

# Judy S. LaKind, Ph.D.

## LaKind Associates, LLC

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**Judy S. LaKind, Ph.D.**, President of LaKind Associates, LLC, and Adjunct Associate Professor, Department of Epidemiology and Public Health, University of Maryland School of Medicine is a health and environmental scientist with expertise in exposure science, assessment of human health risks, biomonitoring, scientific and technical analysis for regulatory support, and state-of-the-science and systematic reviews. She has managed a wide array of successful projects, with completion in a timely manner and within budget, and has organized and facilitated numerous workshops on a variety of scientific subjects. Dr. LaKind has spoken and published extensively on exposure- and risk-related issues, including children's exposures to environmental chemicals, the implications of uncertainty in the risk assessment process, data quality, use of environmental epidemiology research in public health decision-making, weighing potential risks and benefits related to chemical use, the presence of environmental chemicals in human milk, and time-dependence and distributional analysis of exposure. Dr. LaKind has evaluated the use of human health risk assessment in the development of water quality criteria, and has critically analyzed the environmental fate, behavior, and bioavailability of pollutants in the context of setting regulatory criteria. She has developed risk assessments for a variety of urban industrial sites, military bases, and firing ranges, and has utilized state-of-the-science models for estimating blood lead levels in adults and children.

Previously, Dr. LaKind was a geologist at the US EPA's Office of Federal Activities, where she was responsible for the evaluation of Environmental Impact Statements and legislative reports. Dr. LaKind has taught graduate level courses at The Johns Hopkins University and the University of Maryland in risk assessment and aquatic chemistry. Dr. LaKind is Insights Editor for *Environment International*. She also serves on the editorial boards of the *Journal of Environmental Exposure Assessment*, and is past Associate Editor for the *Journal of Exposure Science and Environmental Epidemiology* and past editorial board member of the *Journal of Toxicology and Environmental Health*.

Dr. LaKind is Past President of the International Society of Exposure Science. She is a member of the Health Effects Institute Energy Research Committee and the Maryland Department of Health and Mental Hygiene (DHMH) Cancer Cluster Advisory Committee and is a Junior Councilor, Society of Toxicology's Exposure Specialty Section. She previously served on the Boards of the National Swimming Pool Foundation and the Coalition Against Childhood Lead Poisoning. She is a former member of Maryland's Children's Environmental Health and Protection Advisory Council, the Lead Poisoning Prevention Commission, the Maryland Pesticide Reporting and Information Workgroup, the HESI RISK21 Advisory Board, and the World Health Organization Survey Coordinating Committee for the WHO Global Survey of Human Milk for Persistent Organic Pollutants (POPs). Dr. LaKind also served on the Institute of Medicine Committee on Blue Water Navy Vietnam Veterans and Agent Orange Exposure and the US Environmental Protection Agency Science Advisory Board Panel on Perchlorate - Approaches for Deriving Maximum Contaminant Level Goals for Drinking Water.

### **Academic Appointments:**

Fellow-by-Courtesy, The Johns Hopkins University, Department of Applied Mathematics and Statistics. February 2013 – present.

Adjunct Associate Professor, University of Maryland School of Medicine, Department of Epidemiology and Preventive Medicine, August 2003 – August 2008; August 2009 – October 2009. February 2012 – present.

Associate Professor, University of Maryland School of Medicine, Department of Epidemiology & Public Health, September 2008 – August 2009; November, 2009-February 2012.

Part Time Instructor, College of Engineering & Information Technology at University of Maryland Baltimore County, January 2010 – June 2010.

Adjunct Associate Professor, University of Maryland School of Law, May 2003 – May 2004.

Adjunct Associate Professor, Penn State College of Medicine, Department of Pediatrics, Milton S. Hershey Medical Center, 2002 – 2016.

### **Education:**

Ph.D.; The Johns Hopkins University; Geography and Environmental Engineering; 1988

M.S.; The University of Wisconsin, Madison; Geology; 1984

B.A.; The Johns Hopkins University; Earth and Planetary Sciences; 1982

Litigation Support Training, 1994

Project Manager Training, 1995

Mid-America Toxicology Course, 1995

Risk Communication, 1995

Hershey Medical College Investigator Certification for Protecting Human Subjects, 2004

CITI Course in the Protection of Human Research Subjects, 2014

CITI Course in Institutional/Signatory Official: Human Subject Research, 2022

CITI Course in Community-Engaged and Community-Based Participatory Research, 2022

CITI Course in The Protection of Human Subjects, 2022

### **Experience:**

***Human Health Risk Assessment/Product Stewardship*** – Developed distributional exposure analyses for body burdens of persistent organic chemicals in breastfed infants. Conducted site-specific, health-based risk assessments for urban industrial sites, military bases, and firing ranges, with emphasis on PAHs, heavy metals (including lead), and volatile organic compounds. Developed exposure scenarios, with appropriate assumptions and parameters, for on-site and off-site exposure pathways, including recreational scenarios. These assessments included determination of receptors-of-concern and the development of site-specific conceptual site models as per U.S. EPA criteria. Prepared risk assessments under Maryland's Voluntary Cleanup Program. Utilized state-of-the-science models for predicting blood lead levels in adults and children. Evaluated and utilized model developed by the American Water Works Association to predict disinfection by-product formation as a result of chlorination of drinking water for zebra mussel control. Managed the development of technical papers

which utilized innovative methodologies to correlate reductions of atmospheric concentrations of lead, carbon monoxide, ozone, and air toxics with improvements in human health. Performed literature research, prepared manuscripts and comments for the USEPA, and provided litigation and regulatory support in evaluation of toxicity and environmental impacts of ethylene glycol (EG), propylene glycol (PG), and EG and PG de-icing and anti-icing formulations.

**Systematic Review:** Published multiple medium- and chemical-specific systematic and critical reviews. Invited member of the Risk Of Bias In Non-randomized Studies of Exposures (ROBINS-E) Working Group and participated in the GRADE Guidance for Modelled Data Working Group. Developed instrument for assessing study quality as part of systematic review (Biomonitoring, Environmental Epidemiology, and Short-Lived Chemicals - BEES-C – instrument); approach is now used by the US Environmental Protection Agency.

**Project Management** – Over 30 years of project management experience with teams of scientists from both inside and outside the US; focus on team communication and meeting client expectations regarding deliverables, deadlines, and budget.

**Scientific workshop/expert panel development** - Developed, coordinated, and facilitated numerous expert panels and workshops on a wide range of topics including environmental chemicals in breast milk, interpretation and communication of biomonitoring data, neurodevelopmental function testing, exposure to disinfection byproducts in swimming pool environments and associated health effects, biomonitoring of chemicals with short physiologic half-lives, and disease cluster methodologies.

**Criteria Development** - Determined scientific issues associated with the use of bioconcentration factors for regulating hydrophobic organic chemicals (HOCs), including dioxin. Developed an alternative risk assessment formula for HOC criteria determination.

**Litigation Support** - Provided litigation support for pulp and paper industry counsel on issues associated with aquatic organism accumulation of dioxin. Provided seminars to pulp and paper industry counsel on dioxin bioaccumulation. Provided litigation support for chemical industry on relative toxicity and environmental fate of a group of widely used compounds. Completed Litigation Support training course.

**Regulatory Review** - As an invited member of the Washington State Department of Health/Department of Ecology Sediment Scientific Review Board, provided scientific evaluation of proposed method for development of marine sediment chemical criteria relative to human health. Provided regulatory review, update, and analysis of: Clean Water Act 304(l) listing and approval/disapproval process; EPA pulp and paper mill guidance documents; and states' development of dioxin water quality criteria, for the pulp and paper industry. Critiqued bioaccumulation section of EPA's Great Lakes Water Quality Initiative. Analyzed scientific basis for proposed particulate matter standard.

**Lead** - Former member of the Maryland Lead Poisoning Prevention Commission. Managed and conducted risk assessments for sites with lead contamination. Evaluated potential for human health risks associated with lead exposure to soil, water, and air, at firing ranges, and at residential, urban, and industrial sites. Utilized state-of-the-science models for predicting blood lead levels in both adults and children and has explored the utility of these models for assessing blood lead levels in people exposed to lead-contaminated media on an episodic basis. Made presentations to the public and media on risks

associated with exposure to lead and created risk communication documentation on childhood lead poisoning prevention, used by the Kennedy-Krieger Institute's Lead Poisoning Prevention Program and the Baltimore City Department of Health. Technical editor of HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

**Document Review and Analysis** - Conducted Record of Decision search and analysis for development of remediation strategy for mitigation of subsurface migration of DNAPL. Performed scientific review, analysis, and critique of a wide range of documents including: Environmental Impact statements associated with Federal Energy Regulatory Commission hydroelectric power projects, natural gas pipeline siting, dredging projects; legislative reports on the Arctic National Wildlife Refuge and offshore oil exploration near the Georges Bank; risk assessments on formaldehyde air emissions from a particleboard plant and aquatic organism contamination in the Sacramento River; Endangerment Assessment and RI/FS of sawmill and landfill Superfund site.

