

**Invitation for Public Comment on the List of Candidates for the
EPA Science Advisory Board Chemical Assessment Advisory Committee
Augmented for the Ethylene Oxide Review**

April 2, 2014

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a *Federal Register* Notice (Volume 78, Number 167, Pages 53144-53146) published on August 28, 2013 that it was augmenting the Chemical Assessment Advisory Committee (CAAC) to review and provide independent expert advice, through the Chartered SAB, on EPA's draft *Evaluation of the Inhalation Carcinogenicity of Ethylene Oxide (July 2013 Draft)*. To augment the CAAC, the SAB Staff Office sought public nominations of recognized experts with demonstrated expertise and research in one or more of the following areas: epidemiology, biostatistics, exposure-response modeling, genotoxicity, cancer biology, and risk assessment.

Based on the qualifications and interest of the nominees, the SAB Staff Office identified 14 candidates to augment the CAAC for this review. The biosketches of these candidates and the 26 members of the CAAC are provided below.

The SAB Staff Office Director will make the final decision about who will serve on the Panel based on all relevant information. This includes a review of the confidential disclosure form (EPA Form 3110-48), relevant information gathered by staff, and public comments. For the EPA SAB Staff Office, a balanced Panel is characterized by inclusion of candidates who possess the necessary domains of knowledge, the relevant scientific perspectives (which, among other factors, can be influenced by work history and affiliation), and the collective breadth of experience to adequately address the general charge. Specific criteria to be used in evaluating a candidate include: a) scientific and/or technical expertise, knowledge, and experience; b) availability and willingness to serve; c) absence of financial conflicts of interest; d) absence of appearance of a lack of impartiality; e) skills working in advisory committees and panels; and, for the panel as a whole, f) diversity of scientific expertise and viewpoints.

We hereby invite comments from members of the public to provide relevant information or other documentation that the SAB Staff Office should consider in determining who should serve on the CAAC Augmented for the Ethylene Oxide Review Panel. Please be advised that comments received are subject to release under the Freedom of Information Act. Comments should be submitted to Mr. Aaron Yeow, Designated Federal Officer, no later than April 23, 2014. E-mailing comments (yeow.aaron@epa.gov) is the preferred mode of receipt.

Candidates to Augment the CAAC for the Ethylene Oxide Review

Clapp, Richard

Boston University

Dr. Richard Clapp has an MPH degree from Harvard School of Public Health and a doctoral degree from Boston University School of Public Health. He was the founding Director of the Massachusetts Cancer Registry in the Department of Public Health from 1980-1989. He joined the B.U. School of Public Health as a full-time Faculty member in the Department of Environmental Health in 1993, where he is now Professor Emeritus. He is also on the Adjunct Faculty at the U. of Massachusetts – Lowell. Dr. Clapp has served twice as a member of the EPA Science Advisory Board committee to review the dioxin reassessment, and was a member of a National Academies of Science committee and several other advisory committees to Federal and state agencies. He has published numerous peer-reviewed articles and book chapters, primarily on cancer epidemiology and prevention.

Dourson, Michael

Toxicology Excellence for Risk Assessment (TERA)

Dr. Dourson is the President of Toxicology Excellence for Risk Assessment (TERA), a non-profit group which develops partnerships among government, industry and other interested groups to address risk assessments of high visibility, such as formaldehyde, perchlorate, and soluble nickel, and cooperative ventures such as the Voluntary Children's Chemical Exposure Program (VCCEP), the International Toxicity Estimates for Risk (ITER), and the Alliance for Risk Assessment (ARA). Prior to TERA, Dr. Dourson worked 15 years for EPA, holding several leadership roles and winning 4 bronze medals for joint efforts on specific key projects, such as the creation of EPA's Integrated Risk Information System (IRIS). Dr. Dourson holds a B.A. in Biology from Wittenberg University, and a Ph.D. in Toxicology from the University of Cincinnati College of Medicine. In 2003, Dr. Dourson was selected for the Society of Toxicology's (SOT) Lehman award. Two of his publications have won paper-of-the-year awards from the SOT's Risk Assessment Specialty Section (RASS). He has co-published more than 100 additional papers on risk assessment methods or assessments for specific chemicals. He has also co-authored well over 100 government risk documents, made over 100 invited presentations, and chaired over 100 sessions at meetings and independent peer reviews. He has also been elected to multiple officer positions including President of the American Board of Toxicology, President of RASS of the SOT, and Secretary of the Society for Risk Analysis. He is also a media resource specialist in risk assessment for the SOT, member on the editorial board of three journals, and vice chair of the NSF International Health Advisory Board.

Ginsberg, Gary

Connecticut Department of Public Health

Dr. Ginsberg is a toxicologist at the Connecticut Department of Public Health within the Section of Environmental and Occupational Health Assessment. He has responsibility for human health risk assessments conducted in the state. Dr. Ginsberg serves as adjunct faculty at the Yale School of Public Health and is an Assistant Clinical Professor at the University of Connecticut School of Community Medicine. He served on the National Academy of Science Panels on Biomonitoring (produced Human Biomonitoring, NAP Press, 2007) and Improving USEPA risk methods (produced Science and Decisions, NAP Press, 2009). He is a member of US EPA's Science Advisory Board and has served on the Children's Health Protection Advisory Committee (CHPAC). Dr. Ginsberg is a recipient of a fellowship from the Oak Ridge Institute for Science and Education (ORISE) to collaborate with USEPA, NCEA on risk and susceptibility projects. Dr. Ginsberg received a Ph.D. in toxicology from the University of Connecticut and was a post-doctoral fellow in carcinogenesis/mutagenesis at the Coriell Institute for Medical Research. Dr. Ginsberg's toxicology experience has involved a variety of settings: basic research, teaching, working within the pesticide and consulting industries, and now working in public health. He has published in the areas of toxicology, carcinogenesis, physiologically-based pharmacokinetic modeling, inter-individual variability, genetic polymorphisms, and children's risk assessment. Dr. Ginsberg is also co-author of a book on toxics for the lay public, "What's Toxic, What's Not" Berkley Books, 2006.

Heeringa, Steven

University of Michigan

Dr. Steven G. Heeringa is a Research Scientist at the University of Michigan Institute for Social Research (ISR). He has a master's degree in statistics and a doctorate in biostatistics, both from the University of Michigan. He is a member of the Faculty of the University of Michigan Program in Survey Methods and the Joint Program in Survey Methodology and directs the Survey Research Center's Summer Institute in Survey Research Techniques. Steve is a former permanent member of the EPA FIFRA Scientific Advisory Panel (2003-2010) and Chair of that Panel from 2005-2010. He is a Fellow of the American Statistical Association and elected member of the International Statistical Institute. He is the author of many publications on statistical design and sampling methods for research in the fields of public health and the social sciences. He is the lead author of Applied Survey Data Analysis (Chapman & Hall, 2010), a comprehensive new text on methods for the statistical analysis of complex sample survey data. Steve has over 35 years of statistical sampling experience in the development of the SRC National Sample design, as well as research designs for ISR's major longitudinal and cross-sectional survey programs. Since 1985 Steve has collaborated extensively with scientific colleagues in the design and conduct of major studies in aging, psychiatric epidemiology and physical and mental health.

Infante, Peter

Peter F. Infante Consulting, LLC

Dr. Infante is currently the Managing Member of Peter F. Infante Consulting, LLC, an organization dedicated to research and analysis of occupational and environmental health issues. Between 2002 and 2011, he was Adjunct Professor, and Professorial Lecturer, of Environmental and Occupational Health at the George Washington University, School of Public Health, Washington, D.C. From 1983-2002, he was Director, Office of Standards Review, Health Standards Program, OSHA and from 1978-1983, he was Director, of the OSHA Office of Carcinogen Identification and Classification. During his 24 years in the OSHA Health Standards Program, he played a major role in determining cancer and other risks to workers during the development of standards for a number of toxic substances, including asbestos, arsenic, benzene, cadmium, ethylene oxide, formaldehyde, lead and MDA. Prior to working at OSHA, he was employed by the National Institute for Occupational Safety and Health (NIOSH) where he conducted epidemiological studies related to a number of carcinogens including, benzene, beryllium and vinyl chloride. He has served as an expert consultant in epidemiology: for the National Toxicology Program's (NTP) Report on Carcinogens (RoC); for Working Groups of the International Agency for Research on Cancer (IARC) that publish the IARC Monographs on the Evaluation of Carcinogenic Risks to Humans; as an expert for the World Trade Organization (WTO) in Geneva, Switzerland regarding the relative toxicity of chrysotile asbestos in relation to other forms of asbestos and asbestos substitutes for a case on whether the WTO should allow the European Community countries to ban the importation of chrysotile. He has testified before the U.S. Congress on numerous occasions about chemical pollution and the causes of cancer. He is a Fellow of the American College of Epidemiology and the Collegium Ramazzini. Dr. Infante received his D.D.S. degree from the Ohio State University, and his Dr.P.H. degree from the University of Michigan, School of Public Health, Department of Epidemiology.

Mirer, Franklin E.

