Final Biographical Sketches for the Advisory Panel on EPA's Report on the Environment (ROE)

Advisory Panel on EPA's Report on the Environment

Virginia Dale (Chair)

Dr. Dale is a landscape ecologist at Oak Ridge National Laboratory and adjunct faculty member in the Department of Ecology and Evolutionary Biology at the University of Tennessee. She received her Ph.D. from the University of Washington in mathematical ecology in 1980. Dr. Virginia H. Dale's primary research interests are in environmental decision making, forest succession, land-use change, landscape ecology, and ecological modeling. She has worked on developing tools for land management; vegetation recovery following the eruption of Mount St. Helens; forest development subsequent to insect outbreaks, fires, windthrows, and clear-cutting; effects of air pollution and climate change on forests; tropical deforestation in Asia and Latin America; and integrating socioeconomic and ecological models of land-use change. Dr. Dale serves on the Science Advisory Board for the Grand Canyon Monitoring and Research Center, the Committee on Ecological Effects of Road Density of the National Academy of Sciences, and the US Scientific Committee for Problems of the Environment. Dr. Dale has served on the National Academy of Sciences Ecosystems Panel, the "Committee of Scientists" appointed by the Secretary of Agriculture, and the several panels that review proposals submitted to the National Science Foundation (NSF). She was Chair of the US Regional Association of the International Association for landscape and has been on the Governing Board of the Ecological Society of America. She is currently on the editorial board for the journals Ecological Economics and Ecological Indicators. She is also the Editor-in-Chief of Environmental Management. Dr. Dale has served on various committees of the SAB, including approximately 5 years as a member of EPEC, of which she is now Chair, and several years on the RSAC. Her current research is supported by the Department of Defense's Strategic Environmental Research and Development Program. (11/2003)

Mark Bain

Mark Bain is the Director of the Center for the Environment at Cornell University. He received his doctorate from the University of Massachusetts, Amherst, MA. He is a quantitative aquatic biologist and ecosystem scientist that conducts both basic research and studies driven by current management issues. His taxonomic specializations are fish and benthic invertebrates with major system expertise concentrated on lakes, streams and estuaries. Statistics, modeling, and biological assessment are heavily used in most research and teaching. Environmental policy experience includes endangered species protection, energy - environment conflicts, watershed management, and international conservation. His current research examines (i) structure and development of bay and lagoon ecosystems around Lake Ontario, (ii) behavior and ecology of sturgeon, (iii) watershed scale environmental planning, (iv) methods for assessing biotic status of aquatic and wetland habitats, and (v) impacts to the Hudson River caused by the World Trade Center destruction.2003 – present Center for the Environment, Cornell University, Ithaca, NY. Director and Assoc. Prof., Natural Resources, Cornell University1991 - 2003 New York Cooperative Fish & Wildlife Research Unit, Cornell Univ., Ithaca, NY - Assistant Leader and Associate Professor, Department of Natural Resources, Cornell U.1998 Massachusetts Cooperative Fish & Wildlife Research Unit, U. Massachusetts, Amherst, MA - Unit Leader1986 to 1991 Alabama Cooperative Fish & Wildlife Research Unit, Auburn Univ., Auburn, AL Assistant Leader, Assistant and Associate Professor, Department of Fisheries and Allied Aquacultures, Department of Zoology and Wildlife Sciences, Auburn University1985 to 1986 Energy & Environmental Systems Div., Argonne National Laboratory (US DOE/Univ. Chicago), Argonne, Illinois - Ecologist/Statistician Teaching: Complex Systems (Cornell), Stream and Habitat Ecology (Auburn U, Cornell, Univ. Agric. Sciences-Austria), Impact Assessment (Auburn U, American Fisheries Society), Fish Biology (Cornell). Scientific Publishing: American Fisheries Society, Czech Academy of Sciences, Springer-Verlag, CEMAGREF France. Impact Assessment: National Park Service, Hydro Québec, President's Council on Environmental Quality, U. S. Environmental Protection Agency, Army Corps of Engineers, Canadian Federal Environmental Assessment Review Office, U. S. Fish and Wildlife Service, Xinjiang Uygur Autonomous Region China, Norwegian Water Resources and Energy Administration, Statkraft-Groner (Oslo), The World Bank. Professional Affiliations: American Fisheries Society, Ecological Society of America, American Association for the Advancement of Science, Trustee - Central & Western New York Chapter of The Nature Conservancy. Research Programs: National Science Foundation, The Nature Conservancy, Hudson River Foundation, USDI Grand Canyon Research and Monitoring Center, NOAA/NYDEC Hudson River National Estuarine Research Reserve, International Joint Commission, NJ Sea Grant, European Commission. Management Programs: U. S. Fish and Wildlife Service, National Marine Fisheries Service, NY Departmental of Environmental Conservation, International Joint Commission, US EPA-NY-NJ New York Harbor Estuary Program, Ukraine Ministries for Fisheries and Environmental Protection, U. S. Geological Survey.