**Risk Communication** - Gave presentations to public and media on risks associated with exposure to lead. Created risk communication information on childhood lead poisoning prevention, including *Derek the Dinosaur's Coloring Book About Lead*, used by the Kennedy-Krieger Institute's Lead Poisoning Prevention Program and the Baltimore City Department of Health. Coloring book is also used by Lead Safe St. Louis where it has been translated into Spanish, Bosnian, Somali, Dari, and Vietnamese. Assisted in the development of a decision support document and white paper outlining the health risks and benefits associated with continued use of MTBE in the U.S. Assisted in the development of a Risk Primer for a major trade association.

**Teaching** - University of Maryland School of Law: Environmental Law and Science. The Johns Hopkins University: graduate-level courses on aquatic chemistry and environmental risk assessment. University of Maryland Baltimore County: upper-level course on human health risk assessment.

### **Professional Affiliations:**

American Public Health Association (APHA) (1999-2015)  
Maryland Public Health Association (Board member, 2008-2009)  
American Chemical Society, Environmental Division (ACS)  
Int. Society for Children's Health and the Environment (ISCHE), Founding member (2009-2015)  
International Society of Exposure Science (ISES)  
Society for Risk Analysis (SRA)  
Society of Toxicology (SOT)  
SOT Exposure Specialty Section, founding member (2017-present)

### **Selected Publications:**

Macey K, Lange R, Apel P, Poddalgoda D, Calafat AM, Kolossa-Gehring M, LaKind JS, Melnyk LJ, Nakayama SF, St-Amand A. Human Biomonitoring Health-Based Guidance Values: A Case Study of the HB2GV Dashboard and DEHP. *Submitted.*

Rule AM, Wagner FA, Negi N, Tajouh-Daghuie CJ, Rosman L, Naiman J, Lange SS, Clougherty JE, Vorhees D, LaKind JS. Principles and elements for creating and sustaining successful public-private partnerships (PPPs) for environmental community monitoring programs: Results from a

scoping review and interviews. *Environmental Justice* In press.

Higgins JPT, Morgan RL, Rooney AA, Taylor KW, Thayer KA, Silva RA, Lemeris C, Akl EA, Bateson TF, Berkman ND, Glenn BS, Hróbjartsson A, LaKind JS, McAleenan A, Meerpohl JJ, Nachman RM, Obbagy JE, O'Connor A, Radke EG, Savović J, Schünemann HJ, Shea B, Tilling K, Verbeek J, Viswanathan M, Sterne JAC. 2024. A tool to assess risk of bias in non-randomized follow-up studies of exposure effects (ROBINS-E). *Environment International* 186:108602.

Ebelt S, Baxter L, Erickson HS, Henneman LRF, Lange S, Luben TJ, Neidell M, Rule AM, Russell AG, Wendt Hess J, Burns CJ, LaKind JS, Goodman JE. 2023. Air pollution accountability research: Moving from a chain to a web. *Global Epidemiology* 100128. ISSN 2590-1133  
<https://doi.org/10.1016/j.gloepi.2023.100128>.

LaKind JS, Burns CJ, Johnson GT, Lange SS. 2023. Epidemiology for risk assessment: US EPA guidance and the Matrix. *Hygiene and Environmental Health Advances* 106:100059.  
<https://doi.org/10.1016/j.heha.2023.100059>

LaKind JS. 2023. Invited Perspective. PFAS and infant nutrition: Why aren't we monitoring? *Environmental Health Perspectives* 131(3): <https://doi.org/10.1289/EHP12134>.

LaKind JS, Naiman J, Verner M-A, Lévêque L, Fenton S. 2023. Per- and polyfluoroalkyl substances (PFAS) in breast milk and infant formula: A global issue. *Environmental Research* 219:115042.

Nakayama SF, St-Amand A, Pollock T, Ashley-Martin J, Bamai YA, Barr DB, Bessems J, Calafat A, Castaño A, Covaci A, Duca RC, Faure S, Galea KS, Hays S, Hopf NB, Ito Y, Jeddi MZ, Kolossa-Gehring M, Kumar E, LaKind JS, López ME, Louro H, Makris KC, Melnyk L, Naiman J, Nassif J, Noisel N, Quirós-Alcalá L, Rafiee A, Rambaud L, Silva MJ, Ueyama J, Verner M-A, Waras MN, Werry K. 2023. Interpreting Biomonitoring Data: Introducing the i-HBM Working Group's Guidance Value Dashboard. *International Journal of Hygiene and Environmental Health* 247:114046.

Wilson AM, Mussio I, Chilton S, Gerald LB, Jones RA, Drews FA, LaKind JS, Beamer PI. 2022. A novel application of risk–risk tradeoffs in occupational health: Nurses' occupational asthma and infection risk perceptions related to cleaning and disinfection during COVID-19. *International Journal of Environmental Research and Public Health* 19(23):16092 <https://doi.org/10.3390/ijerph192316092>

LaKind JS, Burns CJ, Donald R, Mattison DR. 2022. Commentary: Systematic reviews and observational epidemiology: the more things change... *Global Epidemiology* 4:100088.

LaKind JS, Burns CJ, Naiman DQ. 2,4-D and NHANES: Sources of exposure and identification of data gaps. *Hygiene and Environmental Health Advances* 4:100023.

Burns CJ, LaKind JS, Naiman J, Boon D, Clougherty JE, Rule AM, Zidek A. Research on COVID-19 and air pollution: A path towards advancing the science. *Environmental Research* 212, Part A:113240. <https://www.sciencedirect.com/science/article/pii/S0013935122005679?via%3Dihub>

LaKind JS, Verner M-A, Rogers R, Goeden H, Naiman DQ, Marchitti S, Lehmann G, Hines E, Fenton SE. 2022. Current breast milk PFAS levels in North America: After all this time why don't we know more? *Environmental Health Perspectives* 130(2): 25002. <https://doi.org/10.1289/EHP10359>

Burns CJ, LaKind JS. 2022. Elements to increase translation in pyrethroid epidemiology research: a review. *Science of the Total Environment* 813:152568 doi: 10.1016/j.scitotenv.2021.152568.

- Burns CJ, LaKind JS. 2021. Using the Matrix to bridge the epidemiology/risk assessment gap: A case study of 2,4-D. *Critical Reviews in Toxicology* 51(7):591-599. doi: 10.1080/10408444.2021.1997911
- LaKind JS, Burns CJ, Pottenger LH, Naiman DQ, Goodman JE, Marchitti SA. 2021. Does ozone inhalation cause adverse metabolic effects in humans? A systematic review. *Critical Reviews in Toxicology* 51(6):467-508. DOI: 10.1080/10408444.2021.1965086
- Verner M-A, Salame H, Housand C, Birnbaum LS, Bouchard M, Chevrier J, Aylward L, Naiman DQ, LaKind JS. 2020. How many urine samples are needed to accurately assess exposure to non-persistent chemicals? The Biomarker Reliability Assessment Tool (BRAT) for scientists, research sponsors and risk managers. *International Journal of Environmental Research and Public Health* 17:9102; doi:10.3390/ijerph17239102.
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- Goodman M, Li J, Flanders WD, Mahood D, Anthony LG, Zhang Q, LaKind JS. 2020. Epidemiology of PCBs and neurodevelopment: Systematic assessment of multiplicity and completeness of reporting. *Global Epidemiology* 2:100040.
- LaKind JS. 2020. Foreword. Total Exposure Health: An Introduction. Editors: Phillips KA, Yamamoto DP, Racz L. CRC Press.
- LaKind JS, Naiman J, Burns CJ. Translation of exposure and epidemiology for risk assessment: A shifting paradigm. 2020. *International Journal of Environmental Research and Public Health* 17(12):4220; <https://doi.org/10.3390/ijerph17124220>.
- LaKind JS, Burns CJ, Erickson H, Graham SE, Jenkins S, Johnson GT. 2020. Bridging the epidemiology risk assessment gap: An NO<sub>2</sub> case study of the Matrix. *Global Epidemiology* 2:100017.
- LaKind JS, Goodman M. 2019. Methodological evaluation of human research on asthmagenicity and occupational cleaning: A case study of quaternary ammonium compounds (“quats”). *Allergy, Asthma & Clinical Immunology* 15:69.
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- LaKind JS, Pollock T, Naiman DQ, Kim S, Nagasawa A, Clarke J. 2019. Factors affecting interpretation of national biomonitoring data from multiple countries: BPA as a case study. *Environmental Research* 173:318-329. PMID: 30951958
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- LaKind JS, Burns CJ, Naiman DQ, O'Mahony C, Vilone G, Burns AJ, Naiman JS. 2017. Critical and systematic evaluation of data for estimating human exposures to 2,4-dichlorophenoxyacetic acid (2,4-D) - quality and generalizability. *Journal of Toxicology and Environmental Health, Part B*. 20(8):423-446.
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- LaKind JS, Naiman, DQ. 2015. Temporal trends in bisphenol A exposure in the United States from 2003–2012 and factors associated with BPA exposure: Spot samples and urine dilution complicate data interpretation. *Environmental Research* 142:84–95.
- LaKind JS, Goodman M, Barr DB, Weisel CP, Schoeters G. 2015. Lessons learned from the application of BEES-C: Systematic assessment of study quality of epidemiologic research on BPA, neurodevelopment, and respiratory health. *Environment International* 80:41-71.
- LaKind JS, Sobus JR, Goodman M, Barr DB, Fürst P, Albertini RJ, Arbuckle TE, Schoeters G, Tan Y-M, Teeguarden J, Tornero-Velez R, Weisel CP. 2014. A proposal for assessing study quality: Biomonitoring, Environmental Epidemiology, and Short-Lived Chemicals (BEES-C) Instrument. *Environment International* 73C:195-207.
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- LaKind JS, Goodman M, Mattison DR. 2014. Bisphenol A and indicators of obesity, glucose metabolism/type 2 diabetes and cardiovascular disease: A systematic review of epidemiologic research. *Critical Reviews in Toxicology* 44(2):121–150.
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### **Selected Presentations:**

LaKind JS. (with A.M. Rule and F. Wagner). 2024. Creating and Sustaining Successful Public-Private Partnerships (PPPs) for Environmental Monitoring Programs: Principles and Elements. Webinar. 25 July.

