

# Janice K. Britt, Ph.D.

SENIOR MANAGING SCIENTIST

## CONTACT INFORMATION

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## PROFESSIONAL PROFILE

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Dr. Janice Britt is a Senior Managing Scientist with ToxStrategies and is based in Tallahassee, Florida. She has over 20 years of experience in toxicology and has worked and published in the fields of human and animal toxicology, chemical exposure, risk assessment, and causation analysis. Dr. Britt is familiar with and has published in the areas of systematic review, evidence integration, and Evidence-based toxicology. Dr. Britt has critically evaluated the toxicity of numerous chemicals, pharmaceuticals, food products, and medical devices. She has been involved in the critical evaluation of exposures involving hazardous waste sites, environmental contamination situations, occupational exposures, and agricultural-related products exposures. Specifically, Dr. Britt has conducted comprehensive toxicity evaluations of compounds such as: benzene, toluene, chlorinated solvents (e.g., trichloroethylene, perchloroethylene, and vinyl chloride), formaldehyde, insecticides, dyes, acrylamide, herbicides, heavy metals (e.g., arsenic, lead, manganese, and mercury), polychlorinated biphenyls (PCBs), carbon disulfide, perfluorinated compounds, asbestos, silica, carpet emissions, caprolactam, ammonia, carbon dioxide, pharmaceutical agents, herbal products, cosmetics, and food additives. In addition to evaluating the toxicity of specific chemicals, Dr. Britt has conducted toxicity assessments to evaluate the hazards associated with different occupations/exposures including painting, welding, printing work, photo processing work, sandblasting, petroleum refinery work, and hydraulic fracturing. Dr. Britt has also performed site-specific risk assessments, developed toxicological profiles for various chemicals, evaluated various regulatory toxicity criteria, and developed safe levels of exposures for chemicals.

Prior to consulting, Dr. Britt worked for two years for the Florida Department of Agriculture as a toxicologist, where she reviewed toxicity data in support of pesticide regulation. In her role as a Department toxicologist, she conducted assessments to evaluate the risks associated with chemical exposures to pesticides and other chemicals, including glycol ethers, chlorinated solvents, and quaternary ammonium compounds in humans, animals, avian, and aquatic species. She served as a toxicologist on the Florida Pesticide Registration Evaluation Committee, which conducted scientific and technical reviews of pesticide product registrations for the State of Florida. As part of this work, assessments were conducted to evaluate the potential for risks to humans, wildlife, and endangered species. She played an active role in developing a regulatory procedure for ranking pesticides according to their chronic toxicity and leaching potential.

## **EDUCATION AND DEGREES EARNED**

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Ph.D., Toxicology, Texas A&M College of Veterinary Medicine and Biomedical Sciences, 1990

B.S., Zoology, Texas A&M University, 1986

## **PROFESSIONAL ASSOCIATIONS**

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Society of Toxicology (Risk Assessment Specialty Section)

European Registered Toxicologist (ERT)

American College of Toxicology

American Conference of Governmental Industrial Hygienists

Fellow, Society of Biology

EUROTOX

Regulatory Affairs Professional Society

Member of European Food Safety Authority (EFSA) Expert Database

## **PEER REVIEW**

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*Human and Experimental Toxicology*

## **PROFESSIONAL EXPERIENCE**

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### **Chemical-specific toxicity assessments**

Evaluation of Leukemia and Painting: Completed an evidence-based review of the occupation of painting as it relates to leukemia, particularly acute myelogenous leukemia (AML). As part of this review, evaluated the background incidence and risk factors for AML.

Benzene and Hematopoietic Cancer Evaluation: Conducted a comprehensive review of the literature related to benzene and hematopoietic cancers, including various types of leukemia, non-Hodgkin's lymphoma, and multiple myeloma.

Critical Review of Solvent Encephalopathy: Critically reviewed the published literature pertaining to the issues surrounding "painters' syndrome," also known as "chronic toxic encephalopathy" or "solvent encephalopathy." Reviewed the literature for effects on neurobehavioral test scores, control for confounders, and reversibility of effects. Drafted a primer summarizing the findings.