Hunter College of The City University of New York

Dr. Franklin E. Mirer is a toxicologist and certified industrial hygienist. His primary scientific interest is exposure and risk assessment in the occupational environment, and regulatory policy. He also has studied particulate air pollution in the urban environment. Dr. Mirer has been Professor of Environmental and Occupational Health in City University of New York (CUNY) School of Public Health since 2006. He retired as Director of the UAW Health and Safety Department after 30 years of service. Dr. Mirer received a Ph.D. in organic chemistry from Harvard University in 1972, and trained further as a Research Fellow in Toxicology at the Harvard School of Public Health. Dr. Mirer most recently served on the CDC National Conversation on Chemical Exposures and Health Leadership Council and Scientific Understanding Work Group, the NAS Framework Committee to Review NIOSH Research Programs and Evaluation Committee for the NIOSH Health Hazard Evaluation Program; and IARC Working Groups for Monographs 101 and 89. Dr. Mirer developed and delivered testimony before OSHA regarding a dozen health and safety standards, and has testified before House and Senate Committees on occupational safety and health and regulatory policy matters. He has authored scientific papers on exposure assessment, risk assessment and epidemiology.

Parsons, Barbara

US FDA, National Center for Toxicological Research

Dr. Barbara Parsons has extensive experience (~33 years) and expertise applying molecular biology techniques to a variety of research areas. During her doctoral training she conducted research in animal virology. She conducted research in plant molecular biology and molecular toxicology during her post-doctoral training. Dr. Parsons began working at the National Center for Toxicological Research (NCTR) in 1994 and established a unique research program around the DNA-based quantification of specific hotspot oncogene and tumor suppressor gene point mutations (henceforth referred to as hotspot oncomutations). Her work advanced current understanding of chemical carcinogenesis, cancer risk assessment, and personalized cancer treatment. To accomplish this, Dr. Parsons developed and integrated new knowledge from several different research areas. 1) She developed the methodology (Allele-specific Competitive Blocker PCR, ACB-PCR) to quantify hotspot point mutations with high sensitivity. 2) Dr. Parsons showed measurement of tumor-associated mutations can provide an early indication of chemically-induced carcinogenic effect. 3) She demonstrated how measurements of oncomutations could improve cancer risk assessment, including the aspects of dose response assessment and mode of action (MOA) determination. 4) Dr. Parsons measured background levels of mutation in normal human and rodent tissues, providing valuable information for rodent to human extrapolation. 5) She obtained evidence that many tumors contain subpopulations of KRAS mutant cells and that the KRAS mutant fraction (MF) is inversely related to maximum tumor dimension. And, 6) Dr. Parsons discovered evidence of a mechanism by which oxidative stress in large/hypoxic tumors can result in a negative selection against KRAS mutant cells, thereby explaining their occurrence as tumor subpopulations. Dr. Parsons was able to integrate these unique experimental observations to derive a better understanding of the role of KRAS mutation in carcinogenesis and has communicated the significance of her findings for achieving efficacious personalization of cancer treatments. Dr. Parsons is an author on 49 peer-reviewed publications, including two invited book chapters, eight invited review articles, and an invited commentary for PNAS. She has given 24 invited presentations, including 11 invited presentations within the last seven years, presenting her work at both national and international meetings. She has served, or currently serves, in leadership roles in multiple scientific societies. She is the current Secretary of the Environmental Mutagenesis and Genomics Society. Dr. Parsons is internationally recognized for her work using measurements of oncomutation frequency to advance understanding of mechanisms of carcinogenesis, cancer risk assessment, and strategies to improve personalized cancer treatment. Consequently, she is sought out for collaboration and consultation by experts in these fields.

Plunkett, Laura

Integrative Biostrategies, LLC

Dr. Laura Plunkett is a pharmacologist, toxicologist, regulatory specialist and principal of a consulting company known as Integrative Biostrategies, LLC. Integrative Biostrategies, based in Houston, Texas, is a consulting firm that works at the interface of biological science, regulatory affairs and business decisions to provide its clients with science-based solutions to issues associated with product development and stewardship. She holds a B.S. in Pharmacology from the University of Georgia, and a Ph.D. in Pharmacology from the University of Georgia. Dr. Plunkett is board-certified as a Diplomate of the American Board of Toxicology, and a member of several professional organizations. She has authored or co-authored numerous scientific publications, has over twenty years of experience in the areas of pharmacology and toxicology, and has worked in both government and academic research. Dr. Plunkett taught pharmacology and toxicology at the undergraduate and postgraduate levels. From June 1984 through August 1986, she was a Pharmacology Research Associate Training (PRAT) fellow at the National Institute of General Medical Sciences, Bethesda, Maryland, and worked in a neurosciences laboratory of the National Institute of Mental Health. From September 1986 to June 1989, Dr. Plunkett was an Assistant Professor of Pharmacology and Toxicology in the medical school at the University of Arkansas for Medical Sciences, where she performed basic research in the areas of neuropharmacology and toxicology as well as cardiovascular pharmacology and toxicology. She taught courses for both medical students and graduate students in pharmacology and toxicology as well as the neurosciences. After moving from Arkansas to Washington, D.C., Dr. Plunkett worked for ENVIRON Corporation from 1989 through 1997, first in the Arlington, Virginia office and then in the Houston, Texas office. During her consulting career, Dr. Plunkett has worked on a variety of projects dealing with the toxicology and human health risk assessment of chemicals and products regulated by agencies such as the U.S. Environmental Protection Agency, the Consumer Products Safety Commission, the Occupational Safety and Health Administration, the U.S. Food and Drug Administration, and the U.S. Department of Agriculture. She has expertise in pharmacokinetics and toxicokinetics. A tool common to all of Dr. Plunkett's work as a consultant has been risk assessment. During her academic research career, she received funding from the American Heart Association and the National Institutes of Health. During her consulting career, Dr. Plunkett's work has been supported by contractual sources of funding, including the American Chemistry Council, industrial clients who manufacture pesticides and chemicals, and a variety of other companies such as food companies, pharmaceutical companies, and medical device companies.

Sandy, Martha S.

California Environmental Protection Agency

Dr. Martha S. Sandy is Chief of the Reproductive and Cancer Hazard Assessment Branch within the California Environmental Protection Agency's (Cal/EPA) Office of Environmental Health Hazard Assessment (OEHHA). Dr. Sandy's Branch is responsible for conducting hazard identification, dose-response assessment, and exposure assessment of chemicals that cause reproductive toxicity, developmental toxicity and cancer. The Branch is also the entity within OEHHA responsible for implementing the California Environmental Contaminant Biomonitoring Program, also known as Biomonitoring California, which is a collaborative effort involving the California Department of Public Health, OEHHA, and the Department of Toxic Substances Control. Dr. Sandy has a Ph.D. and an M.P.H. in Environmental Health Sciences, with an emphasis in Toxicology, from the University of California, Berkeley's School of Public Health. She conducted research investigating biochemical and molecular mechanisms of toxicity and carcinogenicity, and biochemical and genetic susceptibility factors in Parkinson's disease before joining OEHHA in 1994. Dr. Sandy currently serves on two U.S. EPA advisory committees: the Children's Health Protection Advisory Committee and the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Scientific Advisory Panel. She has served as an ad hoc member of two U.S. Environmental Protection Agency (U.S. EPA) Scientific Review panels, as a member of two National Academy committees, as a member of two Report on Carcinogens Expert panels, and as a peer reviewer for the National Research Council.

Sheppard, Elizabeth A. (Lianne)

University of Washington

Dr. Elizabeth A. (Lianne) Sheppard, PhD is professor of biostatistics and environmental and occupational health sciences at the University of Washington. She holds a B.A. in psychology and a Sc.M. in biostatistics from Johns Hopkins University, and a Ph.D. in biostatistics from University of Washington. Her research interests focus on understanding the health effects of environmental and occupational exposures with particular emphasis on statistical methods for environmental and occupational epidemiology. She actively collaborates on a variety of research projects in the environmental and occupational health sciences and leads the statistical analyses for the Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air) study, a 10-year study funded by EPA to determine the effect of long-term air pollution exposure on subclinical progression of cardiovascular disease. Dr. Sheppard directs a program for quantitative training in the environmental health sciences. She is a fellow of the American Statistical Association and a member of the editorial board for Epidemiology. She serves on the Health Effects Institute's Review Committee, the EPA Science Advisory Board ad hoc committee for Toxicological Review of Libby Amphibole Asbestos, and has served on Clean Air Scientific Advisory Committee Special Panels.

Simon, Ted

University of Georgia

Dr. Ted Simon is an adjunct professor in Environmental Health Sciences at the University of Georgia School of Public Health. He has a bachelor's degree in Biology from Middlebury College and a Ph.D. in Neurobiology and Behavior from Georgia State University. Prior to his current role as adjunct professor and consultant, Dr. Simon was employed by EPA at the Region 4 office in Atlanta. There he served as the senior toxicologist in the Waste Division and the IRIS consensus reviewer. Currently, he provided scientific support to both public and private sector entities and has commented extensively on recent IRIS assessments.

Thorne, Peter S.

