

**Invitation for Public Comment on the List of Candidates for the  
EPA Science Advisory Board  
Chemical Assessment Advisory Committee  
augmented for the review of the  
EPA's draft IRIS Toxicological Review of Trimethylbenzene  
December 11, 2013**

The U.S. Environmental Protection Agency (EPA) requested the Science Advisory Board (SAB) to conduct a peer review of its draft toxicological review of trimethylbenzenes. The EPA's Office of Research and Development (ORD) developed a draft *IRIS Toxicological Review of Trimethylbenzenes* (August 2013). The assessment is the first IRIS assessment developed for trimethylbenzenes and includes three isomers, 1,2,3-TMB; 1,2,4-TMB; 1,3,5-TMB. For this assessment, ORD evaluated experimental animal data and other relevant noncancer data. The assessment includes an inhalation reference concentration, oral reference dose, and qualitative cancer descriptor for each isomer. The assessment does not include a quantitative cancer assessment.

The SAB Staff Office announced in a *Federal Register* Notice (78 FR 53144-53146) published on August 28, 2013 that it was forming an expert panel under the auspices of the SAB to conduct a peer review of the EPA's draft *Toxicological Review of Trimethylbenzenes*. To augment the expertise on the Chemical Assessment Advisory Committee, the SAB sought public nominations of nationally recognized and qualified experts in one or more of the following areas, particularly with respect to trimethylbenzenes: neurotoxicity, developmental toxicity, physiologically-based pharmacokinetic (PBPK) modeling, respiratory and inhalation toxicology, hematological toxicology, and carcinogenicity.

The SAB Staff Office identified **38** candidates based on their relevant expertise and willingness to serve on the panel. Biosketches of these candidates 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 will include a review of the confidential financial 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 f) for the panel as a whole, diversity of scientific expertise and viewpoints.

**We hereby invite comments on the attached List of Candidates for consideration by the SAB Staff Office in the formation of this Panel. Please be advised that comments received are subject to release under the Freedom of Information Act. Comments should be submitted to Mr. Thomas Carpenter, Designated Federal Officer, no later than January 6, 2014. E-mailing comments to Mr. Carpenter at [carpenter.thomas@epa.gov](mailto:carpenter.thomas@epa.gov) is the preferred mode of receipt.**

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

**CAAC Augmented for Trimethylbenzenes Review**

**Acosta, Daniel**

**University of Cincinnati**

Dr. Daniel Acosta, Jr. is 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. More recently, 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 current 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 is 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 recently appointed to a three-year term on the Science Board of FDA, 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 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 16 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.

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
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**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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.

**Beland, Frederick**

**National Center for Toxicological Research, U.S. Food and Drug Administration**

Frederick A. Beland is the Director of the Division of Biochemical Toxicology at the National Center for Toxicological Research (NCTR). He received a B.A. degree in Biology from The Colorado College, and M.S. and Ph.D. degrees in Chemistry from Montana State University. Following postdoctoral work in the Ben May Laboratory at the University of Chicago, he joined the NCTR to continue his studies in cancer research. These studies have resulted in more than 300 publications. Dr. Beland is the past editor of Cancer Letters and has been or is currently a member of the editorial board for a number of journals, including Chemical Research in Toxicology, Carcinogenesis, and Mutagenesis. He is a member of the American and European Associations for Cancer Research and the American Chemical Society. He has served on the Program Committee for the American Association for Cancer Research, on the Steering Committee for the Chemistry in Cancer Research Working Group, on the Awards Selection Committee for the Chemistry in Cancer Research Working Group, on the Board of Directors for the Division of Chemical Toxicology, on the Awards Committee for the Division of Chemical Toxicology, and on study sections for the American Cancer Society and the National Institutes of Health. He has also been a member of working groups for the International Agency for Research to evaluate the carcinogenic risks of various substances to humans.

**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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.

**Cohen, Mitch**

**New York University**

Dr. Cohen is an Associate Professor in the Dept. of Environmental Medicine at NYU School of Medicine. He received his PhD from the University of Florida, and then undertook two post-doctoral rotations (Pulmonary Biology, Molecular Biology) upon arriving at NYU. His main areas of research are in the pulmonary immunotoxicology and toxicology of metals, but his work has led him to also study the effects from host exposure to one or more of multiple gas/particulate ambient pollutants. His most recent work has focused on determining the mechanisms by which exposure of First Responders to World Trade Center dusts during the first week after the event has increasingly led to the development of numerous non-cancer pulmonary disorders. Dr. Cohen has served on both US Government advisory/review committees/study sections (ad hoc) and spoken to government agencies overseas on matters related to metal/environmental pollution and potential health risks to their local populations. He also is an official member of the NYC Mayor's WTC Medical Working Group (since 2009). Dr. Cohen has been a member of SOT and the ACS for many years (as well as the Society for Leukocyte Biology and [previously] the American Association for Cancer Research). Within SOT, Dr. Cohen has served as Councilor, VP, and President of the Immunotoxicology Specialty Section (SS) and (currently) as Councilor for the Inhalation/Respiratory Systems SS.

