

SYMPOSIUM SPEAKER BIOGRAPHICAL INFORMATION

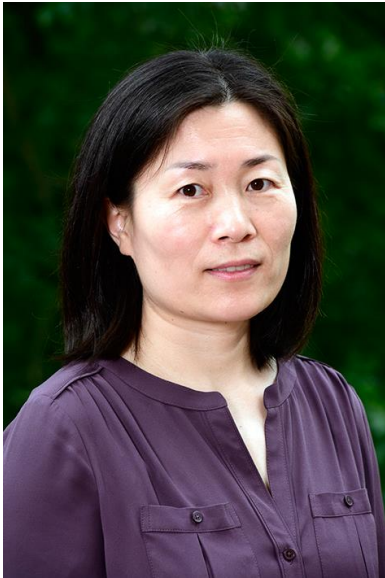


Tom Augspurger, PhD (G'06, MEM'89) is an ecologist /contaminants specialist with the U.S. Fish and Wildlife Service field office in Raleigh, NC. Tom received a Masters of Environmental Management (Resource Ecology) and Ph.D. (Environment / Integrated Toxicology Program) while at Duke. He provides technical support to USFWS and others on recovery of aquatic threatened and endangered species, restoration of degraded ecosystems, management of wildlife refuges, and other natural resource issues with a contaminant linkage. Tom is an adjunct associate professor in the Toxicology Program at North Carolina State University and Vice President of the Society of Environmental Toxicology and Chemistry–North America. He is the author or co-author on about 30 papers and 20 technical assistance reports on fish and wildlife toxicology and is on the Editorial Board for *Environmental Toxicology and Chemistry* and the Editorial Review Board for *Freshwater Mollusk Biology and Conservation*. (USFWS, PO Box 33726, Raleigh, NC 27636-3726, 919-856-4520 x.21; tom_augspurger@fws.gov)



Elena Craft, PhD (G'06) is a Senior Health Scientist at Environmental Defense Fund in the Office of Chief Scientist. Dr. Craft's background is in molecular toxicology; she holds a B.S. degree in biology from the University of North Carolina in Chapel Hill, a M.S. degree in toxicology from NC State University, and a Ph.D. from Duke University. She also holds an adjunct assistant professorship at the University of Texas Health Sciences Center, in the Division of Epidemiology, Human Genetics, & Environmental Sciences. Her research experience includes work at both the US EPA and the National Institute of Environmental Health Sciences, where she studied the health effects resulting from exposure to environmental pollutants such as PCBs, dioxins, and metals. For almost a decade, she has worked to identify, monitor, and mitigate risk from

environmental pollution in highly industrial areas, most specifically around port areas, petrochemical facilities, natural gas drilling areas, and freight corridors. In the course of her work, Dr. Craft has served to reduce air pollution in a variety of capacities to advise local, regional, and national planning organizations and agencies on a diverse set of environmental and environmental justice issues. Dr. Craft recently served as a member of EPA's port's workgroup, a subcommittee of the Clean Air Act Advisory Committee, to advise the agency on strategies to reduce emissions at port facilities. She is also a member of the Air, Climate, and Energy Subcommittee of EPA's Board of Scientific Counselors. Dr. Craft has participated in research endeavors regarding examination of health disparities associated with living in areas where the concentrations of certain pollutants exceed national as well as state-adopted health-based screening guidelines. She has testified at national hearings, given lectures at universities, and has been interviewed by local, national, and international media on environmental issues, presenting scientific information from a health-based perspective. She is also a member of the Society of Toxicology and Society of Environmental Toxicology and Chemistry and has authored several peer-reviewed papers. **Dr. Craft was the 2002 recipient of the SRP Karen Wetterhahn Memorial Award.*



Yuxia Cui, PhD (G'07) is a contract scientific program analyst in the Exposure, Response, and Technology Branch at the National Institute of Environmental Health Sciences (NIEHS). Dr. Cui supports the research portfolio of NIEHS-funded programs on exposure science and the exposome, with particular emphasis on the development of novel technologies and innovative approaches for improved exposure and response assessment, including sensor technologies, omics-based approaches as well as computational and informatics-based methodologies. Dr. Cui serves as a science officer for the laboratory network of the NIEHS Children's Health Exposure Analysis Resources (CHEAR), a program that promotes the inclusion of environmental exposures in children's health research. She is also actively involved in the coordination of NIEHS exposure science efforts with other NIH ICs and federal agencies and is a member of the Exposure Science in 21st Century Federal Working Group, a cross-government effort to promote federal collaboration in the development of exposure science.