Timothy Buckley

Dr. Timothy J. Buckley is an Assistant Professor of Environmental Health Sciences and Epidemiology at the Johns Hopkins Bloomberg School of Public Health. Dr. Buckley joined the Hopkins faculty in 1996 after five years with the U.S. EPA's National Exposure Research Lab. His research has focused on assessing total human environmental exposure through measurements in multiple environmental media and biomarkers. Over his research career, Dr. Buckley has been responsible for the concept, design, implementation, and management of several major studies involving human exposure to PAHs, metals, VOCs, pesticides, and PCBs through multiple environmental media. These large-scale projects complement laboratory-based studies where controlled exposures are used to more fully investigate relationships between exposure, body burden, and effects. Dr. Buckley's current research includes community-based exposure assessment, evaluation of chemical treatment to reduce lead bioavailability, the role of exposure to indoor air
pollution and allergens in asthma among inner-city children, exposure and effects from mobile source related air pollution, improving methods to assess dermal exposure, and the development and evaluation of exposure biomarkers. While with the U.S. EPA, Dr. Buckley received awards for his role and efforts in the National Human Exposure Assessment Survey (NHEXAS) and the Lower Rio Grande Environmental Exposure Study. His published research was recognized in 1996 with a U.S. EPA Scientific and Technology Achievement Award and again in 1999 by the Walter G. Berl Award given the Johns Hopkins Applied Physics Laboratory. Dr. Buckley is a certified industrial hygienist and has been elected to leadership positions among his professional associations including chair of the American Industrial Hygiene Association's Biological Monitoring Committee and Academic Counselor of the International Society of Exposure Analysis. Dr. Buckley received his Ph.D. in Environmental Science from Rutgers University and a Masters of Health Science in Industrial Hygiene from the Johns Hopkins Bloomberg School of Public Health.

Phillip Bromberg

Dr. Bromberg's prestigious medical and research career has spanned half a century with a focus on environmental effects on human health. He is a highly respected scientist and physician within his profession and on the Chapel Hill campus, where he currently serves as the Bonner Professor of Medicine and Scientific Director of the Center for Environmental Medicine, Asthma, and Lung Biology. Dr. Bromberg received his medical degree from Harvard Medical School and performed his residency at Peter Bent Brigham Hospital in Boston, MA. He also holds a B.S. from Queens College in Flushing, New York. The Center's research on the health effects of exposure to air pollutants recently merited a $16 million grant from the EPA, the latest example of a successful 22-year relationship between the two organizations. Dr. Bromberg is a leading member of numerous professional and honorary societies, including the American Thoracic Society and the American Federation for Clinical Research. He also has extensive experience serving on medical and environmental advisory committees, including the current chairmanship of the advisory board of the National Institute of Environmental Health Sciences Center in Urban Environmental Health at Johns Hopkins University. In addition to the EPA, he also receives funding from the National Institute of Environmental Health Sciences. Current Grant and Contract Support: EPA CR829522 - Cooperative Agreement with the U.S. Environmental Protection Agency. "Health Effects of Environmental Pollutants in Humans", P.A. Bromberg, M.D., P.I., 11/01/01 - 10/31/06. Annual direct costs: $1,706,605. (70% effort). [Continuously funded since 1980].1 RO1 HL66559-01 - NHLBI. "CD14 and LPS-Induced Inflammation in Chronic Bronchitis", D. B. Peden, M.D., P.I., 9/29/00 - 8/31/04. Annual direct costs: $225,000. (10% effort).Pending Grant and Contract Support National Institutes of Health, "O3 and LPS-Induced Airway Inflammation in Humans In Vivo", D. B. Peden, M.D., P.I., 12/1/03 – 11/30/08. Annual direct costs: $293,852. (10% effort). National Institutes of Health, "IL-13 and mucosal inflammation in childhood asthma", T. Noah, M.D., P.I., 12/15/03 – 12/14/08. Annual direct costs: $237,911. (5% effort).

