

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**Letter Peer Reviews for Exposure and Use Assessment and Environmental and
Human Health Summary for Five PBT Chemicals**

BIOGRAPHICAL SKETCHES

Docket Number: EPA-HQ-OPPT-2018-0314

Michael A. Babich, Ph.D.

Affiliation: U.S. Consumer Product Safety Commission, Rockville, MD.

Expertise: Human health risk assessment for chronic hazards, including carcinogenicity, neurotoxicity, and reproductive/developmental toxicity; assessing human exposure to chemicals in consumer products.

Education: Ph.D., Chemistry, Pennsylvania State University, University Park, PA (1982). M.S. Chemistry, Pennsylvania State University (1978). B.A., Chemistry, La Salle University, Philadelphia, PA (1975).

Experience Summary: Director 2013-present, Staff Scientist 1987-2013, Division of Toxicology & Risk Assessment, Directorate for Health Sciences, U.S. Consumer Product Safety Commission (CPSC). Operations Officer, Directorate for Laboratory Sciences, CPSC, (2003-2004), temporary detail. Research Associate, Biochemistry Department, Armed Forces Radiobiology Research Institute, (1987). Senior Staff Fellow (1986-1987), Staff Fellow (1984-1986), Laboratory of Molecular Carcinogenesis, National Cancer Institute. Postdoctoral Fellow, Toxicology Training Program, University of Rochester School of Medicine, (1987). Postdoctoral Fellow, Department of Microbiology, University of Rochester School of Medicine, (1981-1983). Research interests include human health risk assessment and exposure assessment.

Panel Experience: Dr. Babich served as federal technical advisor to U.S. Consumer Product Safety Commission (CPSC), Chronic Hazard Advisory Panel (CHAP) on Phthalates and Phthalate Alternatives, (2008-2014); Federal technical advisor, High Production Volume Chemical Workgroup, National Pollution Prevention and Toxics Advisory Committee (NPPTAC), for OPPT U.S. Environmental Protection Agency (EPA), (2005); Alternative *ex officio* member, National Cancer Advisory Board (NCAB), National Cancer Institute, National Institutes of Health, (2000-present); Coordinator, Toxics and Consumer Products (TAC) Committee, CPSC and EPA, Office of Pollution Prevention and Toxics (OPPT), (1998-1999); Federal Liaison Group on Exposure Assessment, Committee on Risk Assessment Methodology, National Academy of Sciences, (1992-1993). Dr. Babich served on advisory Panel on Polyurethane-Coated Silicone Implants, U.S. Food and Drug Administration, (1991).

Steven D. Bennett, Ph.D.

Affiliation: Household & Commercial Products Association (HCPA), Vice President of Scientific Affairs, Washington, DC.

Expertise: Green chemistry focusing on alternatives assessment and life cycle assessment; risk and exposure assessment, focusing on the use and exposure of formulated products.

Education: Ph.D., Inorganic Chemistry, University of Delaware; B.S., Chemistry, Lock Haven University, PA.

Experience Summary: Dr. Bennett leads HCPA's scientific affairs department, developing science policies and positions, and providing scientific guidance on a wide range of scientific issues primarily focused on formulated products. He is currently leading the association's Toxic Substances Control Act implementation efforts, especially prioritization and risk evaluation of existing chemicals. Dr. Bennett works with member companies on technical aspects pertaining to green chemistry, air quality, sustainability, U.S. Environmental Protection Agency's Endocrine Disruptor Screening Program, State of California's Proposition 65, and poison prevention issues. He manages the Floor Care Division, Product Ingredients Dictionary, the association's product stewardship initiative, Product Care® and co-manages the Pest Management Products Division. Bennett serves as a lead subject matter expert and spokesperson for the association, working with coalitions, government and diverse stakeholders to communicate member priorities.

Prior to joining HCPA, Dr. Bennett worked as a scientist and chemist for E.A. Engineering, was a university professor, and continues to lecture in the Environmental Science and Policy Master's Program at Johns Hopkins University. He is a member of American Chemistry Society and the Society for Risk Assessment.