Before joining the extramural program at NIEHS, Dr. Cui conducted postdoctoral research in the intramural division of NIEHS focusing on the genetic and epigenetic mechanisms in DNA damage response to therapeutic drugs and radiation, applying both bioinformatics and molecular biology approaches. Dr. Cui received her PhD in Environmental Toxicology from Duke University in 2007, and MS and BS in Environmental Biology from Nanjing University, Nanjing, China.



Dana C. Dolinoy, PhD, MSc (G'07, T'98) serves as Associate Professor of Environmental Health Sciences and Nutritional Sciences at the University of Michigan School Of Public Health (UM SPH) and leads the Environmental Epigenetics and Nutrition Laboratory, which investigates how nutritional and environmental factors interact with epigenetic gene regulation to shape health and disease. Dr. Dolinoy holds a PhD in Genetics and Genomics and Integrated Toxicology from Duke University, and MSc in Public Health from Harvard University, and serves on the Editorial Board for the Journal of Nutritional Biochemistry as well as Epigenetics, Environmental Health Perspectives, and Toxicological Sciences, and served as Chair of the 2015 Gordon Research Conference (GRC) in Cellular & Molecular Mechanisms of Toxicity. She has been an invited speaker at numerous national and international meetings and authored more than 75 peer reviewed scientific manuscripts and book chapters.

In 2011, Dr. Dolinoy received the Norman Kretchmer Memorial Award from the American Society for Nutrition and the Classic Paper of the Year Award from Environmental Health Perspectives. In 2012, she was the recipient of the Association of Schools of Public Health (ASPH)/Pfizer Research Award for the article, "An Expression Microarray Approach for the Identification of Metastable Epialleles in the Mouse Genome." This work was cited as a model approach that may allow for directly assessing the role of early environmental exposures in human adult disease. Dolinoy recently received the 2015 NIH Director's Transformative Award to develop novel epigenetic editing tools to reduce disease risk and will serve as the Chair of the 2016 meeting, ToxicoEpigenetics: The Interface of Epigenetics and Risk Assessment.



Michelle R. Embry, G'04, T'98 received her PhD in toxicology in 2004 and BS in Biology and Environmental Science and Policy in 1998 from Duke University. She is currently the Associate Director of Environmental Science at the Health and Environmental Sciences Institute (HESI), where she provides leadership, technical direction, and guidance to varied, multi-stakeholder, collaborative committees on topics related to risk assessment and environmental protection worldwide. Prior to joining HESI in 2006 she was an ecological risk assessor at the USEPA's Office of Pesticide Programs. She has expertise in both human health and ecotoxicology, with an emphasis on integrated approaches and alternative methods.

Her current project portfolio includes the HESI Bioaccumulation Technical Committee, which was formed in 2005 and is aimed at developing the tools needed to assess the potential bioaccumulation of organic chemicals. The committee has held 8 international workshops on bioaccumulation science, covering modeling approaches, in vitro methodologies, in vivo methods and refinements, and terrestrial bioaccumulation, and has published over 25 papers in the field. Dr. Embry has regularly presented the work of this committee at international conferences, has co-authored numerous papers in the field, and has been called-on as an expert by several organizations to provide input and guidance related to bioaccumulation assessment.

Dr. Embry also leads several projects related to the development of animal alternatives in environmental risk assessment, and is a partner on the recently-funded CEFIC Eco34 project. Her work also includes the Risk Assessment in the 21st Century (RISK21) Technical Committee, which developed a scientific, transparent, and efficient approach for human health risk assessment, including a web-based tool that has led to outreach and training activities on risk assessment approaches worldwide.

