

**Martin D. Barrie, J.D., Ph.D.**  
**100 ORAU Way**  
**P.O. Box 117, MS 23**  
**Oak Ridge, Tennessee 37831**  
**(865) 576-6250**  
**(713) 591-8016**

### **Professional Profile**

Dr. Barrie is an occupational/environmental epidemiologist and health scientist with over 30 years of training and experience in the integrated disciplines of epidemiology, exposure assessment, industrial hygiene, health toxicology and law. His formal education includes both Ph.D. and M.S. degrees from the University of Texas, Health Science Center at Houston, School of Public Health. His Doctoral training was in epidemiology, exposure assessment, and the environmental sciences, and his Masters training was in the environmental sciences, with specialized training in occupational/industrial hygiene and genetic toxicology. Dr. Barrie also holds a Doctor of Jurisprudence degree. Dr. Barrie has practiced as an Occupational/Industrial Hygienist for international companies, performing area and personnel monitoring and exposure assessments in refining, chemical, support, and maritime operations to identify, evaluate and control potential exposures to various chemicals, products and physical agents. As an epidemiologist, Dr. Barrie has regularly been called upon to review, evaluate and characterize the putative and strength of association between exposures to various toxicants and various disease outcomes. Dr. Barrie has studied and investigated numerous environments, occupations, and tasks where chemicals, physical agents and toxicants have been used or are present to assess and characterize exposure and disease/illness risk and strengths of association and currently holds adjunct academic appointments at the University of Texas, Health Science at Houston, School of Public Health and at the Department of Public Health, College of Education, Health, and Human Sciences, University of Tennessee.

Dr. Barrie has worked for international oil and gas, chemical, and support services companies and has been responsible for developing, implementing, and managing health, safety, and environmental (HSE), health toxicology, occupational hygiene, and risk management programs. These activities included developing, implementing, and managing area and personnel occupational and environmental monitoring, sampling, and exposure assessments in refining, chemical, offshore drilling, and support operations to identify, evaluate, and control potential exposures and impacts to various chemicals, products and physical agents, including radiation, noise, solvents, and various particulates, metals, and toxicants. He has conducted quantitative and qualitative exposure/risk assessments, environmental contamination evaluations, environmental impact assessments, hazardous waste handling evaluations, policy and procedure manual development, training, and assessments of community exposures. His research activities have included formaldehyde exposures in mobile homes, the application of the Ames

assay for mutagenicity and predictive carcinogenicity, medical personnel exposures to antineoplastic agents, beryllium exposures, radiation and benzene dose-response characterization and disease risk, cytogenetics, teratogenics, and the application and implementation of occupational health and exposure registries and surveillance in nanomaterial workers.

Dr. Barrie has successfully established and managed his own consulting companies, providing corporate and litigation support in the areas of epidemiology, historical exposure and risk assessments, occupational hygiene, and health toxicology. Dr. Barrie has designed and conducted environmental and occupational epidemiologic investigations, and is often called upon to evaluate and assess the putative association between various toxicant exposures and various adverse health outcomes. Throughout his career, Dr. Barrie has been active in, and responsible for, business development, project budgeting and financials, and project management.

As an attorney, Dr. Barrie has worked for several prominent law firms in the environmental, toxic tort and products liability litigation areas. He has experience in both State and Federal Courts and has been retained by national and international corporations and attorneys to assist in various areas, including litigation management, dispute resolution, contract evaluations and negotiations, research and evaluation of historical data and literature to assess exposure and health risks, the determination of industry state of the art practices, products liability, epidemiology, health toxicology, exposure and risk assessments, and occupational hygiene. In 1993, he established and managed his own successful law firm for 13 years. Dr. Barrie's legal experience includes regulatory compliance, complex toxic tort and products liability litigation involving a variety of toxicants, historical document research and evaluation, written discovery, depositions, contracts, case management, negotiations and dispute resolution, liability and damage assessments, conflicts of law, motion practices, claims management, mediations, and trial. He has international experience in regulatory compliance, REACH, WHO, World Bank, and Saudi Arabian business practices and environmental regulations, including Royal Commission regulations.