University of Iowa

Dr. Peter S. Thorne is Professor of Toxicology and Head of the Department of Occupational and Environmental Health at the University of Iowa, College of Public Health. He holds a secondary appointment as Professor of Civil and Environmental Engineering. Dr. Thorne is Associate Director and co-founder of the Interdisciplinary Graduate Program in Human Toxicology. He received a BS in chemical engineering, MS in biomedical engineering and PhD in toxicology from the University of Wisconsin-Madison and completed post-doctoral training in immunotoxicology at the University of Pittsburgh. Since 2001 he has served as Director of the NIH-funded Environmental Health Sciences Research Center. Dr. Thorne directs a major community-based research project and the Inhalation Toxicology Core for the Iowa Superfund Research Program. He has been continuously funded by NIH for over two decades and runs a productive research laboratory engaging his students in studies of environmental risk factors for asthma, health effects of inhaled air pollutants, inflammatory lung diseases, endotoxin-induced immunomodulation, nanotoxicology and novel methodology for exposure assessment to airborne toxicants. Dr. Thorne has authored 200 peer-reviewed papers and book chapters. He teaches graduate level courses on environmental health and human toxicology and has mentored 75 MS, PhD and Postdoctoral trainees. Dr. Thorne has served on a wide variety of editorial and review boards for scientific journals, government agencies, and academia and regularly chairs grant reviews for NIH. From 2003 to 2006, he served on the NIH National Advisory Environmental Health Sciences Council. He is the recipient of the Thomas Bedford Memorial Prize from the British Occupational Hygiene Society, the John Doull Award from the Society of Toxicology (Central States Chapter) and was the 2003 Whitehead Memorial Lecturer at the Children's Hospital of Pittsburgh.

Zelterman, Daniel

Yale University

Dr. Zelterman completed his PhD in statistics in 1983. After serving on faculty positions at two other universities, he returned to Yale in 1995 as Professor of Biostatistics and to head the Biostatistics Core of the Yale Comprehensive Cancer Center. Dr. Zelterman has over 150 published works including five books on applied statistical methods. His methodological research is centered in applied statistics, specifically on the analysis of discrete-valued data. Dr. Zelterman's collaborative work is mostly in cancer: clinical trials, laboratory studies, and population studies. Of most relevance to the Ethylene Oxide review, he has a number of methods publications on assessing the risks associated with low-dose exposure to carcinogens. These studies include both in vivo as well as in utero risks, mostly for cancer outcomes but also for birth defects. Dr. Zelterman currently serves as Special Advisor to the US FDA on a committee that evaluates safety and efficacy for anesthetic drugs.

Zhu, Yiliang

University of South Florida

Dr. Yiliang Zhu is professor in the Department of Epidemiology and Biostatistics College of Public Health and Department of Internal Medicine College of Medicine at the University of South Florida. He directs the Center for Collaborative Research and the Biostatistics PhD program. He received a BSc from Shanghai University (of Science and Technology) in Computer Science and Applied Mathematics, MSc from Queen's University (Canada) and PhD from the University of Toronto in Statistics. After a two-year post-doctoral training in environmental health and risk assessment at the Environmental Health Center/Health Canada, he joined the faculty of the University of South Florida in 1993. Dr. Zhu's research interests range from modeling biological systems through statistical modeling of pharmacokinetic and pharmacodynamic models, quantitative risk assessment including dose-response modeling and uncertainty analysis, to disease surveillance, evaluation of clinical outcomes and healthcare systems, and global health. Dr. Zhu has served on a number of national committees including the Advisory Committee on Organ Transplantation of the Department of Health and Human Services, National Academies of Science's committees to review "the IRIS process", "State of the Science Evaluation of Nonmonotonic Dose Responses as They Apply to Endocrine Disruptors", "Sciences for the Future of EPA", "Toxicological Review of Dioxin and Related Compounds", "Toxicological Review of Tetrachloroethylene", and "Toxicological Review of Formaldehyde". He has also served on a number EPA external review panels, EPA's STAR review panels, and National Institute of Health Study Sections in clinical science, environmental health. He was a recipient of 2012-13 Fulbright Core Scholar Fellowship during which he launched a 15-year Rural China Health Cohort Study in NW China. He also received the 2005 Presidential Faculty Award from the University of South Florida and 2013-14 AAAS Science, Technology, and Policy Fellowship.

Chemical Assessment Advisory Committee

Acosta, Daniel

U. S. Food and Drug Administration

Dr. Daniel Acosta, Jr. was recently appointed Deputy Director for Research at the FDA's National Center for Toxicological Research in Jefferson, Arkansas. He was the endowed Carl Chair of Pharmacy at the Winkle College of Pharmacy of the University of Cincinnati. He holds a B.S. in Pharmacy from the University of Texas, and a Ph.D. in Pharmacology/Toxicology from the University of Kansas. Dr. Acosta was the 4th dean of the University of Cincinnati's James L. Winkle College of Pharmacy from 1996 to 2011. He was a member of The University of Texas College of Pharmacy faculty for 22 years where he helped develop a nationally ranked program in toxicology as the first Director of the Toxicology Training Program. Dr. Acosta's research has focused on the development of in vitro cellular models to explore and evaluate the mechanisms by which xenobiotics damage or injure specific cell types of various organs or tissues. He has worked on the development of primary culture systems of rabbit corneal epithelial cells, conjunctival cells, and iris epithelial cells and primary cultures of rat epidermal keratinocytes as in vitro models to evaluate selected chemicals for ocular and dermal toxicity. Dr. Acosta's laboratory has had extensive experience in in vitro toxicology and in the development of cell culture systems and methods for assessing cytotoxicity. He is very active in pharmacy organizations, such as the American Association of Colleges of Pharmacy and the Accreditation Council for Pharmacy Education. Dr. Acosta serves on several editorial boards of toxicology and in vitro journals, and has been appointed to a number of government and private committees, including: Chairman of the U.S. Food and Drug Administration (FDA) Scientific Advisory Board for the National Center for Toxicology Research; Past Chairman and member of the Texas A&M External Advisory Board of the National Institute of Environmental Health Sciences (NIEHS) Center for Environmental and Rural Health; a past member of the Board of Scientific Advisors for the Office of Research and Development of the Environmental Protection Agency; a past member of the National Advisory Committee to the Director of the Center for Environmental Health of the Centers for Disease Control and Prevention; a past member of the NIEHS Scientific Advisory Committee on Alternative Toxicological Methods which is advisory to NIEHS and the National Toxicology Program; and a past member of the Expert Committee on Toxicology and Biocompatibility of the United States Pharmacopoeia, 2000-2005. Dr. Acosta was appointed to the Committee on Toxicity Testing and Assessment of Environmental Agents for the National Academy of Sciences, which resulted in two pioneering reports on Toxicology in the 21st Century, 2007-2008. He was Chair of the Board of Directors of Toxicology Excellence in Risk Assessment, a non-profit organization that specializes in helping the public sector and government arena on risk assessment issues in the environment. Dr. Acosta was appointed to the Science Board of FDA, 2012-2013, which advises the Commissioner on national issues in the areas of drugs, food, and cosmetics. He is the recipient of several awards and honors, including President of the Society of Toxicology (2000-2001), the President of the International Union of Toxicology (2010-2013), the 2006 Foundation Award in Excellence from the Pharmaceutical Research and Manufacturers of America Foundation, and Fellow of the Academy of Toxicological Sciences. For the past 18 years, Dr. Acosta has not been actively involved in any personal research projects and has not received any research funding from external government or private organizations.

Anderson, Henry

Wisconsin Division of Public Health

Dr. Henry A. Anderson holds positions as the State Health Officer, State Environmental and Occupational Disease Epidemiologist, and Chief Medical Officer in the Wisconsin Division of Public Health, Department of Health Services, and adjunct professorships at the University of Wisconsin-Madison, School of Medicine and Public Health, Department of Population Health Sciences, and the University of Wisconsin Institute for Environmental Studies, Center for Human Studies. He holds a B.A. in Biology from Stanford University, and an M.D. from the University of Wisconsin-Madison. Dr. Anderson's expertise includes public health; preventive, environmental, and occupational medicine; respiratory diseases; epidemiology; human health risk assessment; and risk communication. His active research interests include: disease surveillance, childhood asthma, lead poisoning, reproductive and endocrine health hazards, drinking water contaminants, occupational and environmental respiratory disease and sport fish consumption advisory communication. Dr. Anderson served on the U.S. Environmental Protection Agency's (EPA) National Advisory Committee for Acute Exposure Guideline Levels for Hazardous Substances. He was chair of the Environmental Health Committee of the EPA Science Advisory Board, served on the chartered EPA SAB, and is past Chair of the Board of Scientific Councilors for the National Institute of Occupational Safety and Health. Dr. Anderson has served on five National Academy of Sciences Committees including Toxicity Testing for Assessment of Environmental Agents and just completed service on the Committee, Water Reuse: Potential for Expanding the Nation's Water Supply Through Reuse of Municipal Wastewater. He was a founding member of the Agency for Toxic Substances and Disease Registry Board of Scientific Councilors (1988-1992). Dr. Anderson serves on the Presidential Advisory Board on Radiation Worker Compensation. He has served on the Armed Forces Epidemiology Board and the Centers for Disease Control and Prevention (CDC)/ National Center for Environmental Health Director's Advisory Committee. Dr. Anderson is a fellow of the Collegium Ramazzini and the American Association for the Advancement of Science. He is associate editor of the American Journal of Industrial Medicine. Dr. Anderson was certified in 1977 by the American Board of Preventive Medicine with a sub-specialty in occupational and environmental medicine and in 1983 became a fellow of the American College of Epidemiology. He is a state government employee and his research has been supported by the State of Wisconsin and grants from U.S. government agencies, primarily U.S. Department of Health and Social Services/Centers for Disease Control and Prevention and the U.S. Environmental Protection Agency.

