

U.S. Environmental Protection Agency Science Advisory Board Katrina Soil and Sediment Sampling Plan Workgroup

To expedite the development of advice on Hurricane Katrina related issues, the SAB Staff Office did not follow the usual shortlist process. Instead, it convened workgroups of technical experts drawn, as described in 70 FR 54046, from the U.S. EPA SAB, the Clean Air Scientific Advisory Committee, the Advisory Council on Clean Air Compliance Analysis (chartered advisory committees), their standing committees, subcommittees, and advisory panels. Workgroup members were invited to serve based on their scientific and technical expertise, knowledge, and experience; availability and willingness to serve; absence of financial conflicts of interest; and scientific credibility and impartiality.

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Thomas W. La Point

Dr. Thomas La Point directs the Institute of Applied Sciences at the University of North Texas and is a Professor in the Department of Biological Sciences. He received his Ph.D. from the Department of Biological Sciences at Idaho State University in Aquatic Biology. His primary research and teaching interests include contaminant effects on freshwater aquatic communities, specifically how metals and organic contaminants affect benthic population dynamics and freshwater fisheries. He has published on ecosystem measures, contaminant bioaccumulation, and sub-lethal effects on aquatic populations. Dr. La Point has served on several USEPA Science Advisory panels concerned with pesticides and ecological risk and has worked as a consultant on Superfund issues at large sites. Dr. La Point is presently serving on a National Academy of Science NRC Committee on Superfund Site Assessment and Remediation in the Coeur d'Alene River Basin. He is serving as Chair of a Water Environment Research Foundation subcommittee on whole-effluent testing as an indicator of aquatic health. He has served on several NSF, USEPA and USGS panels to review proposals submitted for funding. He is on the editorial board for *Chemosphere* and *Environmental Toxicology and Pharmacology* and has served as Editor of the *Society of Environmental Toxicology and Chemistry (SETAC) Special Publication Series*.

Samuel N. Luoma

Dr. Samuel N. Luoma is a Senior Research Hydrologist with the US Geological Survey and served as the first Lead Scientist for the CALFED Bay-Delta program between August 2000 and November 2003. As Lead Scientist he helped establish peer review, approaches to using scientific experts as advisors, a broad system of new studies relevant to CALFED, and improved the credibility and clarity of the science CALFED uses in its decisions. He is broadly interested in California water issues, ecosystem restoration and in improving uses of science in water policy decisions. His research interests include the effects of pollutants in aquatic environments, with special emphasis on metals. The studies he and his project have conducted are available in leading publications and recognized as among the leaders in fields such as metal bioavailability, dietary exposure of aquatic organisms to metals, determination of metal effects at the individual, population and community level in field studies; evaluation of methods like AVS/SEM for their usefulness in regulatory arenas; tolerance of aquatic organisms to metals and fundamental aspects of metal effects in nature. He has worked in San Francisco Bay since 1974 and has authored more than 180 peer-reviewed publications. He wrote the textbook, *Introduction to Environmental Issues*, in 1984. He was editor of *Marine Environmental Research* from 1996 – 2003 and is an editorial advisor for the *Marine Ecology Progress Series*. He is a Fellow in the American Association for the Advancement of Science and was awarded the U. S. Department of Interior's Distinguished Service Award in 1986. He has participated nationally and internationally as an expert or advisor, including advising the USEPA's Science Advisory Board on sediment quality criteria and the NAS/National Research Council's Committee on the Bioavailability of Contaminants in Soils and Sediments. He was one of four people who originally designed USGS' successful National Water Quality Monitoring Assessment. He has advised and mentored students and postdoctoral associates from Asia, Europe, Latin America and North America. He is presently serving as a William J. Fulbright Distinguished Scholar studying "International approaches to applying best available science in water pollution issues" in collaboration with colleagues at the Natural History Museum in London.

