



**Personal Environmental Exposure Measurements:  
Making Sense and Making Use of Emerging Capabilities – A Workshop**  
November 16-17, 2016

**Brief Biographies of Speakers, Panelists, Moderators, and Workshop Organizers**

**Linda S. Birnbaum**<sup>◊</sup> is the Director of the National Institute of Environmental Health Sciences (NIEHS) of the National Institutes of Health (NIH), and the National Toxicology Program (NTP). A board certified toxicologist, she has served as a federal scientist for over 37 years. Dr. Birnbaum is a former president of the Society of Toxicology, the largest professional organization of toxicologists in the world. She is the author of more than 800 peer-reviewed publications, book chapters, and reports, and is an adjunct professor at several universities, including Duke University and University of North Carolina. A native of New Jersey, Dr. Birnbaum received her M.S. and Ph.D. in microbiology from the University of Illinois at Urbana-Champaign. She is married and has three children.

**Ann Bostrom** is the Weyerhaeuser Endowed Professor in Environmental Policy at the Daniel J. Evans School of Public Policy and Governance of the University of Washington, Seattle. Dr. Bostrom previously served on the faculty at the Georgia Institute of Technology from 1992-2007, where she served as associate dean for research at the Ivan Allen College of Liberal Arts and professor in the School of Public Policy. She co-directed the Decision Risk and Management Science Program at the National Science Foundation from 1999-2001. Her research focuses on risk perception, communication, and management, and on environmental policy and decision-making under uncertainty. Dr. Bostrom serves as an associate editor for the Journal of Risk Research and is on the editorial boards of Risk Analysis and of Environmental Hazards. She is an elected fellow of the American Association for the Advancement of Science and current chair of its Section K (Social, Political and Economic Sciences), and is past president and an elected fellow of the Society for Risk Analysis. She has served on numerous science advisory boards, including the National Oceanic and Atmospheric Administration (NOAA) Science Advisory Board Environmental Information Services Working Group (EISWG) and several Academies committees, most recently the Committee on the Science of Science Communication: A Research Agenda, and the Committee to Review the EPA IRIS Process. She is currently co-chairing (with Bill Hooke) the NAS Committee on Advancing Social and Behavioral Science Research and Application within the Weather Enterprise. Dr. Bostrom received a Ph.D. in public

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policy analysis from Carnegie Mellon University, an M.B.A. from Western Washington University, and a B.A. from the University of Washington.

**Peter Briss** has been with CDC for 26 years performing cross-disciplinary research and service addressing topics ranging from health care to community prevention including lead poisoning, vaccine preventable disease, tobacco, cancer, heart disease, and oral health. He is trained in internal medicine, preventive medicine, epidemiology, and public health; and is an active clinician. He has authored more than 90 professional publications including the Guide to Community Preventive Services, helped to launch HHS' Million Hearts initiative, and has served on many expert groups and committees including the board of directors of the National Quality Forum.

**Phil Brown** is University Distinguished Professor of Sociology and Health Science at Northeastern University, where he directs the Social Science Environmental Health Research Institute. He is the author of *No Safe Place: Toxic Waste, Leukemia, and Community Action*, and *Toxic Exposures: Contested Illnesses and the Environmental Health Movement*, and co-editor of *Social Movements in Health*, and *Contested Illnesses: Citizens, Science and Health Social Movements*. He studies biomonitoring and household exposure, social policy concerning flame retardants and perfluorinated compounds, reporting back personal exposure data to participants, and health social movements. He directs an NIEHS T-32 training program, "Transdisciplinary Training at the Intersection of Environmental Health and Social Science." He heads the Community Outreach and Translation Core of Northeastern's Children's Environmental Health Center (Center for Research on Early Childhood Exposure and Development in Puerto Rico/CRECE) and both the Research Translation Core and Community Engagement Core of Northeastern's Superfund Research Program (Puerto Rico Testsite to Explore Contamination Threats (PROTECT)).

**David Ewing Duncan**<sup>‡</sup> is an award-winning, best-selling author of nine books published in 21 languages. David is CEO and Curator of Arc Fusion, and a Health Strategist-in-Residence for IDEO. He is a columnist for the Daily Beast and the chief correspondent for NPR Talk's *Biotech Nation*. David writes for *The New York Times*, *Atlantic*, *Fortune*, *National Geographic*, *Outside* and many others. He is a former Contributing Editor to *Wired*, *Discover*, *Technology Review*, and *Conde Nast Portfolio*. He was a

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The logo features a network of interconnected nodes in yellow, green, and blue on a blue background, transitioning into a green and blue gradient bar.