Leukemia and Occupation as a Seaman: Considered the epidemiological literature concerning individuals working as seamen, seafarers, or marine engineers, to assess the potential risk of leukemia.

Review of the Toxicity and Risks of Hydraulic Fracturing Compounds: Conducted a comprehensive review of the toxicity of multiple compounds used in hydraulic fracturing (e.g., hydrochloric acid, acetic acid, isopropanol, magnesium oxide, citrate, guar gum) and the assessment of risk associated with drinking water.

Review of the Toxicity of Formaldehyde: Conducted an evidence-based evaluation of the irritancy effects of formaldehyde from emissions from housing units. As part of this project, conducted a comprehensive review of the pharmacokinetics of formaldehyde and exposures of humans to background levels of formaldehyde.

Toxicity of Black Liquor: Reviewed the toxicity and potential effects of black liquor from the pulp and paper industry.

Evaluation of Perchlorate Exposure and Toxicity: Conducted a thorough review of animal and epidemiologic studies of perchlorate toxicity. Created a toxicological profile for client.

Evaluation of Toxicity of Coke Plant Emissions: Reviewed air-monitoring data for emissions near a coke plant to determine whether residents near the plant were at excess risk for health effects.

Diesel Exhaust and Kidney Cancer: Researched the carcinogenicity of diesel exhaust with regard to kidney cancer.

Toxicological Evaluation of PFOA: Evaluated the human health risks of exposure to perfluorooctanoic acid (PFOA) based on a comprehensive review of laboratory animal, epidemiologic, community, and metabolic studies. Evaluated potential health effects associated with measured levels in community drinking water, as well as against serum PFOA levels measured in a human population.

Review of Toxicity of Metalworking Fluids: Evaluation of the potential effects associated with exposure to metalworking fluids.

Autism and Hazardous Wastes: Reviewed health claims from exposures to postnatal exposure to hazardous wastes in soils (including mercury, lead, and PCBs).

Review of Toxicity of Glyphosate: Conducted a review of the reproductive and developmental toxicity of glyphosate in animals and humans, as well as a review of the regulatory status of the compound.

Solvent Toxicity Review: Have conducted thorough reviews and evaluations of the literature surrounding the carcinogenic, as well as non-carcinogenic, effects of various solvents, including trichloroethylene, perchloroethylene, vinyl chloride, 1,1,1-trichloroethane, ethylbenzene, toluene, xylene, and various other solvents. These assessments were used to provide technical support to clients.

Evaluation of Acrylamide Toxicity: Critically evaluated the literature on acrylamide, with particular attention to the carcinogenic effects in humans (e.g., epidemiologic studies, adduct formation). In addition, evaluated literature on and the potential risks from the presence of acrylamide in foodstuffs, and cancer risks associated with acrylamide in food and the environment.

Reactive Airways Dysfunction Syndrome: Reviewed literature for chemicals, including ammonia and hydrogen sulfide, and their association with respiratory effects, including RADS (reactive airways dysfunction syndrome).

Pesticide Toxicity: Critically reviewed and analyzed the literature related to the neurological (e.g., peripheral neuropathy) and neuropsychological (e.g., toxic encephalopathy) effects of chlorpyrifos, as well as other organophosphate and carbamate insecticides.

Review of PCB Neurodevelopmental Toxicity: Evaluated the human and animal evidence concerning the reproductive toxicity of PCBs. Evaluated the potential reproductive and developmental effects of different PCB mixtures using federal and state hazard assessment guidelines. Created report of critical evaluation that summarized these studies for the client.

Evaluation of the Carcinogenicity of Chrysotile Asbestos: Reviewed the toxicological literature on chrysotile asbestos, examining risk assessment approaches used to assess cancer risk, background exposures to fibers, epidemiologic studies of individuals exposed to chrysotile asbestos, and various risk assessment of governmental/agency positions on asbestos.

Welding Exposure Evaluation: Evaluated the toxicity of welding fumes and paint solvents, with an emphasis on the cardiovascular toxicity of these various agents.

Toxicity of Pentachlorophenol: Reviewed the toxicity literature on pentachlorophenol to assess effects from exposures to pentachlorophenol from a log home.

