

**Invitation for Public Comment on the Additional List of Candidates
for the EPA Science Advisory Board Chemical Assessment Advisory Committee**

October 2, 2012

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a Federal Register Notice (Vol. 76, No. 223, pp. 71561-62) published on November 18, 2011, that it was forming a new committee, the Chemical Assessment Advisory Committee (CAAC), under the auspices of the SAB to provide advice to the EPA, through the chartered SAB, regarding the development of Integrated Risk Assessment System (IRIS) Toxicological Reviews. The SAB Staff Office sought public nominations of nationally and internationally recognized experts with knowledge in human health risk assessment and expertise in a range of disciplines including, but not limited to: *public health; epidemiology; toxicology; modeling; biostatistics; and risk assessment*. The SAB Staff Office invited public comments on the list of candidates being considered for appointment to the CAAC ([http://yosemite.epa.gov/sab/sabproduct.nsf/WebBOARD/CAACListofCandidates/\\$File/bio%20list%20of%20candidatesw-memo022912.pdf](http://yosemite.epa.gov/sab/sabproduct.nsf/WebBOARD/CAACListofCandidates/$File/bio%20list%20of%20candidatesw-memo022912.pdf)), which was announced in a Federal Register Notice (Vol. 77, No. 40, p. 12302) published on February 29, 2012.

The EPA SAB Staff Office announced in a Federal Register Notice (Vol. 77, No. 168, pp. 52330-52331) published on August 29, 2012, that it was seeking nominations of additional experts to serve on the SAB CAAC with expertise in *health disparities to sensitive and susceptible populations*.

The SAB Staff Office identified 11 additional candidates based on their expertise and willingness to serve. We hereby invite public comments on the attached additional list of candidates for appointment to the CAAC. **Comments should be submitted no later than October 23, 2012 to Mr. Aaron Yeow, Designated Federal Officer, at yeow.aaron@epa.gov.** E-mail is the preferred mode of receipt. Please be advised that public comments provided to the SAB Staff Office are subject to release under the Freedom of Information Act.

Chemical Assessment Advisory Committee (August 2012 Federal Register Notice)

Ettinger, Adrienne

Yale University

Dr. Adrienne S. Ettinger is Assistant Professor, Yale Schools of Public Health and Medicine, affiliated with the Center for Perinatal, Pediatric, and Environmental Epidemiology. She is an epidemiologist with interdisciplinary training in biostatistics, environmental health, nutrition, and biological sciences including molecular biology and genetics. Dr. Ettinger's research focuses on the effects of environmental exposures on reproductive, perinatal, and children's health in the context of population-based epidemiologic studies to investigate how environmental toxicants may impair maternal, fetal and child health over the life course. She has a specific interest in studying how nutritional and other factors (e.g. genetics, hormones, lifestyle, and behaviors) may modify susceptibility to environmental exposures in the maternal-fetal unit and, ultimately, impact toxicant-induced pregnancy and developmental outcomes. This research is currently being carried out in several new and ongoing longitudinal cohort studies in the U.S. and internationally in order to better understand how environmental risks, within and between populations, vary with respect to exposure, underlying susceptibility, and developmental stage. Dr. Ettinger's background includes significant experience with community-based epidemiologic research and public health program implementation. This experience includes working in the federal government with state and local public health departments, conducting academic research in both urban and rural settings, and working with diverse, multi-ethnic populations both in the U.S. and internationally. As an epidemiologist at the U.S. Centers for Disease Control and Prevention (CDC), she provided technical assistance to State and local health departments in the design and execution of public health prevention programs and surveillance systems. Later, she directed the efforts and was the lead author of a report by the CDC Advisory Committee on Childhood Lead Poisoning Prevention "Lead and Pregnancy Working Group" to develop guidelines for clinicians and public health officials on identification and prevention of lead exposure for women of child-bearing age. She is also a member of the World Health Organization (WHO) Human Milk Survey Advisory Group. In her role as Center Scientist with the USEPA/National Institute of Environmental Health Sciences-funded Children's Environmental Health and Disease Prevention Research Center at Harvard, she was involved in all aspects of the community-based epidemiologic research at the Tar Creek Superfund Site in northeast Oklahoma. This is an area highly contaminated by metals in mining waste ("chat") and populated by many residents of Native American descent. Dr. Ettinger is currently working with colleagues at the University of New Mexico to develop the CDC/Agency for Toxic Substances and Disease Registry (ATSDR)-funded "Prospective Study of Birth Cohort Study Involving Environmental Uranium Exposure in the Navajo Nation." Dr. Ettinger has made a long-standing commitment to study impacts of environmental exposures on pregnancy, birth, and developmental outcomes with the aim of better understanding environmental health disparities in susceptible and sensitive populations. Dr. Ettinger is a Fellow of the American College of Epidemiology and has previously served as a reviewer for CDC, National Institutes for Health (NIH), and World Health Organization. Her recent sources of grants include NIH and CDC/ATSDR.