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November 16-17, 2016

commentator and special correspondent for NPR's Morning Edition, and a special correspondent and producer for ABC's *Nightline* and *20/20*; and a former correspondent for NOVA's *ScienceNow!* His books include *When I'm 164: The new science of radical life extension, and what happens if it succeeds* (Ted books) and *Experimental Man: What One Man's Body Reveals about His Future, Your Health, and Our Toxic World* (Wiley). He is the founding director of the Center of Life Science Policy at UC Berkeley, and won the AAAS Magazine Story of the Year, among numerous other awards.

**Kevin C. Elliott**<sup>\*</sup>, PhD, is an Associate Professor at Michigan State University with joint appointments in Lyman Briggs College, the Department of Fisheries and Wildlife, and the Department of Philosophy. He received his PhD in History and Philosophy of Science from the University of Notre Dame. His research lies at the intersection of the philosophy of science and practical ethics, with an emphasis on critically examining the ways in which ethical and social values influence science and technology. Much of his work has focused on policy-relevant areas of research on environmental pollution, such as endocrine disruption, nanotoxicology, multiple chemical sensitivity, and hormesis. He has authored more than 50 articles and book chapters and has published two books with Oxford University Press: *Is a Little Pollution Good for You? Incorporating Societal Values in Environmental Research* (2011) and *A Tapestry of Values: An Introduction to Values in Science* (2017).

**Symma Finn**, Ph.D., received her Ph.D. in medical anthropology from the University of Florida (UF) in 2008 for her work on quantifying empowerment in a rare genetic disease community. She has a M.A. from the University of Miami in environmental anthropology for her work on the anthropological aspects of ecosystem management, and an undergraduate degree in communications from Adelphi University. Symma has conducted research on physician-nurse-patient communication and shared decision making as a postdoctoral fellow at UF, and has served as director of research and grants for the Alpha-1 Foundation, a rare genetic disease organization. She joined the NIEHS Division of Extramural Research and Training in December 2011 after concluding an American Association for the Advancement of Science (AAAS) Policy Fellowship in the NIH Office of Science Policy/Office of Biotechnology Activities. Symma administers social and behavioral research and develops new areas of interest in communications and environmental health literacy. She oversees communications, dissemination and implementation, and community resilience activities for the NIEHS-NIMHD-

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EPA funded Centers of Excellence for Environmental Health Disparities Research and for the Breast Cancer and the Environment Research Program. She oversees the Research to Action program that focuses on the active involvement of affected communities in the research, and is involved in the Partnerships for Environmental Public Health, and in other programs that deal with bioethics, environmental justice, citizen science, climate change, and communications.

**Baruch Fischhoff** is Howard Heinz University Professor, Department of Engineering and Public Policy and the Institute for Politics and Strategy, Carnegie Mellon University. A graduate of the Detroit Public Schools, he holds a BS (mathematics, psychology) from Wayne State University and a PhD (psychology) from the Hebrew University of Jerusalem. He is a member of the National Academy of Medicine and has served on many NAS/NRC/IOM committees. He is past President of the Society for Judgment and Decision Making and of the Society for Risk Analysis. He chaired the Food and Drug Administration Risk Communication Advisory Committee and has been a member of the Eugene Commission on the Rights of Women, the Department of Homeland Security Science and Technology Advisory Committee and the Environmental Protection Agency Scientific Advisory Board, where he chaired the Homeland Security Advisory Committee. His books include *Acceptable Risk, Risk: A Very Short Introduction, Judgment and Decision Making, A Two-State Solution in the Middle East, Counting Civilian Casualties, and Communicating Risks and Benefits*. He co-chaired two National Academy Sackler Colloquia on the Science of Science Communication, with associated special issues of the Proceedings of the National Academy of Sciences. A recent review is Fischhoff, B. (2015). The realities of riskcost-benefit analysis. *Science*, 350(6260), 527.

**Michael Heimbinder** - Founder & Executive Director of HabitatMap - is a community organizer, educator, and information designer. HabitatMap is a non-profit environmental health justice organization whose goal is to raise awareness about the impact the environment has on human health. HabitatMap primarily works with low-income communities in New York City that are negatively impacted by the inequitable geographic distribution of environmental benefits and burdens. HabitatMap's online mapping and social networking platforms, HabitatMap.org and AirCasting.org, are designed to maximize the impact of community voices on city planning and strengthen ties between organizations and activists working to build greener, more livable cities. Since launching HabitatMap in 2006, Michael has worked with dozens of community-

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based organizations and schools to create planning and advocacy maps that publicize the issues they care about most. In addition to running HabitatMap, Michael is Board Chair at Newtown Creek Alliance, where he has made community knowledge sharing a keystone of the organization's successful efforts to clean up the Creek and improve quality of life in the surrounding neighborhoods.