Keynote speaker. 2023. Epidemiology and risk assessment: Reflections on working together to

improve public health. International Conference on Using Epidemiological Studies in Health Risk Assessments: Relevance, Reliability and Causality. Berlin, Germany. 9 November.

Invited lecturer. 2023. Everything you wanted to know about consulting\* - \*but were afraid to ask. Lecture, Applied Mathematics and Statistics, The Johns Hopkins University. 15 February. 14 September.

Invited speaker. 2022. “Forever Chemicals” (PFAS) in Breast Milk and Infant Formula: A Global Issue. International Clean-up Conference. Adelaide, Australia. 12 September.

Invited speaker. 2022. PFAS and breast milk: What we don’t know, what we should know. 3rd National PFAS Meeting: Highly Fluorinated Compounds – Environmental Justice and Scientific Discovery. Wilmington, NC. 16 June.

Invited speaker. 2022. PFAS in breast milk in the US and Canada: Mom/infant exposure data gaps. Health Canada Environmental Health Science and Research Bureau. 25 May.

Invited speaker. 2022. Chemical exposures and health effects: Exposure assessment and interpreting epidemiology research. Center for Food Safety and Applied Nutrition (CFSAN). Division of Risk and Decision Analysis. U.S. Food and Drug Administration. 25 March.

Invited speaker. 2022. Epidemiology and exposure assessment: What toxicologists need to know (or remember). The Toxicology Forum—2022 Virtual Winter Meeting. 25 January.

LaKind JS. 2021. Current breast milk PFAS levels in the US and Canada: After all this time why don’t we know more? International Society for Exposure Science Annual Meeting (virtual). 1 September.

LaKind JS. 2020. The Matrix: Bridging the gap between epidemiology and risk assessment. International Society for Exposure Science Annual Meeting. Webinar. 22 September.

LaKind JS, Burns CJ. 2020. The Matrix: Bridging the gap between epidemiology and risk assessment. Series of invited webinars (e.g., US EPA OPPP/OPPT, 9 September; Environmental and Occupational Health Sciences (EOHS) Research Seminar Series at The University of Texas Health Science Center at Houston, School of Public Health, 11 September; Johns Hopkins Bloomberg School of Public Health Current Topics in Epidemiology seminar series, 30 September; Department of Environmental and Occupational Health, Dornsife School of Public Health, Drexel University, 9 November).

LaKind JS. 2020. Environmental Chemicals in Breast Milk and Formula: Exposure and Risk Assessment Implications. The Society for Birth Defects Research & Prevention Virtual 60th Annual Meeting. 30 June.

LaKind JS, Burns CJ. 2020. Epidemiology, exposure and risk assessment. Texas Commission on Environmental Quality. Webinar. 18 June.

LaKind JS. 2019. Exposure Data Quality Assessments: Why and How? Society for Risk Analysis Annual Conference. Arlington, VA. 11 December.

LaKind JS, Burns CJ. 2019. The Matrix: Bridging the gap between epidemiology and risk assessment. Health Canada. Ottawa, Canada. 4 November.

Invited speaker. 2019. Biomonitoring and epidemiology research on personal care products: We’re

not in Kansas anymore. Personal Care Products Council Annual Safety Seminar. Philadelphia, PA. 30 October.

Invited lecture (with Dr. Heidi S. Erickson and Dr. Carol Burns). 2019. Strengthening the bonds between epidemiology and risk assessment for public health policy decisions. The University of Texas Medical Branch at Galveston/ Chronic Disease Epidemiology Course. 23 April.

Invited lecture. 2019. Conflicts of Interest and Environmental Research. Bioethics, Honors College of Florida Atlantic University. Jupiter, FL. 20 March.

LaKind JS, Burns CJ. 2019. Evidence-based environmental decisions: Bridging the gap between epidemiology and risk assessment. SOT RASS/ISES Webinar. 13 February.

LaKind JS. 2018. Exposure data quality assessments: ExpoQual. International Society of Exposure Science/International Society of Environmental Epidemiology. Ottawa, Canada. 28 August.

Invited speaker. 2018. How to assess and interpret biomonitoring data once you have it.

Workshop on the Feasibility of Addressing Environmental Exposure Questions Using Department of Defense Biorepositories. The National Academies of Sciences, Engineering and Medicine. Washington, DC. 15 June.

Invited speaker. 2018. Chemical exposures and human health: What can we take away from epidemiology research? Occupational Medicine, Clinical Public Health & Epidemiology Army Public Health Center. Aberdeen Proving Ground, MD. 6 June.

Invited speaker. 2018. Evidence-based environmental decision-making: Problems and progress. Bundesinstitut für Risikobewertung. Berlin, Germany. 24 May.

Invited speaker. 2018. Exposure data quality and environmental epidemiology: Implications for systematic reviews and weight of evidence. Environmental Health Science and Research Bureau (EHSRB) Seminar Series. Health Canada. 21 February. Ottawa, Canada.

Invited speaker. 2018. Exposure data quality in environmental epidemiology: Bad habits and remedies. Université de Montréal Public Health Research Institute. 20 February. Montreal, Canada.

Invited speaker. 2017. Exposure data in environmental epidemiology: limitations and quality assessments. European Food Safety Authority Scientific Conference on the Use of Epidemiological findings in Regulatory Pesticide Risk Assessment. 21 November. Parma Italy.

LaKind JS. 2017. Critical and systematic evaluation of 2,4-dichlorophenoxyacetic acid (2,4-D) exposure data: quality and generalizability for human assessments. International Society of Exposure Science Annual Meeting. 18 September. Durham NC.

LaKind JS. 2017. Transparent and systematic reviews of exposure data in environmental epidemiology: Approaches and case studies. International Society of Exposure Science Annual Meeting. 17 September. Durham NC.

LaKind JS. 2017. Evaluating strengths and limitation of the exposure data using the Biomonitoring, Environmental Epidemiology, and Short-Lived Chemicals (BEES-C) Instrument: Implications for science and policy. American College of Epidemiology Annual Conference. 25 September. New Orleans, LA.

Invited speaker. 2017. Chemical exposures and health effects: What we know and what we don't know



from epidemiology research. Mid-Atlantic Regional Conference in Occupational and Environmental Medicine. 23 September. Baltimore, MD.

Invited speaker. 2017. Chemical exposures and health effects: What we know and what we don't know from epidemiology research. Occupational and Environmental Residency Program, Johns Hopkins Bloomberg School of Public Health. 18 September. Baltimore, MD.

LaKind JS. 2017. Human exposure to 2,4-D: What do the data tell us? American Chemical Society 254<sup>th</sup> Annual Meeting. 21 August. Washington DC.

Invited speaker. 2016. Quality matters in environmental epidemiology: The exposure data we collect versus the data we need. Grand Rounds, University of Maryland School of Medicine. 17 November. Baltimore, MD.

Invited speaker. 2016. Can coating complexities. Workshop - Identifying and Evaluating Alternative Materials: The Case of BPA-Free Can Linings. 4 November. UC Berkeley. Berkeley, CA. <https://www.youtube.com/watch?v=UqNXi1qNXHQ>

Invited speaker. 2016. Biomonitoring and environmental epidemiology: Implications for personal care products. Personal Care Products Council Safety Workshop. 26 October. Alexandria, VA.

LaKind JS. 2016. Assessing Biomonitoring Data Quality: The Biomonitoring, Environmental Epidemiology, and Short-Lived Chemicals (BEES-C) Instrument. International Society of Exposure Science Annual Meeting. 12 October. Utrecht, The Netherlands.

LaKind JS. 2016. Harmonization, transparency, and access: Why we need these in environmental epidemiology [exposure science]. International Society of Exposure Science Annual Meeting. 10 October. Utrecht, The Netherlands.

Invited speaker. 2016. Cleaning, environmental exposures and respiratory health effects: Issues, challenges and opportunities. 17 June. Advancing the Science Webinar Series. Sponsored by the American Cleaning Institute (ACI), in collaboration with the Toxicology Excellence for Risk Assessment (TERA) Center, University of Cincinnati and Endorsed by the Society of Toxicology.

