

CURRICULUM VITA

Joseph H. Guth, PH.D., CIH

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EDUCATIONAL BACKGROUND

University of California at Los Angeles, Chemistry major, Molecular Genetics minor, 1960-64

U.S. Army Chemical School, Certificate, Chemical Laboratory Specialist (Chemical, Biological and Radiological Warfare Training), 1964, Research in Quantum Chemistry of Toxic Compounds and Antidote Development

U. S. Department of Agriculture Workshop on "Analytical Techniques in Plant, Soil and Water Testing", University of California, Davis, 1969

Veterans Administration Medical Center Hospital, General Clinical Laboratory Technician Training Course, Palo Alto, CA, 1970 - 72

University of California, Berkeley - B.S. Chemistry, 1970, Chemistry Major, Biochemistry Minor

University of California, Berkeley - Ph.D. Biophysics and Biochemistry, 1975, Research in Biological Membrane Transport and Other Functions, Mitochondria and Bioenergetics, Glycolipid and Glycoprotein Synthesis and Functions, Metabolic Poisons, Control of Cell Division, and Roles of Intracellular Calcium in Aging, Cancer and Metabolic Regulation

University of Wisconsin, Madison, WI - Joint Postdoctoral Fellowship in Endocrinology/Enzymology, 1975-6, Research in Endocrinology, Cellular Aging and Cancer

American Board of Industrial Hygiene, Certified Industrial Hygienist (in *Comprehensive Practice* including *Toxicology*) December, 1987 – Present Certification No. 3755

NIOSH/USPHS Course and Workshop 582 in "Asbestos Evaluation", University of Texas, Houston, TX, 1979

University of North Carolina School of Public Health, Advanced Industrial Hygiene Course, 1980

University of North Carolina School of Public Health, Personal Sampling Course, 1980

University of North Carolina School of Public Health, Environmental Exposure Sampling and Statistics Course, 1980

U.S. EPA Course on Advanced Asbestos and Mineral Identification Methods (Course Instructor: Walter McCrone), Atlanta, GA, 1980

Georgia Institute of Technology, Asbestos Glove Bag Course, 1983

Georgia Institute of Technology, Asbestos Abatement Project Cost Estimation Course, 1984

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American Board of Industrial Hygiene, Fundamentals of Industrial Hygiene, May, 1987

University of Cincinnati, Comprehensive Review for Industrial Hygiene Professionals, May, 1987

MAIC / University of Illinois, "EPA-Accredited Certification Course for Building Asbestos Inspection", January, 1988; Refresher Course: Medical College of Virginia, January, 1989

MAIC/University of Illinois, "EPA-Accredited Certification Course for Management Planning", January, 1988; Refresher Course: Medical College of Virginia, February, 1989

Medical College of Virginia, School of Preventive Medicine, "EPA-Accredited Certification Course for Asbestos Contract Supervisors & Project Designers", February, 1988; Refresher Course: Medical College of Virginia, February, 1989

Asbestos Consulting and Training Systems, "Asbestos Contractor/Supervisor Course", June, 1996

Asbestos Consulting and Training Systems, "AHERA Building Asbestos Inspector Course", April, 1998

Asbestos Consulting and Training Systems, "AHERA Building Asbestos Management Planner Course", April, 1998

A. H. Reppert & Associates, Inc., "Lead Inspector/Risk Assessor Initial Course", January, 1997

Seagull Consulting and Training Systems, "AHERA Building Inspector Course, April, 1998

Seagull Consulting and Training Systems, "AHERA Management Planner Course, April, 1998

Niton Corporation, "Training Course for the Niton XRF Spectrum Analyzer" (Certified in Radiation Safety and Lead Monitoring, Measurement Technology, and Machine Maintenance), September, 1999

U.S. Army Medical Research and Materiel Command, Course: "Biological and Chemical Warfare and Terrorism", November, 2001

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WORK EXPERIENCE

President/Principle, Scientific and Forensic Services, Inc., Independent Expert Witness and Scientific Consultation, Industrial Hygiene, Health & Safety, OSHA, Asbestos and General Toxic Torts Litigation Support, Hazardous Exposure Risk Assessment and Modeling, Health & Safety Programs, Warning Labeling, General Forensic Science Litigation Support, Personal Injury and Product Liability Litigation Support, 1997 - Present, Norfolk, VA

President/Laboratory Director/Owner, Interscience Research, Inc., Industrial Hygiene, Asbestos Sampling and Analysis and Research, Asbestos Project Design, Specification Writing and Abatement Supervision, Asbestos Exposure Risk Assessments, Expert Witness and Consultations, General Analytical Chemistry, Contract Research, Routine/Non-routine Testing and Quality Control, Legal/Forensic Studies, Environmental Audits, Water Testing, Environmental Microbiology, PCB Testing, Hazardous Waste Testing, Indoor Air Quality Evaluations, Metallurgy, Materials Science, Compressed Gas Testing, Compressed Air Purity Testing, Petroleum Specification Testing, General Product Specification Testing, Polymer Testing, Abrasive Blasting Media Testing, Food Testing, Cosmetics Research, FDA Compliance Testing, EPA Compliance Testing, Military Specification Testing, Toxicological and Bioassay Testing, 1978-1997, Norfolk, VA