Bartell, Scott

University of California - Irvine

Dr. Scott M. Bartell is Associate Professor in public health, statistics, and epidemiology at the University of California, Irvine. His research interest is environmental health methodology, with applications in environmental epidemiology, exposure science, and risk assessment. Recent projects include epidemiologic analysis of particulate matter exposure and arrhythmia in the Cardiovascular Health and Air Pollution Study, linkage of fate and transport models and a pharmacokinetic model for perfluorooctanoic acid with data from the C8 Health Project, and development of statistical methods for biomarker based exposure estimation and for epidemiologic analysis of aggregated data. He has served on a variety of scientific advisory committees for the National Research Council, the Environmental Protection Agency, the Centers for Disease Control and Prevention, the National Institute of Environmental Health Sciences, and the Department of Energy. Dr. Bartell earned his PhD in epidemiology and MS in statistics from the University of California, Davis, and his MS in environmental health from the University of Washington. Current and recent research funding sources include the National Institutes of Health, the Centers for Disease Control and Prevention, the U.S. Environmental Protection Agency, California Air Resources Board, and Garden City Group, Inc.

Bruckner, James V.

University of Georgia

Dr. James V. Bruckner is currently a Professor of Pharmacology and Toxicology in the Department of Pharmaceutical and Biomedical Sciences of the College of Pharmacy of the University of Georgia (UGA). He holds a B.S. in Pharmacy and a M.S. in Toxicology from the University of Texas in Austin, and a Ph.D. in Toxicology from the University of Michigan. Dr. Bruckner organized and directed the UGA Interdisciplinary Toxicology Graduate Program in Toxicology for 15 years. Prior to that time he held a tenured faculty position at the University of Texas Medical School at Houston. Dr. Bruckner's primary areas of expertise are general toxicology, toxicokinetics (TK) and human health risk assessment. His primary research focus is on the toxicology and TK of volatile organic chemical contaminants of drinking water, drug-chemical interactions at environmental exposure levels, metabolic and toxicokinetic bases for susceptibility of children to chemicals, and physiological modeling of solvents and pyrethroid insecticides. The relevance of experimental designs to health risks of "real life" chemical exposures is of particular interest to Dr. Bruckner. His research funding for toxicology studies of problems of national concern from the past 35 years has consistently come from federal agencies including the U.S. Environmental Protection Agency (EPA), the U.S. Department of Energy, the Centers for Disease Control, and the U.S. Air Force (USAF), and a contract from the Pyrethroid Working Group (PWG). Dr. Bruckner has published more than 200 journal articles, book chapters and abstracts. Many of these papers focus on the toxicology, TK and PBPK modeling. He has served on a variety of expert panels and committees for the EPA, the National Institute of Environmental Health Sciences, National Aeronautics and Space Administration, USAF, Agency for Toxic Substances and Disease Registry/CDC, the U.S. Food and Drug Administration, and National Academy of Sciences (NAS). Dr. Bruckner's NAS appointments have included, among others, the Committees on Safe Drinking Water, Pesticides in Diets and Infants and Children; Acute Exposure Guideline Levels; Health and Safety Consequences of Child Labor; Use of Third Party Pesticide Toxicity Research with Human Participants; and Contaminated Drinking Water at Camp Lejeune. Such work has frequently involved assessment of health risks to populations living in the proximity of military chemical and nuclear disposal sites (e.g., Camp Lejeune, NC; Fort Detrick, MD; Savannah River site, SC). Dr. Bruckner is currently a member of the American Conference of Governmental Industrial Hygienists Threshold Limit Value (ACGIH TLV) chemical substances panel and the NAS Committee on Toxicology.

Cory-Slechta, Deborah

University of Rochester

Dr. Deborah Cory-Slechta received her Ph.D. degree from the University of Minnesota in 1977 and worked as a junior staff fellow of the National Center for Toxicological Research beginning in 1979. She was appointed to the faculty of the University of Rochester Medical School in 1982 and appointed Chair of the Department of Environmental Medicine and Director of the NIEHS Environmental Health Sciences Center at the University of Rochester in 1998. From July 2000-July 2002, she was the Dean for Research and Director of the AAB Institute for Biomedical Sciences, a newly established post at the University and as such, became the first female dean in the history of the Medical School. From 2003-2007 she served as Director of the Environmental and Occupational Health Sciences Institute (UMDNJ/Rutgers) and Chair of the Department of Environmental and Occupational Medicine at the Robert Wood Johnson Medical School (UMDNJ). In 2007, she returned to the Department of Environmental Medicine at the University of Rochester School of Medicine where she serves as Professor. Her research has focused largely on environmental neurotoxicants as risk factors for behavioral disorders and neurodegenerative disease. Currently she has also begun to examine mixtures of neurotoxic chemicals and risk modifiers for effects of neurotoxicants, including factors such as stress and those related to low socioeconomic status as well. These research efforts have resulted in over 130 papers and book chapters to date. Dr. Cory-Slechta has served on numerous national research review and advisory panels, including committees of the National Institutes of Health, the National Institute of Environmental Health Sciences, the Food and Drug Administration, the National Center for Toxicological Research, the Environmental Protection Agency, the National Academy of Sciences, the Institute of Medicine, and the Agency for Toxic Substances and Disease Registry, Centers for Disease Control. In addition, Dr. Cory-Slechta has served on the editorial boards of several journals including Neurotoxicology, Toxicology, Toxicological Sciences, Fundamental and Applied Toxicology, Neurotoxicology and Teratology, and American Journal of Mental Retardation. She has held the elected positions of President of the Neurotoxicology Specialty Section of the Society of Toxicology, President of the Behavioral Toxicology Society, and been named a Fellow of the American Psychological Association. Dr. Cory-Slechta's research addresses the behavioral and central nervous system effects arising from exposures to various metals including lead, mercury and arsenic particularly in combination with stress (NIH, EPA Star).

Eastmond, David

University of California - Riverside

Dr. David A. Eastmond is a professor and chair of the Department of Cell Biology & Neuroscience at the University of California, Riverside. He received his B.S. and M.S. degrees from Brigham Young University in Provo, Utah and his Ph.D. from the University of California, Berkeley. From 1987 to 1989, he was served as an Alexander Hollaender Distinguished Postdoctoral Fellow at Lawrence Livermore National Laboratory. Shortly thereafter, Dr. Eastmond joined the faculty at UC Riverside where he is actively involved in research and teaching in the areas of toxicology and risk assessment. The research in Dr. Eastmond's laboratory focuses on the mechanisms involved in the toxicity and carcinogenesis of environmental chemicals. His research has centered on the metabolism and chromosome-damaging effects of various environmental chemicals including benzene, a widely used industrial chemical and environmental pollutant, and ortho-phenylphenol, a commonly used fungicide and disinfectant. Dr. Eastmond has served as the president of the Environmental Mutagen Society and as a Jefferson Science Fellow in the US State Department. He has also participated on a variety of review panels related to chemical mutagenesis, carcinogenesis and risk assessment including panels for the US Environmental Protection Agency, the US Food and Drug Administration, the International Programme for Chemical Safety, the International Agency for Research on Cancer, the Organisation for Economic Cooperation and Development, Health Canada and the International Working Group for Genotoxicity Testing. He currently serves as the chair of the Board of Scientific Counselors for the National Toxicology Program and as a member of the Carcinogen Identification Committee for the California Environmental Protection Agency.

