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Consultant: Chemistry, Industrial Hygiene and Safety

Education: A.B. (1958) in Chemistry from Harvard College; Ph.D. (1963) in Chemistry from M.I.T.

Certification: Certified by American Board of Industrial Hygiene in Chemical Aspects of Industrial Hygiene.

Professional Societies: American Chemical Society; American Academy of Industrial Hygiene; American Industrial Hygiene Association; National Safety Council, including Committee on Alcohol and Other Drugs; Society of Forensic Toxicologists; American Public Health Association

Industrial and Teaching Experience: Analytical Chemist, Avco Research and Advanced Development Division (1959-61); Senior Chemist, National Research Corporation (1962-69); Senior Engineer, Norton Company (1969-70); Vice-President and President, Technology Associates, Inc. (1970-76); Adjunct Assistant Professor of Chemistry, Northeastern University (1978-83); Instructor at Northwestern University Traffic Institute on Alcohol and Vehicular Homicide (1996, 1997); Instructor at Borkestein Course (Alcohol), Indiana University (2001- 2002); Instructor at Suffolk University Law School Center for Advanced Legal Studies: Mastering the Science in Operating Under the Influence Cases (2008); Speaker at seminars and symposia related to alcohol, alcohol analysis, alcohol toxicology, alcohol pharmacokinetics, and blood-alcohol concentration; Author of numerous publications relating to alcohol; Consultant (1976-Present).

Consulting Experience: Chemistry, Hazardous substances, Industrial Hygiene and Safety, Hazardous Waste, Expert Witness - Product Liability, Product Failure, Liquor Liability, Drunk Driving, Drugs and other Criminal Matters, Workmen's Compensation, Exposure to Indoor Air Pollutants, Exposures in Work Environment.

Evaluation and Control of Exposure to Chemicals: OSHA, SARA III and State Right-To-Know Laws (Compliance), Labeling, MSDS Preparation, Protective Clothing, Indoor Air Pollution, Hazardous Consumer Products.

Solvents - Alcohols - Acids - Caustic Materials - Silica - Asbestos - Lead - Beryllium - Metal Fumes - Formaldehyde - Mold - Isocyanates - Pesticides - Dyes - Combustion Products.

Flammability and Explosion Hazards: Fires and explosions, flammable gases, liquids and solids, exploding soft drink bottles.

Outside Professional Activities: Judge (chemical and environmental exhibits) in Boston Globe Science Fair (M.I.T.).