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 of Minority Health and Health Disparities, CDC, and the Baton Rouge Area Foundation.

Messing, Rita

Minnesota Department of Health

Dr. Messing received her Ph.D. in physiological psychology from Princeton University, and did postdoctoral research in neuropharmacology at the Massachusetts Institute of Technology. She was on the faculty in the Department of Pharmacology, University of Minnesota Medical School from 1983-1990. While there, she was the recipient of a mid-career development award from the National Institute of Environmental Health Sciences in environmental toxicology, to facilitate a change in research emphasis to environmental toxicology. Since 1990 her primary employment has been at the Minnesota Department of Health. She currently supervises the Site Assessment and Consultation Unit, which conducts health assessment and health education activities at hazardous waste sites and other sources of toxic releases, conducts the fish consumption advisory program, and conducts epidemiological studies of exposures to environmental hazards in vulnerable populations. Epidemiological studies include the Minnesota Arsenic Study about the relationship of arsenic in drinking water to arsenic in hair and urine in rural western Minnesota, an investigation of nitrate exposure and infant risk contrasting rural and suburban communities, and development of a cohort of people in Northeast Minneapolis exposed to Libby asbestos from operations of the WR Grace/Western Minerals facility. Currently, she is a co-Principal Investigator of a biomonitoring investigation of exposures to environmental contaminants in a tribal community in the Lake Superior Basin. She has 70 publications in toxicology and risk assessment, environmental epidemiology, neuropharmacology, psychobiology and experimental psychology. She has taught at Rutgers University, Northeastern University, University of California at Irvine and the University of Minnesota, and has had visiting appointments at Organon Pharmaceuticals in the Netherlands, and the University of Paris. She has received several federal grants and has served as an expert in toxicology and public health for the Institute of Medicine Food and Nutrition Board Upper Reference of Nutrients Panel, and the EPA Public Health Sciences Fellowships Panel. Dr. Messing is currently a member of the Society of Toxicology and the International Society of Exposure Science. Her recent sources of grants include the Agency for Toxic Substances and Disease Registry and the EPA.

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.

Paustenbach, Dennis

Chemrisk LLC

Dr. Dennis Paustenbach is a board-certified toxicologist and industrial hygienist with nearly 30 years of experience in ecological and human health risk assessment, environmental engineering, industrial and environmental toxicology, and occupational health. He currently is the President of ChemRisk, LLC, a consulting firm of about 70 professionals specializing in human and ecological risk assessment and risk analysis of consumer products, contaminated sites, pharmaceuticals, and medical devices. Dr. Paustenbach earned a Ph.D. in Environmental Toxicology from Purdue University, an M.S. in Industrial Hygiene from the University of Michigan, and a B.S. in chemical engineering; as well as two honorary doctoral degrees (one from Purdue University and the other from the Rose-Hulman Institute of Technology). He has held numerous positions in the American Industrial Hygiene Association, Society of Toxicology, Society of Risk Analysis, American Conference of Industrial Hygienists, Society of Environmental Toxicology and Chemistry, International Society of Exposure Assessment, and other professional organizations, many of which have presented him with various national awards and honors. He has served on a variety of Science Advisory Panels, including the EPA's Board of Scientific Counselors Executive committee from 2008-2011, National Institute of Occupational Safety Health's Epidemiology, Exposure Assessment and Lab Medicine Methods in Occupational Health panel in 2007, the CDC's Advisory Committee to the Director, National Center for Environmental Health from 2002-2006, the Vietnam-United States Scientific Delegation on Human Health and Environmental Effects of Agent Orange/Dioxin in 2002, and the EPA-sponsored Science Advisory Panel to address the risks of dusts in buildings (asbestos and dioxins) near the World Trade Center in 2002. He does not have any current sources of grants.