Panel Experience: Dr. Bennett is currently a member of EPA Science Advisory Committee on Chemicals (SACC; 2018-present). Dr. Bennett served on EPA Small Business Entity Regulatory Flexibility Act Panel for Paint Strippers as part of the TSCA Section 6(a) rule-making process (2016). He serves on EPA Pesticide Public Dialogue Committee (PPDC) advisory group (2017-present).

Brian T. Buckley, Ph.D.

Affiliation: Rutgers, The State University of New Jersey. Piscataway, NJ.

Expertise: Analytical Chemistry, Exposure Science and Toxicology in Public Health. Methods development for measurement of small molecules for environmental contaminants and their metabolites in both biological and environmental matrices. Targeted chemical contaminants for study (toxicological, fate and transport, environmental health) include; metals, organometallics, persistent organic pollutants, endocrine disruptors, neurotoxic agents, VOCs, MVOCs, SVOCs and other emerging contaminants such as PFAs. Other areas of expertise include biomarker discovery of exposure, modeled uptake and risk estimate, bio-availability, ADME and environmental sampling/ disaster response.

Education: Ph.D. Analytical Chemistry, North Carolina State University; B.S. Chemistry, University of New Hampshire.

Experience Summary: Dr. Buckley is Executive Director Laboratories and Administration, Acting Associate Director Administration, *Environmental and Occupational Health Sciences Institute, Rutgers University, Piscataway, N.J.* 2/14 -Present Director, NIEHS Center Chemical Analysis Facilities Core, Adjunct Associate Professor, Environmental and Occupational Health Division *School of Public Health, Rutgers Biomedical Health Sciences* 06/02- present Graduate Faculty of the Joint Graduate Program in Toxicology, *Ernest Mario School of Pharmacy, Rutgers University, 06/05-present*, Graduate Faculty of Environmental Science, *Cook College, Rutgers University, 10/95 - Present* Editorial Board *Journal of Environmental and Public Health* 2009 – 2018. Dr. Buckley has more than 130 peer reviewed publications and published reports and 45 invited presentations.

Panel Experience: Dr. Buckley serves on EPA External Laboratory Advisory Board (2016); New Jersey Department of Environment (NJDEP) Science Advisory Board, Water Quality and Quantity Standing Committee (2010); NIOSH Exposure Assessment Program Panel Review (2017); NIH Superfund Review Panel (2016); EPA Science Advisory Panel on Chlorpyrifos (2012); EPA Science Advisory Panel on Pesticide Volatilization (2009); Rutgers Research/Technical Titles Review Committee (2003); Picatinny Coordination Planning Committee, (2003-2004); NJDOHSS Biomonitoring Advisory Committee (2002-2003); University Laboratory Safety and Design Committee, (1998); NJ Future Advisory Committee for the Sustainable Goals and Indicators Process, (1997-1999); NJDEP Pesticide Review Committee, (1995 – 1997); Science Advisory Committee for James J. Howard (NOAA) Laboratory, (1994-1996).

George P. Cobb III, Ph.D.

Affiliation: Baylor University, Waco, TX.

Expertise: Dr. George P. Cobb is a Professor at Baylor University, where he serves as Chair of the Department of Environmental Science.

Education: Ph.D. in Chemistry University of South Florida; BS in Chemistry from the College of Charleston.

Experience Summary: Prof. Cobb has published over 125 peer reviewed journal articles as well as numerous book chapters. Throughout his career, Prof. Cobb has developed novel sampling and analysis techniques to quantify a wide range of chemicals including cholinergic insecticides, trace metals, POPs, volatile organics, explosives, and nanomaterials. Prof. Cobb's approaches allow quantification of toxicants at environmentally relevant concentrations, and as such, his techniques have been used to evaluate toxicant transport, transformation, and biological exposure. Several approaches allow non-lethal or noninvasive sampling of biota to facilitate long term monitoring of organisms inhabiting potentially contaminated sites. These approaches have often been used to assess environmental risks at industrial sites, waste sites or in agricultural areas. Prof Cobb and his research group have begun non-targeted screening techniques to screen samples for potentially hazardous chemicals. His research has been funded by NIEHS, NCER, DOD, DOE, as well as state and local governments. Prof. Cobb previously served on the World Council for the Society of Environmental Toxicology and Chemistry (SETAC).