Invited speaker. 2016. Environmental Epidemiology: The importance of exposure assessment. CropLife America and RISE Spring Conference. 14 April. Arlington, Virginia.

LaKind JS. 2016. Quality Matters in Environmental Epidemiology: The data we collect versus the data we need. 14 March. Society of Toxicology. New Orleans, LA.

Invited speaker. 2016. Biomonitoring and temporality in environmental epidemiology: The data we collect versus the data we need. U.S. Environmental Protection Agency. Temporal Exposure Issues for Environmental Pollutants: Health Effects and Methodologies for Estimating Risk. 27–29 January. Research Triangle Park, NC

LaKind JS. 2015. Biomonitoring Data in Cumulative Risk Assessment: The Biomonitoring, Environmental Epidemiology, and Short-Lived Chemicals (BEES-C) Instrument. Society for Risk Analysis. 9 December. Arlington, Virginia.

LaKind JS, Naiman DQ. 2015. Temporal trends in BPA exposure in the US from 2003–2012 and factors associated with BPA exposure: Spot samples and urine dilution complicate data interpretation. International Society for Exposure Science. 19 October. Henderson, Nevada.

Invited speaker/panelist. 2015. Exposure Science and Environmental Epidemiology: Problems and

Proposed Solutions. ICCA-LRI & US EPA Workshop. What Will Work? Application of New Approaches for Chemical Safety Assessment. June 16-17. New Orleans, Louisiana.

Invited poster presentation. 2015. Issues with quality and harmony in environmental epidemiology: PCBs, BPA and phthalates. ICCA-LRI & US EPA Workshop. What Will Work? Application of New Approaches for Chemical Safety Assessment. June 16-17. New Orleans, Louisiana.

Invited speaker. 2015. Institute of Medicine Workshop on the Interplay between Environmental Exposures and Obesity. March 2-3. Research Triangle Park, NC.

Invited speaker. 2014. The need for more robust data in environmental epidemiology: BPA as a case study. Toxicology Forum. July 9. Aspen, Colorado.

Invited panelist. 2014. What Is Safe? Integrating Multi-Disciplinary Approaches for Decision Making about the Human Health and Environmental Impacts of Chemicals. ICCA-LRI & JRC Workshop. June 17-18, Lugano, Switzerland.

Speaker. 2014. PCBs and related chemicals in breast milk: What do the data mean for mothers, infants, doctors, regulators and others? Society of Toxicology Annual Meeting. 26 March. Phoenix, Arizona.

Invited speaker. 2013. Endocrine disruptors and obesity, diabetes and heart disease: What does epidemiological research tell us? 15th Cefic-LRI Annual Workshop. 21 November. Brussels, Belgium.

Invited speaker. 2013. Uncertainties in Epidemiology: The Example of Bisphenol A. 2013 Center for Advancing Risk Assessment Science And Policy Workshop. 6 November. Washington DC.

Invited speaker. 2013. Urine and Pool Water: Exposure and Health. World Aquatic Health Conference. 18 October. Indianapolis, Indiana.

Invited speaker. 2013. Cancer Clusters in the USA: What Do the Last 20 Years of State and Federal Investigations Tell Us? DHMH Workgroup on Cancer Clusters and Environmental Causes of Cancer. September 10, Baltimore, Maryland.

Invited speaker/panelist. 2013. What is Normal? Biomarkers of Exposure & Effect. ICCA-LRI & NCATS Workshop: What Is Normal? Implications for Chemical Safety Assessment. June 11-12, Santa Fe, New Mexico.

Guest lecturer. 2013. Human Health Risk Assessment Primer. University of Maryland, College Park. 30 April.

Invited speaker. 2012. 21<sup>st</sup> Century Solutions for 20<sup>th</sup> Century Problems: Lessons from 4 decades of environmental epidemiology research. CropLife America & RISE. Spring Conference. Arlington, Virginia. 5 April.

Invited speaker. 2011. Endocrine disruption and risk assessment: The controversial case of bisphenol A. Grand Rounds. Division of Endocrinology, Diabetes and Nutrition, University of Maryland School of Medicine. 31 October.

LaKind JS, Levesque J, Dumas P, Bryan S, Clarke J, Naiman DQ. 2011. Can We Compare United States and Canadian Population Exposures from National Biomonitoring Surveys? Bisphenol A (BPA) as a Case Study. International Society for Exposure Science. Baltimore, Maryland. 27 October.

Invited speaker. 2011. Swimming and asthma: What does the current research say? ACI Asthma Science Forum. Arlington, VA. 10 May.

Invited speaker. 2010. *Are the kids alright?* Strengthening regulatory decision-making in the uncertain world of children's health research. 12th Cefic LRI Annual Workshop. Brussels, Belgium. 18 November.

Guest Lecturer. 2010. Human Health Risk Assessment Primer. University of Maryland, College Park. 8 November.

Speaker. 2010. The Good, the Bad, and the Volatile: Can We Have Both Healthy Pools and Healthy People? World Aquatic Health Conference. Colorado Springs, CO. 8 October.

Invited speaker. 2010. A Multidisciplinary Approach to Advancing the Science of Neurodevelopmental Testing in Cohorts of Infants and Young Children. Teratology Society's 50th Annual Meeting. Louisville, Kentucky. Joint TS/Neurobehavioral Teratology Society Symposium on Advancing Neurodevelopmental Evaluation in Children. June 29. Citation: LaKind JS, Youngstrom E, Goodman M, Squibb K, Lipkin PH, Anthony LG, Kenworthy L, Mattison D. 2010. A multidisciplinary approach to advancing the science of neurodevelopmental testing in cohorts of infants and young children. *NBTS 34 Neurotoxicology and Teratology* 32:505.

Kenworthy L, Anthony LG, Goodman M, LaKind JS, Lipkin PH, Mattison D, Squibb K, Youngstrom E. 2010. Getting the biggest bang for your buck: Choosing neurodevelopmental tests that maximize power. *NBTS35 Neurotoxicology and Teratology* 32:506.

Anthony LG, Youngstrom E, Kenworthy L, LaKind JS, Goodman M, Squibb K, Lipkin PH, Mattison D. 2010. Threats to study validity: The Flynn Effect, examiner drift, confounders, lost in translation, and other important considerations. *NBTS36 Neurotoxicology and Teratology* 32:506.

Invited speaker. 2010. Environmental fate of chemicals: Bring babies into the food web. University of Maryland Baltimore County. 10 March.

Invited participant/speaker. 2009. Human milk biomonitoring: data interpretation and risk assessment issues. International Atomic Energy Agency. Vienna, Austria. 16 February.

Invited speaker. 2008. Grand Rounds. Environmental chemicals and breastfeeding infants. The Johns Hopkins School of Medicine. February 6. Baltimore, Maryland.

LaKind JS, Squibb KS, McElprang DO, Blount BK. Methodologic pilot study of volatile organic compounds (VOCs) in human milk. 2007. 17<sup>th</sup> Annual Conference of the International Society for Exposure Analysis. October. Durham, North Carolina.

LaKind JS, Aylward LL, Brunk C, DiZio S, Dourson M, Goldstein DA, Kilpatrick ME, Krewski D, Bartels M, Barton HA, Boogaard PJ, Lipscomb J, Krishnan K, Nordberg M, Okino M, Tan Y-M, Viau C, Yager JW, Hays SM. 2007. Guidelines for the Communication of Biomonitoring Equivalents: Report from the Biomonitoring Equivalents Expert Workshop. 17<sup>th</sup> Annual Conference of the International Society for Exposure Analysis. October. Durham, North Carolina.

Speaker. 2007. Workshop on Childhood Asthma and Environmental Exposures at Indoor Swimming Pools. Advancing the Science. Fourth Annual World Aquatic Health™ Conference. 3 October. Cincinnati, Ohio.

LaKind JS, Berlin CM Jr., Stokes JL, Naiman DQ, Paul IM, Patterson DG Jr., Jones RS, Niehüser S, Park A, Wang RY, Needham LL, Lorber MN, Sjödin A. 2007. Lifestyle and polybrominated diphenyl ethers (PBDEs) in human milk in the United States: A pilot study. 17<sup>th</sup> Annual Conference of the

International Society for Exposure Analysis. October. Durham, NC.

Invited speaker. 2007. Environmental chemicals and breastfeeding infants (update). La Leche League International's 50<sup>th</sup> Anniversary Conference. July 23. Chicago.

Invited speaker. 2006. Women's & Children's Health and the Environment. Talking about Environmental Chemicals in Human Milk: Why "Breast is Best." April 24. Baltimore, Maryland.

Invited speaker. 2006. Grand Rounds. What is in mother's milk and what does it mean? Environmental chemicals and breastfeeding infants. Children's Hospital at Sinai. February 14. Baltimore, Maryland.

LaKind JS, Berlin CM Jr. 2005. Workshop on Human Milk Surveillance and Biomonitoring for Environmental Chemicals in the United States. 15<sup>th</sup> Annual International Society of Exposure Analysis Annual Meeting. November. Tucson, Arizona.

Invited speaker. 2005. Grand Rounds. Interpretation and communication of information from biomonitoring studies. What physicians should know. Maryland General Hospital. October 10. Baltimore, Maryland.