Effects of Tire-Derived Fuel Burn: Evaluated the adverse effects of inhalation exposure to various compounds (including mercury and zinc) and particulate matter from a tire-derived fuel test burn.

Paints and Asthma: Evaluated the respiratory toxicity of paints and mildewicides to determine whether they were causally associated with asthma.

Neurotoxicity of Carbon Disulfide: Critically evaluated the literature to assess the peripheral and central neurological toxicity of carbon disulfide. This analysis led to publication of an updated regression analysis between carbon disulfide and neurological disease.

Toxicity of Trichloroethylene (TCE): Conducted a comprehensive critical review of the literature for TCE, focusing on animal studies, volunteer studies, and epidemiological studies.

Lead in Drinking Water: Evaluated lead concentrations in "first draw" water.

Toxicity of Carbon Monoxide: Reviewed the carbon monoxide literature, in particular the literature concerned with the neuropsychological effects of exposure. Industrial hygiene data were available for review.

Toxicity of X-ray Processing Chemicals: Determined whether certain x-ray processing chemicals (e.g., glutaraldehyde) were causally associated with the so-called "Multiple Chemical Sensitivity" syndrome and pulmonary effects. Industrial hygiene levels were considered as part of the evaluation.

Assessment of Exposure to Sodium Pentachlorophenate (Sodium Salt of Pentachlorophenol): Reviewed the toxicological literature to determine whether a causal association exists between sodium pentachlorophenate and reactive airways dysfunction syndrome (RADS). Also reviewed and critiqued the literature of "typical" RADS cases and the criteria that have been proposed to define it.

Solvents and Kidney Disease: Performed a complete critical evaluation of the literature on the issue of solvent nephropathy. As part of this task, reviewed studies of gasoline, petroleum, painters, printers, and many other solvent-exposed cohorts, as well as case-control studies, registry studies, and meta-analyses of individuals exposed to solvents. Also examined whether there was any biological plausibility to this solvent-related nephropathy.

Evaluation of Ammonia Toxicity: Evaluated the neurotoxicity and pulmonary effects associated with ammonia exposures generated from the removal of sediments from mine waste-stream receiving ponds. Evaluated the acute and chronic effects of ammonia in humans, as well as levels required to cause irritation and changes in blood ammonia levels. Industrial hygiene measurements were evaluated also.

Evaluation of Trace Benzene Exposure and Myelodysplastic Syndrome (MDS): Conducted a comprehensive review of the literature related to benzene and MDS from exposure to petroleum-based solvents. Part of this assessment included a review of industrial hygiene measurements associated with these exposures.

Sinonasal Cancer and Metals: Identification, retrieval, and organization of scientific literature pertaining to sinonasal cancer and metals at issue (arsenic, cadmium, hexavalent chromium, and nickel). Researched the etiology and possible confounders for sinonasal cancer.

Exposure to Multiple Chemicals and Brain Cancer: Evaluated exposures and carcinogenicity literature of multiple chemicals, including vinyl chloride and acrylonitrile, to assess whether these compounds were neurocarcinogens.

Exposure to Vaporized Petroleum Distillate and Surfactant: Reviewed the toxicological literature (especially respiratory toxicity and neuropsychological related effects) related to vaporization of petroleum distillate/

surfactant product added to hot sodium hydroxide. Industrial hygiene sampling data were reviewed as part of the assessment.

Evaluation of Toxicity of Sulfates, Nitrates, and Boron in Groundwater: Reviewed the toxicity of boron in animals and humans via exposure through groundwater. Also included in the assessment were the effects of these compounds on livestock.

### **Pharmaceutical agents and medical devices**

Teratogenicity of Clomid: Evaluated potential adverse effects of the fertility drug clomiphene citrate, and its ability to cause birth defects.

L-tryptophan: Critically evaluated the literature pertaining to eosinophilia myalgia syndrome (an eosinophil excess that resulted from contaminants in an over-the-counter amino acid sleep aid).

Evaluation of an Herbal Supplement Product: Evaluated the potential side effects of various components of an herbal supplement that contained ephedra, caffeine, and other compounds.