Raja, Suresh

Providence Engineering and Environmental Group, LLC

Dr. Raja has over ten years of experience in air quality research and management. He has taught classes on air pollution control and engineering, atmospheric chemistry and air pollution measurement, with over five years of post-doctoral experience in several areas of air quality management. His contributions to the air quality management field include: development of methods to monitor and model spatial distribution of ambient particulate matter, exposure assessment of particulate matter, indoor air quality and its effect on asthma symptoms, and development of methods to test emissions of criteria pollutants from stationary combustion systems. He has also served as an expert witness in air quality litigation cases using models he developed to simulate source contribution analysis. Dr. Raja has published over 18 peer-reviewed journal papers and presented over 30 peer-reviewed conference papers. He currently serves as reviewer for journals such as Atmospheric Environment, Environmental Science and Technology, and the Canadian Journal of Environmental Engineering. He is a member of Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS) VIII, a colloquium organized by the Brookhaven National Laboratory. ACCESS is a highly selective program that brings together young atmospheric scientists from around the world for scientific discussions. Dr. Raja has led several projects funded by the Syracuse Center of Excellence in Environmental and Energy Systems and the New York State Energy Research and Development Authority through the USEPA while he was a Research Assistant Professor at Clarkson University. These projects are related to particulate matter exposure and health effects, indoor air quality, asthma and human exposure of airborne pollutants and statistical data analysis. His recent sources of grants include the San Joaquin Valleywide Air Pollution Study Agency and the San Joaquin Valley Air Pollution Control District.

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.

Robson, Mark

Rutgers, The State University of New Jersey

Mark Gregory Robson is the Dean of Agricultural and Urban Programs and Professor of Entomology at Rutgers University-School of Environmental and Biological Sciences and Professor of Environmental and Occupational Health the University of Medicine and Dentistry of New Jersey School of Public Health-School of Public Health. Dr. Robson graduated with a B.S. with High Honors from Rutgers University - Cook College in Agricultural Science and an M.S. and Ph.D. from Rutgers University - Graduate School New Brunswick in Plant Science. He has an M.P.H. from the University of Medicine and Dentistry of New Jersey - School of Public Health in Environmental and Occupational Health. Dr. Robson also has an Honorary Doctoral Degree in Public Health (DrPH) from Chulalongkorn University. He was elected a Fellow in the Academy of Toxicological Sciences in 2002. Dr. Robson's research focus is on exposures to pesticides and agricultural chemicals. Dr. Robson is currently the Principal Investigator on a National Institutes of Health (NIH)-funded Fogarty International Training and Research In Environmental and Occupational Health Center in Bangkok. Dr. Robson is the Editor in Chief of Entomology, Ornithology & Herpetology and a contributing editor for Public Health Reports, and he is on the editorial boards for the Journal of Environmental Health, and New Solutions and the Chulalongkorn Journal of Health Research. Dr. Robson and Dr. William Toscano are the editors of the textbook Environmental Health Risk Assessment for Public Health (Jossey Bass 2007). In 2011 Dr. Robson was the recipient of the International Society of Exposure Science Mehlman Award for Exposure Assessment Research. His recent sources of grants include NIH and the EPA.

Shubat, Pamela

Minnesota Department of Health

Dr. Pamela Shubat supervises the work of the Health Risk Assessment Unit of the Minnesota Department of Health Environmental Health Division. Pam has worked in the department for twenty years in many areas of risk assessment, toxicology, and exposure assessment. Her major responsibilities have included research on fish contaminants and developing state fish consumption advisories; childhood lead poisoning prevention; population-based exposure assessment; and rules for groundwater contaminants. She was the principal investigator for a state component of the EPA National Human Exposure Assessment Survey (the Minnesota Children's Pesticide Exposure Study) and for a study on using environmental economics for children's environmental health valuation. She currently supervises the work of developing risk assessment methods that take into account sensitive subpopulations and life stages in drinking water rules. In addition to this state work, she is an appointed member and the chair of the EPA Children's Health Protection Advisory Committee, and has served as a peer reviewer for EPA projects involving methylmercury, polychlorinated biphenyls, and risk assessment practice. Pam has been a member of the Society of Toxicology since 1989 and a member of the International Society for Exposure Analysis since 1996, serving as councilor from 2002-2005. She is also a member of the EPA Federal-State Toxicology Risk Analysis Committee. Pam received a Ph.D. in Pharmacology and Toxicology from the University of Arizona in 1988, an M.S. in Fisheries and Wildlife from Oregon State University, and a B.S. in biology from the University of Minnesota, Duluth. She does not have any recent sources of grants.