**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

was 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).

**Dourson, Michael**

**Toxicology Excellence for Risk Assessment**

Dr. Dourson is the Director of Toxicology Excellence for Risk Assessment (TERA). He has a PhD in toxicology from the University of Cincinnati in 1980 and is a Diplomate of the American Board of Toxicology (ABT). He has lead TERA's development of partnerships among diverse groups to address chemicals of high visibility, such as formaldehyde, perchlorate, chloroform, and soluble nickel, and cooperative ventures such as the Voluntary Children's Chemical Exposure Program, the International Toxicity Estimates for Risk database (available at Toxnet), and the Alliance for Risk Assessment. He also worked 15 years for EPA, holding several leadership roles and winning awards for joint efforts, such as the creation of EPA's Integrated Risk Information System. In 2003, he won the Society of Toxicology (SOT) Lehman award for major contributions that improve the scientific basis of risk assessment. In 2007, he was elected a Fellow of the Academy of Toxicological Sciences. In 2009, he won the International Society of Regulatory Toxicology and Pharmacology's International Achievement Award in recognition of his outstanding contributions nationally and internationally to the advancement of regulatory science. In 2009, he was also selected a Fellow for the Society for Risk Analysis (SRA) for

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

substantial achievement in science relating to risk analysis and service to SRA. Dr. Dourson has co-published well over 100 papers on risk assessment methods, including methods for assessing risk in sensitive subgroups, on use of animal and human data in the assessment of risk, or on assessments for specific chemicals. He has also co-authored well over 100 government risk assessment documents, made well over 100 invited presentations, and chaired well over 100 sessions at scientific meetings and independent peer reviews. He has been elected to multiple officer positions in the American Board of Toxicology, the Society of Toxicology (SOT), and the Society for Risk Analysis. In addition to numerous appointments on government panels, such as EPA's Science Advisory Board, he is also a media resource specialist in risk assessment for the SOT, member on the editorial board of several journals, and vice chair of the NSF International Health Advisory Board.

**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.

**Faustman, Elaine M.**

**University of Washington**

Dr. Elaine M. Faustman is Professor in the Department of Environmental and Occupational Health Sciences and Director of the Institute for Risk Analysis and Risk Communication in the School of Public Health and Community Medicine at the University of Washington, where she has received the Outstanding Teaching Award. Dr. Faustman holds an A.B. in Chemistry and Zoology from Hope College and a Ph.D. in Pharmacology/Toxicology from Michigan State University. Her research includes quantitative risk assessment for non-cancer endpoints,

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

molecular mechanisms of developmental and reproductive toxicity, and in vitro and molecular biological methodologies. Dr. Faustman's research expertise also includes development of decision-analytic tools for communicating and translating new scientific findings into risk assessment and risk management decisions. She is the principal investigator of the Pacific Northwest National Children's Study Center. She also directs the Pacific Northwest Center for Human Health and Ocean Studies. The goals of Dr. Faustman's research are to discover the mechanisms that define susceptibility in at-risk populations and to provide linkages across disciplines. Through her research, she seeks to train the next generation of scientists. Dr. Faustman is an elected fellow of the American Association for the Advancement of Science and the Society of Risk Analysis. She has served as chair for the National Academy of Sciences Committee on Developmental Toxicology and as a member for the National Institute of Environmental Health Sciences (NIEHS)-National Toxicology Program (NTP) Committee on Alternative Toxicology Methods, the NIEHS-NTP Board of Scientific Counselors, National Academy of Sciences Committee in Toxicology and the Institute of Medicine Upper Reference Levels Subcommittee of the Food and Nutrition Board. Dr. Faustman also served on the executive boards of the Society of Toxicology, the Teratology Society, the Society for Risk Analysis, and NIEHS Council. She has served as Associate Editor of *Fundamental and Applied Toxicology* and on the editorial boards of *Birth Defects Research Journal*, *Reproductive Toxicology* and *Toxicology Methods*. Dr. Faustman's research is currently supported by the United States Environmental Protection Agency, NIEHS, the National Science Foundation, the National Institute for Child Health and Human Development, the U.S. Department of Health and Human Services, and the U.S. Food and Drug Administration.