## **Education**

Ph.D. Community Health Sciences, (Epidemiology, Environmental Sciences, Policy), University of Texas Health Science Center, School of Public Health Houston, Texas, 2003

J.D. Doctor of Jurisprudence, South Texas College of Law, Houston, Texas, 1987

M.S. Environmental Sciences, (Occupational Hygiene, Toxicology) University of Texas, Health Science Center, School of Public Health, Houston, Texas, 1982

B.S. Resource Development, (Environmental Sciences, Economics) University of Rhode Island, Kingston, Rhode Island, 1978

## **Licenses and Credentials**

Admitted to Practice, Tennessee Supreme Court, 2011 (active)

Attorney-Mediator, Attorney-Mediators Institute, Houston, Texas, 1995 (active)

Admitted to Practice, U. S. Court of Appeals, Fifth Circuit, 1993 (active)

Admitted to Practice, U.S. District Court, Southern District of Texas, 1990 (active)

Admitted to Practice, U.S. District Court, Eastern District of Texas, 1988 (active)

Admitted to Practice, Texas Supreme Court, 1987 (active)

## **Academic Appointments**

Assistant Professor (Adjunct), University of Texas Health Science Center, School of Public Health, Houston, Texas (2003-present)

Professor (Adjunct), Department of Public Health, College of Education, Health, and Human Sciences, the University of Tennessee (2012 – present)

## **Positions**

Oak Ridge Associated Universities (ORAU)  
Oak Ridge, Tennessee (2011 – Present)

Senior Scientist, Epidemiology, Occupational Exposure and Worker Health, Center for Epidemiologic Research: Occupational and environmental epidemiology, exposure and risk assessment, and health toxicology; registry and surveillance programs; cytogenetic testing; worker health programs for current and former DOE workers, private sector corporations, and ORAU University consortium members. Project and business activities include NIOSH Physical Banding project, nanomaterial worker exposures and epidemiologic registries and surveillance, beryllium epidemiologic investigations, beryllium, radiation and benzene dose-response reconstruction, toxicant exposures and cytogenetics, worker wellness programs, health toxicology, retrospective exposure/risk assessments and disease risk, industrial hygiene, emerging nuclear markets, fracking, business development, contract development, epidemiologic research, training, and litigation support. Team leader of the Corporate Core Competency Integration Team. Member of the Medical and Epidemiological Subcommittee of the Beryllium Health and Safety Committee, and Tennessee Cancer Coalition.

Exponent, Inc.  
Oakland, California/Tennessee (2010 – 2011)  
Dammam, Saudi Arabia (2008 – 2009)  
Houston, Texas (2006 – 2007)

Senior Managing Scientist, Center for Exposure Assessment and Dose Reconstruction / Center for Epidemiology, Computational Biology, and Biostatistics: Litigation and business support, consulting, technical and strategic development for trial counsel and businesses (domestic and international) in complex environmental and toxicant exposure projects; toxic tort, products liability, and premises litigation; quantitative and qualitative occupational and environmental health assessments; exposure and risk assessments; occupational and environmental epidemiology, and pharmaco-epidemiology assessments; health toxicology; regulatory compliance; technical reports.

Director, Saudi Arabia Operations: Corporate business development and project acquisition; RFP project requests from WorleyParsons (Ras Azur), Saudi Aramco (Ras Tanura), Ministry of Al-Hasa, SABIC, Ibn Sina, United, Hadeed, Oman Electric Company, Ministry of Water, Al-Tuwairqi Steel; United Nations Compensation Commission; Ma'aden; and Dow-KFUPM; conducted technical presentations for Saudi Aramco, the Saudi Arabian Ministry of Health, and the Saudi Arabian Ministry of Agriculture. Extensive business development and contacts throughout Saudi Arabia, Dubai, Yemen, Abu Dhabi, and Bahrain, including the Universities of KAUST and KFUPM.

Scientific Consultants International, L.L.C.  
Houston, Texas (2007 – 2010)

President/Founder: International consultancy, including services for petroleum, refining, chemical and support industries, and attorneys. Services included: environmental and occupational health assessments; legal and litigation support, including contract reviews and negotiations, risk management, dispute resolution, and regulatory compliance; HSE policy and program development and assessment; quantitative and qualitative risk and exposure assessment; occupational and environmental epidemiologic investigations and assessments; health toxicology assessments; historical exposure and risk assessments for occupational and environmental chemical exposures; chemical release-emergency response; air monitoring and emission evaluations for fate, transport and exposure assessment; occupational hygiene, health toxicology, along with policy, procedure and program development and reviews; process safety/health reviews; and training.