Williams, Michelle

Harvard University

Dr. Williams has a ScD degree from Harvard School of Public Health (Epidemiology), a SM degree from Harvard School of Public Health (Demography, Population Sciences), a MS degree from Tufts University (Civil Engineering, Public Health), and an AB degree from Princeton University (Biology, Developmental Genetics). Dr. Williams has a strong background in epidemiology with special emphasis in the areas of reproductive, perinatal and molecular epidemiology. She has extensive experience in carrying out large scale multidisciplinary international research involving collection and analysis of epidemiological data (e.g., reproductive health, mood and anxiety disorders, sleep characteristics, and environmental exposures) and biological specimens (e.g., blood based biochemistry/biomarkers, flow cytometry, genetic variants, whole genome expression of mRNA and miRNA), both domestically and internationally. In the early 1990's Dr. Williams co-founded the Center for Perinatal Studies (CPS), a joint effort between Swedish Medical Center and the University of Washington, both in Seattle, WA, USA, which laid the groundwork for the interdisciplinary research she conducted. She has successfully administered large-scale clinical epidemiology studies that sought to understand genetic and environmental causes of adverse pregnancy outcomes and other non-communicable disorders along the life course (e.g., National Institutes of Health (NIH): R01-HD34888; R01-HD-32562; and R01-HD055566; Health Resources and Services Administration e.g., R40-MC00113; and R40-MC00186). In 1994 Dr. Williams developed the NIH-funded multidisciplinary international research training (MIRT) program that has allowed for the development and operations of undergraduate and graduate student training in global health, biostatistics and epidemiology in over 14 foreign research sites in South American, South East Asia, Africa, and Eastern Europe over the past 18 years. Dr. Williams is currently the Stephen B. Kay Family Professor of Public Health and Chair of the Department of Epidemiology at the Harvard School of Public Health. She has published over 258 scientific articles; served on several national (e.g., National Institute of Environmental Health Services, Division of Intramural Research, Board Member of Scientific Counselors, 1999-2003; National Institute of Child Health and Human Development, Division of Intramural Research, Board of Scientific Counselors, 2011-present) and international scientific advisory committees; and has received numerous research and teaching awards. Her recent sources of grants include NIH, March of Dimes, and Roche Diagnostics.

Wu, Felicia

University of Pittsburgh

Dr. Felicia Wu is an Associate Professor in the Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh; with joint appointments in the School of Medicine and the University of Pittsburgh Cancer Institute. She received her AB and SM in Applied Mathematics and Medical Sciences from Harvard University, and her PhD in Engineering and Public Policy from Carnegie Mellon University. Dr. Wu's areas of expertise concern the global impacts of environmental toxins, in terms of estimating global burden of human disease and economic losses. She has applied a diversity of methodologies in her work, including quantitative risk assessment, network modeling, health economics, econometrics, and epidemiological methods. Her current research projects include: 1) estimating the impact of near-term climate change on foodborne fungal toxins (mycotoxins), 2) assessing the role of nations' food safety regulations in global trade patterns of mycotoxin-contaminated foods, 3) estimating cumulative doses of aristolochic acid associated with kidney diseases in humans, 4) estimating the global burden of cancers and cardiovascular disease associated with foodborne arsenic, and 5) assessing the role of mycotoxins in childhood stunting in rural communities in Tanzania and Nepal. Dr. Wu serves as an epidemiologist in the expert roster of the Joint Expert Committee on Food Additives (JECFA) of the Food & Agriculture Organization (FAO) and World Health Organization (WHO) of the United Nations. She was commissioned by the WHO Foodborne Disease Burden Epidemiology Reference Group (FERG) to estimate the global burden of disease caused by aflatoxin in 2010; and was commissioned again by this group to estimate the global burden of disease caused by foodborne arsenic in 2012. She serves as a Resource Advisor to this WHO group. Dr. Wu is the health risk area editor for the journal Risk Analysis, a consulting editor for Archives of Environmental and Occupational Health, and the economics area editor for World Mycotoxin Journal. She is an ad-hoc reviewer for multiple journals, including Science. Dr. Wu also serves as a Councilor of the Society for Risk Analysis, and is Chair of its Communications Committee. Current and recent sources of funding for Dr. Wu's research are the National Cancer Institute (NCI) and National Center for Research Resources (NCRR) of the National Institutes of Health (NIH), the U.S. Department of Agriculture, and the Bill & Melinda Gates Foundation.