

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

June 27, 2013

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a Federal Register Notice on April 12, 2013 (78 FR 21946-21948) that it was inviting nominations of experts to be considered for the Administrator's appointment to the SAB Chemical Assessment Advisory Committee. The SAB Chemical Assessment Advisory Committee provides advice through the chartered SAB regarding selected toxicological reviews of environmental chemicals available on EPA's Integrated Risk Information System (IRIS). For the SAB Chemical Assessment Advisory Committee, the SAB Staff Office sought nominations of experts with experience in chemical assessments and expertise in one or more of the following disciplines: public health; epidemiology; toxicology; modeling; biostatistics; risk assessment; and health disparities.

The SAB Staff Office identified 6 candidates based on their expertise and willingness to serve. We hereby invite public comments on the attached List of Candidates for consideration by the SAB Staff Office. Comments should be submitted to Dr. Sue Shallal, Designated Federal officer no later than July 26, 2013 at shallal.suhair@epa.gov. E-mail is the preferred mode of receipt. Please be advised that public comments are subject to release under the Freedom of Information Act.

Candidates for the SAB Chemical Assessment Advisory Committee

Aighewi, Isoken

Benedict College

Dr. Isoken Tito Aighewi is an Associate Professor of Environmental Science/Health at Benedict College in Columbia SC. He received a Ph.D in Environmental Soil Chemistry from the University of Minnesota in 1988 and a Master of Public Health in Environmental Health Sciences from Columbia University in New York City in 1992. Dr. Aighewi's research has been largely interdisciplinary. Some major areas include studying the effects of heavy metal mixtures in human cell lines; ecological dose-response relationships; fate and transport and monitoring of inorganic chemicals/radionuclides in soil and water systems; geospatial technology applications in agricultural production, land use and water quality; energy and environmental sustainability; and aviation safety. His current research is on the fate/transport and environmental risk of radionuclide contamination at the impact of historical land use-land cover on water quality in collaboration with Savanna River Site. Dr. Aighewi have published several papers in various scientific journals, including book chapters; received and managed several grants from USDA-CREES, NSF, U.S. Department of Education, U.S. DOE and NASA. Dr. Aighewi has served on several boards including Maryland Information Network for Pesticides and Alternate Substances (MINPAS), National Environmental Health Academic Programs (AEHAP) (as current President-Elect) and Board of Directors of American Heritage University of Southern California. Dr. Aighewi consulted for U.S. EPA Region 5 on grant related issues, Chevron and Shell BP Oil companies on oil pollution issues as well as several international organizations and governments. Dr. Aighewi also reviews research grants for some U.S departments and have been teaching undergraduate and graduate courses for the past 30 years.

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 or advisory panels related to chemical mutagenesis, carcinogenesis and risk assessment including panels for the US Environmental Protection Agency, the US Food and Drug Administration, the National Toxicology Program, 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 a member of the Carcinogen Identification Committee for the California Environmental Protection Agency.

Hardy, Margaret

The University of Queensland - St Lucia

Dr Margaret Hardy is an academic researcher at The University of Queensland Institute for Molecular Bioscience in Australia, who is internationally recognized for her work in sustainable agriculture and insecticide toxicology. Dr Hardy earned her MSc in Entomology from the University of Hawaii in 2007, where her work focused on the toxicity of boron compounds in subterranean termites. Dr Hardy earned her PhD in Chemistry and Structural Biology from The University of Queensland in 2011, where her research program centered on discovering novel, environmentally friendly, orally active insecticides from the venom of native Australian spiders. Dr Hardy has actively published at the intersection of insecticides and biological control; invasive species and the conservation of biodiversity; and, sustainability and insecticide discovery. Dr Hardy has received funding from the Australian Government, the Australian Research Council, and