Invited speaker. 2005. Biomonitoring Panel Report: Biomonitoring study design, interpretation, and communication. International Society of Regulatory Toxicology and Pharmacology Workshop: Understanding Human Biomonitoring. June 16. Sacramento, California.

Invited speaker. 2005. What is in mother's milk and what does it mean? Environmental chemicals and breastfeeding infants. Pediatric Academic Societies' Annual Meeting, Perinatal Nutrition and Metabolism Club. May 16. Washington, DC. Invited speaker. 2005. Interpretation and communication of information from biomonitoring studies. Ethics & Sustainability Dialogue Group. May 12. Alexandria, Virginia.

Invited speaker. 2004. Breast Feeding Promotion Task Force. June 7. Baltimore, Maryland.

Invited speaker. 2004. What is in mother's milk and what does it mean? A discourse on environmental chemicals and breastfeeding infants. Institute of Pharmacology and Toxicology, Section of Developmental and Environmental Toxicology, University of Zurich, April 22, Lausanne, Switzerland; World Health Organization, April 26, Geneva, Switzerland.

LaKind JS, Susten A, Mistry K. 2003. Uses and interpretation of human biomonitoring data. Society for Risk Analysis Annual Meeting. December 10. Baltimore, Maryland.

Invited speaker. 2003. Environmental chemicals in human milk. Sixth National Environmental Public Health Conference. December 4. Atlanta, Georgia.

LaKind JS, Bates MN, Wilkins AA. 2003. How useful is measurement of environmental chemicals in human milk in investigations of breast cancer etiology? Dioxin2003. August. Boston, MA.

Invited speaker. 2003. Department of Health and Human Services, Office on Women's Health. Workshop on Breast Cancer and the Environment. June 26. Washington, DC.

Invited speaker. 2003. Chemicals and Risk: What You Should Know, What Patients May Ask. Grand Rounds, Hershey Medical Center, Penn State College of Medicine. April 8. Hershey, Pennsylvania.

LaKind JS, Susten A, Mistry K. 2003. Society for Risk Analysis Annual Meeting. Uses and Interpretation of Human Biomonitoring Data. December 10. Baltimore, Maryland.

Invited speaker. 2003. US Environmental Protection Agency's Children's Health Protection Advisory Committee. Research and surveillance of environmental chemicals in human milk. March 19. Washington, DC.

Invited speaker. 2002. The Johns Hopkins University Bloomberg School of Public Health Education and Research Center Lecture Series. Environmental Chemicals in Human Milk. 2 December. Baltimore, Maryland.

Invited speaker. 2002. US Environmental Protection Agency Children's Health and Protection Advisory Council Science and Regulatory Work Group. 15 October. Washington, DC. Invited speaker. 2002. Breast milk monitoring for environmental chemicals in the U.S. Summary Expert Panel Workshop, Hershey, PA. Workshop on Chemicals and Drugs in Breast Milk. National Institutes of Health. April 24. Bethesda, Maryland.

Pittinger CA, LaKind JS. 2001. Weighing ecological risks and societal benefits: Pharmaceuticals and personal care products in the environment. 22<sup>nd</sup> Annual Society of Environmental Toxicology and Chemistry Meeting. November 15. Baltimore, Maryland.

Invited speaker. 2001. Protocol for breast milk monitoring for environmental chemicals. Toxic Chemicals in Breast Milk: A National Workshop to Assess Hazards to Children's Health of Chemical Contaminants in Breast Milk. Center for Children's Health and the Environment, Mt Sinai School of Medicine. October 5. New York City, New York.

LaKind JS, Berlin CM. 2001. Developing a protocol for breast milk monitoring for environmental chemicals: Workshop overview. International Society of Exposure Analysis Annual Meeting. November 4-8. Charleston, South Carolina.

LaKind JS, Berlin CM, Naiman DQ. 2001. Infant exposure to chemicals in breast milk in the United States: What we need to learn from a breast milk monitoring program. Presented at the Children's Environmental Health II: A Global Forum for Action. September 8. Washington, DC.

LaKind JS, Berlin CM. 2000. PDBEs in breast milk: Where do we go from here? Dioxin2000. August 13-17. Monterey, California.

LaKind JS, Berlin CM, Naiman DQ, Park CN. Characterization of dose distributions of selected breast milk contaminants to nursing infants: DDE and TCDD. American Public Health Association Annual Meeting, November, 1999; Society for Risk Analysis Annual Meeting, December, 1999; and Dioxin2000, Monterey, California, August 13-17, 2000.

Invited speaker. 1998. Principles of toxicology. School Nurse Institute. August 5. Towson, Maryland.

Invited speaker. 1998. Alchemy, risk assessment, and other phenomena. Lawrence University Science Colloquium. April 17. Appleton, Wisconsin.

Invited speaker. 1997. Managing risk in the face of scientific uncertainty. The Center for Technology, Environment, and Development (CENTED). Clark University. September 26. Worcester, Massachusetts.

Williams LG, Fendick E, LaKind JS, Stern B, Strand JA, Tardiff RG. 1995. Risk-based water quality criteria for treated mine-tailings effluent. Second World Congress of the Society of Environmental Toxicology and Chemistry.

Invited speaker. 1994. Comparison of human health risk assessment modeled data with observed data: Dioxin and lead. University of Guelph Department of Statistics. Guelph, Canada.

Invited speaker. 1993. Morgan State University Chemistry Department. Lecture on aquatic chemistry concepts and environmental and regulatory applications.

Invited speaker. 1992. Contradictions between Predictions and the Real World. National Association of Health Professionals Annual Conference. Norfolk, VA.

LaKind JS, Naiman DQ. 1991. Comparison of predicted and observed dioxin levels in fish: Implications for risk assessment. Society for Risk Analysis Annual Meeting.

LaKind JS, Rifkin E. 1991. A coordinated approach to dioxin regulation. Presented at Dioxin: National Conference on Establishing Multimedia Controls. May, 1991. Washington, DC.

Invited speaker. 1991. Use of the BCF in criteria development for hydrophobic compounds. Virginia Water Pollution Control Association Annual Conference.

LaKind JS, Rifkin E. 1990. Current method for setting dioxin limits in water requires reexamination. Dioxin and PCBs: National Conference on Approaches to Address Human Health Risks and Aquatic Life Impacts. May 10-11, 1990. Washington, DC.

LaKind JS, Rifkin E. 1990. Alternative approach for developing criteria for hydrophobic substances. 11th Annual Meeting of the Society of Environmental Toxicology and Chemistry.

LaKind JS, Stone AT. 1988. Reductive dissolution of goethite by substituted phenols. Annual Meeting of the American Geophysical Union.

LaKind JS, Stone AT. 1986. Reductive dissolution of goethite and hematite by substituted phenols. Annual Meeting of the American Geophysical Union.

LaKind JS, Brown PE. 1984. Characterization of the gold-bearing fluid at Red Lake, Ontario. Annual Meeting of the Geological Association of Canada- Mineralogical Association of Canada.

### **Professional Activities/Recognition:**

Special Issues Editor. 2023-present. *Environment International*.

Member. 2022 – present. Justice, Equity and Risk Specialty Group, Society for Risk Analysis.

Society of Toxicology. Junior Councilor, SOT Exposure Specialty Section. 2022-2023.

Mentor. 2021 – present. The Johns Hopkins University Mentoring Program.

Invited panelist. National Academies Committee on Guidance on PFAS Testing and Health Outcomes Information Gathering Session. 2021.

Member, Peer Consultation on Biomonitoring Data and Reverse Dosimetry to Estimate Chemical Exposures. 2021. FDA/CFSAN/Versar.

Member, Technical Organizing Committee. 2021. International Society of Exposure Science Annual Meeting.

ISES. 2020 - 2022. Ethics Committee.

EPA Grant Review Panel. 2020.

Steering Committee, 2020-present. i-HBM (International Human Biomonitoring) Working Group, ISES.

Session chair. 2020. Epidemiology, Exposure Science, and Risk Assessment: We need each other. International Society of Exposure Science. 22 September.

Member, HESI Assembly. 2019-2020.

Member, 2019 - 2020. Core Science Panel of the Beyond Science and Decisions Workshop Series.

Special issue editor. 2019. International Journal of Environmental Research and Public Health. Special Issue: Environmental Health Study with Remote Sensing Technologies: Exposure Assessment and Health Outcomes.

Appointed member. Health Effects-Energy Research Committee. December 18, 2017-2023.

ISES Committee member, Diversity, General Scientific Meetings Committees. January -December 2019.

ISES Vice Chair, Finance Committee, January-December 2019.

ISES Past President. January-December 2019.

ISES President. 2017-2018.

Session co-chair. 2018. Society Presidents' Call for Discussion: Intersection of Epi, Exposure and Decision-Making: Data Quality for Public Health Protection. International Society of Exposure Science/International Society of Environmental Epidemiology. Ottawa, Canada. 29 August.

Session co-chair. 2018. Exploring Current Worker Exposure Tools and Their Capability to Support Risk Evaluations of Chemicals under Amended TSCA. International Society of Exposure Science/International Society of Environmental Epidemiology. Ottawa, Canada. 28 August.