Dr. Embry is an elected member of the SETAC North America Board of Directors (2014-present), chair of the SETAC Global Partners Advisory Committee, and a member of the SETAC Bioaccumulation and Animal Alternatives Advisory Group Steering Teams. She is a full member of the Society of Toxicology and a member of the Risk Assessment and Mixtures Specialty Sections. She was a member of the ECETOC Task Force on Information to be Considered in a Weight-of-Evidence-Based PBT/vPvB Assessment of Chemicals (Annex XIII of REACH) in 2013 – 2014. She is a steering team member of the SETAC Adverse Outcome Pathway (AOP) Pellston Workshop (Spring 2017).



Ellen Mihaich, PhD (G'89, MSc'86) is currently the owner and principal scientist of Environmental and Regulatory Resources, LLC, specializing in environmental toxicology, risk assessment, and regulatory services. She is an Adjunct Professor at Duke University, where she teaches a graduate level course in risk assessment, and is also a Diplomate of the American Board of Toxicology. Dr. Mihaich received a B.A. from Wellesley College and M.S. and Ph.D. degrees from the Integrated Toxicology Program in the School of Forestry and Environmental Studies at Duke University. She was formerly Manager of Environmental Toxicology at Rhodia, Inc., a Senior Environmental Toxicologist at Rhône-Poulenc, and served as a domestic and international consultant on environmental toxicology at both companies. Her responsibilities included management of environmental toxicology-based issues and environmental toxicology programs for chemical enterprises, monitoring and evaluating general and specialty laboratory and field environmental toxicology studies, plant site and chemical-use risk assessment, and interaction with international industry groups and

regulatory agencies. Dr. Mihaich served as President of the Society of Environmental Toxicology and Chemistry (SETAC) and was on the Board of Directors for SETAC North America and the World Council. She has been a member and chairperson on the Scientific Advisory Board of the Strategic Environmental Research and Development Program (SERDP) of the Department of Defense, served on the EPA Ecological Processes and Effects Committee, ICCVAM peer review panels on endocrine disruptor assays, and is a Business and Industry Advisory Committee (BIAC) representative to the OECD Endocrine Disruptor Testing and Assessment Validation Management Group for Ecotoxicity Testing. Dr. Mihaich has authored or coauthored more than 40 publications in peer-reviewed journals or government publications.



Ashley Parks, PhD (G'13) is a Scientist in the Toxicology Department at Southern California Coastal Water Research Project. Her current focus is on developing an indirect effects sediment quality objective assessment based on bioaccumulation modeling. Prior to joining SCCWRP in July 2016, Ashley completed a three year NRC Postdoctoral Fellowship at the U.S. EPA laboratory in Narragansett, RI where her research focused on the environmental fate and toxicity of nano-copper pressure treated lumber in aqueous environments. Ashley graduated from Duke University's Nicholas School of the Environment and completed the ITEHP certificate program in May 2013. Her graduate work investigated the contaminant interactions and biological effects of single-walled carbon nanotubes in a benthic estuarine system. In her free time Ashley enjoys spending time outdoors with her husband and 11 year old black lab.



Alicia Timme-Laragy, PhD (G'07) is an Assistant Professor of Environmental Health Sciences in the School of Public Health and Health Sciences at the University of Massachusetts Amherst (UMASS). She also holds faculty positions in the Models to Medicine program in the Institute for Applied Life Sciences, the Molecular Cell Biology graduate program, and is an adjunct faculty member in the Biology Department at UMASS. She is also a Guest Investigator at the Woods Hole Oceanographic Institution. She received her Ph.D. in 2007 under the mentorship of Dr. Richard Di Giulio at Duke University's Nicholas School of the Environment through the Integrated Toxicology and Environmental Health Program. Her postdoctoral work was conducted at the Woods Hole Oceanographic Institution in the Biology Department with Dr. Mark Hahn. Both her graduate and postdoctoral work contributed to ongoing projects in the Superfund Research Program at Duke University and at Boston University. Her laboratory at UMASS (established in 2013) uses the zebrafish and cell culture models to study mechanisms of oxidative stress and antioxidant defenses during embryonic

development, with a focus on the pancreas. She is a member of the Society of Toxicology, the Society of Environmental Toxicology and Chemistry (SETAC), and the Society of Redox Biology and Medicine. She serves on the Board of Directors for the North Atlantic Chapter of SETAC, and the Scientific Advisory Board for the EPA National Estuary Program at Narragansett Bay. She lives in Belchertown, MA with her husband and three children. **Dr. Timme-Laragy was the 2006 recipient of the Karen Wetterhahn Memorial Award.*



