

IMPLEMENTATION OF THE CALIFORNIA ENVIRONMENTAL  
CONTAMINANT BIOMONITORING PROGRAM: 2010-2012

**Appendix B**

**Scientific Guidance Panel Members**

California Department of Public Health  
in collaboration with  
California Environmental Protection Agency's  
Office of Environmental Health Hazard Assessment and  
Department of Toxic Substances Control

January 2013



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Edmund G. Brown, Jr.  
Governor  
State of California

Diana Dooley  
Secretary  
California Health and Human  
Services Agency

Ron Chapman, MD, MPH  
Director & State Health Officer  
California Department of Public Health



## SCIENTIFIC GUIDANCE PANEL

The Scientific Guidance Panel, a panel of expert scientists from outside of state government, will play a major role in the California Biomonitoring Program.

### Role of the Panel

The role of the Panel is to:

1. Make recommendations regarding the program's design and implementation. This includes making specific recommendations regarding chemicals that are priorities for biomonitoring in California.
2. Provide scientific peer review for the California Biomonitoring Program

### Appointment of Panel members

The Panel has a total of nine members. Appointment to the Panel is by the Governor (5 members) and the California Legislature (Speaker of the Assembly, 2 members; Senate Committee on Rules, 2 members). The current Panel has only eight members due to a recent retirement. The Program is developing a list of candidates from which the Governor will select a new Panel member.

As required by SB 1379, persons appointed to the Scientific Guidance Panel must have expertise in one or more of the following areas: Public health, epidemiology, biostatistics, environmental medicine, risk analysis, exposure assessment, developmental biology, laboratory science, bioethics, maternal and child health (specialty in breastfeeding), and toxicology.

They will oversee and make recommendations on how the program is developed and carried out.

Panel meetings are open to the public.

### Scientific Guidance Panel Members

Name	Affiliations	Appointed by
<a href="#">Asa Bradman, M.S., Ph.D.</a>	Associate Director, Center for Children's Environmental Health Research, School of Public Health, UC Berkeley and Co-Principal Investigator, Center for Health Assessment of Mothers and Children of Salinas (CHAMACOS)	Governor Schwarzenegger

<a href="#">B. Dwight Culver, M.D.</a>	Clinical Professor of Medicine (Epidemiology) UC Irvine	Governor Schwarzenegger
<a href="#">Marion Kavanaugh-Lynch, M.D., M.P.H.</a>	Director, California Breast Cancer Research Program University of California, Office of the President	Speaker of the Assembly, Fabian Nuñez
<a href="#">Ulrike Luderer, M.D., Ph.D.</a>	Associate Professor, Center for Occupational and Environmental Health, School of Medicine UC Irvine	Governor Schwarzenegger
<a href="#">Thomas McKone, Ph.D.</a>	Adjunct Professor, School of Public Health, UC Berkeley and Senior Scientist, Environmental Technologies Division Lawrence Berkeley National Laboratory	Governor Schwarzenegger
<a href="#">Gina Solomon, M.D., M.P.H.</a>	Associate Clinical Professor of Medicine, and Associate Director, Pediatric Environmental Health Specialty Unit, UC San Francisco and Senior Scientist, Natural Resources Defense Council	Senate Committee on Rules
<a href="#">Julia Quint, Ph.D.</a>	Research Scientist Supervisor II and Chief (Retired), Hazard Evaluation System and Information Service (HESIS), Occupational Health Branch, California Department of Health Services (renamed California Department of Public Health).	Senate Committee on Rules
<a href="#">Michael P. Wilson, Ph.D., M.P.H.</a>	Assistant Research Scientist, Center for Environmental and Occupational Health, School of Public Health, UC Berkeley	Speaker of the Assembly, Fabian Nuñez

### Scientific Guidance Panel Member Biographies

#### **Asa Bradman, M.S., Ph.D.**

Dr. Asa Bradman is an Environmental Health Scientist who focuses on environmental exposures to pregnant women and young children. In 1997, he helped create, and is now Associate Director of, the Center for Children's Environmental Health Research in the School of Public Health at the

University of California, Berkeley. In this capacity he helps direct multiple biomonitoring and exposure studies investigating the relationship of environmental exposures and health in children living in the Salinas Valley, California. Dr. Bradman is also Co-Principal Investigator of the National Children's Study in Kern County and leads an initiative to improve environmental quality in California child care centers. Between 1987 and 1997, Dr. Bradman participated in studies of lead exposure, iron deficiency, pesticide exposure, and childhood cancer with the California Department of Health Services. He has served on a number of advisory bodies, including the Science Advisory Council for the National Center for Healthy Homes (current), California Childcare Health Program Advisory Committee (current), and the Exposures to Chemical Agents Working Group for the National Children's Study.

**B. Dwight Culver, M.D.**

Dr. B. Dwight Culver has worked for the University of California, Irvine (UCI) School of Medicine since 1972 and currently holds the position of Clinical Professor in the epidemiology department. Culver previously held several positions with the University including co-director of the cancer surveillance program in the division of epidemiology in the department of medicine from 1988 to 2004; director of the residency training program in occupational medicine in the department of community and environmental medicine and the department of medicine from 1976 to 1991. Prior to joining UCI, he was president and chair of the Systemed Corporation from 1967 to 1972 and medical director of the Azusa facility of Aerojet General Corporation from 1958 to 1967. He also served as a physician for the California State Health Department from 1953 to 1956.