Caliche, Ltd.  
Magnolia, Texas (2009 – 2010)

Vice President-Middle East Operations: Development of HSE consultancy Services Company for Saudi Arabia oil & gas, support services and local industries; business development; proposal development and submittal; budgeting and financials; contract

negotiations; epidemiology; industrial hygiene; health toxicology; and field services organization and management.

Science with Law, Inc.  
Houston, Texas (1996 – 2006)

President/Founder: Scientific and legal consultancy services to national and international businesses and legal counsel in complex environmental, toxic tort, pharmaceutical, environmental, maritime, products liability, and premises matters; services included epidemiology; historical state-of-the-art scientific and industry knowledge; quantitative and qualitative exposure and risk assessments; historical data and document research and review for exposure and risk assessments; environmental impact assessments; health toxicology; occupational hygiene; interpretation and evaluation of federal, state, and administrative rules and regulations for regulatory compliance; corporate liability assessments; dispute management and resolution; strategic discovery and trial strategy; contract evaluations; technical reports; and training.

ExxonMobil  
Houston, Texas (1998 – 2002)

Contract Attorney: Litigation support, including: liability and damage assessments in toxic tort claims; epidemiology, toxicology, exposure and risk assessments; case evaluations and settlement negotiations; and litigation defense of former corporate employee.

Law Office of Martin D. Barrie, P.C.  
Houston, Texas (1993 – 2006)

Attorney/Managing Director: Complex environmental, pharmaceutical, toxic tort, and products liability litigation involving epidemiology, toxicology, exposure and risk assessment, and environmental assessments; fate and transport; occupational hygiene; regulatory compliance; premises liability; warranty; maritime actions; historical state-of-the-art scientific and industry knowledge; statutory claims; multi-plaintiff national and international multi-defendant claims; complex written discovery, depositions, hearings, motions, mediation, and trial in State and Federal courts throughout the United States; contract disputes, negotiations; and mediations.

Burrow, Countiss & Barrie, L.L.P.  
Houston, Texas (1992 – 1993)

Attorney/Partner: Complex environmental, toxic tort, and product liability litigation involving epidemiology, toxicology, exposure and risk assessment, fate and transport, historical state-of-the-art scientific and industry knowledge, health toxicology, and occupational hygiene; all aspects of litigation, including written discovery, depositions, hearings, motions, mediation and trial; State and Federal court practice; regulatory compliance; contract disputes, mediations, and negotiations.

Provost \* Umphrey  
Beaumont/Houston, Texas (1987 – 1992)

Attorney/Associate: Complex environmental, toxic tort, and products litigation involving epidemiology, toxicology, exposure and risk assessment, state-of-the-art scientific and industry knowledge, health toxicology, and occupational hygiene; all aspects of litigation, including written discovery, depositions, administrative hearings, mediation, and trial in State and Federal courts.

Arabian American Oil Company (ARAMCO)  
Ras Tanura, Saudi Arabia (1982 – 1984)

Preventive Medicine Advisor: Comprehensive occupational hygiene, health and environmental impact studies and surveys; investigations and assessments in petroleum and petrochemical process operations and support facilities, including marine and offshore operations; hospital and community impact studies and assessments; occupational exposure and risk assessments for noise, various toxicants, radiation, various solvents, welding fume, and drilling chemicals and materials; co-inventor and developer of inner-ear thermister to assess heat stress.

University of Texas Health Science Center at Houston  
Houston, Texas (1982)

Senior Research Assistant: Team leader field studies group for NIOSH funded investigation Texas Indoor Air Quality Study; monitoring and assessing various toxicant emissions in mobile homes, including formaldehyde, and health outcomes; mutagenicity studies conducted.

Shell Oil Company  
New Orleans, Louisiana (1981)

Industrial Hygiene Intern: Health study and investigation of gasoline transport drivers and benzene exposure; investigation of worker exposures at coking operations to evaluate and assess toxicant exposures; process evaluations for emissions.

Tradco-Vulcan, Ltd.  
Dhahran, Saudi Arabia (1978 – 1980)

Safety Engineer: Safety, environmental and health impact studies and support for asphalt and concrete batch plant operations; community air pollution evaluation; laboratory chemical-product safety; transportation safety.