**Geacintov, Nicholas**

**New York University**

Dr. Geacintov was initially trained in the field of physical chemistry of polymers at the SUNY College of Environmental Sciences and Forestry at Syracuse University, but eventually became interested in the photophysical properties of aromatic compounds, especially polycyclic aromatic hydrocarbons (PAH). His interests turned towards the electronic properties of organic solids and the relationships between excitonic processes and electronic conductivity in the classic PAH crystals anthracene and tetracene. He was the co-discoverer of the phenomenon of exciton fission in tetracene crystals in 1969. In the middle seventies he became interested in the mechanisms of chemical carcinogenesis of PAH compounds, and the association between DNA damage and the initiation of cancer at the molecular and structural levels. His studies on the mechanisms of reactions of reactive PAH diol epoxide metabolites with DNA, and the structural and mutagenic properties of the PAH-DNA lesions formed, are well known in the field. In recent years, his interests have turned towards intersecting areas in toxicology, biochemistry, and molecular biology: the elucidation of the human cellular defense mechanisms against the genotoxic effects of pre-mutagenic PAH-DNA lesions, especially the highly complex nucleotide excision repair (NER) mechanism. A fascinating question in the field is why some stereoisomeric PAH-DNA lesions are easily recognized by the human NER system, while some of the isomeric adducts are completely resistant to repair and thus pose a significant health risk to the human population. The results of such studies are of importance for developing more accurate biomonitoring technologies for assessing the risks of human exposure to PAH carcinogens, and

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

thus identifying those individuals that are genetically at high risk. The research of Dr. Geacintov has resulted in over 350 co-authored publications in a variety of internationally recognized, peer-reviewed scientific journals. He has just finished editing a book to be published by Wiley-VCH entitled Chemical Biology of DNA Damage (N.E. Geacintov and S. Broyde, eds.). His research programs have been supported by the National Science Foundation and the Department of Energy, and continues to be supported by the National Institutes of Health (since around 1987). He has been a permanent member twice, as well as ad hoc member of NIH Study sections since 1998; currently, he serves as a permanent member of the Cancer Etiology Study Section (till 2012). He was Program Chair and Organizer of the annual meetings of the Division of Chemical Toxicology of the American Chemical Society (1999-2001), served on the board of the journal Chemical Research in Toxicology for six years, and currently serves as an Editorial Board Member of the Journal of Biological Chemistry. At New York University, he served as the Chair of the Chemistry Department from 1999 to 2009, and has been a member of many University Committees such as Promotion and Tenure, Policy and Planning, etc. He is a fellow of the American Physical Society, and a member of the American Chemical Society, American Association for Cancer Research, and the American Association for the Advancement of Science.

**Ginsberg, Gary**

**Connecticut Department of Public Health**

Dr. Ginsberg is a toxicologist at the Connecticut Dept. 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.

**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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 Diplomat 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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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 (EHHC) 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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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.

**Howd, Robert A.**

**Tox Services**

Robert A. Howd, Ph.D., has practiced toxicology and risk assessment for over 30 years, and is currently employed part-time as a Staff Toxicologist with the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) and with ToxServices, Washington, DC. Dr. Howd received a bachelor's degree in Chemistry from Linfield College, McMinnville, OR, and then worked for over two years as an Analytical Chemist for the Food and Drug Administration. Dr. Howd earned his Ph.D. in Pharmacology at the University of Washington, Seattle, in 1973, and completed postdoctoral training at MIT in the Department of Nutrition and Food Science. He served as a Biochemical Pharmacologist/Toxicologist at SRI International in Menlo Park, CA, from 1975-1988, working on a variety of projects, including contracts with NCI, NIDA, and the U.S. Army. Notable subjects included studies on drug metabolism, effects of abused solvents, and development of antidotes for anticholinesterase agents. Dr. Howd joined the State of California in 1988, working first on hazardous waste sites with the Department of Toxic Substances Control, then moving to OEHHA. At OEHHA, he worked with the pesticide data review team for about 10 years, then was promoted to chief of the Water Toxicology Section, which develops Public Health Goals for chemicals in drinking water. Under Dr. Howd's leadership, over 50 new or updated reviews of regulated chemicals in drinking water were completed before his retirement in March, 2011. He accepted a part-time position with ToxServices in April, 2011, and reappointment to OEHHA on a part-time basis in 2012, to provide toxicological reviews and risk assessments of chemicals of mutual interest. Dr. Howd is an author or coauthor of over 50 peer-reviewed publications, and an editor (with Dr. Anna Fan) of the book, Risk Assessment for Chemicals in Drinking Water (Wiley, 2007). He has served on various chemical review committees and as an officer of the Northern California chapters of the Society of Toxicology and the Society for Risk Assessment.