Panel Experience: Prof. Cobb served on more than dozen Environmental Protection Agency (EPA) Science Advisory Panels to evaluate risks of pesticides and genetically modified organisms.

Susan Dempsey, M.S.

Affiliation: Nebraska Department of Health and Human Services (DHHS), Lincoln, NE.

Expertise: Ms. Dempsey is the State Risk Assessor & Toxicologist for the Nebraska Department of Health & Human Services (DHHS).

Education: M.S. Environmental Sciences & Toxicology and BS in Biological Sciences & Chemistry from the University of Nebraska.

Experience Summary: Ms. Dempsey served in this capacity for 25 years. In this role she assists local health departments, the DHHS, the Nebraska Dept. of Environmental Quality, the Nebraska Emergency Management Agency, the U.S. EPA, and the U.S. Army Corps of Engineers with assessing and communicating both human and ecological health risks associated with chemical exposure. Programs include Epidemiology, Drinking Water, Air, Surface Water, Groundwater, RCRA, SUPERFUND, and UST. She also works directly with the public to address health concerns following exposure to contaminants and helps residents and businesses to address these issues, such as determining when to provide alternative water sources. She authored the State's methamphetamine decontamination regulations and provides oversight following implementation. She represents the agency on workgroups for hazardous algae blooms, fish consumption advisories, *Legionellosis* cases, emergency response, and in approving the use of chemical additives in geothermal systems. For more information, please see the "Nebraska Environmental Risk Assessment" webpage.

She is a member of the NE Environmental Health Association and the Society for Risk Analysis. She is a Director-at-large for the Midwest-Plains Chapter of Certified Hazardous Materials Managers and was appointed by the governor to the State Emergency Response Commission in 2015.

Panel Experience: Not listed.

William Doucette, Ph.D.

Affiliation: Utah State University, Logan, UT.

Expertise: Fate and behavior of organic contaminants in the environment; phytoremediation, the uptake of chemicals into plants, the measurement and prediction of physical-chemical properties using Quantitative Structure Property Relationships (QSPRs), emission of chlorinated solvents into indoor air.

Education: Ph.D., Aquatic Chemistry; B.S./M.S., Chemistry, University of Wisconsin-Madison.

Experience Summary: Professor (2000-present) Department of Civil and Environmental Engineering/ Interdepartmental Graduate Program in Toxicology at Utah State University (USU) and Associate Director of the Utah Water Research Laboratory (since 2008); Associate Environmental Chemistry Editor for Environmental Toxicology and Chemistry (1999-present); Associate Professor, USU (1993-2000); Senior Environmental Chemist, Eli Lilly and Company (1992-93); Associate Professor USU ((1990-1992) Assistant Professor, USU (1985-1990).