UniQuest Pty Ltd, and has authored patents protecting her work. Dr Hardy is the Secretary for the International Branch of the Entomological Society of America, the world's largest professional organisation serving entomologists, is involved with the International Society on Toxinology, and is a member of the Australian Early- and Mid-Career Researchers Network, an initiative of the Australian Academy of Science. In addition to her research interests, bringing science to the public is another of Dr Hardy's goals. As an undergraduate and graduate student, she was involved with programs designed to help marginalized and minority students succeed in higher education and careers in science. While a PhD student at the IMB, she founded the IMB Science Ambassador Program to train early career researchers in speaking to the public, to the media, and to funders. In 2008, she was selected as one of the Australian Academy of Technological Sciences and Engineering's Young Science Ambassadors, where she spoke to high school students and stakeholders in Outback Queensland, and as one of the Queensland Government's Talking Scientists, for which she appeared at community groups and stakeholder meetings state wide. Because of her work communicating science, Dr Hardy was an invited speaker at the 2009 Queensland Parliament's Science in Parliament.

Hornbuckle, Keri

University of Iowa

Dr. Keri Hornbuckle is a Professor, Associate Dean and former Department Chair of Civil & Environmental Engineering at the University of Iowa, and serves as on the faculty of the Interdisciplinary Graduate Program in Human Toxicology. Dr. Hornbuckle's research addresses the sources, transport, and fate of persistent organic pollutants (POPs) in natural systems, including both legacy and emerging pollutants. She is particularly interested in persistent organic pollutants including legacy PCBs and non-Aroclor PCBs; perfluorinated compounds related to the production of surface protectants; fragrances and cyclic volatile methyl siloxanes in personal care products; and other persistent chemicals in household products and building materials. Her lab conducts large-scale field projects in urban, industrial and rural environments, and provides analysis of POPs in indoor/outdoor air, water, sediment, soils, human serum, and tissues from laboratory animals. She is the project leader of one of six major research projects of the Iowa Superfund Research Program which focuses on atmospheric sources of PCB congeners. She also leads the Analytical Core for the ISRP which provides high quality field and laboratory measurements of POPs and their breakdown products. Her work is currently funded by the Great Lakes National Program Office of the U.S. EPA, the Superfund Research Program (National Institute for Environmental Health Sciences / NIH) and the National Science Foundation. Dr. Hornbuckle has served on the Association of Environmental Engineering and Science Professors (AEESP) Board of Directors, the Science Advisory Board of the International Joint Commission, and as associate editor for the Journal of Great Lakes Research. She is a past President of the International Association for Great Lakes Research (IAGLR). She was awarded an early CAREER development award from the National Science Foundation, and distinguished service awards from AEESP, IAGLR, and the American Chemical Society. She earned a BA in chemistry from Grinnell College (Iowa) and Ph.D. in environmental engineering and science from the University of Minnesota.

Orlov, Alexander

Stony Brook University

Dr. Alexander Orlov is an Assistant Professor of Materials Science and Engineering at State University of New York, Stony Brook, USA. He is the first ever Provostial appointment in environmental area at the College of Engineering and Applied Sciences. He is also a faculty member of the Consortium for Interdisciplinary Environmental Research and affiliate faculty of Chemistry Department. For the next 4 years Dr. Orlov will also serve as the ERC (EU) and NSF (US) funded Visiting Professor of Chemistry at the University of Cambridge. His current research, teaching and advisory activities include risk and exposure assessment of hazardous substances and nanomaterials; green chemistry in terms of chemicals and materials substitution; atmospheric chemistry; environmental engineering; safety of consumer products; design of novel nanomaterials for energy and environmental applications, and design of new physicochemical methods of hazardous substances removal from air and water. In 2007 Dr. Orlov was appointed by the UK Secretary of State to advise the UK Government on such environmental issues as risk assessment of hazardous substances and environmental impact of nanotechnology. Dr. Orlov is the first ever US based advisory committee member. For the previous 7 years he has provided guidance on risk