**Miranda Loh** is a Senior Scientist working in the Center for Human Exposure Science of the Research Division at the Institute of Occupational Medicine. Her work involves multi-media exposure assessment measurement and modeling methods for environmental health studies. She also has experience in residential and biomarker exposure measurements for arsenic and metals and in measuring and modeling personal exposures for volatile organic compounds and particulate matter. She is developing a multi-stressor indoor and personal exposure assessment system, based on sensor technology, that can be used in exposome studies to measure exposures in both children and adults as part of the Health and Environment-wide Associations based on Large Population Surveys (HEALS) study, funded by the European Union. She is the Principal Investigator for the Air pollution impacts on cardiopulmonary disease in Beijing: An integrated study of exposure science, toxicogenomics & environmental epidemiology (APIC-ESTEE) funded by the British Natural Environment Research Council, the Medical Research Council, and China's National Natural Science Foundation. Previously, while at the University of Arizona, Miranda led the Metals Exposure Study in Homes (MESH), funded by the National Institute of Environmental Health Science which investigated exposures of children living near a hazardous waste site in a former mining community. Miranda has also worked at the Finnish National Institute for Health and Welfare (THL) and completed her Sc.D. at the Harvard School of Public Health.

**Andrew Maynard**<sup>‡</sup> is a Professor in the School for the Future of Innovation in Society at Arizona State University, and Director of the Risk Innovation Lab - a unique center focused on transforming how we think about and act on risk, in the pursuit of increasing and maintaining "value". He was previously Chair of the Environmental Health Sciences department: in the University of Michigan School of Public Health. Maynard's research and professional activities focus on risk innovation, and the responsible development and use of emerging technologies, including nanotechnology and synthetic biology. He is widely published, has testified before congressional committees, has served on Academies panels, and is

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co-chair of the World Economic Forum Global Agenda Council on Nanotechnology. He also writes a regular column for the journal; Nature Nanotechnology, and the news website, The Conversation. Courses taught by Maynard have included risk assessment, risk innovation, science communication, environmental health policy, and entrepreneurial ethics. He also lectures widely on technology innovation and responsible development. Maynard is a well-known science communicator, and works closely with and through conventional and new media to connect with audiences around the world on technology innovation, risk and science.

**Marian McCord** Ph.D. is a Professor and Associate Dean for Research in the College of Natural Resources at NC State University. Dr. McCord was the Director of Global Health Initiatives in the Office of International Affairs at NCSU between 2010 and 2015. She has 20 years experience in development and characterization of protective and medical textiles, and has been active in consulting for the medical device industry. Dr. McCord sees her research field as "textiles as interventions" - i.e., textiles that prevent or treat disease, or improve human health and well-being. Some of her global health related projects include non-chemical insecticidal bed nets, clothing that protects from insect vectors, toxic chemicals, and biological pathogens, and low cost hemostatic bandages. Dr. McCord was the co-Director of the Atmospheric Plasma Laboratory at the College of Textiles at NCSU for 15 years, and is a co-founder of Katharos, Inc., a company that aims to provide phosphate filtration solutions for end-stage renal disease patients.

**Gary W. Miller**<sup>\*\*</sup> completed his doctoral training in Pharmacology and Toxicology and postdoctoral training in Molecular Neuroscience. His research has focused on environmental factors involved in the development of neurodegenerative conditions, such as Parkinson's disease. His laboratory works at the interface of neuroscience and toxicology, using a wide variety of experimental techniques. Dr. Miller is Director of the Emory HERCULES Exposome Research Center, an NIEHS-funded center focused on the exposome, the environmental analogue to the genome. He also serves as Director of Emory's NIEHS-funded T32 Training Grant in Environmental Health Sciences and Toxicology. Dr. Miller is a Georgia Research Alliance Distinguished Investigator and received the Achievement Award from the Society of Toxicology. He currently serves as Editor-in-Chief of Toxicological Sciences, the official journal of the Society of Toxicology.