Panel Experience: Dr. Doucette is currently a member of EPA Science Advisory Committee on Chemicals (SACC; 2017-present). Dr. Doucette was appointed to the US Environmental Protection Agency Chemical Safety Advisory Committee (CSAC) in (May 2016). He has also served on the following advisory panels, boards and committees: ILSI Health and Environmental Sciences Institute (HESI) Bioaccumulation Project Committee on Terrestrial Bioaccumulation (January 8–10, 2013); NIH/NIEHS Proposal Review Panel, Superfund Research Program, P42, (Nov 1-2, 2012); State of Utah Solid and Hazardous Waste Control Board (1998-2007); NIEHS Proposal Review Panel, Innovative Approaches to Remediation of Recalcitrant Hazardous Substances in Sediments. (June 5-6, 2007); UW Sea Grant Peer Review Panel, (August 7-8, 2006); EPA Science Advisory Board, EPI Suite Review Panel, March 7-9, 2006; CATABOL Review Panel, (February 21-23, 2006); UW Sea Grant Peer Review Panel, (August 19-20, 2003); DOE/NSF Peer Review Panel, Phytoremediation, (April 1-2, 2003); EPA Peer Review Panel, Environmental Chemistry, (Oct. 18-20, 1999); EPA Peer Review Panel, Small Business Innovation Research Phase 1, (January 26-29, 1999); EPA Peer Review Panel, Small Business Innovation Research Phase 1, (January 26-29, 1998); EPA Peer Review Panel, Environmental Chemistry, (May 5-7, 1996); EPA Peer Review Panel, Chemistry and Physics of Water and Soil, (December 15-18, 1990).

Robert C. Hale, Ph.D.

Affiliation: Dept. of Aquatic Health Sciences, Virginia Institute of Marine Science, College of William and Mary, Williamsburg, VA.

Expertise: Sources, fate, exposure & effects of persistent, bioaccumulative & toxic (PBT) chemicals & emerging organic pollutants in aquatic, terrestrial & built/indoor environments. Life cycle analyses/temporal trends of products & additives. Fate & effects of plastic debris/ microplastics. Specific expertise in sampling, instrumental analyses, flame retardants, biotransformation & toxicology of organic pollutants.

Education: Ph.D., Marine Science/Environmental Chemistry, College of William & Mary; B.S., Biology & B.A. Chemistry, Wayne State University.

Experience Summary: Professor, Virginia Institute of Marine Science (VIMS) (2002-present); Associate Professor, VIMS (1993-2002); Assistant Professor, VIMS (1987-1993); Research Environmental Chemist, Mobil Corp. Environmental & Health Sciences Lab, Mobil Corp. (1986-1987); Sr. Environmental Chemist II, Mobil Corporation Environmental and Health Sciences Lab (1984-1986).

Research interests include contaminant sources, development of analytical methods to detect legacy/emerging pollutants/microplastics, release/bioavailability of chemicals from products & diverse environmental media, pharmacokinetics /biotransformation of organic contaminants & effects on environmental & public health.

Panel Experience: Dr. Hale served as Panel member for National Science Foundation Antarctic Ocean & Atmospheric Sciences (2017); Consortium for Ocean Leadership, Gulf of Mexico Research Initiative Theme: Chemical evolution & biological degradation of the petroleum/dispersant systems & subsequent interaction with ecosystems. Theme: Environmental effects of the petroleum/dispersant system on the sea floor, water column, coastal waters, beach sediments, wetlands, marshes, and organisms; & the science of ecosystem recovery (2017); Panel member for "Microbeads & Microplastics in the Chesapeake Bay". Chesapeake Bay Program's Scientific and Technical Advisory Committee (2015); Consortium for Ocean Leadership. Theme: Technology developments for improved response, mitigation, detection, characterization, and remediation associated with oil spills and gas releases (2015); Virginia Biosolids Expert Panel (2008); Peer Consultation Panel ad hoc member: Voluntary Children's Chemical Evaluation Panel (VCCEP): DecaBDE, OctaBDE & PentaBDE (2003); EPA Science Advisory Panel: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) – Sediment toxicity and fate of synthetic pyrethroids. Methodology for conducting comparative ecological risk assessments: chemical fate & transport (1999); Peer review panel for "Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health (1999); Panel member: Chesapeake Bay Toxics of Concern STAC Review (1998).

Michael Jayjock, Ph.D. CIH

Affiliation: Sole Proprietor, Jayjock Associates LLC, Langhorne, PA.

Expertise: Human health exposure/risk assessment with a focus on physical chemical modelling.

Education: Ph.D. Drexel University, Environmental Engineering, MS Drexel University, Environmental Science, BS Chemistry, Pennsylvania State University.