Joseph Bunnell

As a Research Biologist for the USGS in Reston, Virginia, Dr. Bunnell is involved with a number of public health science activities in the US and abroad. He obtained his Ph.D. in Molecular Microbiology and Immunology from the Johns Hopkins University School of Public Health in 1999, his M.S. in Entomology from Montana State University in 1995, and his B.A. in Biology from the University of California at Santa Cruz in 1987. Conducting GIS analysis of Lyme disease; contributing to Chinese residential coal combustion studies; leading research project of respiratory health effects of coal combustion-derived air pollution in the Navajo Nation; designing experiments to identify etiology of Balkan endemic nephropathy; acting as a liaison between USGS and NIH, NIEHS, CDC, WHO, NASA, DoD, state and local public health organizations, and university medical research and environmental science departments, 2001 - present. Many of his 40+ published technical papers, book chapters, and presentation abstracts address environmental health issues and reflect on the rigorous training in Epidemiological Ecology he received. He worked as a Lecturer of Chemistry at Texas A&M University, and completed a postdoctoral fellowship at the University of Texas Medical Branch, World Health Organization Collaborating Center for Tropical Medicine on an NIH training grant.

Anne Marie Gebhart

Dr. Gebhart is Director of the Drinking Water Program at Underwriters Laboratories (UL). Previously, she served as Executive Officer of the American Society for Clinical Nutrition and Managing Editor of the American Journal of Clinical Nutrition. From 1990-1997, she worked in standards development and conformity assessment at NSF International. Dr. Gebhart also worked as Supervisor of Safety Assessment for Parke-Davis Pharmaceutical Division of Warner-Lambert Co. In this position, she managed the safety assessment process for all domestic and international new drug submissions. She holds an MPH degree in Environmental and Public Health and a PhD in Toxicology, both from the University of Michigan. Dr. Gebhart also completed post-doctoral research at the University of Michigan in the Department of Pharmacology.While at NSF International, Dr. Gebhart administered all technical services related to testing and product certification in the areas of drinking water, wastewater, food safety, and sanitation. She had responsibility for the operations, quality and credibility of the physical testing, microbiology, and analytical chemistry laboratories as well as toxicology, risk assessment, engineering, and research services. She oversaw the submission and implementation of technical proposals to federal agencies, including a grant from the USEPA for $2.3 million to verify technology for small drinking water systems. She has also led all committee work related to the development of health-based standards related to drinking water and indoor air quality. Currently, she is a member of the American Chemical Society's Committee for Environmental Improvement and the Public Interest Advisory Forum of the American Water Works Association. She has also served on the Environmental Laboratory Federal Advisory Board and the Board of Governors for the University of Michigan's School of Public Health.

Joseph Helble

Joseph J. Helble is Professor and Head of the Department of Chemical Engineering at the University of Connecticut (UConn). Professor Helble is a 1982 summa cum laude B.S. graduate of Lehigh University in chemical engineering, and a 1987 chemical engineering Ph.D. graduate of the Massachusetts Institute of Technology. His research is primarily in the area of air pollution, with specific activities and interests in combustion-derived particulate matter formation and control, trace metal and air toxics air pollutants, air quality modeling, ambient particulate matter, carbon dioxide capture, and particle coalescence. Dr. Helble also leads a research program in the area of nanoscale materials processing. He is the author of over 90 publications, primarily in the air pollution field, and is a member of the editorial board of the journal Fuel Processing Technology. Prior to joining the UConn faculty in 1995, Professor Helble spent 8 years at Physical Sciences Inc., a small business specializing in environmental and energy technology research and development. He also spent a fellowship period at U.S. EPA headquarters in Washington D.C as a science and policy fellow of the American Association for the Advancement of Science (AAAS), and received the Barnard Award from AAAS for outstanding work as an EPA Fellow in 1993. Dr. Helble is active in the American Association of Aerosol Science, where he recently served as Chair of the Combustion Aerosols Working Group, the American Chemical Society (Fuel Chemistry Division), and the American Institute of Chemical Engineers, and is a member of the CT DEP SIPRAC (State Implementation Plan Revision Advisory Committee). He has also served on numerous NSF advisory and review panels in environmental engineering and in combustion. His current research is supported by an EPA STAR grant, NASA, DOE, the Department of Defense, and the National Science Foundation.