Assistant Professor of Chemical Science, Department of Chemical Sciences, Old Dominion University, Norfolk, VA, 1976-79, Teaching and Research (Cell Aging and Carcinogenesis)

Chemist/Owner - Interscience Research Group, Los Angeles, CA 1966-69; Palo Alto, CA, 1970-72, General Analytical and Industrial Chemistry

Research Chemist, U.S. Army Chemical Warfare Center, Edgewood Arsenal, MD, 1964-65, Quantum Chemistry of Toxicological Agents/Antidotes (Calculation of Molecular Properties for Prediction of Antidote Structure and Activities); Research in Sampling and Decontamination Procedures for Chemical, Biological and Radiological Warfare Applications

Laboratory Technician, Department of Biological Chemistry, University of California, Los Angeles, 1961-63, Biochemical and Cancer Research

Laboratory Assistant, Department of Infectious Diseases, University of California, Los Angeles, 1960-61, Biomedical and Cancer Research Projects; Infectious Diseases Research

SOCIETIES

(Current and Past Memberships)

American Chemical Society

Association of Official Analytical Chemists

American Society for Testing and Materials

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Diplomate, American Board of Industrial Hygiene (*Comprehensive Practice, Cert. 3755*)

American Industrial Hygiene Association

National Asbestos Council (Charter Member)

Environmental Information Association

Sigma Xi

American Association for the Advancement of Science

Virginia Academy of Science

New York Academy of Science

Biophysical Society

American Association of University Professors

Tissue Culture Association

International Association of Arson Investigators

Mid-Atlantic Association of Forensic Scientists

Society of Forensic Toxicologists

American Textile Chemists & Colorists Society

HONORS

Pioneer in Science Award (Future Engineers of America), 1959

Scholar designate of the Committee for Advanced Science Training (National Science Foundation), 1960

President, Foundation for the Study of Aging, New York, 1978-1988

National Asbestos Council (member of the Sampling and Analysis, Contract Specification and Membership Committees, 1984 - 1992; Founder and Chairman of the Asbestos Surface Contamination Evaluation Taskforce, 1988-1992)

Peer Reviewer, National Institute for Occupational Safety & Health (Asbestos Control Technology Protocol Assessment), 1985-1988

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Asbestos Technology & Cost Recovery Expert Witness, (Attorney General's Office, Commonwealth of Virginia), 1985

Asbestos Technology & Cost Recovery Expert Witness, (Attorney General's Office, State of Massachusetts), 1985

Consultant and General Forensic Science Expert Witness, (Commonwealth of Virginia Supreme Court), 1986: Commonwealth of Virginia v. Joseph Roger ODell

Consultant/Course Instructor, Virginia Department of Labor and Industry, Virginia Occupational Safety and Health Program for Asbestos (Evaluation of Long-Term Exposure Risk, Detection Survey Techniques, Methods of Sampling and Analysis for Removal Project Monitoring and Clearance), 1986

Peer Reviewer, U.S. EPA (Asbestos Control Technologies & Advisor for Future EPA Research Projects), 1987-1988

Asbestos Consultant & Legal Expert for Norfolk Public Schools (Norfolk, VA), 1986-1987

Asbestos Consultant & Legal Expert for School District of Philadelphia (Philadelphia, PA) in their Asbestos Programs and Resulting Litigation Efforts, 1986

Asbestos Consultant & Legal Expert for Wesley Theological Seminary of the United Methodist Church in Asbestos Litigation, 1987

Peer and Grant Reviewer, National Science Foundation, 1999.

SPECIAL PROJECTS, TRAINING SEMINARS, AND PROFESSIONAL PRESENTATIONS

Indoor Air Quality Science, Instructor and Creator of the first two online education/training courses in the science, engineering, evaluation and abatement of indoor air quality problems for professionals, 1999 - present

Asbestos Training Courses, Developed, sponsored and instructed the *first* U.S. seminar/training courses on Asbestos Removal Procedures for Abatement Contractors and on Specification Writing for Architects in conjunction with the University of North Carolina, School of Public Health-Chapel Hill and Commonwealth of Virginia Department of public Health, 1980 (Williamsburg, VA)

Instructor, Asbestos Abatement Worker Training Course, repeatedly presented to hundreds of workers, 1980-1988

Instructor, Asbestos Abatement Air Sampling Training Course, repeatedly presented to hundreds of workers, 1980-1988

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Instructor, Asbestos Glovebag and Specialized Removal Procedures Workshop, repeatedly presented to hundreds of workers, 1980-1989

Instructor, Asbestos Hazards and Abatement Procedures in Schools, presented to Administration and Teachers' union, School District of Philadelphia. PA 1984

Instructor, Supervisory Asbestos Removal Training Course, presented to hundreds of workers, 1986-1988