Experience Summary: Dr. Michael Jayjock is the Sole Proprietor of Jayjock Associates, LLC a for-profit consultancy (<http://www.jayjock-associates.com>). Previously (1989-2004) he was a Senior Research and Environmental Health and Safety Fellow and Manager for Risk Assessment at the Rohm and Haas Company. In this position, he was responsible for the determination of human health risk from and development of tools for the evaluation of human exposure and risk to chemicals. He is a Fellow of the American Industrial Hygiene Association and is certified in the Comprehensive Practice of Industrial Hygiene by the American Board of Industrial Hygiene. His professional activities include exposure modeling research, human exposure/risk assessment to primarily micro-environmental (near-field) pollutants and uncertainty analysis. Dr. Jayjock writes a blog with over 100 posts on human health exposure and risk assessment at: <http://jayjock-associates.blogspot.com/>

Panel Experience: Dr. Jayjock served on Hanford Tank Vapor Assessment Team, U.S. DOE, (2014). Peer Review Panel: Science Advisory Board (SAB) Panel on Lead Exposure, U.S. EPA (2010-2011). Peer Consultation Panel, Perfluorooctanoic Acid (PFOA) Site-Related Environmental Assessment Program, U.S. EPA, (2008). Peer Consultation Panel on Ethyl Benzene, U.S. EPA – Office of Pollution Prevention & Toxics (OPPT) - Voluntary Children's Chemical Evaluation Program (VCCEP), (2007); Board of Scientific Councilors, U.S. EPA. Peer Review Panel for Office of Research and Development Science Program, (2005); Peer Consultation Panel on Methyl Ethyl Ketone, U.S. EPA – for OPPT - VCCEP, (2004); Peer Consultation Panel on Flame Retardants, U.S. EPA – for OPPT - VCCEP, (2003); Human Health Research Strategy Panel, U.S. EPA - Science Advisory Board, Executive Committee, (2002); Integrated Human Exposure Committee (IHEC), U.S. EPA - Science Advisory Board, Consultant, (2001-2003); Integrated Human Exposure Committee (IHEC)-U.S. EPA Science Advisory Board Member, (1998-2001). Dr. Jayjock served on Committee on Risk Assessment of Flame-Retardant Chemicals, National Research Council - National Academy of Sciences (NAS) Committee on Toxicology – (2000); Science Program Committee, Chemical Industry Institute of Toxicology working on State of the Science (STOTS) research needs in risk assessment, (1998); Committee on Risk Assessment, American Industrial Hygiene Association, (1998-present); Committee on Exposure Assessment Strategies, American Industrial Hygiene Association, (1996-present); Committee to Review Risk Management in the DOE's Environmental Remediation Program, National Research Council - NAS, (1994); Committee on Advances in Assessing Human Exposure to Airborne Pollutants National Research Council - NAS, (1991).

John C. Kissel, Ph.D.

Affiliation: Professor Emeritus, University of Washington, Seattle WA.

Expertise: Environmental and occupational exposure assessment, dermal exposure assessment, regulatory exposure models, hazardous waste management, risk assessment, chemical transport.

Education: Ph.D. Civil/Environmental Engineering, Stanford University, S.M., Environmental Engineering, Harvard University, B.S., Civil Engineering, University of Notre Dame.

Experience Summary: Dr. Kissel is Professor Emeritus (retired to part time status, 2016) of Environmental and Occupational Health Sciences at the University of Washington in Seattle, where he was appointed Assistant Professor in 1990, Associate Professor in 1996 and Professor in 2006. Prior to employment at the UW, he worked as a process engineer at Black and Veatch in Kansas City from 1974 to 1978, was a Research Assistant at Stanford University from 1978 –1985, and held an Assistant Professor position in the School of Public and Environmental Affairs at Indiana University from 1985 – 1990. Dr. Kissel is a former President of the International Society of Exposure Science (2002 – 2003) and served one term as chair of the Exposure Assessment Specialty Group within the Society for Risk Analysis (1995 – 1996). Dr. Kissel's research interests involve human exposure assessment, with emphasis on exposures related to waste management, agricultural and residential use of pesticides, and consumer products. He has experience in probabilistic prediction of aggregate exposure and reconciliation of model predictions with observed biomarker data. Dr. Kissel and his students have produced multiple papers describing human exposure to soil that are listed as “key studies” in US EPA's *Exposure Factors Handbook* and have conducted both *in vitro* and *in vivo* investigations of dermal exposures to chemicals.