**Marion H. E. Kavanaugh-Lynch, M.D., M.P.H.**

Dr. Marion Kavanaugh-Lynch is the Director of the California Breast Cancer Research Program in the Office of the President at the University of California. Her work includes setting priorities and developing strategies for the state of California's research efforts designed to bring an end to breast cancer. She recently led a national panel that developed research strategies to explore the role of environmental contaminants in breast cancer and disparities in breast cancer. She is now overseeing implementation of the selected projects while planning a second phase, which will add breast cancer prevention. She is also involved in developing the science of community-based participatory research (CBPR) and is leading a grant from the National Institute of Environmental Health Sciences to develop new infrastructure for CBPR. She has served on peer review and advisory panels for the National Institutes of Health, the Centers for Disease Control and Prevention, and the California Department of Health Services, as well as for The Breast Cancer Fund, the Gay and Lesbian Medical Association, and the American Cancer Society.

**Ulrike Luderer, M.D., Ph.D., M.P.H.**

Dr. Ulrike Luderer is Associate Professor of Medicine in the Division of Occupational and Environmental Medicine in the Department of Medicine at the University of California at Irvine. She also holds secondary appointments in the Department of Developmental and Cell Biology and the Program in Public Health and is the Director of the Environmental Toxicology Graduate Program. Dr. Luderer's research focuses on mechanisms of action of reproductive toxicants and on the roles of antioxidants and oxidative stress in reproductive toxicity and reproductive aging. She served on several National Toxicology Program/NIEHS Center for the Evaluation of Risks to Human

Reproduction Expert Panels, was a member of National Research Council and World Health Organization advisory committees, and served on the U.S. EPA Science Advisory Board Environmental Health Committee.

**Thomas McKone, Ph.D.**

Dr. Thomas E. McKone is a Senior Staff Scientist and Deputy Head of the Indoor Environment Department at the Lawrence Berkeley National Laboratory and an Adjunct Professor with the School of Public Health at the University of California, Berkeley. His research interests include the development, use, and evaluation of models and data for human and ecological exposure assessments and risk assessments; chemical transport and transformation in the environment; and the health and environmental impacts of energy, industrial, and agricultural systems. He has been a member of several National Academy of Sciences Committees, has served on the EPA Science Advisory Board, as well as a member of advisory committees for the Organization for Economic Cooperation and Development, the World Health Organization, the International Atomic Energy Agency, and the Food and Agriculture Organization.

**Julia Quint, Ph.D.**

Dr. Julia Quint is retired from the California Department of Public Health (CDPH) where she was a Research Scientist and Chief of the Hazard Evaluation System and Information Service (HESIS), an occupational health program. She has a Ph.D. in Biochemistry from the University of Southern California and conducted laboratory-based research at UCSF and the Lawrence Berkeley Laboratory prior to joining CDPH in 1981. Dr. Quint has significant experience as a toxicologist, researcher, and public health scientist. Her work in public health has focused on protecting workers, communities, and the environment from toxic chemicals, and on promoting the development and use of safer alternatives to toxic chemicals. She has served on a number of scientific advisory committees, including committees of the National Academy of Sciences on tetrachloroethylene and health impact assessment. She is a member of the California Environmental Protection Agency's Green Ribbon Science Panel. Dr. Quint has received several awards for her work in public health.

**Gina Solomon, M.D., M.P.H.**

Gina Solomon is a Senior Scientist at the Natural Resources Defense Council (NRDC) and an Associate Clinical Professor of Medicine at the University of California at San Francisco (UCSF) where she is also the Director of the Occupational and Environmental Medicine Residency Program and the Associate Director of the UCSF Pediatric Environmental Health Specialty Unit. Her work has included over 40 scientific papers, book chapters, and reports on air pollution, pesticides, global warming, and other environmental and occupational threats to health. Dr. Solomon serves on the National Toxicology Program's Board of Scientific Counselors, a National Academy of Sciences committee on Exposure Assessment in the 21<sup>st</sup> Century, and the California Biomonitoring Scientific Guidance Panel. Dr. Solomon attended college at Brown University, medical school at Yale and did her postgraduate training in internal medicine, public health, and occupational and environmental medicine at Harvard.

**Michael P. Wilson, Ph.D., M.P.H.**

Michael P. Wilson is the Director of UC Berkeley's Labor Occupational Health Program (LOHP) and Associate Director for Integrative Sciences of the Berkeley Center for Green Chemistry (<http://bcgc.berkeley.edu/>). Dr. Wilson earned his BA in Biology with Thesis Honors (1984) from University of California, Santa Cruz, and a Master of Public Health (1998) and PhD (2003) in Environmental Health Sciences from UC Berkeley. He is also a graduate of the Trade Union Program at Harvard University, the Proyecto Linguistico Francisco Marroquin in Antigua, Guatemala, and the Pre-Hospital Care Program at Stanford University. In addition to his service on the California Biomonitoring Scientific Guidance Panel, Dr. Wilson serves on the Department of Toxic Substances Control Green Ribbon Science Panel. Dr. Wilson's recent papers in *Environmental Health Perspectives* (<http://coeh.berkeley.edu/docs/news/2009-ehp.pdf>) and *Science* ([http://coeh.berkeley.edu/docs/news/science\\_policy\\_forum\\_112009.pdf](http://coeh.berkeley.edu/docs/news/science_policy_forum_112009.pdf)) explore the role of chemicals policy and the environmental health sciences in advancing green chemistry and occupational and environmental health. From 1981—1996, Dr. Wilson worked in the Central Coast area of California as an EMT, paramedic, firefighter-paramedic, and U.S. Coast Guard reserve crewman and helmsman. He presently serves as a Hazardous Materials Specialist for FEMA Urban Search and Rescue (USAR) California Task Force 4 in Oakland, California (<http://www.catf-4.us/index.cfm?section=1>).