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**Dawn Nafus** is a Senior Research Scientist at Intel, where she applies anthropological research to new technology development. Her current work focuses on data literacy, consumer health tracking technologies, and the social implications of datafication. She is the editor of [Quantified: Biosensing Technologies in Everyday Life](#) and coauthor of [Self-Tracking](#) (both MIT Press, 2016). Her current project is [Data Sense](#), a tool for non-professionals to explore data. She holds a PhD from University of Cambridge.

**Jennifer Orme-Zavaleta** holds a PhD from Oregon State University and is an internationally recognised expert in chemical risk assessment and water quality research and regulation. She has worked for the U.S. Environmental Protection Agency (EPA) since 1981 in a variety of roles at the Office of Water; the Office of Toxic Substances; and the Office of Research and Development. She has earned numerous EPA awards, including a Gold Medal for Exceptional Service in 1996. As director of the EPA's National Exposure Research Laboratory, she is currently supporting the EPA's mission to protect human health and the environment by promoting research to improve methods, measurements, models and systems approaches to predict, reduce and prevent exposure to harmful environmental stressors. She joined the REC's Board of Directors in 2016.

**Melissa Perry**<sup>‡</sup>, ScD, MHS, is Professor and Chair of the Department of Environmental and Occupational Health in the Milken Institute School of Public Health at the George Washington University (GWU). Before joining GWU, she spent 13 years on the Harvard School of Public Health's Department of Environmental Health faculty. As an environmental and occupational epidemiologist, Dr. Perry's research focuses on the the health impacts of environmental chemicals with particular focus on reproduction, and on the prevention of occupational injuries and disease. Her lab at GW examines environmental impacts on sperm and male fertility. She is the Chair of the Board of Scientific Counselors for the National Center for Environmental Health/Agency for Toxic Substances and Disease Registry of the Centers for Disease Control and Prevention; a Fellow of the Collegium Ramazzini; and a member of the Technical Advisory Board for the Center for Construction Research and Training (CPWR). She has served as President of the American College of Epidemiology and as a standing member of the National Institute for Occupational Safety and Health study section. She served as an associate editor of the journal *Reproductive Toxicology* and is an editorial board member of *Environmental Health*. She received her BA from the University of Vermont, and her MHS and ScD from The Johns Hopkins University School of Hygiene and Public Health.

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**Amy Pruden** is the W. Thomas Rice Professor of Civil & Environmental Engineering at Virginia Tech in Blacksburg, VA USA. Her primary expertise is on tracking pathogens and antibiotic resistance genes through environmental systems and developing engineering control strategies for protecting public health. Her broad research mission is to advance the sustainability and health of our water systems through fundamental understanding of microbial ecology. Her work spans applications from agriculture, watersheds, and the built environment, where she has focused recent work on understanding factors that contribute to the growth of *Legionella* and other opportunistic pathogens in building plumbing. Dr. Pruden received the Presidential Early Career Award in Science and Engineering in 2007 and the Paul L. Busch Award in 2014. Her 2014 article “*Balancing Water Sustainability and Public Health Goals in the Face of Growing Concerns about Antibiotic Resistance,*” was recognized as the Editor’s Choice Best Feature Article in *Environmental Science and Technology*. Dr. Pruden currently serves on the American Society for Microbiology Antimicrobial Resistance Coalition Steering Committee. Her research has been funded by the National Science Foundation, Water Research Foundation, Water Environment Research Foundation, the U.S. Department of Agriculture, and The Alfred P. Sloan Foundation.

**Edmund Seto** is an Associate Professor in the Department of Environmental and Occupational Health Sciences at the University of Washington in Seattle. Dr. Seto's research involves the development of novel exposure science methods and tools that have broad applicability in environmental epidemiologic studies. His work includes the development of personal exposure assessment approaches, such as those that utilize data-intensive models, GIS, smartphone, or next-generation environmental monitoring. Much of his current work involves community-engaged research to utilize low-cost sensors to provide real-time monitoring of environmental hazards, as well as the development of small inexpensive wearable exposure monitors. He has published in a variety of areas, including studies of exposures to infectious agents, air pollution, noise, and different built environments. Prior to joining UW, he was a professor at the University of California, Berkeley, and was Faculty Director of the health group within the UC's Center for Information Technology Research in the Interest of Society (CITRIS). He received a PhD and MS in Environmental Health Sciences and AB in Computer Science from UC Berkeley.

