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EDUCATION

- B.S. Chemistry, East Carolina University, 1968.
- M.S. and Ph.D., Chemistry, Emory University, 1973.
- Postdoctoral, Medicinal Chemistry, Kansas University, 1974.

PUBLISHED BIOGRAPHICAL INFORMATION

- Who's Who in Frontiers of Science and Technology.
- American Men And Women in Science.

CERTIFICATES

- Researcher license #10410, Tennessee Board of Pharmacy & Department of Health and Environment.
- Medical Review Officer (MRO) training course, Chicago, November 1-3, 1996.
- National Highway Traffic Safety Administration Approved Sobriety Testing and Training Course, Atlanta, July 29-30, 1994.
- Manufacturer's course on the theory and practice of infrared breath-alcohol testing, National Patent Analytical Systems, Mansfield, Ohio, June 3, 1992.

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MEMBERSHIPS

- American Chemical Society (23 years).
- American Association For the Advancement of Science (11 years).
- Metropolitan Atlanta Council on Alcohol and Drugs, a United Way Agency (formerly on Board of Directors).

FORENSIC STUDY

- Tested a large variety of controlled substances at Scotland Yard's Forensic Sciences Laboratories in London, England, October 1975.
- Conducted numerous independent examinations and testing of evidence at various American crime labs & the Virgin Islands since 1975.
- Conducted studies regarding u/a testing at the United States Army Forensic Laboratory, Wiesbaden, West Germany, July 1986.
- Researched marijuana cultivation, laboratory testing and smell identification at the Institute of Pharmaceutical Sciences (United States government marijuana farm), Oxford, Mississippi, May 1980.

- Participant, variable surface tracking (VST) dog sessions, American Kennel Club, Athens, GA, October 1994.

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AUTHORED WORK

- Endogenous Alcohol in Blood Can Add to BAC Levels, Proceedings of the 51st Annual Meeting of the American Academy of Forensic Sciences, Abstract No. E-10, page 133, 1999.
- Interview: Crime Lab Shortcuts Make For Bad Chemistry In Court, Bureau of National Affairs, Criminal Practice Manual, Volume 9 (12), page 281, 1995.
- Guidelines for DUI-Drug Recognition Expert Cases, (co-author) American Academy of Forensic Sciences, 40th Annual Meeting, San Antonio, Abstract No. E-15, page 124, 1994.
- Affidavit, Drug Testing Legal Manual, Clark Boardman Co., page B8-1, 1989.
- Forensic Comparison of Signatures in Alcohol-related Cases, DWI Journal, Volume 3, page 1, 1988.
- Sex Bias in the DWI Scale for Blood Alcohol Testing, DWI Journal, Volume 3(7), page 4, 1988.
- Using Electronystagmography to Determine Alcohol Tolerance, DWI Journal, Volume 3 (5), page 6, 1988.
- Henry's Law: Basis to Impeach Computer Software, DWI Journal, Volume 2(9), 1987.
- Variations in Blood Testing, DWI Journal, Volume 1, page 61, 1986.
- Detection of Neurotoxin, MPTP: A Neurotoxin Producing a Parkinsonian Syndrome, Academic Press, New York, (co-authored field-test method) page 543, 1986.
- The Relation Between Paraquat Spills and Brain Damage, DEA Final Environmental Impact Statement, Ace-Federal Reporters, Washington, D.C., page 282, 1986.
- Assay for Neurotoxin, Symposium on MPTP, (co-authored poster session) Department of Neurology, Uniformed University of the Health Sciences, Bethesda, Maryland, page 61, 1985.
- How to Interpret Breath Alcohol Reports, Library of Congress 83-51151, 1983.
- Synthesis of 5-substituted 2'-deoxyuridines, Journal of Medicinal Chemistry, (co-author) Volume 19, page 909, 1976.

- Screening Procedures For Drugs, Journal of Chromatography, Volume 115 (2), page 678, 1975.
- Synthesis of the Alpha and Beta Anomers of 1- (2-deoxy-D-ribofuranosyl)-4'-pyridone, Journal of Medicinal Chemistry, (co-author), Volume 17, page 1027, 1974.
- Synthesis and Cyclization. An approach to pseudo-santonin (ingredient in the alcoholic beverage absinthe), Dissertation Abstracts International, Volume 34(2), page 603, 1973.
- The Gas-phase Synthesis and Reactions of Bromamine, Inorganic Chemistry, (co-author) Volume 8 (4), page 998, 1969.

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ACKNOWLEDGMENTS

- Criminal Practice Report, Who Really Knows What a Dog's Nose Knows? Pike & Fischer, Inc. (subsidiary of The Bureau of National Affairs) Volume 12, No. 23, page 462, 1998.
- Indoor Air Pollution and Health, Marcel Dekker, Inc., Chapter 15, page 337, 1996.
- American Bar Association Journal, August issue, page 22, 1993.
- Electronic Supervisor (United States Congress Office of Technology Assessment), Document OTA-CIT-333, pages 133-4, 1987.
- Journal of Immunological Methods, Volume 101, page 50, 1987.
- Substance Abuse Report, April issue, page 7, 1986.
- Bigger Secrets, Houghton Mifflin Co., Boston, Chapter 10, page 77, 1986.
- Designer Drugs, CompCare Publications, Minneapolis, Chapter 5, page 111, 1986.
- The Champion, Volume IX (4), page 4, 1985.
- Substance Abuse: Pharmacologic and Clinical Perspectives, John Wiley and Sons, New York, page 63, 1983.
- Analytical Chemistry Reviews, Volume 51 (5), page 258R, 1979.

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RESEARCH GRANTS

- United States Public Health Service (Department of Health & Human Services) CA54401 and CA55401.

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PATENTS

- United States Patent No. 4,260,517, Odor of Cocaine, a pseudo-narcotic. Formulation tested and found effective in United States Customs Dog Proficiency Training Studies, 1979. Mimicking the Odor of Cocaine for Police Use, New York Times, April 11, 1981. Evaluated for human use in treatment of cocaine dependency, Journal of Clinical Psychopharmacology, Volume 12 (1), page 61, 1984. Confirmed as the dominant cocaine odor on circulated currency (Proceedings of the 51st Annual Meeting of the American Academy of Forensic Sciences, Abstract No. B-28, page 33, 1999).
- United States Patent No. 4,843,020, An Improved Method for Detecting THC-metabolite, solutions to eliminate endogenous substances that cause false-positive test results.