assessment of more than dozen chemicals and nanomaterials, where he evaluated submissions to the UK government and the European Chemicals Agency (ECHA). He was co-author of several reports to the UK government, including reports on DecaBDE toxicity, cumulative toxic effects of phthalates, behavior of pharmaceuticals in the environment, risk assessment of nanosilver/nanoseria and numerous other topics in hazardous substances and nanomaterials area. Among his current and recent activities, Dr. Orlov contributes to the work of the United Nations Environmental Program as a Lead Author for the Global Environmental Outlook (GEO) report, where he authors the hazardous substances and waste section of the report. In addition, Dr. Orlov is the first ever US based member of the UK Parliamentary and Scientific Committee and was recently elected to be a member-at-Large of the Environmental Chemistry Division of the American Chemical Society. Concurrently Dr. Orlov is serving as a Vice Chair of the Research in New Technology Committee (RANTC) at the American Institute of Chemical Engineers. He is also a member of the EU Commission and US National Nanotechnology Initiative working group on nanotoxicity. Dr. Orlov is a reviewer of grant proposals submitted to the National Science Foundation, where he reviews for 6 NSF programs; the EU Commission, the Engineering and Physical Sciences Research Council (UK), the Natural Environment Research Council (UK), while providing advice to more than 10 other funding/governmental agencies in the EU, Asia and North America. Dr. Orlov's research is supported by the National Science Foundation (NSF), the State of New York, the US Department of Education, the US Department of Transportation (via Regional Center) and the National Institute of Standards and Technology (NIST). He was PI or co-PI on more than 15 funded grant proposals awarded within the previous 4 years. He was awarded the National Science Foundation CAREER Award and the National Endowment for Science Technology and Arts CRUCIBLE award (UK). He was also selected to Frontiers of Engineering program by the National Academy of Engineering and was elected to a Fellowship of the Royal Society of Chemistry (UK). Before coming to Stony Brook he was a Research Fellow in Science and Engineering at the University of Cambridge (UK), where he was also affiliated with the King's College. Dr. Orlov has 5 degrees from various European and the US institutions, including: Doctoral and Master's degrees in Physical and Environmental Chemistry from the University of Cambridge (UK) and Master's degree in Environmental Engineering from the University of Michigan (US). He also holds Diploma in Economics from the London School of Economics.

Seiber, James

University of California, Davis

Dr. James N. Seiber, a native of Missouri, received his degrees in chemistry from Bellarmine College (Louisville, KY), Arizona State University (Tempe, AZ) and Utah State University (Logan, Utah). He has held positions as a research scientist at Dow Chemical Company (Midland MI and Walnut Creek, CA). He was a faculty member at the University of California Davis, Department of Environmental Toxicology, from 1969 to 1992, where he served as Professor and Department Chair, and as Associate Dean for Research in the College of Agricultural and Environmental Sciences. He was founding director of the Center for Environmental Sciences and Engineering at the University of Nevada, Reno in 1992, where he initiated a multidisciplinary program of research and graduate education in Atmospheric Sciences, Hydrology, Conservation Biology, Environmental Health and Environmental Engineering. His service work included Membership on the California Toxic Air Contaminant Panel, and as member of the National Academy of Sciences Risk Assessment for Hazardous Air Pollutants Committee. He joined the U.S. Department of Agriculture's Agricultural Research Service in 1998 as Director of the Western Regional Research Center (WRRC) in Albany, CA. He oversaw scientists working in eight research units: Exotic and Invasive Weeds, Produce Safety and Health, Bioproduct Chemistry and Engineering, Processed Foods, Crop Improvement and Utilization, Plant Mycotoxins, Genomics and Gene Discovery, and Foodborne Contaminants. He was responsible for the development and implementation of food safety and biobased product/biofuels initiatives at the WRRC. From 2009-June 2011 he was interim Chair for the Department of Food Science and Technology at the University of California, Davis. He continues his teaching and research program at UC Davis as an emeritus Professor in the Department of Environmental Toxicology and as Editor of the *Journal of Agricultural and Food Chemistry* (since Jan, 1999). Research interests include transport and fate of pesticides and other toxic contaminants in the atmosphere; risk assessment for chemicals in the environment; human exposure analysis and assessment of health impacts.