Foster, William Michael

Duke University Medical Center

Dr. W. Michael Foster joined the faculty of School of Medicine at Duke University in Durham, NC in 2000 and is a Research Professor in the Department of Medicine in the Division of Pulmonary, Allergy and Critical Care Medicine. Dr. Foster has a Ph.D. in Physiology from New York University and was a Research Fellow in Pulmonary Medicine at the State University of New York at Stony Brook. He provides on an annual basis lectures to undergraduate students in the Nicholas School of the Environment of Duke University, and mentoring at the post-doctoral level to physician scientists in fellowship training of the Pulmonary Division. In addition to faculty and committee responsibilities as a member of the Department of Medicine, Dr. Foster supervises a Small Animal Model and Human Inhalation Core Facility within the Pulmonary Division. Before coming to Duke University Dr. Foster held faculty and teaching appointments at the State University of New York at Stony Brook (1977-1991), and the Johns Hopkins University School of Public Health (1991-2000). Dr. Foster frequently participates as an ad hoc reviewer for the NIH Center for Scientific Review (2005-present) and was a participant in the peer review of EPA Clean Air Research Centers (2010). Dr. Foster has been a member of the American Physiologic Society (since 1982), and the American Association for the Advancement of Science (2005). At present (2009-2012) Dr. Foster is an EPA Science Advisory Board member of the Ozone Review Panel for the Clean Air Scientific Advisory Committee (CASAC), and previously during 2007 and 2008 he served on the committee of the National Research Council of the National Academies that evaluated morbidity and mortality risk from tropospheric ozone. For the years 2006/2007 he served as the President of the Inhalation and Respiratory Specialty Section of the Society of Toxicology. Dr. Foster joined the editorial board of the Environmental Health Perspectives journal as an Associate Editor in 2010, and is an editorial board member of the American Journal Respiratory Cell and Molecular Biology (2009- present). He is the author or co/author of over 115 journal articles and book chapters that focus on the pulmonary system and/or environmental health. His research interests, and in a sense hallmarks of his scientific career and accomplishments, encompass a paradigm that links cardio-pulmonary injury to air pollutant exposure using established data bases of epidemiological investigations and his own laboratory-based studies on humans and animal models. Dr. Foster's laboratory is currently supported through extramural funding sources from the Department of Health and Human Services and includes program project (P01, n=1) and investigator initiated (R01, n=5) type awards for which he is the designated Principal and/or Co-Investigator of the research plans. These awards have term dates ranging from 2012 to 2017; 2 additional awards with fundable priority scores are pending NIH Council approval. Research in his lab encompasses 3 separable areas: 1) environmental triggers of exacerbation for obstructive airway disease; 2) development of therapeutic targets to treat inflammatory airway disease; and 3) host (genetic) factors of susceptibility to oxidant lung injury. The end points of this research enhance understanding of health risk from exposure to airborne toxins, and the interdependence between therapy, health risk, and establishment of regulatory standards for air quality that reduce poor health outcomes following exposure to ambient air pollutants.

Goeden, Helen

Minnesota Department of Health

Dr. Goeden is a principal toxicologist and human health risk researcher for the Health Risk Assessment Unit at the Minnesota Department of Health (MDH). She received her Ph.D. degree in Environmental Health/Toxicology at the University of Cincinnati and a B.S. in Biological Sciences at the College of St. Scholastica, Minnesota. She is currently the scientific lead for the Drinking Water Contaminants of Emerging Concern program. Responsibilities include: toxicological assessment of a wide range of environmental contaminants (e.g., industrial, agricultural, pharmaceutical, consumer product); development of state-wide health-based criteria for groundwater and drinking water; leadership role in state and federal workgroups regarding the development, improvement, and integration of risk assessment methods and public health policies that are protective of sensitive or more highly exposed populations (e.g., infants and children); and case-by-case health risk assessments or research projects specific to emerging environmental health threats (e.g., perfluorochemicals). Dr. Goeden has served on the Water Quality Association Toxicological Review Committee and currently serves as a member of the NSF International Health Advisory Board and the Federal State Toxicology and Risk Assessment Committee (FSTRAC) planning committee. She has lectured on toxicology and risk assessment at UM Schools of Public Health. She is a member of the Society of Toxicology and was a founding member of the national Dose-Response Specialty section of the Society for Risk Analysis.

Harris, Cynthia M.

Florida A&M University

Dr. Cynthia M. Harris is Director of and Professor in the Institute of Public Health of Florida A&M University. Dr. Harris holds a B.A. in Biology (1978) and an M.A. in Genetics (1981) from the University of Kansas, and a Ph.D. in Biomedical Sciences from Meharry Medical College (1985) with concentration in the areas of nutritional biochemistry and toxicology. Dr. Harris was awarded a postdoctoral fellowship in the Interdisciplinary Programs in Health of the Harvard School of Public Health, where she conducted research regarding the effects of heavy metals on pulmonary function and environmental risk assessment. She is a Diplomate of the American Board of Toxicology (DABT). From 1990-1996, Dr. Harris served as a staff toxicologist and branch chief with the Agency for Toxic Substances and Disease Registry, a sister agency of the Centers for Disease Control and Prevention, in Atlanta, Georgia. Dr. Harris was the first African American branch chief of the Agency for Toxic Substances and Disease Registry. As branch chief of the Community Health Branch, she was responsible for the administration and management of staff who conducted environmental health assessments, at the request of individual citizens and community groups across the nation. In 1996, Dr. Harris accepted the position of Director of the Institute of Public Health at Florida A&M University. Since her tenure, she has been actively engaged in the general planning and development of the MPH program. The 1997 Florida State Legislature approved and appropriated funding to support the MPH program and the MPH program received full, maximum accreditation for its initial review (2000-2005). Dr. Harris has served on numerous committees and panels, which includes membership on the Board of Directors for the Florida Public Health Association, Chair of the Florida Public Health Partnership Council on Stroke, member of the Pregnancy Mortality Review Board, member of the Florida Sickle Cell Task Force, member of the American Public Health Association, member of the editorial board of the Harvard Journal of Public Health, reviewer for the Journal of Environmental Health, and board member for the Panhandle Chapter of the Florida March of Dimes. She has also provided a review for the Food and Nutrition Board of the National Academy of Sciences. She is a Full Member of the Society of Toxicology and was appointed by the Secretary of the U.S. Department of Health and Human Services to the Agency for Toxic Substances and Disease Registry Board of Scientific Counselors. In addition, she has served on numerous grant reviews for several federal agencies such as the Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), National Institute of Environmental Health Services (NIEHS), and Health Resources and Services Administration (HRSA). Dr. Harris' research has been supported by grants primarily from the federal government (CDC and HRSA), with additional grant support from state and local governments and foundations.

Hauser, Russ

Harvard University

Dr. Russ Hauser's research focuses on the health risks of exposure to environmental chemicals that alter human development and reproductive function through disruption of endocrine signaling. Dr. Hauser is the Frederick Lee Hisaw Professor of Reproductive Physiology at the Harvard School of Public Health and Professor of Obstetrics, Gynecology and Reproductive Biology at Harvard Medical School. Dr. Hauser, in collaboration with physicians from the Massachusetts General Hospital, Harvard Medical School, is studying the effects of bisphenol A, phthalates, parabens and chlorinated chemicals on male and female reproductive health. He is also conducting a prospective cohort study on children in Chapaevsk, Russia, where he is investigating the relationship of exposure to dioxins and dioxin-like compounds with growth and pubertal development. Dr. Hauser served on the National Research Council, National Academies committee that prepared the report, Phthalates and cumulative risk assessment: The tasks ahead. He served on two committees of the Institute of Medicine, National Academies, on Gulf War and Health and one committee on Veterans and Agent Orange, Update 2010. Dr. Hauser is a member of two U.S. EPA Science Advisory Boards, Exposure and Human Health Committee (EHC) and the Dioxin Review Panel. He is serving on the U.S. Consumer Product Safety Commission's Chronic Hazard Advisory Panel (CHAP) examining the effects of phthalates on children's health. Dr. Hauser is an Advisory Board member of Environmental Health Perspectives, Journal of the National Institute of Environmental Health Sciences. He is a member of the Environmental Health Sciences Review Committee for the National Institute of Environmental Health Sciences. He was a member of The Endocrine Society's Endocrine Disruptors Task Force. Dr. Hauser has served as the Chair of the Environment and Reproduction Special Interest Group, American Society for Reproductive Medicine. He received an M.D. from Albert Einstein College of Medicine and an M.P.H. and Sc.D. from the Harvard School of Public Health where he completed a residency in occupational medicine. He is board certified in occupational medicine.

Hays, Sean

Summit Toxicology

Dr. Sean Hays is the President and founder of Summit Toxicology, a toxicology and risk assessment consulting firm headquartered in Colorado, and is Assistant Clinical Professor in the Colorado School of Public Health at the University of Colorado Denver and affiliate faculty in the Department of Chemical and Biological Engineering at Colorado State University. Sean received a B.S. in biomedical engineering from Texas A&M University, an M.S. in Physiology from the University of Vermont, an M.S. in chemical engineering from Colorado State University, and a Ph.D. in Toxicology from the University of Utrecht. Sean has over 18 years of experience, where he specializes in conducting exposure assessments, deriving acceptable exposure limits (i.e., reference doses and reference concentrations, cancer slope factors, occupational exposure limits, and minimal risk levels), and developing pharmacokinetic (PK), physiologically based pharmacokinetic (PBPK), and pharmacodynamic (PD) models for drugs and chemicals. Dr. Hays is also regarded as a leader in the field of interpreting human biomonitoring data. Sean has served as President of the Biological Modeling Specialty Section of the Society of Toxicology and President of the Industry Advisory Board for the Colorado State University School of Biomedical Engineering. Dr. Hays does not currently receive any research grants.

Klaunig, James E.