Michael J. McFarland

Dr. Michael McFarland, PE, DEE is currently an associate professor in the Department of Civil and Environmental Engineering at Utah State University where his research interests are focused in the areas of biosolids engineering, industrial waste management and pollution prevention. Dr. Michael J. McFarland received his Bachelors' degree in Engineering and Applied Science from Yale University, his Masters' degree in Chemical Engineering from Cornell University, his Ph.D. in Agricultural Engineering from Cornell University and completed his postdoctoral research program in the Dept. of Civil and Environmental Engineering at the University of Texas at Austin. Dr. McFarland has served on numerous federal, state and local environmental engineering and public health advisory committees for the U.S .Dept. of Defense, U.S. Environmental Protection Agency, U.S Dept. of Energy, National Science Foundation and the state of Utah.

Robert E. Pitt

Dr. Robert Pitt is the Cudworth Professor of Urban Water Systems in the Department of Civil and Environmental Engineering at the University of Alabama. He is also Director of the UA interdisciplinary Environmental Institute. He received a B.S. in Engineering Science from Humboldt State University, an M.S. in Civil Engineering from San Jose State University, and was awarded a Ph.D. in Civil and Environmental Engineering by the University of Wisconsin - Madison. From 1971 to 1979 he was a Senior Engineer with URS Research Co. and with Woodward Clyde Consultants; from 1979 to 1987 he was a private consultant and also an Environmental Engineer with the Wisconsin Department of Natural Resources. From 1987 to 2001, he was a Professor and founding Director of the Environmental Health Engineering program at the University of Alabama in Birmingham and had joint appointments with the Schools of Engineering and Public Health. He has been at the Tuscaloosa campus of the University of Alabama since 2001. His teaching and research interests include the fates and effects of hazardous materials lost during transportation accidents and associated contingency planning, analytical methods to detect sources of contaminants in urban drainage systems, development of new analytical methods for the rapid and sensitive detection of toxicants, sources of pathogens in urban areas, modeling of urban infrastructure systems, development of stormwater control technologies, modifications of soil structure due to urbanization, and the integration of hydrology and water quality objectives in drainage design. He has published more than 100 publications, including journal articles, research reports, and several books. He received a Distinguished Service Citation from the University of Wisconsin, was a member of the project team that received a first place national award for a combined sewer project from the Water Environment Federation, and has received several outstanding teacher and volunteer service awards. He is a registered Engineer and a Diplomat of the American Academy of Environmental Engineers. He has also served on numerous professional committees in the U.S. and abroad.

Douglas Splitstone

Douglas E. Splitstone is Principal of Splitstone & Associates. With Michael Ginevan, he is the author of *Statistical Tools for Environmental Quality Measurement* - published by CRC Press, in 2004. He has designed data collection programs to investigate potential environmental impacts in air, water, and soil. Mr. Splitstone has conducted statistical analyses of data related to the extent of site contamination and remedial planning, industrial wastewater discharges, and the dispersion of airborne contaminants. Mr. Splitstone has also developed statistical decision criteria for evaluating when acceptable environmental cleanup levels have been achieved. He has successfully employed geostatistical analysis and estimation techniques for mapping the areal extent and total volume of dioxin contaminated soils at the site of a former New Jersey pesticide plant. He has also successfully employed these techniques to map the extent of contamination in the sediments of the Passaic River and design the sampling plan for the collection of data to assess the extent of possible contamination by radioactive material in the environs of Department of Energy's (DOE's) Feed Materials Production Center near Fernald, Ohio. He has served as a member of the Task Group on Epidemiology and Statistical Methodology for the USEPA's Center for Environmental Epidemiology at the University of Pittsburgh's Graduate School of Public Health; and previously consulted with Science Advisory Board's Air Toxics Monitoring Subcommittee, and panels on Quality Management and Secondary Data Use. Mr. Splitstone is a member of the American Statistical Association (ASA) and is a founder and past chairman of that organization's Committee on Statistics and the Environment. He was awarded the Distinguished Achievement Medal by the ASA's Section on Statistics and the Environment in 1993. He was chairman for the Sixth Symposium on Statistics and the Environment that was held at the National Academy of Sciences. Mr. Splitstone received his M.S. in Mathematical Statistics from Iowa State University in 1967. Recent contract support has come from various environmental engineering/consulting firms.