Arturo Keller

Dr. Arturo A. Keller is Associate Professor, Environmental Biogeochemistry, at the Bren School of Environmental Science and Management. He holds a joint appointment in Mechanical and Environmental Engineering at UCSB. Dr. Keller received his PhD from Stanford University, in Civil and Environmental Engineering, with a minor in Petroleum Engineering. He also holds an MS from Stanford and a BS in Chemical Engineering from Cornell University. Dr. Keller has over eleven years of industrial experience, between his undergraduate and graduate degrees. Based on his previous work in industry, Dr. Keller has developed a keen interest for incorporating leading edge science in policy and management decisions. His current research interests are in the areas of pollutant fate & transport, water quality management, remediation technologies and pollution prevention. His research ranges from development of scientific concepts to understand the movement of pollutants in the environment through experimental work, to the development of numerical tools that provide policy makers and environmental managers the ability to make decisions with less uncertainty. Dr. Keller's research over the years has spanned the range of scales from a single pore, through the watershed scale, to the global scale. In addition to the scientific issues involved, Dr. Keller is interested in the development of management strategies to suit the characteristics of each site, minimizing risk at least cost. Dr. Keller was an important contributor to the major study on the « Health and Environmental Assessment of MTBE » study conducted by the University of California in 1998, funded by California Senate Bill 521 in 1998 and administered through a competitive process through the UC Toxic Substance Research and Training Program. Dr. Keller's role was to conduct a major review of applicable technologies for remediation of contaminated sites, above and below ground. In addition, Dr. Keller collaborated with Dr. Linda Fernandez to piece together a Cost-Benefit Analysis for California, comparing different gasoline formulation. These studies were presented in public hearings to the Governor of California and the various relevant state agencies, to make a decision on MTBE as mandated by CA SB 521. Another of Dr. Keller's focus area has been the detection of NAPLs (organic liquids such as gasoline, oils, solvents, creosotes, tars, etc.) in the subsurface, with a particular interest in denser than water NAPLs (DNAPLs), which have been a major challenge. Although it is difficult to characterize a DNAPL site because of the complex path these pollutants take as they migrate through the soil, it is nevertheless extremely important to do so to design an appropriate risk management and/or remediation strategy. In collaboration with Dr. Mark Kram, the approach has been to exploit Laser Induced Fluorescence as a method for detecting commingled organics (e.g. chlorinated solvents and greases or oils). Dr. Keller also conducts research and consulting in the area of watershed management, related to the Total Maximum Daily Load component of the Clean Water Act. He currently serves as facilitator and modeler for a large stakeholder group in the Santa Clara River, and has done consulting work for the San Francisco Regional Water Quality Control Board on some other TMDL programs. Dr. Keller is also a scientific advisor for the Southern California Association of Governments, to assist them in the development of long-term land use and transportation planning strategies with regards to minimizing the impact on the watershed components. This includes the development of a multi-billion dollar investment plan for Best Management Practices across Southern California (over 150 cities).Dr. Keller is a member of the American Geophysical Union (AGU), the American Water Resources Association (AWRA), the Association of Environmental Engineering and Science Professors (AEESP), the International Society for Industrial Ecology (ISIE), the American Chemical Society (ACS), the National Ground Water Association (NGWA) and the Society for Environmental Toxicology and Chemistry (SETAC). Dr. Keller has chaired sessions at AGU and SETAC. He is also on the Advisory Board of the Southern California Chapter of SETAC. In addition to serving a wide number of committees on campus, Dr. Keller was a Member of the Executive Committee of the University of California Toxic Substances Research and Teaching Program (UC-wide program) from 2000 to 2003, a Member of the Advisory Board of the Institute of Crustal Studies, and a Member of the Chancellor's Advisory Board on Outreach Activities. Dr. Keller has managed over $1,300,000 in research grants over the past six years, including grants from USEPA NCERQA, USGS, CA Water Resources Center, CA State Water Resources Control Board, CA Dept. of Transportation, UC Toxic Substances Research & Teaching Program, Electric Power Research Institute, Los Alamos National Lab, private firms (on MTBE remediation technologies) and non-profit organizations.