Indiana University

Dr. James E. Klaunig is Professor of Environmental Health at Indiana University, Bloomington. He received his BS in biology from Ursinus College, Collegeville PA, and a Ph.D. in experimental pathology from the University of Maryland, Baltimore, MD. Previously he spent 20 years on the faculty as Robert Forney Professor and Director of Toxicology at Indiana University School of Medicine. His research has been devoted to understanding the mechanisms and human risk of environmental and pharmaceutical toxicants particularly their role in carcinogenesis. His research is supported by the NIH, DOD and non-federal sources of support. He is active in the Society of Toxicology having served on elected and appointed committees over the past 30 years. He serves as a member of National Academy of Sciences Committee on the Analysis of Cancer Risks in Populations near Nuclear Facilities and a Member of the Board of Directors of Toxicology Forum. He has received several awards for his academic and service work including the Kenneth P. DuBois Award from the Midwest SOT, the George H. Scott Award (Toxicology Forum), the Benjamin Trump Lectureship Award (Aspen Cancer Conference), and member of the Freehold HS Alumni Hall of Fame. From Indiana University, he has also received the Otis R. Bowen, M.D. Distinguished Leadership Award and the Indiana University Board of Trustees' Teaching Award. He received the Sagamore of the Wabash, the highest award given for service to the State of Indiana for his tenure as the State Toxicologist of Indiana. He is a former Associate Editor of Toxicological Sciences and Editor in Chief of Toxicologic Pathology. He is a Fellow in the Academy of Toxicological Sciences. He has published over 210 peer reviewed manuscripts and book chapters and has mentored over 50 MS, Ph.D., and postdoctoral fellows in Toxicology.

Lash, Lawrence

Wayne State University

Dr. Lawrence H. Lash is a Professor and Associate Chair of the Department of Pharmacology at Wayne State University School of Medicine in Detroit, MI. He received his B.A. in biology in 1980 from Case Western Reserve University in Cleveland, OH and his Ph.D. in biochemistry in 1985 from Emory University School of Medicine in Atlanta, GA. After a postdoctoral fellowship in pharmacology and toxicology at the University of Rochester in Rochester, NY (1985–1988), he joined the faculty at Wayne State. Dr. Lash teaches medical and graduate students and has research interests in the areas of drug metabolism and transport, renal toxicology, and in vitro toxicology models. His research has been funded by the National Institutes of Health, the U.S. EPA, the Department of Defense Peer-Reviewed Medical Research Program, and the pharmaceutical industry. Major research contributions have included discovery and identification of transport mechanisms for glutathione across renal basolateral plasma and mitochondrial inner membranes, identification of mitochondria as a potent and early intracellular target in the nephrotoxicity induced by the trichloroethylene metabolite DCVC, provision of pharmacokinetic and metabolic data for the environmental contaminants tri- and perchloroethylene in human and rodent liver and kidney, and demonstration of the therapeutic potential of modulating mitochondrial glutathione transporters in diabetic nephropathy, compensatory renal hypertrophy, and prostate cancer. Dr. Lash has authored more than 170 peer-reviewed publications and reviews and has edited or co-edited 4 books. Dr. Lash is very active in service to the academic and regulatory scientific community. He has served for several years as an Associate Editor for The Journal of Pharmacology and Experimental Therapeutics, Toxicology and Applied Pharmacology, and Pharmacology and Therapeutics, is on 7 other editorial boards, reviews manuscripts for several other journals in the fields of pharmacology, toxicology, and physiology, and has served as both a regular and ad hoc member of several study sections for the National Institutes of Health Center for Scientific Review, the National Institute of Environmental Health Sciences, and the National Institute of Diabetes, Digestive and Kidney Diseases. Dr. Lash has served since 2009 as an established peer reviewer for U.S. EPA Provisional Toxicity Value (PTV) manuscripts, he has been a workshop participant for 4 IRIS database risk assessment reviews, and consulted for the National Research Council for their report on "Biomarkers of Urinary Toxicity" (1992-1995) and for the U.S. EPA on their human health risk assessments for trichloroethylene (1996-2000) and perchloroethylene (1998-2000).

Li, Abby A.

Exponent Incorporated

Dr. Abby A. Li is a Senior Managing Scientist in the Health Science Practice of Exponent Inc., an international scientific consulting firm. She holds a B.A. in Chemistry and a Ph.D. in Pharmacology and Physiology from the University of Chicago. Dr. Li's research interests include evaluating the neurotoxic potential of industrial and agricultural chemicals and applying quantitative risk assessment approaches to neurotoxicity endpoints. Her research has been funded by government grants and industry, most recently by the United Kingdom Department of Environment, Food and Rural Affairs (UK DEFRA). Dr. Li has served on international and national panels for workshops on integration of in vivo and in vitro screening methods and development of databases for prioritizing chemicals for further testing and regulatory decision-making. Prior to joining Exponent Inc., Dr. Li was Senior Science Fellow at Monsanto, providing expertise in toxicology/risk assessment. She led the neurotoxicology group at Monsanto's Environmental Health Laboratory where she conducted pharmacokinetic, toxicology and neurotoxicology studies for industrial chemicals, agricultural products, and pharmaceuticals. These studies included guideline, specialized mechanistic studies, as well as human and in vitro studies. Dr. Li served on the National Academy of Science's National Research Council Committee on Toxicity Testing and Assessment of Environmental Agents in the 21st century, the EPA's Science Advisory Board (SAB) Environmental Health Committee, and the EPA's SAB Risk and Technology Review Committee evaluating effects of industrial emissions of hazardous air pollutants on public health and the environment. She served on panels sponsored by the National Academies of Science and the State of California Environmental Protection Agency's Office of Environmental Health Hazard Assessment on application of computational toxicology and development of toxic information clearinghouse for green chemistry initiatives. She has been a member of several International Life Science Institute Committees on adult and developmental neurotoxicity testing (DNT), and toxicity testing strategies for pesticides. Dr. Li served on the U.S. expert teams to the Organization for Economic Cooperation and Development (OECD) for the development of international test guidelines for adult and developmental neurotoxicity testing. She has been a member of the Scientific Planning Committee for the Society of Toxicology, the International Neurotoxicology Association, and several international conferences on alternative (in vitro and non-mammalian) screening approaches for DNT.

Lichtveld, Maureen

Tulane University

Maureen Lichtveld, M.D., M.P.H has an over 30 year career in environmental public health and currently is Professor and Chair of the Department of Global Environmental Health Sciences, Tulane School of Public Health and Tropical Medicine. Her research interests include environmentally-induced disease such as asthma and cancer, health disparities, environmental health policy, disaster preparedness, and public health systems. She holds an endowed chair in environmental policy and serves as Associate Director, Population Sciences of the Louisiana Cancer Research Consortium. Dr. Lichtveld has a track record as an expert in community-based participatory research with a special emphasis on persistent environmental health threats affecting health disparate communities living in disaster prone areas. Prior to joining Tulane University, Dr. Lichtveld completed a successful 18 year career at the Centers for Disease Control and Prevention (CDC)'s Agency for Toxic Substances and Disease Registry (ATSDR) in several leadership capacities. She worked closely with the US EPA to conduct health assessments and studies in communities living near hazardous waste sites nation-wide. She also provided leadership in establishing the Environmental Justice and minority environmental health research programs while at CDC/ATSDR and was honored as CDC's Environmental Health Scientist of the Year. Dr. Lichtveld is a member and former Chair of the Science Board of the American Public Health Association, and current Chair of the Environmental and Occupational Health Council of the Association of Schools of Public Health, and Chair of the National Public Health Leadership Society. She serves as an expert consultant to the Institute of Medicine and on numerous editorial boards of globally recognized peer reviewed journals including the American Journal of Public Health, public health's most prestigious journal. Dr. Lichtveld is the Principal Investigator (PI) of three research consortia funded by the National Institutes of Health: the Head Off Environmental Asthma in Louisiana (HEAL) study, examined the relationship between exposure to Post-Katrina mold and exacerbation of Childhood asthma. She is the Co-PI of the Gulf Coast Trans disciplinary Research Center for Community Health, a multi-institutional collaborative center engaged in health disparities, disaster, and environmental health research. She is also PI of the Transdisciplinary Research Consortium for Gulf Resilience On Women's Health (GROWH), a research partnership between academia and community organizations formed to strengthen the health security and resilience of vulnerable pregnant women and women of reproductive age potentially affected by the Deep Water Horizon oil spill and at risk of future disasters. Dr. Lichtveld was recently awarded two Gulf Coast-wide projects to strengthen environmental health capacity and literacy. Key aspects of the programs include establishing an environmental medicine referral network, deploying a cadre of trained community health workers, and creating an emerging scholars program in environmental health science targeting upper level high school students and their teachers. Her recent sources of grants include NIH, the National Institute of Environmental Health Sciences, the National Institute on Minority Health and Health Disparities, CDC, and the Baton Rouge Area Foundation.

Morandi, Maria

Independent Consultant

Dr. Maria Morandi received a BS degree in Chemistry from the City College of New York, and MS and Ph.D. degrees in Environmental Health Sciences from the Norton Nelson Institute of Environmental Medicine at New York University. She is certified in the comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene. She served as a Research Professor and the Director of the Inhalation and Pulmonary Physiology Core at the Center for Environmental Health Sciences in the Department of Biomedical and Pharmaceutical Sciences at the University of Montana in Missoula, Montana. Prior to that, she was in the faculty of the School of Public Health at the University of Texas in Houston. Dr. Morandi's current research focus is on developing methods for assessing exposures to wood smoke and respiratory effects in humans and in animal models, and on determining the physicochemical characteristics of engineered nanoparticles that might explain their bioactivity and potential risk to public health. She has done extensive research on the development of passive sampling methods for monitoring personal exposures to volatile organic compounds, which have been applied by she and others to assess adults' and children's exposures in large population studies, including residents of disadvantaged communities. She has over fifty peer-reviewed publications on these methods and other exposure-related subjects. Dr. Morandi is a member of the Committee on Acute Exposure Guideline Levels of the Board on Environmental Studies and Toxicology of the National Research Council, National Academies of Science. She has served in multiple national-level committees and review panels, including EPA's Clean Air Scientific Advisory Committee Ozone and Lead Review Panels, and the Integrated Human Exposure/Health Effects Committee and the Research Strategies Advisory Committee of the EPA Science Advisory Board. Dr. Morandi also served in the Mine Health Research Advisory Committee of the Mining Safety and Health Administration, the Board of Scientific Councilors of the National Toxicology Program of the National Institute of Environmental Health Sciences, and the Board of Scientific Councilors of the Agency for Toxic Substances and Disease Registry. She was a member of the Occupational Safety and Health Study Section of the National Institute of Occupational Safety and Health, where she still serves as ad-hoc consultant.