**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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), member 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.

**Krishnan, Khannan**

**Universite de Montreal**

Dr. Kannan Krishnan is Professor of Occupational and Environmental Health at the University of Montreal (Canada) where he is also the Director of the Human Toxicology research group (TOXHUM). He has been the leader of the risk assessment methodologies theme team of the Canadian Network of Toxicology Centres (1994-2001), and president of the Risk Assessment Specialty Section of the Society of Toxicology. A member of the U.S. National Academy of Sciences (NAS) Sub-committee on Acute Exposure Guideline Levels (2001-2004), Dr. Krishnan has been a temporary advisor for the World Health Organization for developing scientific documents on the principles for evaluating health risks in children associated with chemical exposures and for evaluating physiologically-based pharmacokinetic (PBPK) models for use in risk assessment. He is currently the vice-president of the Mixtures Specialty Section of the Society of Toxicology. His expertise is in the areas of mixture toxicology, PBPK modeling, structure-pharmacokinetic relationships and health risk assessment methods. He has been a peer reviewer of several IRIS updates, risk assessments, mixture risk assessment supplemental guidance and efforts on interactions for the United States Environmental Protection Agency. He has also been actively involved as a reviewer of documents on toxicological profiles of chemicals, interaction profiles involving environmental contaminants and mixture risk assessment guidelines for the Agency for Toxic Substances and Disease Registry. He is currently on the editorial boards of Toxicological Sciences, the Official Journal of the Society of Toxicology, John Wiley's Journal of Applied Toxicology, and the free access e-Journal of Toxicology, and has previously served on the editorial boards of the International Journal of Toxicology, an Official Journal of the American College of Toxicology, as well as the Journal of Child Health. An author of a text book on environmental pollution, Dr. Krishnan has authored or co-authored over 90 full-length publications and 250 abstracts. Dr. Krishnan obtained his Ph.D. in public health from the Université de Montréal in 1990, his M.S. in toxicology and

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

environmental chemistry from McGill University in 1987 and his B.S. in agriculture from Annamalai University, India in 1983.

**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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.

**Miller, Frederick J.**

**Independent Consultant**

Dr. Frederick J. Miller is currently an independent consultant in dosimetry and inhalation toxicology. He holds a B.S. in Mathematics and Statistics (1967) and an M.S. in Statistics (1968) from the University of Wyoming, and a Ph.D. in Statistics from North Carolina State University (1977). From February, 1991 until April, 2005 he was employed in various capacities at the Hamner Institutes for Health Sciences (formerly CIIT) serving lastly as Vice President for Research. Dr. Miller began his research career in 1968 as a commissioned officer in the U.S. Public Health Service (PHS) and was assigned to the U.S. Environmental Protection Agency (EPA) when it was created in 1970. During his career with EPA, Dr. Miller was noted for bringing together interdisciplinary teams of scientists to solve important public health problems. Upon retirement from the PHS in 1989, he joined the faculty of Duke University Medical Center, continuing his long-standing interest in extrapolation modeling. His primary research interests have included pulmonary toxicology, respiratory tract dosimetry of gases and particles, lung physiology and anatomy, extrapolation modeling, and risk assessment. He is internationally recognized for his research on the dosimetry of reactive gases and has authored or co-authored 165 publications and book chapters and edited 3 books. Dr. Miller received a number of Scientific and Technical Achievement awards from EPA and also the PHS' Outstanding Service Medal. Dr. Miller has served as both a regular and an ad hoc member of EPA's Clean Air Science Advisory Committee and has served on numerous peer review and advisory panels for governmental and private organizations. He is a Fellow of the Academy of Toxicological Sciences and received the Career Achievement Award from the Inhalation Specialty Section of

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

the Society of Toxicology at the 2005 annual meeting. Dr. Miller is also an Adjunct Medical Research Professor in the Department of Medicine, Duke University Medical Center. Dr. Miller's research has been conducted without the support of grants from either government agencies or private companies.

**Mirer, Franklin E.**

**Hunter College of The City University of New York**

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.

**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 physiochemical 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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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.