## Select Project Activities

Awarded multi-year DOE subcontract to provide oversight for the epidemiologic investigation of former workers beryllium and exposure and disease risk

Assessment and evaluation of disease risk among a case series of workers with alleged historic asbestos exposure: quantitative and qualitative retrospective exposure and risk assessment; medical, employment and engineering document review; review and assessment of the epidemiologic literature for disease association

Worker exposure assessments from simulated work using new product chemical formulations

Assessment and evaluation of disease risk among a case series of workers with acute hydrogen sulfide exposure: quantitative and qualitative retrospective exposure and risk assessment; medical, employment and engineering document review; review and assessment of the epidemiologic literature for disease association; evaluation of long-term health outcomes

Review, evaluation and assessment of a large case-series of petroleum workers with historic exposures to catalyst material with various disease outcomes, including pulmonary disease: retrospective quantitative and qualitative exposure assessment; health risk assessment; review and evaluation of facility industrial hygiene practices and procedures; epidemiologic lung cancer risk assessment

Review, evaluation and assessment of leukemia risk among a case series of workers with benzene exposure; quantitative and qualitative inhalation exposure assessment; risk assessment; mechanistic toxicology for benzene/leukemia; chromosomal evaluation and assessment of leukemia/exposure risk; epidemiological assessment of causal association/exposure-response relationships; review and assess low-dose benzene exposure and leukemia risk

Review, evaluation and assessment of disease risk among workers with benzene, ethylene oxide, and butadiene exposure: comprehensive epidemiologic literature review and assessment for risk; quantitative and qualitative inhalation exposure assessment; risk assessment; mechanistic toxicology; chromosomal evaluation and assessment

Review, evaluation and assessment of a case report of crude sulfate turpentine/hydrogen sulfide exposure and neuropsychological impairment: retrospective quantitative and qualitative exposure assessment; risk assessment; review and evaluation of the toxicological and epidemiologic literature

Evaluation feasibility of product substitution involving chlorinated compounds (MC, PERC) and to conduct comparative exposure/risk assessment for product substitution: coordinated industrial hygiene sampling for exposure assessment during product use

simulation; comparative evaluation of sampling data; comparative exposure/risk assessment

Investigation, evaluation and characterization of adverse health outcomes, specifically liver injury and failure, for a case series of four cases following oral ingestion of over-the-counter dietary supplements containing anabolic steroids: patient exposure and risk characterization; medical record reviews; epidemiologic, toxicologic and pharmacologic reviews and evaluations; evaluation of data from the U.S. FDA Adverse Event Reporting System (AERS), regulatory compliance

Epidemiologic evaluation of a cluster of leukemia cases among off shore petroleum workers: exposure assessments; process evaluations; industrial hygiene practices and procedures; epidemiology

Coordination and management of exposure and risk assessment; speciation of air emissions; fate and transport analysis; toxicological health outcome characterization; characterization of epidemiologic health association and exposure-response relationships; and environmental impact assessments for on-going investigation of coal fired power plant emissions and community claims of various health and environmental impacts and damages

Investigation and characterization of benzene exposure and leukemia (AML) risk among transportation and delivery drivers performing loading, unloading and hauling of gasoline.

Investigation of core body stress and temperature in high heat environments (Saudi Arabia) utilizing an inner ear thermister as part of a pilot study for equipment feasibility, viability, validity and accuracy: study and unit designs, contract negotiations, for the unit manufacture, field study with investigation results provided to the United Kingdom for further use and evaluation for potential unit use for the protection of workers in high heat environments

Investigation, evaluation and characterization of adverse health outcomes, specifically hypertension, venous angioma and intracerebral hemorrhage risk, from ingestion of over-the-counter medication containing phenylephrine: patient exposure and risk characterization; medical record reviews; epidemiologic and pharmacologic reviews and evaluations; evaluation of data from the U.S. FDA Adverse Event Reporting System (AERS)

Investigation and characterization of printer solvent use, trace benzene exposure and risk of myelodysplastic syndrome (MDS): quantitative and qualitative solvent analysis and characterization for historical benzene concentration; exposure assessment and reconstruction analysis; review and evaluation of the epidemiologic evidence for benzene exposure and MDS risk; individual risk assessment for MDS; evaluation and assessment of the epidemiologic literature for low-level benzene exposure and risk of acute myelogenous leukemia (AML); and historical industrial hygiene practices and procedures