Panel Experience: Dr. Kissel is currently a member of the Science Advisory Committee on Chemicals (SACC) (2017-2018). He has served on EPA peer review panel for the Chemical Safety Advisory Committee (CSAC) for the Draft Risk Assessments for 1-Bromopropane (2016), the Chemical Assessment Advisory Committee (CAAC) Augmented for the Review of Benzo[a]pyrene IRIS Assessment (2015), contract peer review of Methylene Chloride (DCM) and *n*-Methylpyrrolidone (NMP) for Paint Stripping Use (2013); Human Studies Review Board (2012--2015); the external review panel for Children's Total Exposure to Persistent Pesticides and Other Persistent Pollutants (CTEPP) (1998--2002); eight FIFRA Science Advisory Panels (1998--2010). His panel experience also includes peer review of the *Human Health Risk Assessment, General Electric/Housatonic River Site - Rest of the River*, USEPA/General Electric Co. (2003); service on two NAS Committees (2004 – 2005 and 2014 – 2015). Dr. Kissel also has panel experience on the peer review of *Environmental Health Criteria Document No. 242: Dermal Exposure* for the WHO (2011) and current membership on the NIOSH/NORA Immune, Infectious and Dermal Disease Prevention Cross--Sector Council (2016--present) and peer reviewer of the *Exposure Factors Handbook* Revision peer review (1995); the *Dermal Risk Assessment Interim Guidance: Supplemental Guidance to Risk Assessment Guidance for Superfund* peer review (1998).

Sabine S. Lange, Ph.D., D.A.B.T.

Affiliation: Section Manager, Toxicology Division, Texas Commission on Environmental Quality, Austin, TX.

Expertise: Biochemical and molecular mechanisms of mutagenesis and carcinogenesis. Human health effects risk assessments of air permit applications, ambient air monitoring projects, and hazardous waste sites. Development of chemical toxicity factors. Conducting and overseeing systematic reviews and independent analyses of risk assessments.

Education: Ph.D., Biochemistry and Molecular Carcinogenesis, University of Texas at Houston and MD Anderson Cancer Center; B.Sc., Biochemistry, University of Western Ontario (Canada).

Experience Summary: Dr. Lange's Research interests include the toxicology of criteria air pollutants, particularly ozone and particulate matter dosimetry and exposure-response; as well as advancing the science of chemical risk assessment. She is a Diplomate of American Board of Toxicology (2016); Toxicology Section Manager (2015-2018); Toxicologist (2014-2018); Toxicology Division, Texas Commission on Environmental Quality (TCEQ), Austin, Texas. Post-doctoral fellow (2009-2014) at the Molecular Carcinogenesis Department, MD Anderson Cancer Center, Smithville, Texas. Dr. Sabine has served as chair and panel member for sessions presented at Society for Risk Analysis (SRA) meetings. Dr. Sabine serves as a Member of the University of Texas at Austin Institutional Biosafety Committee.

Panel Experience: Dr. Sabine has served as a panel member for the Independent Workshop on Ozone: NAAQS Science and Policy.

Craig Rowlands, Ph.D., D.A.B.T.

Affiliation: Industry- Underwriters Laboratories, LLC., Northbrook, IL.

Expertise: Human health risk assessment, molecular biology, systems biology, toxicology applications to chemical risk assessments, sustainability and toxicant modes of action.

Education: Ph.D., Toxicology, and B.S., Biochemistry, Texas A&M University.