Session co-chair. 2018. Strengthening Exposure Assessment in Environmental Epidemiology: Problem Identification and Suggestions for Path Forward International Society of Exposure Science/International Society of Environmental Epidemiology. Ottawa, Canada. 28 August.

Invited member. 2018. Organizing Committee of the Conference on Uncertainty in Risk Analysis, 2019, Berlin, Germany.

Invited member. 2018. Technical Advisory Board, Total Exposure Health Conference and Workshop "Total Exposure Health: Bridging Exposure Science and Precision Medicine".

ISES Committees. ex officio member, all Committees, 2017-2018.

Founder, ISES Newsletter, 2017. Editorial Board, ISES Newsletter, 2017-2019.

Invited member. 2017. HESI Epidemiology "Best Practices" Project.

Session co-chair. 2017. International Society of Exposure Science Annual Meeting. 18 September. Durham NC. Exposure Assessment and Epidemiology for Regulatory Decision Making- Challenges and Opportunities (with June Yan). Durham, NC. 18 October.

Session co-chair. 2017. International Society of Exposure Science Annual Meeting. 2,4-D – A Case Study of Decades of Exposure Science; A Discussion of Quality, Quantity, and Harmonization (with Carol Burns). Durham, NC. 19 October.

Session Organizer. 2017. 2,4-D Human Exposure Data: Lessons from Decades of Study. American Chemical Society 254<sup>th</sup> Annual Meeting. Washington DC. 21 August.

Invited reviewer. 2017. Research-Practice Grants. Gulf Research Program of the National Academies of Sciences, Engineering, and Medicine. Washington DC. 12 September.

Invited reviewer. 2017. Minnesota Department of Health (MDH) revised health-based values for water. PFOS and PFOA.

Invited member. 2017. GRADE Guidance for Modelled Data Working Group. Hamilton, Ontario. 15-16 May.

Invited member. 2017. Risk Of Bias In Non-randomized Studies of Exposures (ROBINS-E) Working Group. Bristol, UK. 30-31 January.

HESI RISK21 Science Advisory Board. 2017-2020.

2017 SOT Regulatory and Safety Evaluation Specialty Section Award: Best Paper Contributing to the Field of Regulatory and Safety Evaluation in Toxicology. Beck et al. Approaches for describing and communicating overall uncertainty in toxicity characterizations: U.S. Environmental Protection Agency's Integrated Risk Information System (IRIS) as a case study. *Environment International* 89–90:110–128.

Member, Technical Organizing Committee. 2017. International Society of Exposure Science Annual Meeting.

Reviewer. 2017. Using 21st Century Science to Improve Risk-Related Evaluations. The National Academies Press.

Symposium Chair (with M. Mortensen). 2016. Biomonitoring: The Genie is out of the Bottle: Challenges in Data Quality and Interpretation. International Society of Exposure Science. Utrecht, The Netherlands. 12 October.

Symposium Chair (with D. Mattison). 2016. Harmonization, access, transparency: improving environmental epidemiology for public health decision-making. International Society of Exposure Science. Utrecht, The Netherlands. 10 October.

Invited member. 2016. National Institutes of Health Working Group - Risk Of Bias In Non-randomized Studies of Exposures. 2016.

Invited member. Epidemiology and Risk Assessment Expert Panel. 8 April 2016.

Invited member. EPA Expert Workshop on Aggregate Exposure Pathway: A Conceptual Framework to Advance Exposure Science Research and Complete the Source-to-Outcome Continuum for Risk Assessment. May 9-11, 2016. Research Triangle Park, North Carolina.

Invited member, Maryland Department of Health and Mental Hygiene (DHMH) Cancer Cluster Advisory Committee. 2016.

Membership Committee, Society for Risk Analysis. 2016.



President-Elect, International Society of Exposure Science. 2016.

Member, Technical Organizing Committee. 2016 International Society of Exposure Science Annual Meeting.

EPA Scientific and Technological Achievement Award (STAA) Level III for 2015 for: Providing Critical Models and Information Needed for Exposure and Risk Assessments of Environmental Chemicals in Infants.

Invited member, Review Panel, National Cancer Institute Laboratory of Metabolism (LM) of the NCI Intramural Program. September 16-18, 2015. Bethesda MD.

Jury member, ISES representative. 2015 LRI Innovative Science Award.

Invited participant. 2015. Institute of Medicine's Roundtable on Environmental Health Sciences, Research, and Medicine Workshop: The Interplay between Environmental Exposures and Obesity. March 2-3, Research Triangle Park, NC.

Co-Chair (with Dr. Benjamin Blount, CDC), 2015 Annual Meeting, International Society of Exposure Science. Henderson, NV. 18-22 October.

Founder, ISES Women's Networking Event. 2014.

Member, Diversity Committee. 2015 - present. International Society of Exposure Science.

Member, Nominations Committee. 2014 - present. International Society of Exposure Science.

Member, General Scientific Meetings Committee. 2014 - present. International Society of Exposure Science.

External Peer Reviewer. 2013. America's Children and the Environment. Third Edition. Environmental Protection Agency. EPA 240-R-13-001.

Grant Proposal Review. Health Canada's Chemicals Management Monitoring and Surveillance Fund. 2013.

Appointed member. Maryland Pesticide Reporting and Information Workgroup. June 2013.

Grant Proposal Review. Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO). April 2013.

Facilitator, Best Practices for Obtaining, Interpreting and Using Human Biomonitoring Data in Epidemiology and Risk Assessment: Chemicals with Short Biological Half-Lives. April 10-12, 2013. Baltimore, MD.

Facilitator, Advancing Cancer Cluster Assessments: Starting the Dialogue. April 3-5, 2013. Baltimore, MD.

Editorial Board. 2013. *Environment International*. February 2013- present.

Scientific Program Committee, 2013. Environmental Health Conference, Basel, Switzerland. 19-23 August. Joint conference of the International Society of Environmental Epidemiology (ISEE), International Society of Exposure Sciences (ISES) and International Society of Indoor Air Quality (ISIAQ).

Councilor, International Society of Exposure Science. 1 January 2013 – 31 December 2015.

Board of Directors, National Swimming Pool Foundation. 1 November 2012 – 28 October 2015.

Invited participant. 2012. Expert Workshop on Approaches to Improving the Risk Assessment of Persistent, Bioaccumulative and Toxic (PBT) Chemicals in Breast Milk. Environmental Protection Agency, Research Triangle Park, North Carolina. October 24-26.

Discussion Leader. 2012. Swimming Pools: Chemistry and Respiratory Effects, Gordon Research Conference, Drinking Water Disinfection Byproducts. Mount Holyoke College, August 5-10.

Panel member. 2012. US Environmental Protection Agency Science Advisory Board Panel on Perchlorate - Approaches for Deriving Maximum Contaminant Level Goals for Drinking Water.

Invited participant. Experts panel on exposure to swimming pool disinfection by-products and asthma and allergy effects. Porto, Portugal. 15 March 2011.

Mentor. 2011 - present. International Society of Exposure Science Mentor Program.

Facilitator, Children's Environmental Health & Protection Advisory Council: Feasibility of Biomonitoring in Maryland: An Open Meeting & Discussion. 1 April 2011. Laurel, MD.

Grant Proposal Review. Health Canada's Chemicals Management Monitoring and Surveillance Fund. 2011.

Grant Proposal Review. Health Canada's Chemicals Management Plan Monitoring & Surveillance Fund. 2011.

Grant Proposal Review. Human and Social Sciences, Epidemiology and Public Health, National Cancer Institute, France. 2011.

Institute of Medicine Committee on Blue Water Navy Vietnam Veterans and Agent Orange Exposure. May 2010 - 2011.

Graduate Council, UMBC. Associate member. April 2010 – present.

Grant Proposal Review: NIEHS. Superfund Basic Research and Training Program. October 2009.

Environmental Health Advisor, Maryland Department of the Environment Science Services Administration. June 2008-June 2009.

Grant Proposal Peer Review: NIEHS R21. Research to Action: Assessing and Addressing Community Exposures to Environmental Contaminants. July 2009.

Grant Proposal Peer Review: AAAS Research Competitiveness Service; Washington State's Life Sciences Discovery Fund. 2009.

Society of Toxicology Risk Assessment Specialty Section 2008 Top Ten Publications Advancing the Science of Risk Assessment awarded to Hays, S.M., Aylward, L.L., LaKind, J.S., et al. 2008. Guidelines for the Derivation of Biomonitoring Equivalents: Report from the Biomonitoring Equivalents Expert Workshop. *Regulatory Toxicology and Pharmacology* 51(3, Suppl 1):S4-S15.

Society of Toxicology Risk Assessment Specialty Section 2008 Top Ten Publications Demonstrating an Application of Risk Assessment awarded to Aylward LL, LaKind JS, et al., *J Toxicol Environ Health A* 71(22):1499-1508.

Board of Directors, U.S. – Montenegro Business Council. January -September, 2009.

Project Committee. 2008. *Maryland's Children and the Environment*. August. <http://www.dhmh.state.md.us/reports/pdf/MDChildrenEnv08.pdf>

Associate Editor. *Journal of Exposure Science and Environmental Epidemiology* 2008-2014.