Instructor, Technical Aspects of Asbestos Personal Injury Litigation presented at 1st Annual INTERSCIENCE RESEARCH, INC. Forensic Sciences Seminar. 1985

Instructor, Presented two, one-day seminars on Asbestos Operations and Maintenance Programs to attendees of the Building and Grounds Maintenance Magazine Special Seminar Series (Philadelphia, PA, and Washington, DC), 1985

Consultant, on Asbestos Assessment and Abatement Practices, U.S. Fish & Wildlife, Patuxent River, MD, 1985

Instructor, Presented two, half-day seminars to Arlington County, VA to government employees on Asbestos Hazards and Management, 1986

PAST AND CURRENT ACCREDITATIONS & CERTIFICATIONS

Certified Industrial Hygienist (Comprehensive Practice including Toxicology), American Board of Industrial Hygiene Diplomate, Certificate No. 3755 (Conferred December 9, 1987 - Present)

Licensed Asbestos Inspector, Virginia Department of Professional and Occupational Regulation, 1997-9

Licensed Asbestos Management Planner, Virginia Department of Professional and Occupational Regulation, 1997-2000

Licensed Lead Inspector/Risk Assessor, Virginia Department of Professional and Occupational Regulation, 1998-2000

(Updated February 6, 2004)

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PUBLICATION LIST

Guth, Joseph H., "Calcium Permeability Studies of Cultured Human Cells: Relation to Cell Proliferation and Aging", Ph.D. Dissertation, University of California, Berkeley, (1975), pp 1-200

Guth, Joseph H., "The Mechanism of Asbestos-Induced Carcinogenesis: Calcium and Plasma Membrane Integrity", Paper Presented to the Virginia Academy of Sciences 59th Meeting, Norfolk VA, May 14, 1981

Guth, Joseph H., "The Mechanism of Asbestos-Induced Carcinogenesis: Calcium and Plasma Membrane Integrity", (Abstract), Virginia Journal of Science, 32, 135 (1981)

Guth, Joseph H., "Effective Programming in Identification and Evaluation of Hazardous Exposures to Asbestos in Public Buildings", (Published by Interscience Research, Inc., 1984)

Guth, Joseph H., "Effective Programming in Identification and Evaluation of Hazardous Exposures to Asbestos in Public Buildings", Paper Presented to the Virginia Safety Association 51st Annual Safety Conference, May 8, 1985

Guth, Joseph H., "A New Ultra-Cleaning Procedure for Asbestos Abatement Projects", Paper Presented at the Central Virginia Safety Association Annual Meeting, March 13, 1986

Guth, Joseph H., "Asbestos in Schools and Buildings: What You Need to Know", (Published by Interscience Research, Inc., May, 1986)

Guth, Joseph H., "Aggressive Sampling Experiences and Surface Monitoring", Paper Presented to the US Environmental Protection Agency, Cincinnati, OH, August 21, 1986, to the Peer Review Panel on Assessment of Asbestos Removal Under Latest Guidance Document Conditions

Guth, Joseph H., "A Guide to Surface Sampling Methodology", Revision 2, Paper Presented at the National Asbestos Council (NAC) Technical Conference, September 19, 1988

Guth, Joseph H., "Density Gradient Separation of Chrysotile Asbestos", NAC Journal, 49-50 (Winter 1988-9)

Guth, Joseph H., "A Guide to Surface Sample Analysis Methodology", Paper Presented at the NAC 6th Annual Conference, March 29, 1989

Guth, Joseph H., "Interpretation of Surface Asbestos Contamination Data: The Closed Finite System Model", Paper Presented at the NAC 6th Annual Conference, March 29, 1989

Guth, Joseph H., "Complete Building Asbestos Evaluation: New Techniques of Detection", Environmental Contractor, pp 66-78 (August, 1990)

Guth, Joseph H., "Outline for the Analysis of Surface Samples by Scanning Electron Microscopy", Paper Presented at the NAC 7th Annual Conference, February 19, 1990

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Guth, Joseph H., "Asbestos Exposure Risk Assessment Through Surface Dust Evaluation", Paper Presented to the National Asbestos Council 6th Annual Conference, September 10, 1990

Guth, Joseph H., "Interpretation of Surface Asbestos Contamination Data: The Closed Finite System Model", Update No. 1, Paper Presented at the NAC 6th Annual Conference, September 10, 1990

Guth, Joseph H., "A Compilation of Surface Evaluation References", Published by Interscience Research, Inc., January 29, 1991

Guth, Joseph H., "Personal Profiling By DNA Back-Calculation", published Virginian-Pilot Opinion-Editorial, 2000

Guth, Joseph H., "With anthrax scare, we need to shut down the mail system temporarily", published Virginian-Pilot Opinion-Editorial, September, 2001 (may be downloaded from Publications page at www.sci-expert.com)

Note: Dr. Guth has published or presented papers and articles in other fields of science that are not listed here.

His websites may be visited for added information and some online publications at:

**<http://www.sci-expert.com>
<http://firms.findlaw.com/jhguth>
<http://iaq.htmlplanet.com>**

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