Experience Summary: Dr. Craig Rowlands is a Senior Toxicologist with UL Product Supply Chain Intelligence where he provides leadership in the development of new approaches and capabilities for safety assessments of chemicals and consumer products. He is an expert in navigating regulatory compliance for new substances and products through delivery of the appropriate safety data and risk assessments. His research focuses on systems biology and toxicology applications to chemical risk assessments, sustainability and toxicant modes of action. He is an Adjunct Professor of Toxicology at Michigan State University, Diplomate of the American Board of Toxicology, and a Fellow of the American College of Nutrition. Prior to his tenure at Underwriters Laboratories, Dr. Rowlands was employed with the Toxicology and Environmental Research & Consulting program at The Dow Chemical Company, where he practiced chemical risk assessment and led the development of new approaches to risk assessment policy and practices on the application of 21st century non-animal toxicity testing methods.

Dr. Rowlands serves as Chair, Society of Toxicology, Current Concepts in Toxicology Committee [2015-Present]; Co-chair, American Chemistry Council, Public Health and Science Policy Sub-team, Science Integrity and Risk Assessment Working Group (2009 – 2016); Steering Committee, International Life Sciences Institute, Health and Environmental Sciences Institute, Risk21 Project (2010 – 2016); Co-chair, International Life Sciences Institute, Health and Environmental Sciences Institute, Risk21 Project, Dose-Response sub-team (2010 – 2016); Co-chair, International Life Sciences Institute, Health and Environmental Sciences Institute, Non-Animal Alternatives Framework Project (2014 – 2016); Keystone Center Research Integrity Roundtable (2012).

Panel Experience: Dr. Rowlands is currently a member of EPA Science Advisory Committee on Chemicals (SACC; 2018-present). Dr. Rowlands served as panel reviewer of USDA National Human Nutrition Program 5-Year Research Plan Committee (2000).

Daniel Schlenk, Ph.D.

Affiliation: Professor of Aquatic Ecotoxicology and Environmental Toxicology at the University of California Riverside, CA.

Expertise: Research on understanding the biochemical factors that influence susceptibility to environmental and natural chemicals with a focus on Aquatic Ecotoxicology.

Education: PhD in Toxicology, Oregon State University. BS Toxicology Northeast Louisiana University.

Experience Summary:

Dr. Daniel Schlenk is Professor of Aquatic Ecotoxicology and Environmental Toxicology at the University of California-Riverside. He is a Fellow of the American Association for the Advancement of Science, and from 2007-2014. Dr. Schlenk was a member of the Board of Directors for the North American Society of Environmental Toxicology and Chemistry (2003-2006). His research interests focus on mechanisms of action of pesticides, PAHs, and emerging compounds in aquatic organisms.

Panel Experience: Dr. Schlenk is currently a member of EPA Science Advisory Committee on Chemicals (SACC; 2017-present); Dr. Schlenk's experience on Federal panels includes: Permanent Member US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Science Advisory Panel (2007-2012) and Chair US EPA FIFRA Science Advisory Panel (2012-2014). USEPA Chemical Safety Advisory Committee (CSAC) (2016) and the Toxic Substances Control Act (TSCA), Draft Risk Assessment Work Plan Chemical for 1-Bromopropane (2016); Ad hoc reviewer National Institute of Environmental Health Sciences (NIEHS) Freshwater Biomedical Centers (1996); US Department of Agriculture (1997-2000) and National Science Foundation (1996-present); National Oceanic and Atmospheric Administration (NOAA) Oceans and Human Health Initiative Grant Review Panel (2005); US EPA Endocrine Disrupter Mixtures Grant Review Panel (2005); US EPA Science Advisory Board, Aquatic Life Criteria Guidelines (2005); NIEHS P30 Core-Center Applications (2008); and NIEHS Superfund Research Program P42 Center Applications (2016). Dr. Schlenk has also served on numerous state and foundation review panels and committees.