Aquatics International Power 25. 2008. [http://www.aquaticsintl.com/2008/feb/0802\\_power.html](http://www.aquaticsintl.com/2008/feb/0802_power.html)

Workshop Facilitator. 2007. Workshop on Childhood Asthma and Environmental Exposures at Indoor Swimming Pools. Advancing the Science. 21-24 August. Leuven, Belgium.

Associate Editor. 2006. Environmental and Neurodevelopmental Disorders. Special Issue of *NeuroToxicology*, vol 27, Issue 5.

Invited participant. 2006. WHO Consultation to Develop a Strategy to Estimate the Global Burden of Foodborne Diseases. 25-27 September. Geneva, Switzerland.

Workshop Co-Instructor (D. Barr, A. Calafat, L. Needham). 2005. Exposure Assessment for Environmental Chemicals Using Biomonitoring. International Society for Exposure Analysis. Tucson, Arizona. November, 2005.

Symposium Chair (with B. Blount). 2005. Environmental Chemicals in Human Milk. International Society for Exposure Analysis. Tucson, Arizona. November, 2005.

Organizing Committee. 2005. Twenty-Second International Neurotoxicology Conference. Environment and Neurodevelopmental Disorders. Research Triangle Park, NC. 11-14 September.

Workshop Steering Committee and Organizer. 2005. Hershey Medical Center Technical Workshop: Optimizing the Design and Interpretation of Epidemiologic Studies for Assessing Neurodevelopmental Effects from In Utero Chemical Exposure. Research Triangle Park, NC. 14 September, 2005.

Session Co-chair (with L.L. Needham). Body Burden and Dietary Intake, Dioxin2005. Toronto, Canada. August, 2005.

Invited Participant: International Biomonitoring Workshop, ILSI Health and Environmental Sciences Institute, Research Triangle Park, NC, September, 2004.

Member, World Health Organization Survey Coordinating Committee for the WHO Global Survey of Human Milk for Persistent Organic Pollutants (POPs). Since 2004.

Workshop Organizer (with C.M. Berlin): Second Technical Workshop on Human Milk Surveillance and Biomonitoring Research on Environmental Chemicals in the United States. Milton S. Hershey Medical Center, Pennsylvania State University College of Medicine, 24-26 September 2004.

Symposium Chair. 2003. Society for Risk Analysis Annual Meeting. Uses and Interpretation of Human Biomonitoring Data. Baltimore, MD. December 7-10.

Technical Program Committee. 2003. Dioxin2003, Boston, MA. Session Chair: Public Health Decision-Making and Resource Allocation: Dioxin and Other PBTs as a Case Study.

Guest Editor. 2002, 2005. *Journal of Toxicology and Environmental Health*, issues on the Technical Workshop on Human Milk Surveillance and Research on Environmental Chemicals in the United States.

Workshop Organizer (with C.M. Berlin): Technical Workshop on Human Milk Surveillance and Research on Environmental Chemicals in the United States. Milton S. Hershey Medical Center, Pennsylvania State University College of Medicine, 15-17 February 2002.

Appointed Member: Maryland's Children's Environmental Health and Protection Advisory Council, December 2000 – July 2008.

Appointed Member: Maryland Lead Poisoning Prevention Commission, January 2000 – February 2002.

Invited Award Selection Panel Member: USEPA Science Achievement Award in Water Quality. 1998.

Guest Editor: *International Journal of Environment and Pollution*. Special Issue on Environmental Risk Assessment: Issues and Methods. Vol. 9, No. 1. 1998.

Session Organizer and Chair: Emerging EPA Guidance: Implications for the Pulp and Paper Industry. Annual TAPPI Environmental Division Conference, May 5-7, 1997.

TAPPI, Technical Program Committee Member. 1996 - 1997.

Technical Editor: Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1995 Edition). US Department of Housing and Urban Development.

Symposium Chair: Society for Risk Analysis Annual Meeting. Organized session on *Predicting Blood Lead Levels: Models and Applications*. December, 1994.

Invited Participant: Alliance for the Chesapeake Bay Roundtable on the Toxics Reduction Strategy of the Chesapeake Bay Program. Baltimore, May, 1994.

Invited Participant: Washington State Departments of Health and Ecology Sediment Scientific Review Board. Seattle, 1993.

Participant: Scientific Working Conference on Bioaccumulation of Hydrophobic Organic Chemicals. Institute for Evaluating Health Risks, Washington DC, June 1992.

Editorial Board: *Journal of Toxicology and Environmental Health*. 1992-2024.

Editorial Board: *Environmental Toxicology and Chemistry*. 1996-1998.

Peer Reviewer: *Environmental Health Perspectives*, *Journal of Exposure Science and Environmental Epidemiology*, *Chemosphere*, *Risk Analysis: An International Journal*, *Public Health Reports*, *Environmental Research*, *Journal of Pediatric Gastroenterology and Nutrition: An International Journal of Clinical, Experimental and Developmental Investigation*, *Toxicology and Applied Pharmacology*, *Integrated Environmental Assessment and Management*, *Reproductive Toxicology*, *Food and Chemical Toxicology*, *Environment International*, *Environmental Pollution*, *Reviews on Environmental Health*, *Toxicology and Industrial Health*, *Critical Reviews in Toxicology*

Member of Board of Directors, Advisory Board, and past President: Baltimore Coalition Against Childhood Lead Poisoning, Inc., Coalition for a Lead Safe Environment. 1992-1994.

Guest Editor: *Journal of Toxicology and Environmental Health*, 1991.

American Chemical Society Graduate Student Award in Environmental Chemistry. 1987.

### **On-line media:**

ROBINS-E Development Group (Higgins J, Morgan R, Rooney A, Taylor K, Thayer K, Silva R, Lemeris C, Akl A, Arroyave W, Bateson T, Berkman N, Demers P, Forastiere F, Glenn B, Hróbjartsson A, Kirrane E, LaKind J, Luben T, Lunn R, McAleenan A, McGuinness L, Meerpohl J, Mehta S, Nachman R, Obbagy J, O'Connor A, Radke E, Savović J, Schubauer-Berigan M, Schwingl P, Schunemann H, Shea B, Steenland K, Stewart T, Straif K, Tilling K, Verbeek V, Vermeulen R, Viswanathan M, Zahm S, Sterne J). Risk Of Bias In Non-randomized Studies - of Exposure (ROBINS-E). Launch version, 1 June 2022. Available from: <https://www.riskofbias.info/welcome/robins-e-tool>.

LaKind JS. 2018. Webinar: Chemical exposures and health effects: What we know and what we don't know from epidemiology research. CME through Accreditation Council for Continuing Medical Education (ACCME). Johns Hopkins Bloomberg School of Public Health, Johns Hopkins Education and Research Center for Occupational Safety and Health. <https://www.jhsph.edu/research/centers-and-institutes/johns-hopkins-education-and-research-center-for-occupational-safety-and-health/ce/ChemicalEpiCME>

LaKind JS. 2106. Webinar: Environmental Contributions to Asthma Prevalence: Assessing the Link between Exposure and Disease. Advancing the Science Webinar Series: Chemical-Induced Asthma. University of Cincinnati College of Medicine. 17 June.

LaKind JS. 2013. Soapbox Science, Nature.com Guest blog. Environmental chemicals in our bodies – we know they are in there, but what does it mean? <http://blogs.nature.com/soapboxscience/2013/01/02/environmental-chemicals-in-our-bodies-we-know-they-are-in-there-but-what-does-it-mean> 2 January.

Exposure science video for the International Society of Exposure Science. “Get connected - join the International Society of Exposure Science!!” [https://www.youtube.com/watch?v=WkmfI\\_ZwxHg](https://www.youtube.com/watch?v=WkmfI_ZwxHg)

### **Research/Grants:**

Investigator: Pilot Study on Concentrations of PBDEs in Human Milk (with Drs. C. M. Berlin, Jr. and I. Paul, Milton S. Hershey Medical Center, Penn State College of Medicine, and Dr. D. Patterson, Centers for Disease Control and Prevention). Cooperative Agreement CR-83150601-0 from the US Environmental Protection Agency. 2003.

Investigator: Partitioning and Elimination Kinetics Study of Human Milk and Blood (with Drs. C. M. Berlin, Jr. and I. Paul, Milton S. Hershey Medical Center, Penn State College of Medicine, and Drs. A. Sjödin and D. Patterson, Centers for Disease Control and Prevention). 2004.

Investigator: Human Milk Biomonitoring For Environmental Chemical (Volatile Organic Compound) Exposures (with Dr. K Squibb, University of Maryland School of Medicine and Dr. B. Blount, Centers for Disease Control and Prevention). 2005.

Principle Investigator. Review of Neurodevelopmental Function Tests in Children (with Drs. Eric Youngstrom, Michael Goodman, Katherine Squibb, Paul H. Lipkin, Laura Gutermuth Anthony, Lauren Kenworthy, Donald R. Mattison). Cefic/LRI Research Grant. 2009.