**Perera, Frederica**

**Columbia University**

Dr. Frederica P. Perera, is professor of Environmental Health Sciences and serves as director of the Columbia Center for Children's Environmental Health and of the Disease Investigation Through Specialized Clinically-Oriented Ventures in Environmental Research (DISCOVER) Center. Dr. Perera pioneered the field of molecular epidemiology, beginning with studies of cancer and is now applying molecular techniques within studies of pregnant women and their children. Her areas of specialization include prevention of environmental risks to children, molecular epidemiology, cancer prevention, environment-susceptibility interactions in cancer, developmental damage, asthma, and risk assessment. She is the author of over 200 publications and has received numerous honors, including the first Irving J. Selikoff Cancer Research Award, The Ramazzini Institute (1995); Doctoris Honoris Causa, Jagiellonian University, Krakow, Poland (2004); Children's Environmental Health Excellence Award, U.S. Environmental Protection Agency (2005); and CEHN (Children's Environmental Health Network) Award (2008).

**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"

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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 Labeling 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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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.

**Taioli, Emanuela**

**State University of New York (SUNY) Downstate Medical Center**

Dr. Taioli obtained her Medical Degree from the University of Milano, where she also completed her Residency in Cardiology. She obtained an M.S. and a PhD. in Epidemiology from Columbia University. Dr. Taioli worked under a North Atlantic Treaty Organization (NATO) fellowship at the American Health Foundation in New York, and then as an Assistant Professor in the Department of Environmental Medicine at New York University. During that period, she conducted studies on genetic susceptibility to environmental factors in lung and breast cancer, and differences in estrogen metabolism with ethnicity in women. She then accepted a position as the Director of the Unit of Molecular and Genetic Epidemiology at the main University Hospital in Milano (Italy). She became the Principal Investigator of the International Study on Genetic Susceptibility to Environmental Carcinogens project, a pooled analysis of individual epidemiologic and genetic data including over 200,000 subjects, which was started in 1997 and funded by the European Commission for Research. Dr. Taioli has also been a technical advisor to the Italian Ministry of Health between 2002 and 2004. In that capacity, she was a member of the European High Group of Reflection on Patients Mobility, and she has participated in drafting the national anti-smoking law that was approved in January 2003 by the Italian parliament. Between 2005 and 2008, Dr. Taioli was Director of the Division of Cancer Prevention and Population Science at the University of Pittsburgh Cancer Institute, where she also held the Arnold Palmer Endowed Chair in Cancer Prevention. During that period, she developed a successful partnership with Hampton University under National Institutes of Health (NIH) funding, to teach Epidemiology to undergraduate minority students. She has been the Chair of the Department of Epidemiology and Biostatistics at the State University of New York (SUNY) Downstate, and is currently Professor and Chief of Epidemiology at North Shore-Hofstra School of Medicine. Dr. Taioli is the co-author of over 290 peer reviewed papers. She is currently

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

funded by NIOHS to study prostate cancer in WTC responders, and by CDC to study the health effects of Hurricane Sandy. She also hold a training grant towards undergraduates from Historically Black Colleges.

**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

**List of Candidates for the  
Chemical Assessment Advisory Committee Augmented  
For the IRIS Toxicological Review for Trimethylbenzenes**

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).

**York, Raymond**

**R.G. York & Associates**

Dr. Raymond York is a formally trained toxicologist with 30 years of research experience. He was board-certified as a Diplomate of the American Board of Toxicology in 1986 and has served on its Board of Directors. He is certified as a European Registered Toxicologist and as a Fellow of the Academy of Toxicological Sciences. He has served as a study director on over 700 safety evaluation studies. Dr. York has published over a 100 manuscripts, review articles, book chapters and abstracts, and has been an invited speaker at international conferences. Dr. York earned his Ph.D. in Toxicology at the University of Cincinnati and completed a two-year postdoctoral fellowship at Children's Hospital's Institute for Developmental Research in Cincinnati. Dr. York has been a member of the Society of Toxicology since 1985, and the American College of Toxicology since 1998. As a member of the Reproductive and Developmental Toxicology Specialty Section of SOT, he served on its Nominating Committee and currently is Vice President. He is on the Program Committee and is the current Past-President for the Middle-Atlantic Regional Section (MASOT). Dr. York has been a member of the Teratology Society since 1984, and has been a member and served as the President for both the Midwest Teratology Association (MTA; 1989) and the Mid- Atlantic Reproduction and Teratology Association (MARTA; 2004). Dr. York has served as a reviewer for Toxicology and Applied Pharmacology and International Journal of Toxicology and as a member of the Editorial Board of Fundamental and Applied Toxicology. Dr. York is a peer consultant for assessment of the potential health-effect risks for a number of consulting firms and recently served on a GRAS Panel. Currently, he is also an adjunct professor teaching General Biology and Human Anatomy & Physiology.