Charles Kolb

DR. Charles E. Kollb is currently President and Chief Executive Officer of Aerodyne Research, Inc. EDUCATION Ph.D. in Physical Chemistry, Princeton University, 1971M.A. in Physical Chemistry, Princeton University, 1968S.B. in Chemistry, Massachusetts Institute of Technology, 1967EXPERIENCE He joined Aerodyne as a Senior Research Scientist in 1971. Since joining Aerodyne, his personal areas of research have included atmospheric and environmental chemistry, combustion chemistry, chemical lasers, materials chemistry, and the chemical physics of rocket and aircraft exhaust plumes. He is the author or co-author of over 150 archival publications in these fields. In the area of atmospheric and environmental chemistry, Dr. Kolb initiated Aerodyne's programs for the identification and quantification of sources and sinks of trace atmospheric gases and aerosols involved in regional and global pollution problems, as well as the development of spectral sensing techniques to quantify soil pollutants. Specific atmospheric instrumentation developments include innovative tunable infrared laser differential absorption spectrometer (TILDAS) instruments for both remote, open path and in situ sampling measurements and aerosol mass spectrometers for real-time analysis of airborne aerosol concentrations, size distributions and chemical compositions as a a function of particle size. He has also motivated and designed chemical kinetic and molecular spectroscopy laboratory programs which provide gas phase and gas/surface kinetic rate parameters for atmospheric modeling and quantitative spectroscopic parameters needed to design in situ measurements of trace species important in tropospheric, stratospheric and mesospheric photochemistry. He has also developed models of aircraft and rocket exhaust plume/wake chemical kinetics, condensation physics and dispersion processes critical to the systematic assessment of the impact of aerospace systems on the chemical structure of the upper troposphere and stratosphere. He has been a member of numerous government and National Academy of Sciences/National Research Council committees dealing with atmospheric and environmental chemistry issues (listed above in biographical data). Dr. Kolb received the 1997 Award for Creative Advances in Environmental Science and Technology from the American Chemical Society. He has been elected a fellow of the American Physical Society, the Optical Society of America, the American Geophysical Union, and the American Association for the Advancement of Science; and has served as the atmospheric sciences editor of the journal, Geophysics Research Letters (1995-1999). He has received research funding from numerous federal agencies including NASA, NSF, DOE, NOAA, EPA, DOT and DOD offices such as DARPA, ARO, ONR, AFOSR, DNA (noe DTRA) and SERDP. He has also been funded by private sector sources including EPRI, GRI, CRC, AFEAS and CMA (now ACC).

George Lambert

Dr. Lambert is an Associate Professor of Pediatrics and Director of the NIH/USEPA Center for Childhood Neurotoxicology and Exposure Assessment, and Director of the Pediatric Clinical Research Center at the UMDNJ-Robert Wood Johnson Medical School, UMDNJ & Rutgers University. He holds a MD degree from the University of Illinois and has had post graduate training in: Clinical Research in Neonatology, has been a Pediatric Intern and Resident at the Johns Hopkins Hospital, Baltimore, Md, He was also a Pharmacology Fellow at Children's Hospital of Philadelphia, PA, and a research associate in molecular pharmacology at the NIH. Dr. Lambert is certified by the American Board of Pediatrics, 1979 & 1980; Neonatal/Perinatal Medicine, 1980 and as an Instructor, Neonatal Resuscitation, 1989), UMDNJ-Robert Wood Johnson Medical School and an Adjunct Associate Professor of Pharmacy in the School Pharmacy of Rutgers, The State University of New Jersey. He is also a member of the Cancer Institute of New Jersey, and Director of the Center for Child and Reproductive Environmental Health, Director, NIH / USEPA Center for Childhood Neurotoxicology and Exposure Assessment, and the Director, Pediatric Clinical Research Center, UMDNJ- Robert Wood Johnson Medical School. Dr. Lambert has served as a consulting expert to a number of professional and governmental organizations including: the Neuropharmacology Division of FDA, the U.S. Congress, TSCA Interagency Testing Committee, Department of Energy, Oakridge National Laboratory, Division of Chemical Assessment, Office of Orphan Products Development, FDA; NICHD's National Neonatal Collaborative Project, and the National Academy of Sciences. He was a Member, Committee on Drugs, American Academy of Pediatrics, (National Committee), Chairman - Human Health Effects Committee of the Joint (U.S. and Canadian) Commission on the Great Lakes,and a consultant to the World Health Organization. He has served on a number of US EPA Science Advisory Board panels including the Dioxin Reassessment Panel. Dr Lambert's research has focused on the effects of environmental chemicals on human organ maturation, reproductive function, growth and development, and neurobehavioral function. Dr Lambert's Research and programs is currently or has been recently funded by the USEPA, NIH, CDC, NJ Department of Health, and the Governors Council on Autism (12/2003)