Assessment of Side Effects of Popular Over-the-Counter Medication: Conducted detailed assessment of pharmacologic, toxicologic, and pharmacoepidemiologic literature concerning a popular over-the-counter medication, to determine whether Stevens-Johnson syndrome (SJS)/toxic epidermal necrolysis (TEN) was causally associated with the product.

Evaluation of Pharmaceutical Product for Potential Cardiovascular Side Effects of Phenylpropanolamine: Participated in a review of the published and unpublished literature to determine whether a causal relationship exists between popular cough-and-cold preparations containing phenylpropanolamine, or PPA, and strokes.

Evaluation of the Safety Profile of a Pharmaceutical Product: Evaluated the acute, chronic, and carcinogenicity safety profile of metronidazole for a prospective buyer of this medication.

Tamoxifen: Assisted in the editing and managing of the supplement "Scientific Review of Tamoxifen" for the journal Seminars in Oncology.

Evaluation of a Medication Side Effect: Conducted a comprehensive review of the literature on prednisone and dose-response analysis to determine whether the compound could be responsible for the specific side effect of avascular necrosis.

Evaluation of the Safety of a Nasal Product: Participated in a safety evaluation of a nasal product containing zinc. Evaluated historical as well as recent safety data on the product.

### **Consumer and personal care products**

Consumer Safety Review: Reviewed the safety of a dye component in a consumer product used by infants and toddlers, as well as adults. Evaluated in vitro toxicological studies that had been done by outside contract laboratories, and produced report summarizing relevant issues for the client.

Evaluation of Toxicity of Carpet Emissions: Reviewed the toxicity literature on multiple chemicals that were emitted from a carpet product to determine whether they could be the cause of the so-called "Multiple Chemical Sensitivity" syndrome.

Evaluation of PFOA in Carpet: To address potential concerns from PFOA in carpet-related products, a comprehensive evaluation of PFOA literature was undertaken, including all published and unpublished chemistry, environmental exposure, pharmacokinetic, animal, volunteer, and occupational studies. A 100+ page primer was developed for the client detailing the findings.

Evaluation of Paint Solvent Emissions and Respiratory Complaints: Evaluated the toxicity and exposure literature regarding whether or not exposure to solvents emitted from a particular paint product could cause or exacerbate asthma.

Review of Toxicity of Portland Cement Concrete: Comprehensive review of the toxicity of the various components of Portland cement concrete. Evaluated a case of dermal potential over-exposure to Portland cement.

Review of Malathion Toxicity: Conducted a review of the general toxic effects that would be expected from exposure to malathion following its use as a general insecticide.

Carcinogenicity Evaluation of Benzene, Trichloroethylene (TCE), and 1,1,1-Trichloroethane (TCA): Evaluated the animal and epidemiological literature to determine whether benzene, TCE, and/or TCA are causally associated with brain cancer from exposure to hot glue product. Chemical testing on the glue product was conducted and evaluated to assess other potential exposures.

Review of the Acute Toxicity of Gasoline Exposure: Conducted a review of the published literature to determine the health effects of an acute exposure to gasoline.

Aplastic Anemia and Exposure to Art Products: Causal evaluation of aplastic anemia and various products reportedly present in art product supplies at an art school. Chemicals researched included the benzene metabolites hydroquinone and benzoquinone; glycol ethers; and mixed petroleum solvents, including Stoddard solvent, kerosene, and naphtha.

Evaluation of Solvent-Related Renal Disease: Reviewed relevant published literature to determine whether there was a causal relationship between exposure to various solvents utilized in the printing industry and renal failure.

Evaluated Safety of Plant Emissions: Evaluated the potential adverse effects from low-level emissions of various aldehydes and ketones emitted from a plant.

Toxicity of Nail Products: Reviewed the respiratory, neurological, and cardiovascular toxicity from exposure to ethyl methacrylate as a component of nail products.

Photocopying Chemicals Toxicity Review: Reviewed the toxicity and possible effects of exposure to multiple photocopying chemicals. Included in the review was an evaluation of the levels of exposure incurred near the photocopying machines.