Development and epidemiologic feasibility study for a printing trade organization for the epidemiologic investigation of leukemia, non-Hodgkin's lymphoma, and cancer risk among printing workers: investigation, evaluation and characterization of historical data on printer exposure; industrial hygiene; patterns of cancer mortality and morbidity; and the strengths of association between printer exposures and defined health risks

Designed and conducted an epidemiological community health study to investigate childhood respiratory ailments, including asthma, and environmental exposures to sulfur dioxide, oxides of nitrogen, and particulate matter released from a large refinery/chemical facility: quantitative and qualitative exposure and risk assessments; dispersion modeling; epidemiologic assessment of defined adverse health outcomes from exposure to defined identified air pollutants

Evaluation and characterization of painter and paint industry worker solvent exposures for epidemiologic evaluation of various adverse health outcomes: identification, evaluation, and assessment of the epidemiologic and toxicological literature for TDI (toluene diisocyanate), MDI (methylene bisphenyl isocyanate), HDI (hexamethylene diisocyanate) and lead; quantitative and qualitative exposure assessment; evaluation of the strength of association between exposures and the development of neurological and respiratory illnesses and diseases, including NHL

Investigation and assessment of a case report of occupational lead exposures during radiator repair operations and elevated blood lead levels: epidemiologic and toxicological literature reviews and evaluations; medical records review; quantitative and qualitative exposure and risk assessments; reviewed and assessment of industrial hygiene practices and procedures

Investigation and assessment of childhood lead exposure and association with adverse health outcomes, including encephalopathy: medical records review; epidemiologic literature review; mechanistic toxicology; quantitative and qualitative exposure assessment; evaluation of long-term health outcomes

Investigation and evaluation of the epidemiology, toxicology and pharmacology of fentanyl, as related to several case reports involving overdoses and dose-tolerance levels: comprehensive epidemiologic and pharmacologic literature reviews; dermal exposure/risk assessment for adverse health outcome association

Comprehensive literature review and evaluation to characterize and assess occupational and environmental exposures among railroad workers and disease risk, including the evaluation and characterization of exposures to diesel exhaust, herbicides, EMF, solvents, metalworking fluids, diesel fuel, and glycol-based solvents; evaluation and assessment of strengths of association between toxicant exposures and various diseases outcomes, including lung cancer, pancreatic cancer, brain cancer, and non-Hodgkin's lymphoma; epidemiological literature reviews for exposure-disease outcomes; analysis for exposure-disease gradients; risk-exposure analysis

Investigation, characterization and assessment of occupational exposures to phenol and neurological injury risk: epidemiologic and toxicological literature reviews; dermal dose modeling for exposure-disease association; epidemiologic assessment of exposure-health risk associations

Investigation, evaluation and characterization of historical knowledge of asbestos exposure and associated pulmonary disease outcomes, including lung cancer and mesothelioma

Investigation and characterization of sound induced hearing loss from use of personal listening devices: investigated and analyzed the epidemiological literature for studies evaluating model specific use, ear delivery system use, and reported sound levels; noise-induced hearing loss assessments

Investigation, review and assessment of community health complaints from alleged groundwater contamination and air emissions as a result of toxic chemical migration and transport from a closed industrial facility: epidemiologic and toxicological literature reviews and evaluations of chemical exposure-disease associations; review and analysis of air and water emission data; exposure and risk assessments; fate and transport analysis; acute and chronic disease risk evaluations

Epidemiologic assessment, evaluation and characterization of adverse health effects following hydrocodone usage, including overdosing, as part of insurance policy coverage determination

Review, evaluation and characterization of the scientific evidence on occupational exposure to Ortho-toluidine and bladder cancer risk

Evaluate fate and transport analysis of chlorinated solvent spills from a dry cleaning establishment for State and Federal regulatory compliance and insurance coverage

Evaluation and characterization of oral and intravenous Fosamax use and the risk of osteonecrosis of the jaw: comprehensive epidemiologic and toxicological literature review and assessments; mechanistic toxicology; adverse health outcome determinants

Investigation of maternal exposures to hydrocarbons, principally benzene, from a contaminated landfill during pregnancy, fetal benzene exposure, adolescent chromosomal abnormalities, and the risk of Acute Lymphocytic Leukemia (ALL): evaluation and assessment of maternal exposure, characterization of trans-placental fetal exposure and ALL risk, and evaluation of mechanisms for general and specific disease association