Principle Investigator. Development of Guidelines for Addressing Contamination and Associated Toxicity in Freshwater/Marine/Estuarine Sediments. Maryland Department of the Environment. 2009-2010.

Principle Investigator. Critical review of epidemiological evidence for the potential association between endocrine active chemicals and obesity, diabetes and cardiovascular disease (with Drs. Donald Mattison, Michael Goodman). Cefic/LRI Research Grant. 2013.

Principle Investigator. Exploring the Design Elements for Successful Public-Private Partnerships (PPPs) for Community Environmental Monitoring Programs (with Drs. Ana Rule and Fernando Wagner). Foundation for Chemistry Research and Initiatives Research Grant. 2022.

MPI (with Dana Boyd Barr [Emory] and Daniel Q. Naiman [Johns Hopkins]). Does NHANES underestimate true population-based exposures to pesticides? Exploring bias in NHANES human biomonitoring data.” NIEHA RO3. 2023.

### **Selected Co-Authored Reports/Articles:**

LaKind JS, Naiman J. 2022. White Paper: Review of the PFAS Personal Intervention Literature, Appendix E. In: National Academies of Sciences, Engineering, and Medicine 2022. Guidance on PFAS Exposure, Testing, and Clinical Follow-Up. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26156>.

HEI Energy Research Committee. Rosofsky A, Dunn-Norman S, Ebelt S, Hornberger G, Hu H, LaKind JS, Russell AG, Thorne PS, Adelsheim LA, Vorhees DJ. 2022. Recommendations for epidemiologic research to inform environmental health policy for unconventional oil and gas development.

HEI Energy Research Committee. 2020. Human Exposure to Unconventional Oil and Gas Development: A Literature Survey for Research Planning (FINAL COMMUNICATION). Communication 1. June 2020.

HEI Energy Research Committee. 2019. Potential Human Health Effects Associated with Unconventional Oil and Gas Development: A Systematic Review of the Epidemiology Literature (FINAL REPORT). Special Report 1. September 2019

Environmental Protection Perchlorate Advisory Panel. 2013. SAB Advice on Approaches to Derive a Maximum Contaminant Level Goal for Perchlorate Final Report.

IOM Committee. 2011. Blue Water Navy Vietnam Veterans and Agent Orange Exposure. The National Academies Press. Washington DC.

LaKind JS, Blatchley ER. 2011. The ABCs of DBPs. Aquatics International. February.

[http://www.aquaticsintl.com/2011/feb/1102\\_tech.html](http://www.aquaticsintl.com/2011/feb/1102_tech.html)

University of Maryland. 2009. Standard Operating Procedures for Fish and Shellfish Collection and Analysis. For: Maryland Department of the Environment Science Services Administration. 22 May.

University of Maryland. 2009. Technical Support Document for Establishing Fish and Shellfish Consumption Advisories in Maryland. For: Maryland Department of the Environment Science Services Administration. 23 March.

LaKind Associates, LLC (with Dr. E.J. Bouwer). 2003. Investigation of the Removal of Formaldehyde and Phenol by Funeral Home Septic Systems. Prepared for the National Funeral Directors

Association. May 2003.

LaKind Associates, LLC and ENVIRON International Corporation. 2002. Assessment of Triclosan Residues In Breast Milk Based on Available Data: Final Report.

LaKind Associates, LLC. Human Health Risk Evaluation of the Windsor Terminal Site, Baltimore, Maryland. December, 2000.

LaKind Associates, LLC. Onsite Human Health Risk Evaluation of TCE at the Sparks, Maryland Leica, Inc. Site. October, 1999.

The Sapphire Group, Inc. Distributions of Exposures Among Workers to Selected ETS-Related Chemicals in Indoor Workplace Air Using Data from the Oak Ridge 16-City Study. March, 1998.

The Sapphire Group, Inc. Critical Review of the USEPA's Proposed Rule for National Ambient Air Quality Standards for Particulate Matter. February, 1997.

EA Engineering, Science, and Technology, Inc. Ethylene Glycol: Scientific Rationale for Continued Listing on EPA's Toxics Release Inventory (TRI). Prepared for ARCO Chemical Company, February, 1996.

EA Engineering, Science, and Technology, Inc. Comparative Toxicity and Environmental Impacts of Ethylene Glycol and Propylene Glycol: A Review. Prepared for ARCO Chemical Company, February, 1996.

EA Engineering, Science, and Technology, Inc. Decision Support Document on Health Benefits and Health and Safety Associated with the Use of Methyl Tertiary Butyl Ether (MTBE) in Gasoline. Prepared for ARCO Chemical Company, December, 1995.

EA Engineering, Science, and Technology, Inc. Report on Toxins Analysis and Assessment (Phase I). Prepared for International Paper Company, November, 1995.

EA Engineering, Science, and Technology, Inc. Phase II Site Investigation Camp Buckner Skeet and Trap Range, U.S. Military Academy, West Point, New York. Prepared for U.S. Army Corps of Engineers - Baltimore District, November, 1995.

EA Engineering, Science, and Technology, Inc. Technical Papers on MTBE and Human Health. Health Benefits Analyses. Prepared for ARCO Chemical Company, October, 1995.

EA Engineering, Science, and Technology, Inc. Human Health Risk Assessment of Manufactured Gas Plant Residuals and Other Chemicals at Baltimore Gas & Electric Company's (BGE) Spring Gardens Facility — Evaluation of the Need for Additional Offsite Information to Conduct an Offsite Risk Assessment. Prepared for Baltimore Gas & Electric Company, March, 1995.

EA Engineering, Science, and Technology, Inc. Preliminary Analysis of Health Risk for the Proposed Kensington Mine Submarine Discharge. Prepared for confidential client. 1994.

EA Engineering, Science, and Technology, Inc. Human Health Risk Assessment of Manufactured Gas Plant Residuals and Other Chemicals to Construction Workers at Baltimore Gas & Electric Company's (BGE) Spring Gardens Facility. Prepared for Baltimore Gas & Electric Company, November, 1994.

EA Engineering, Science, and Technology, Inc. Environmental Impact Analysis: Blue Mountain Sportsman's Center. Prepared for Westchester County, September, 1994.

EA Engineering, Science, and Technology, Inc. Modeled Predictions of Disinfection By-Products for the Baltimore Water Supply System After Implementation of Zebra Mussel Control. Prepared for KCI Engineers, February, 1994.

### **Student Mentoring:**

2021. Facilitator. International Society for Exposure Science Webinar: Top tips for Writing an Academic and Industrial Curriculum Vitae. 8 November.

2021-present. Johns Hopkins Engineering Mentoring Program.

2018-present. Dissertation committee member. Cecilia Alcalá, Tulane University Ph.D. candidate. Awarded Ph.D. in 2020.

2014-2017. Doctoral defense committee member. Huan Xia, UMBC Ph.D. candidate. Awarded Ph.D. in 2017.

2012-2013 International Society for Exposure Science Mentor Program. Satori Marchitti, Ph.D., US Environmental Protection Agency, National Exposure Research Laboratory.

2012. Eric Sewell, summer intern, Johns Hopkins University Department of Applied Mathematics and Statistics.

2011-2012. International Society for Exposure Science Mentor Program. Liesel M. Seryak, Ph.D. candidate, The Ohio State University College of Public Health.

2011. Doctoral defense committee member. Piuly Paul, UMBC Ph.D. candidate.

2009. Mentor, Maryland Department of the Environment, Chunxiao Zhu, MS candidate, Department of Geography & Environmental Engineering, Johns Hopkins University.

2009. Mentor, Maryland Department of the Environment, Edward Berg, MS candidate, Department of Geography & Environmental Engineering, Johns Hopkins University.

### **Employment History:**

Employer: LaKind Associates, LLC  
Employed: June 1998 - present  
Title: Founder, President

Employer: University of Maryland Baltimore County  
Employed: January 2010 – May 2010  
Title: Part Time Instructor, College of Engineering & Information Technology

Employer: University of Maryland School of Medicine  
Employed: September 2008 – 2009  
Title: Associate Professor

Employer: University of Maryland School of Medicine  
Employed: July 2008 – June 2009



Title: Environmental Health Advisor, Maryland Department of the Environment

Employer: University of Maryland School of Medicine

Employed: May 2003 – present

Title: Adjunct Associate Professor

Employer: University of Maryland School of Law

Employed: May 2003 – May 2004

Title: Adjunct Associate Professor

Employer: The Sapphire Group

Employed: January 1997 - May 1998

Title: Co-founder, Vice President, and Managing Principal

Employer: EA Engineering, Science and Technology, Inc.

Employed: September 1993 - December 1996

Title: Senior Scientist

Employer: The Johns Hopkins University

Employed: September 1991 - 1994

Title: Instructor, Aquatic Chemistry

Employer: The Johns Hopkins University

Employed: September 1993 - December 1994

Title: Instructor, Environmental Risk Assessment

Employer: Self-employed, JSL Consulting

Employed: June 1991 - August 1993

Title: Environmental Consultant

Employer: Rifkin & Associates, Inc.

Employed: October 1988 - May 1991

Title: Senior Associate

Employer: U.S. Environmental Protection Agency, Office of Federal Activities

Employed: 1988

Title: Geologist