Pesticide Product Evaluation: Evaluated the teratogenicity of a termiticide (active ingredient chlorpyrifos and inert ingredients) in animals and humans.

Toxicity of Materials in Lighting Ballasts: Conducted a review of the toxicity of materials related to ballast lighting and materials that might be emitted from an over-heated ballast—e.g., asphalt, carbon monoxide, PAHs—especially the respiratory and neurological toxicity of these compounds.

Evaluation of Odo-Ban® Product: Evaluated the potential inhalation toxicity of the active ingredient in Odo-Ban®, benzalkonium chloride.

### **Food additives and flavorings**

Safety Evaluation of a Food Additive: Reviewed the numerous mechanistic, animal, and epidemiologic studies of various butter flavoring compounds (primarily diacetyl) to evaluate potential pulmonary effects in humans. Drafted extensive report on studies evaluated and potential confounders.

Safety of Farmed vs. Wild Salmon: Evaluated the concentrations of PCBs in farmed and wild salmon compared with the USFDA's tolerance level.

### **Regulatory compliance**

Evaluation of Respiratory Regulatory Limit for Caprolactam: Conducted an extensive review of the chemical and pharmacokinetic properties of caprolactam, as well as the toxicity of this compound in animals and humans, in response to proposed California's OEHHA Reference Exposure Levels (RELs). Prepared rebuttal comments to OEHHA in response to these proposed RELs.

Preparation of Comments for Submittal to ATSDR: Participated in project that consisted of a review of the human clinical and epidemiological data on PCBs. Developed a 100+-page document for the client to submit to ATSDR's Draft Toxicological Profile for PCBs Update.

Review of Allowable Effluent Concentration for d-Limonene. Reviewed the applicability of a city government's allowable effluent concentration of d-limonene. Evaluated ecological testing data in support of this risk assessment.

Review of Manganese Water Standard: Conducted a critical review of studies that were being considered in support of a standard for manganese in potable water.

Derivation of Toxicity Constants for 1,1-Dichloroethylene (VDC): Participated in benchmark dose (BMD) derivation and calculation of acceptable indoor air exposure levels for VDC based on the BMD approach for the Colorado Department of Transportation.

### **Site assessments/risk assessments**

Risk Assessment for Hexavalent Chromium and Trichloroethylene (TCE) at a Site in California: Calculated inhalation and ingestion short-term and lifetime risks for exposures to CrVI and TCE. This evaluation included a review of the recent literature on the relevant toxicological endpoints at issue.

Risk Assessment of Trichloroethylene from Vapor Intrusion: Assessed exposure, as well as the theoretical risks associated with these exposures, to trichloroethylene via inhalation from vapor intrusion in a home basement.

Exposure and Risk Assessment of Site in Utah: Evaluated the non-carcinogenic and carcinogenic risks posed by calculated levels of exposure to arsenic, cadmium, copper, lead, and nickel present in site soil.

Evaluation of Human Health Effects from Munitions Plant Emissions: Reviewed the human health effects of RDX, MNRDX/DNRDX/TNRDX, dimethylnitrosamine, hydrazine, and dimethyl-hydrazines potentially associated with emissions from a munitions plant in Utah.

Review of the Toxicity of Trichloroethylene (TCE), Chromium, and 1,1-Dichloroethylene (DCE): Undertook a comprehensive review of the toxicological literature on TCE, chromium, and 1,1-DCE (chemicals present as drinking-water contaminants near an airport) to assess their potential cancer and non-cancer effects.

Assessment of PCB Exposure at State Building: Participated in an assessment of the potential health effects associated with exposure to PCBs (and combustion products) resulting from a fire that occurred at a State building in Pennsylvania. Determined a surface cleanup level that would render the building safe for long-term occupancy.

Evaluation of Vinyl Chloride Carcinogenicity: Conducted an assessment of the animal and epidemiologic evidence to determine whether a causal association exists between vinyl chloride and liver or brain cancer among environmentally exposed individuals.

Toxicity of Acetaldehyde: Conducted a thorough review of the non-cancer and cancer effects of exposure to acetaldehyde resulting from a train derailment in West Virginia.