Investigation of maritime workers occupational solvent exposure and risk of hematological disease, including acute myelogenous leukemia (AML) and non-Hodgkin's lymphoma (NHL): epidemiologic literature reviews; exposure assessment and analysis; evaluation of industrial hygiene practice and procedures

Initiation, designed and implementation of a cross-sectional quantitative epidemiological study of randomly selected Texas Courts to assess the impact of the Texas Supreme Court requirements for the admissibility of expert testimony in scientific litigation

Investigation and characterization of exposure and health risks to hospital workers preparing, handling and disposing of chemotherapeutic/antineoplastic drugs: comprehensive reviews and evaluations of industrial hygiene practices and procedures, ventilation, waste handling and drug disposal for exposure characterization; application of the Ames Mutagenic Assay

Investigation, assessment and characterization of a large case series of electronic workers with neurological and neuropsychological disorders and reported historical chlorinated solvent exposure: comprehensive review and evaluation of the epidemiologic and toxicological literature on chlorinated solvent exposure for disease, risk and toxicity; review and evaluation of work industrial hygiene practices and procedures for quantitative and qualitative exposure characterization and assessment; disease risk factor evaluation

Designed and conducted occupational and community studies to investigate and assess the impact of exposures to various toxicants and agents, including: radiation, noise, solvents, fumes, dusts, vapors; benzene and various aromatic and chlorinated solvents; inhalation and ingestion of metals, including lead, manganese, chromium-IV, nickel, vanadium and cadmium, and various adverse health risks and outcomes in Saudi Arabia Activities monitored for exposures and analyzed included: TEL additive operations; various welding activities; radiation, refining and chemical plant operations, including API separator usage and exposures; barge and tanker loading, unloading, and cleaning operations; drilling operations and use and handling of chemicals and drilling fluids; impact of waste water discharge into estuaries and oceans; and community water and environmental contamination.

Initiated and conducted comprehensive industrial hygiene investigation for a large petroleum company to assess worker exposures to PAH's and other particulates during coking operations: reviewed and assessed industrial hygiene practices and procedures, including use of personal protective equipment and adequacy and efficacy of warnings and training; area and personnel air sampling; data evaluation and reporting; evaluation of exposure-disease health outcomes

Initiated investigation of occupational exposures to carbon disulfide, asbestos and other chemicals in the pulp and paper manufacturing industry to evaluate and characterize strengths of association for lung cancer, mesothelioma, and coronary heart disease: evaluation and assessment of industry operations, including industrial hygiene practices and procedures; hazard identification and health toxicity assessments; exposure assessment evaluations; epidemiological evaluation of exposure and disease outcomes, including risk factor assessment/confounding for disease etiology

Review, evaluation and assessment of former worker case series of exposures to silica and silica containing products and various diseases outcomes, including lung cancer and lupus; quantitative and qualitative exposure and risk assessments; comparative risk analyses; comprehensive epidemiologic literature reviews for disease etiology, risk factors, measures and strengths of associations, and confounding variables; developed comprehensive epidemiologic literature-based time line for silica exposure and various disease outcomes

Investigation and characterization of the toxicity of select insecticides and herbicides: conduct occupational exposure and risk assessments; assessment of epidemiologic associations between exposure and various disease outcomes, including leukemia and non-Hodgkin's lymphoma (NHL)

### **Publications and Papers**

Barrie MD and Nichols G. Use of Epidemiology in Risk Assessment. Toxicological Risk Assessment for Beginners. Jose A. Tores and Sol Bobst (eds.), Springer, 2014 (in print)

Barrie MD, Dahlstrom DL, Goswami E, Kaetzel R. Chapter 26. The Halogens. Patty's Toxicology, Sixth Edition, Bingham E, Cohrssen B (eds.), John Wiley & Sons Publishers, 2012

Kelce W and Barrie, MD. A Primer on Dietary Supplements Containing Anabolic Steroids. Exponent, 2011 (White paper)

Barrie MD. Fosamax and Adverse Health Outcomes, 2008 (White paper)

Barrie MD. Railroad Workers: Overview of Select Potential Exposures and Occupational Diseases, 2006 (White paper)

Barrie MD. Feasibility Study to Investigate the Incidence of Leukemia and Non-Hodgkin's Lymphoma among Printing Facility Workers, Printing Industries of America/Graphic Arts Technical Foundations, September, 2006

