executive committee 1988-89; Publications chair 1989;
Treasurer 1990-1999
- American Institute of Chemists: Treasurer 1990; President-Elect 1996-1997; President 1998-1999;
Chairman of the Board 2000-2001
- National Certification Commission for Chemists and Chemical Engineers: Chair 1992-95
Chair, *ad hoc* Committee for Certification Advancement: creation of certification program and examination for chemical technicians

PROFESSIONAL CERTIFICATIONS:

- Certified Professional Chemist: National Certification Commission for Chemists and Chemical Engineers