Toxicity Assessment and Toxicity Profile Generation for Former Electronics Site (Seminole County, Florida): Reviewed the toxicity of multiple chemicals for multiple diseases. Generated toxicity profiles for benzene, Freon, lead, methylene chloride, rosin, 1,1-dichloroethylene, 1,1,1-trichloroethane, trichloroethylene, toluene, 1,4-dioxane, and vinyl chloride. Provided thorough research regarding confounders for over 30 cancer and non-cancer conditions.

Risks from Acute Spill of Coal Tar Light Oil: Evaluated the risks from an acute coal tar light oil spill from a tanker. This evaluation included consideration of the potential toxicities and risks associated with the components of coal tar light oil spills for the vicinity surrounding the spill. Readings taken near the time of spill were considered as part of the analysis.

### **Miscellaneous Projects**

Historical Perspective of PCB: Provided a historical perspective on the toxicological properties of PCBs, showing how this knowledge developed over the years (~1929–2010).

Medical Monitoring Program Rebuttal: Researched recommendations for and against various medical monitoring protocols for multiple diseases and cancers from several major medical and scientific organizations and agencies. Researched the numerous criteria that have been proposed by various scientific, medical, and regulatory bodies as being appropriate and necessary prior to instituting a medical monitoring program. Calculated excess cancer rates from the use of various diagnostic techniques that required the use of radiation.

Lead Toxicity Presentations: Summarized the regulatory standards for lead and the toxicity of lead based on target organs, and presented to companies at their request.

### **PUBLICATIONS**

Wikoff DS and **Britt JK**. 2016. The role of systematic review in the practice of toxicology and risk assessment - an appreciation for the primary tool in evidence-based approaches. *Toxicology: Open Access* 2(110):1–4.

James RC, **Britt JK**, Halmes NC, Guzelian PS. 2015. Evidence-based causation in toxicology: A 10-year retrospective. *Human Exper Toxicol* 34:1245-1252.

James, R.C., **J. Britt**, N.C. Halmes, and P.S. Guzelian. 2013. Comments on recent discussions providing difference causation methodologies. *Human Exp. Toxicol.* 33: 109-112.

James, H.R., L. Barfield, **J.K. Britt**, and R.C. James. 2008. Worker exposure to secondhand smoke; Evaluating a prediction model. *Prof. Saf.* 53(9):34-44.

Fedoruk, M.J., B.D. Kerger, L. Israel, S. Hoyt, **J. Britt**, and R.C. James. 2008. Pilot study of vapor reaction products from mixing diacetyl and chlorine bleach. *Toxicologist.* 102(1):1476.

Simon, T., **J.K. Britt**, and R.C. James. 2007. Development of a neurotoxic equivalence scheme of relative potency for assessing the risk of PCB mixtures. *Regul. Toxicol. Pharmacol.* 48:148-170.

Freeman, R.W., **J.K. Britt**, C. Halmes, J.A. Kind, and R.C. James. 2006. Predicting blood lead levels with IEUBK: Over-prediction at moderate soil lead levels? *Toxicologist* 90(1):449.

**Britt, J.K.**, N.C. Halmes and R.C. James. 2006. Painting and acute leukemia: An evidence-based causation analysis. *Toxicologist* 90(1):176.



Warren, D.A., B.D. Kerger, **J.K. Britt**, and R.C. James. 2004. Development of an oral cancer slope factor for Aroclor 1268. *Reg. Toxicol. Pharmacol.* 40:42-53.

Roberts, S.M, K.E. Jordan, D.A. Warren, **J.K. Britt**, R.C. James. 2002. Evaluation of the carcinogenicity of 1,1-Dichloroethylene (Vinylidene Chloride). *Regulatory Toxicology and Pharmacology.* 35(1):44-55.

**Britt, J.K.**, S.E. Dwinell, and T.C. McDowell. 1992. Matrix decision procedure to assess new pesticides based on relative ground water leaching potential and chronic toxicity. *Environ. Toxicol. Chem.* 11:721-728.