Barrie MD. and Hacker, C. Conflicts of Policy Sciences in the Environmental Protection Agency (EPA) Regulatory Process: The Revised National Ambient Air Quality Standards (NAAQS) for Particulate Matter and Ozone – A Framework for Change, 2003 (White Paper)

Barrie MD. A Cross-Sectional Quantitative Investigation of Select Texas Courts to Evaluate the Effects of Havner, 2003

Barrie MD. Corporate Use of Bankruptcy in the Environmental – Toxic Tort Arena, 1986

Connor TH, Barrie MD, Theiss JC, Matney TS, Ward JB Jr., Mutagenicity of Formalin in the Ames Assay. *Mut Res.* 1983 Feb; 119(2):145-149

Barrie MD. A Retrospective Analysis of Mutagenic Activity in Harris County Air Particulate Filters, 1982

### **Presentations and Posters**

Barrie MD and Nichols G. Catastrophic Radiological Events and Compensation: Constructs and Conflicts of Science and Policy. Twenty-Sixth Conference of the International Society for Environmental Epidemiology, From Local to Global: Advancing Science for Policy in Environmental Health, Seattle, Washington, USA - August 24-28, 2014 (Submitted)

Invited Speaker: Select Research-Oak Ridge Associated Universities (ORAU) Occupational and Worker Health Group. University of Tennessee, Department of Public Health, Research Day, February 7, 2014

Barrie MD and Nichols G. Pilot Fatigue: Current Control Limitations and Research Needs. Aerospace Medical Association Annual Conference .San Diego, CA, May 11-14, 2014 (Abstract accepted)

Barrie MD and Nichols G. Cytogenetic testing of nanomaterial workers: Concepts, Methodology, and Limitations. AIHA Asia Pacific OH Conference and Exhibition. Singapore. October, 2013 (Poster)

Strader C, Cragle D, Ellis E, Barrie MD, Tankersley W, Wallace P and Nichols G. Analysis of a US Department of Energy Emergent Technologies Cohort. American Public Health Association, 140th Annual Meeting & Exposition, San Francisco, CA October 27-31, 2012 (Poster)

Invited Speaker: Particulate Matter (PM2.5): Health and Legal Issues. New Industrial Toxins Litigation Conference. HarrisMartin, Marina del Rey, California, December 3-4, 2012

Invited Speaker: The Use of Exposure and Health Surveillance Registries for Risk Identification, Characterization, and Management. The National Forum for Environmental and Toxic Tort Issues, Annual Conference, Chicago, Illinois, 2012

Invited Speaker: Community Health and Litigation-Disciplines, Integration, and Policy, The University of Tennessee at Knoxville, Department of Public Health, February, 24, 2010

Invited Speaker: Experts in Toxic and Environmental Claims: Why do we need all those experts? Knowing the Fundamentals. The National Forum for Environmental and Toxic Tort Issues, Annual Conference, Chicago, Illinois, 2010

Invited Speaker: Chronic Myelogenous Leukemia: Law and Science. Harris Martin's Benzene Causation Conference: A Look at Recent Admissibility Challenges On a Disease-by-Disease Basis, Las Vegas, Nevada, May 24-25, 2010

Invited Speaker: Pesticides and Health. Ministry of Agriculture, Dammam, Saudi Arabia, 2009

Invited Speaker: Low-Level Benzene Exposure and Leukemia Risk: Recent Epidemiological Assessments, The Future & Science of Benzene Litigation, Roundtable on the Future & Science of Benzene Litigation, 2006

Invited Speaker: Science and Law. Texas A&M University, 2003

Invited Speaker: A Multidisciplinary Approach to Toxic Tort and Environmental Litigation. University of St. Thomas, Department of Environmental Studies, Fall Colloquium, 1992

### **Professional Societies and Affiliations**

American College of Epidemiology (Member)

International Society for Environmental Epidemiology (Member)

American Chemical Society (Member)

American Industrial Hygiene Association (Member)

YUMA Pacific Southwest Section, American Industrial Hygiene Association (Member)

Phi Delta Phi International Legal Fraternity (Member)

### **Awards**

American Jurisprudence Award, South Texas College of Law, 1987

Richard K. Seevers Award, Environmental Science Excellence, University of Texas Health Science Center at Houston, 1982