Persky, Victoria

University of Illinois at Chicago

Dr. Victoria Persky is a Professor of Epidemiology in the School of Public Health, University of Illinois at Chicago. She received her undergraduate degree from Radcliffe College, M.D. from Albert Einstein College of Medicine, and completed residencies in Internal Medicine at University of Alabama in Birmingham, Montefiore Hospital in New York and Northwestern University. In addition to her epidemiology research, she practiced medicine part time for 30 years in a community-based health center on the Westside of Chicago. For the last 20 years her research focus has been in environmental epidemiology, with a major focus on endocrine effects of organochlorines. Currently, she is Principal Investigator and Co-Investigator of grants examining the effects of community-based interventions on morbidity from asthma and associations of PCBs, Dioxins and PBDEs with hormonal levels in consumers of Great Lakes fish. She is a past member of the National Institutes of Health (NIH) Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP) epidemiology study section and the Chicago Asthma Consortium Advisory Board and is a current member of the Board of Mobile C.A.R.E Foundation, the Cook County Lead Prevention Advisory Council and the Environmental Justice Journal Editorial Board. She is a member of the EPA Science Advisory Board reviewing the Draft Report "EPA's Reanalysis of Key Issues Related to Dioxin Toxicity and Response to NAS Comments"

Philbert, Martin

University of Michigan

Dr. Martin Philbert is Professor of Toxicology and Dean of the University of Michigan School of Public Health. He earned his Bachelor of Science degree from the College of Arts and Technology at Cambridge, and his doctorate from the London University Royal Postgraduate Medical School. He was awarded a postdoctoral fellowship in the Neurotoxicology Laboratories at Rutgers University. Dr. Philbert served as a research assistant professor at Rutgers' Neurotoxicology Laboratories until 1995 when he joined the faculty at the University of Michigan School of Public Health as an assistant professor of toxicology. He was promoted to associate professor in 2000 and to professor in 2004. He served as associate chair for research and development in the Department of Environmental Health Sciences from 2000-03. In 2004, Dr. Philbert was appointed senior associate dean for research of the School of Public Health, a position he held through 2010 when he was appointed as Dean. He also served as interim director of the Center for Risk Science and Communication from 2004-10. He has maintained a continuously federally funded portfolio of basic research activities throughout his career. His research focuses on the development of flexible polymer nanoplatfoms for optical sensing of ions and small molecules and the early detection and treatment of brain tumors (funded by the National Institutes of Health and National Cancer Institute). Other research interests include the mitochondrial mechanisms of chemically-induced neuropathic states and the modulation of immune-gastrointestinal function by nanosilver (both projects funded by the National Institutes of Health). Dr. Philbert served as the Vice-Chair of the National Academies National Research Council (NCR) Committee for the Review of the Federal Strategy to Address Environmental, Health, and Safety Research Needs for Engineered Nanoscale Materials, and Chaired the U.S. Food and Drug Administration (USFDA) Science Board Committee on Bisphenol A. Dr. Philbert served on the National Advisory Environmental Health Council of the National Institute of Environmental Health Sciences and provides consultation to federal agencies on a variety of issues surrounding emerging nanotechnologies. He is a Standing Member of the US Food and Drug Administration Science Advisory Board and the past chair of the U.S. Environmental Protection Agency (U.S. EPA) Board of Scientific Counselors.

Ramos, Kenneth

University of Louisville School of Medicine

Dr. Kenneth Ramos is Distinguished University Professor of Biochemistry and Molecular Biology and Director of the Center for Environmental Genomics and Integrative Biology at the University of Louisville School of Medicine. He is a leading expert in the study of gene-environment interactions and personalized and genomic medicine. A major focus in his laboratory is the elucidation of molecular mechanisms of reactivation of mammalian retroelements and their role in reprogramming the human genome. Dr. Ramos completed a B.S. in Pharmaceutical Sciences and Chemistry (Magna Cum Laude) at the University of Puerto Rico, a Ph.D. in Biochemical Pharmacology at the University of Texas at Austin, and an M.D. degree with postgraduate preliminary training in Internal Medicine at the University of Louisville Health Sciences Center. He has held faculty positions at the University of the Sciences in Philadelphia, Texas Tech University Health Sciences Center, Texas A&M University and the University of Louisville School of Medicine. He is currently affiliated with the Center for Environmental Genomics and Integrative Biology, James Graham Brown Cancer Center, Center for Genetics and Molecular Medicine, Birth Defects Center, Gheens Center for Aging, and Center for Environmental and Regulatory Metabolomics. Dr. Ramos is a recipient of the Society of Toxicology Achievement Award, Astra Zeneca Traveling Lectureship Award and Distinguished Service Award from the American Heart Association. He was named Associate of the National Academy of Sciences and Fellow of the Academy of Toxicological Sciences. His recent sources of grants include the National Institute of Environmental Health Sciences, the National Cancer Institute, Astra Zeneca, and the Kentucky Lung Cancer Research Program.

Rhomberg, Lorenz

Gradient, Inc.

Lorenz R. Rhomberg, PhD FATS, is a Principal at Gradient, an environmental consulting firm based in Cambridge, Massachusetts, where he specializes in critical review of toxicological information, human health risk assessment, and science policy issues for environmental and consumer chemical exposures. He is a member of several scientific societies, including the Society for Risk Analysis, for which he served as a Councilor from 2002-2004, and as President of the New England Chapter in 1997-1998, as well as the Society of Toxicology, serving as a Councilor of the Risk Assessment Specialty Section from 2003-2005. Before joining Gradient in 1999, he was on the faculty of the Harvard School of Public Health. From 1984-1994 he was a risk assessor at the U.S. Environmental Protection Agency in Washington. Dr. Rhomberg earned his Ph.D. in population biology from the State University of New York at Stony Brook and an Honours B.Sc. in biology from Queen's University in Ontario. In 2009, Dr. Rhomberg was named Outstanding Risk Practitioner of the Year by the Society for Risk Analysis, and in the same year was named a Fellow of the Academy of Toxicological Sciences. He has served on six committees convened by the National Academy of Sciences, two as chair. For the U.S. EPA, he served on several FIFRA Scientific Advisory Panels and on chemical assessment peer review groups, including the 2000 EPA Dioxin Peer Review panel and the recent 2009 public meeting on reassessment issues.

Roberts, Stephen M.

University of Florida

Dr. Stephen M. Roberts is Professor at the University of Florida with joint appointments in the College of Veterinary Medicine, College of Medicine, and College of Public Health and Health Professions. He also serves as Director of the Center for Environmental & Human Toxicology at the University of Florida. Dr. Roberts received a B.S. in Pharmacy from Oregon State University and a Ph.D. from the University of Utah College of Medicine. After a postdoctoral fellowship at SUNY Buffalo (1977 – 1980), he served on the faculties of the University of Cincinnati College of Pharmacy (1980-1985) and the College of Medicine at the University of Arkansas for Medical Sciences (1986-1989). Dr. Roberts has been a faculty member at the University of Florida since 1989. His research addresses mechanisms of toxicity, particularly involving the liver and immune system. Dr. Roberts also has an active research program in toxicokinetics, especially involving bioavailability of environmental toxicants, as well as approaches to evaluation of potential toxicity of nanomaterials. Dr. Roberts' research has been supported by the National Institutes of Health, the Department of Defense, the U.S. EPA, Gulf Power Corporation, and HSF Pharmaceuticals. He serves as an advisor to regulatory agencies on topics related to risk assessment

Skoglund, Robert

3M Company

Dr. Skoglund is a toxicologist, environmental chemist, and industrial hygienist. He is presently a Senior Laboratory Manager at the 3M Company in St. Paul, Minnesota, and is responsible for the science-based and globally consistent assessment and communication of the hazards and risks of materials important to 3M. In addition he serves as an Adjunct Professor at the University of Minnesota, where he teaches and advises students in both the Toxicology Graduate Program and the School of Public Health's Division of Environmental Health Sciences. Dr. Skoglund has a doctorate and a master's degree in Environmental Health from the University of Minnesota where he specializes in environmental chemistry and toxicology, is board-certified in both general toxicology by the American Board of Toxicology and the comprehensive practice of industrial hygiene by the American Board of Industrial Hygiene, and has over twenty-five years of experience in regulatory and applied toxicology. Areas of expertise include the assessment and communication of the physical, health, and environmental hazards and risks of consumer and industrial products and their manufacturing processes. Areas of limited research and teaching include the incorporation of advances in toxicology testing and risk analysis into the assessment of materials within a global legislative and regulatory framework and the science-based assessment of sustainable or green products. Dr. Skoglund is presently active, through technical, advocacy, governing, and advisory boards, in professional organizations including the Society of Toxicology, the American Industrial Hygiene Association, and the Society for Chemical Hazard Communication, and trade organizations, including the Consumer Specialty Products Association and the American Chemistry Council. Dr. Skoglund presently serves on the Advisory Board for the NIEHS Midwest Consortium for Hazardous Waste Worker Training. In the past he served as a US industry representative to the Coordinating Group for the Harmonization of Chemical Classification Systems during the development of the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS), as well as at the European Commission's REACH Implementation Projects (RIP) during the development of their guidance, including RIP 3.2: Chemical safety reports and safety data sheets and RIP 3.3: Information requirements on intrinsic properties of substances.