## **ABSTRACTS AND PRESENTATIONS**

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**Britt, J.K.** and R.C. James. 2015. Welding and occupational exposure to manganese fumes and Parkinson's disease: An Evidence-based causation analysis. *Toxicologist.* 144:166, abstract 776.

Lamm, S.H., S.A. Robbins, **J.K. Britt**, and R.C. James. 2013. Multiple myeloma risk and benzene exposure among Pliofilm workers - A reanalysis using an internal reference group. *Toxicologist.* 132:103, abstract 481.

**Britt, J.K.**, N.C. Halmes, B. Kerger, and R.C. James. 2011. Evidence-based analysis defining a formaldehyde vapor concentration NOEL for irritant responses in humans. *Toxicological Sciences* 120:417, abstract 1947.

Kerger, BD, **J. Britt**, L. Barfield, L, and R.C James. 2009. Mesothelioma diagnosis: should genetic screening be used to evaluate primary site and plausibility of asbestos causation? *Toxicological Sciences* 108:345, abstract 1662.

**Britt, J.K.** 1992. Risk to nontarget organisms in freshwater and estuarine environments due to drift from the aerial application of ultra-low volume permethrin. Presented at the 31st Annual Society of Toxicology Meeting, February 23-27, Seattle, Washington.

**Britt, J.K.** 1991. "Matrix Decision to Determine Registration of New Pesticides" presented at the 14th Annual Conference of the Florida Association for Water Quality Control. June 2-4, Naples, Florida.

**Britt, J.K.** 1991. "Pesticides: Toxicity and Regulatory Aspects" taught as a part of the Florida Department of Health and Rehabilitative Services and Tallahassee Memorial Hospital's "Training Course on General Principles of Toxicology and Risk Assessment." May 1-2, 1991, Wakulla Springs, Florida and May 21-22, 1991, Ft. Lauderdale, Florida.

## **BOOK CHAPTERS**

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**Britt JK.** In press. Toxicology. In *Kirk-Othmer Encyclopedia of Chemical Technology*. John Wiley & Sons, Inc., Hoboken, NJ.

**Britt, J.K.** 2015. Properties and Effects of Pesticides. In: *Principles of Toxicology: Environmental and Industrial Applications*, 3rd Ed. John Wiley and Sons, New York, NY.

**Britt, J.K.** and R.C. James. 2006. Toxicology. In: *Kirk-Othmer Encyclopedia of Chemical Technology*. John Wiley & Sons, Inc., Hoboken, NJ.

**Britt, J.K.** 2000. Health Effects of Pesticides. In: *Principles of Toxicology: Environmental and Industrial Applications*. John Wiley and Sons, New York, NY.

## **SEMINARS AND CONTINUING EDUCATION**

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Introduction to the Fundamentals of Epidemiology. London School of Hygiene and Tropical Medicine. 2012.

Society of Toxicology Meeting Continuing Education Courses: (1) Toxicology of Pesticides; (2) Risk Assessment, (3) Methods for Assessment of Neurotoxicity, (4) Comparative Endocrine Toxicology; and (5) Evaluating Toxicity of Engineered Nanomaterials: Issues with Conventional Toxicology Approaches. and (6) Protecting Human Health: Use of Toxicological and Epidemiological Data in Determining Safe Levels for Human Exposure.

Society of Toxicology Contemporary Concepts in Toxicology Perfluoroalkyl Acids and Related Chemistries: Toxicokinetics and Mode of Action Workshop. Arlington, VA. February 14-16, 2007.

New England Epidemiology Institute Summer Program. Course: (1) The Design of Epidemiologic Studies; (2) Causal Inference. Tufts University. June 8-12, 1998.

Practical Issues in the Use of Probabilistic Risk Assessment and its Application to Hazardous Waste Sites. Center for Environmental and Human Toxicology, and the Superfund Program at the University of Florida & the National Institute of Environmental Health Sciences. March 29-31, 1998. Sarasota, Florida.

Florida State University Center for Biomedical and Toxicological Research and multiple other State and Federal Agencies. Mercury Contamination in Florida: Impacts and Solutions. Tallahassee, FL. June 1990.