Dr. David C. Volz, G'06 received a PhD from Duke University's Nicholas School of the Environment with a Certificate in Toxicology from Duke's Integrated Toxicology and Environmental Health Program. Following completion of his PhD, Dr. Volz spent three years as a Toxicologist within the Product Safety/R&D division of Syngenta – a Switzerland-based global seeds and agrochemical company – where, among other responsibilities, he led multidisciplinary project teams that supported early- and late-stage product development, regulatory issues, and new business opportunities. In August 2009, Dr. Volz returned to academia as a tenure-track Assistant Professor of Environmental Health Sciences within the Arnold School of Public Health at the University of South Carolina, Columbia. In July 2015, he relocated to the University of California, Riverside as a tenure-track Assistant Professor (Step V) of Environmental Toxicology within the Department of Environmental Sciences. Using zebrafish as a model, Dr. Volz' long-term research goal is to identify xenobiotic-mediated

pathways that contribute to adverse outcomes during early vertebrate development, particularly for understudied high-production volume chemicals. He has authored or co-authored 36 peer-reviewed papers, one book chapter, and presented at numerous national and international meetings on topics ranging from toxicology, high-content screening, molecular biology, chemicals policy, and animal alternatives. Since 2009, Dr. Volz has been actively involved in global, cross-sector efforts to promote development of tiered strategies for regulatory toxicity testing, and has participated in several related expert workshops sponsored by the Society of Environmental Toxicology and Chemistry (SETAC) and ILSI Health and Environmental Sciences Institute (HESI). In addition, Dr. Volz is an Associate Editor for *Chemosphere* and serves on the Editorial Advisory Board of *Environmental Science & Technology Letters*, *Neurotoxicology and Teratology*, and *Environmental Toxicology and Chemistry*. Dr. Volz' teaching interests are focused on environmental health, toxicology, and chemical risk assessment, and he has also taught international workshops on risk assessment for industry, government, and academia.



Dr. David Watson, PhD, MBA (G'94) conducted doctoral research with Dr. Richard Di Giulio at Duke University, where he studied the interplay between xenobiotic metabolism and DNA damage. His post-doctoral research with Dr. Ken Tindall at NIEHS focused on DNA mutation spectra and their use in understanding the role of DNA mismatch repair and base excision repair deficiencies in promoting genomic instability of human cancers.

Dave joined Eli Lilly in 1999 to lead the Molecular Toxicology Laboratory, and to serve as toxicologist on drug development teams. Dave's laboratory introduced drug target risk assessments to Lilly's Early Safety Assessment, developed blood-based biomarkers of organ toxicity, and implemented analytics applications that predict drug toxicities. This body of work is described in 25 peer-reviewed publications.

Dave has also served as toxicologist for drug development teams, including the team that developed the HCV protease inhibitor Telaprevir, the first oral agent for the treatment of Hepatitis C. He has supported a number of drug development teams for treatment of Type 2 diabetes, and is currently supporting the development of immune-stimulatory agents as anti-cancer therapies. In 2013, Dave earned an MBA at MIT.



Dr. Lauren Wills, PhD (G'08) is an Assistant Professor of Biology and Environmental Science at Charleston Southern University. She completed her undergraduate degree in Biology as a Meyerhoff Scholar at the University of Maryland Baltimore County. She went on to complete her doctoral studies in the Nicholas School of the Environment at Duke University. After graduation, Dr. Wills earned a Ruth L. Kirschstein Individual National Research Service Award Postdoctoral Fellowship and accepted a postdoctoral position at the Medical University of South Carolina. She worked for three years as a research specialist for MitoHealth Inc. prior to accepting a faculty position at Charleston Southern. Her current research focuses on examining the effect of environmental toxins and pharmaceuticals on mitochondrial health and function. Dr. Wills lives in Charleston, SC with her husband David and their two children, Anita (4) and Anthony (1).