Squibb, Katherine S.

University of Maryland School of Medicine

Katherine S. Squibb, PhD is a Professor in the Department of Medicine at the University of Maryland in Baltimore, and Co-Director of the University of Maryland System-Wide Graduate Program in Toxicology. Dr. Squibb received her PhD in biochemistry from Rutgers, the State University of New Jersey in 1977 and completed a postdoctoral fellowship at the National Institute of Environmental Health Sciences (NIEHS) in Research Triangle Park, NC in 1982. In addition to a basic research interest in cellular mechanisms of metal ion toxicity and carcinogenicity, Dr. Squibb's research involves the study of health effects of ambient air particles and the renal toxicity of heavy metals, with a current focus on human health effects of metals released from embedded metal fragments. Since 1994, Dr. Squibb has also worked in the risk assessment/public health field, providing technical support to citizen groups involved in the evaluation of health effects and remediation of hazardous waste sites in their communities.

Stayner, Leslie T.

University of Illinois

Dr. Stayner is currently a Professor of Epidemiology at the University of Illinois' School of Public Health in Chicago (UIC SPH). He is also Director of the Occupational and Environmental Epidemiology Program and was formerly the Director of the Division of Epidemiology and Biostatistics at UIC SPH. He also previously worked at the National Institute for Occupational Safety and Health in Cincinnati for nearly 25 years and in his last position was the Chief of their Risk Evaluation Branch. He has been a Visiting Scientist with the International Agency for Research on Cancer (IARC) in Lyon France and has participated in numerous of their monograph meetings. He received a M.S. in Epidemiology and Occupational Health and Safety in 1980 from the Harvard School of Public Health and his PhD in Epidemiology from the University of North Carolina at Chapel Hill in 1989. His major research interests are in the area of occupational and environmental epidemiology with a primary focus on carcinogenic hazards, and on the development of epidemiologic methods. He has been involved in conducting research on cancer and exposure to asbestos, 1,3-butadiene, formaldehyde, diesel exhaust, hexavalent chromium, cadmium, silica and ethylene oxide. He has served as an advisor to numerous agencies including ATSDR, EPA, NRC/IOM, OSHA, MSHA and the WHO. He is currently engaged in a CDC funded study to examine the potential association between exposures to atrazine and nitrates in drinking water and the rate of adverse pregnancy outcomes and childhood cancer in eight Midwestern states.

Stern, Alan

New Jersey Department of Environmental Protection/University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School

Dr. Alan H. Stern is the Section Chief for Risk Assessment in the Office of Science of the New Jersey Department of Environmental Protection; Adjunct Associate Professor in the Department of Environmental and Occupational Health of the University of Medicine and Dentistry of New Jersey-School of Public Health. He received a bachelor's degree in biology from the State University of New York at Stony Brook (1975), a master's degree in cellular and molecular biology from Brandeis University (1978), a master of public health degree (1981) and a doctorate in public health from the Columbia University School of Public Health (1987). Dr. Stern is board-certified in toxicology by the American Board of Toxicology (Diplomate of the American Board of Toxicology). Dr. Stern's areas of expertise include risk assessment and exposure assessment including the application of probabilistic techniques to quantitative estimation of exposure and risk. His research interests have focused on heavy metals including lead, mercury, chromium and cadmium. Dr. Stern was a member of the National Research Council/National Academy of Sciences Committee on the Toxicology of Methylmercury (1999-2000) and a member of the recent USEPA Science Advisory Board panel for the National-Scale Mercury Risk Assessment for Coal- and Oil-Fired Electrical Generating Units (June-July 2011) as well as the USEPA Science Advisory Board Panel for Peer Review of the All-Ages Lead Model (Oct. 27-28, 2005). He has also served on numerous USEPA-IRIS review panels including Toxicological Review of Urea (Dec. 13, 2010, Panel Chair), Toxicological Review of Trichloroacetic Acid (Dec. 10, 2009, Panel Chair), Toxicological Review of 2-Hexanone (May 22, 2008, Panel Chair), Toxicological Review of Toluene (Feb. 5, 2004, Panel Chair). Other panels, committees and workshops include, ATSDR Toxicological Profile Review of Revised Minimal Risk Levels (MRLs) for 1,4-Dioxane (March-April, 2010), ATSDR Toxicological Profile Review of Revised Inhalation MRL for 1,4-dioxane (Sept. 2011), USEPA Panel for the Review of Draft Exposure Factors Handbook (March 3-4, 2010), USEPA Workshop on Cardiovascular Toxicity of Methylmercury (Jan. 12-13, 2010), USEPA Panel for Review of "Draft Child-Specific Exposure Factors Handbook" (Sept. 19-20, 2007). Dr. Stern has authored numerous articles in peer-reviewed journals, and contributed a book chapter on Exposure Assessment for Neurotoxic Metals in "Human Developmental Neurotoxicology" D. Bellinger, ed. (Taylor & Francis, New York, 2006), and the article on "Environmental Health Risk Assessment" in the Encyclopedia of Quantitative Risk Assessment and Analysis, John Wiley and Sons Ltd., 2008.

Tyl, Rochelle

RTI International

For more than 40 years, Dr. Shelley Tyl, PhD, DABT, has been designing, directing, and performing basic and applied research studies, managing research programs, and mentoring junior scientists in the field of developmental and reproductive toxicology. Dr. Tyl's experience spans university, industrial, independent and contract R&D settings. After receiving a PhD in developmental genetics from the University of Connecticut, she was a tenured associate professor at UConn, served as head of teratology at the Chemical Industry Institute of Toxicology (now the Hamner Institutes for Health Sciences), and was manager of reproductive and developmental toxicology, and assistant director at the Bushy Run Research Center. Currently, she is the senior director of the program in developmental and reproductive toxicology (DART) in RTI International's Center for Pharmacology and Toxicology and an RTI Distinguished Fellow. She also holds an adjunct faculty position at the University of North Carolina-Chapel Hill, and teaches in their Curriculum in Toxicology doctoral program. Dr. Tyl and her collaborators have held and currently hold major government contracts in reproductive and developmental toxicology, including the EPA Endocrine Disruptor Screening Program and the Reproductive Assessment by Continuous Breeding (RACB) and Sperm Count Vaginal cytology Evaluations (SCVCE) contracts of the NIEHS National Toxicology Program. Her team also designs, performs, and reports on studies for U.S. and international pharmaceutical, agrochemical, and commodity chemical companies and consortia, under appropriate regulatory testing guidelines and Good Laboratory Practices (GLPs). Dr. Tyl has an international reputation for designing, executing, and reporting the findings of hundreds of complex and comprehensive studies of the highest scientific caliber, which require compliance with appropriate GLP regulations, standards, and principles. She is an internationally acknowledged expert in the field of reproductive and developmental toxicology, and has consulted for governmental and commercial entities. She has served on federal agency advisory committees and work groups, including the Federal Endocrine Disruptors Screening and Testing Advisory Committee, the OECD Testing Guideline Program (Endocrine Disruptors), National Academies Expert Panels (most recently on Spacecraft Air and Water Exposure Guidelines), and ILSI/ HESI work groups. She was also a peer reviewer for EPA intramural research programs. She and her staff helped validate the intact weanling version of the uterotrophic assay and the adult castrate male version of the Hershberger assay for EPA Tier 1/OECD assays. She provides preclinical animal data to support development of newer and better drugs (FDA), toxicity assessments for pesticide registrations (EPA FIFRA), and commodity chemical premanufacturing notices (EPA TSCA PMNs), studies under OECD and REACH requirements, and animal study support for post-marketing surveillance (under FDA). Dr. Tyl has authored or co-authored over 105 peer-reviewed articles, over 20 book chapters, more than 90 presentation abstracts, and hundreds of study reports. She is an ad hoc reviewer for more than 10 journals and serves on the editorial board of Reproductive Toxicology. She was also co-editor (with Dr. Robert W. Kapp, Jr.) of Reproductive Toxicology, Third Edition, New York, NY: Informa Healthcare, 2010. Dr. Tyl has been an active member of and held various offices within a number of professional scientific associations, and was elected president of the Teratology Society (2003---2004), and president of the Reproductive and Developmental Toxicology Specialty Section of the Society of Toxicology (2007---2008). She has maintained certification as a Diplomate of the American Board of Toxicology, since 1983, and served on its board for 5 years (2003---2007).