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**Michael Snyder** is the Stanford Ascherman Professor and Chair of Genetics and the Director of the Center of Genomics and Personalized Medicine. Dr. Snyder received his Ph.D. training at the California Institute of Technology and carried out postdoctoral training at Stanford University. He is a leader in the field of functional genomics and proteomics, and one of the major participants of the ENCODE project. His laboratory study was the first to perform a large-scale functional genomics project in any organism, and has developed many technologies in genomics and proteomics. These including the development of proteome chips, high resolution tiling arrays for the entire human genome, methods for global mapping of transcription factor binding sites (ChIP-chip now replaced by ChIP-seq), paired end sequencing for mapping of structural variation in eukaryotes, de novo genome sequencing of genomes using high throughput technologies and RNA-Seq. These technologies have been used for characterizing genomes, proteomes and regulatory networks. Seminal findings from the Snyder laboratory include the discovery that much more of the human genome is transcribed and contains regulatory information than was previously appreciated, and a high diversity of transcription factor binding occurs both between and within species. He has also combined different state-of-the-art “omics” technologies to perform the first longitudinal detailed integrative personal omics profile (iPOP) of person and used this to assess disease risk and monitor disease states for personalized medicine. He is a cofounder of several biotechnology companies, including Protometrix (now part of Life Technologies), Affomix (now part of Illumina), Excelix, and Personalis, and he presently serves on the board of a number of companies.

**Lindsay Stanek<sup>‡</sup>** is an expert in air pollution, specifically particulate matter (PM), ozone, nitrogen oxides, sulfur oxides, and lead. Her primary expertise is with animal toxicology and is founded in her doctoral research that focused on the cardiovascular and pulmonary effects in rodents exposed to PM. Through subsequent assessment work at the Office of Research and Development’s (ORD) National Center for Environmental Assessment (NCEA) and research oversight role at the National Exposure Laboratory (NERL), she has developed cross-disciplinary knowledge that enables integration of scientific evidence, from atmospheric sciences to exposure to health effects. Her expertise has led to her current supervisory role within ORD where her duties include research planning and implementation; advising senior leadership on research directions and operational procedures; and representing and communicating research products to internal and external stakeholders.

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**Kimberly Thigpen Tart**<sup>o‡</sup> is a Program Analyst in the Office of Policy, Planning, and Evaluation at the National Institute of Environmental Health Sciences (NIEHS), which supports the NIEHS Director and Leadership in describing and interpreting programs and research of the Institute to Congress scientific and public health communities, and the public. She previously served as News Editor of the institutes *Health Perspectives*, for 15 years. Her current focus areas include issues of climate change and human health, global environmental health, children's environmental health, prevention research, and research policy and translation. She represents NIEHS to the NIH Prevention Research Coordinating Committee, the Healthy People 2020 Law and Health Policy Workgroup, the U.S. Global Change Research Program's Climate Change and Human Health Working Group, and the Steering Committee of the President's Task Force on Environmental Health Risks and Safety Risks to Children. She serves on the Steering Committee of the NJ EHS-WHO Environmental Health Collaborating Centre and the working group of the Institute's Global Environmental Health program. She also represents NIEHS to the Triangle Global Health Consortium and the Research Triangle Environmental Health Collaborative. She received a B.A. with Honors (journalism) and a J.D. (law) from the University of North Carolina at Chapel Hill, and an M.P.H. from the Gillings School of Global Public Health at UNC with a focus on global health and policy.

**Gabrielle Wong-Parodi** is an assistant research professor with the Department of Engineering and Public Policy. Dr. Wong-Parodi's research includes using behavioral science approaches to create evidence-based strategies for informed decision making, with a particular focus on building resilience and promoting sustainability in the face of a changing climate. She has published papers on a variety of topics related to climate change, from risk perceptions of emerging technologies, such as smart grid technologies and unconventional shale gas development to risk communications on energy conservation programs.

**Sara Yeo**<sup>‡</sup> is an Assistant Professor in the Department of Communication at the University of Utah and a faculty affiliate with the Global Change and Sustainability Center and the Environmental Humanities Program at the U. Her research interests include science communication, public opinion of STEM issues, and information seeking and processing. Her work has been published in journals such as *Public Understanding of Science*, *Risk Analysis*, *Energy Policy*, *Journalism and Mass Communication Quarterly*, and *Materials Today*. Originally from Malaysia, Dr. Yeo is trained as a bench and field scientist and holds a M.S. in Oceanography from the University of Hawaii at Manoa. Her training in ecology and the life sciences has been invaluable to her research at the intersection of science, media, and politics.

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