Norman LeBlanc

Mr. Norman E. LeBlanc has over 30 years experience in the field of water quality management with respect to POTW discharges to estuarine and near shore coastal waters. . He did his undergraduate studies in physical oceanography at New York University and his graduate studies in physical oceanography at Old Dominion University. As Chief of Technical Services for the Hampton Roads Sanitation District, Virginia Beach, Virginia his major responsibilities include NPDES, biosolids and air permitting activities for nine major and four minor POTWs. He has been an active participant in the Chesapeake Bay Program in the development and implementation of water quality criteria for the control of nutrient and suspended solids impacts on living resources of the Bay. He has been active in the Association of Metropolitan Sewerage Agencies for as long as he remembers and serves as Chair of the Water Quality Committee. He is also a member of the Research Council for the Water Environment Research Foundation

John McManus

Dr. McManus is the Professor of Marine Biology and Fisheries, University of Miami; Director, National Center for Caribbean Coral Reef Research (NCORE).(1974) B.S. University of Connecticut, Storrs (1978) M.S. University of Connecticut, Storrs (1985) Ph.D. University of Rhode Island, Narragansett. Dr. McManus has a strong interest in the problem of identifying effective indices and indicators of sustainability in ecosystems and coupled human-environment systems. He has served on several international teams to develop these, and is working on models that will assist in the process of developing these measures. He leads NCORE's (National Center for Caribbean Coral Reef Research) efforts to develop programs such as the CARRUS Alliance (Comparative Analysis of Reef Resilience Under Stress), a global program of long-term, interdisciplinary research on coral reef systems focused on the development of Dynamic Decision Support Systems to guide improved reef management. This includes the development of interdisciplinary (social, economic, biological and physical) multi-level agent-based scenario-testing models of coral reefs and adjacent human societies, in which he is directly involved. He has worked on benthos, fish and fisheries from the multivariate, ecological community perspective, and is developing ways to analyze ecological change in terms of dynamics in species hyperspace. In about 20 years working in Southeast Asia, he was involved in coastal management and research at the biophysical-socioeconomic interface. Within the last ten years, I have received funding support for research from: MacArthur Foundation, European Commission, Netherlands Government, DANIDA (Danish Government),World Bank, Asian Development Bank, UN Food and Agricultural Organization, United Nations Foundation, Living Oceans Foundation, Global Environment Facility, Silicon Graphics Inc., Caribbean Marine Research Center, WorldFish (formerly ICLARM),University of Miami, National Science Foundation, National Oceanic and Atmospheric Agency, Environmental Protection Agency (including Congressional allocations)

Maria Morandi

Dr. Maria Morandi is an assistant professor of Environmental Sciences and Occupational Health at the School of Public Health of the University of Texas at Houston. She holds a BS degree in Chemistry from the City College of New York (1978), and MS (1981) and Ph.D. (1985) degrees in Environmental Sciences from the Norton Nelson Institute of Environmental Medicine of New York University. Dr. Morandi is also certified in Industrial Hygiene (CIH) by the American Board of Industrial Hygiene. Dr. Morandi's areas of expertise include assessment of indoor, outdoor and personal air concentrations of airborne contaminants in community and occupational environments, development of methods for personal exposure monitoring of gas and particle-phase airborne chemicals, evaluation of the effects from exposure to airborne particles and ozone on human and murine alveolar macrophages, and effects from exposure to airborne particles, ozone, and air toxics in children with asthma. She has also performed statistical modeling of PM source contributions. Dr. Morandi served as a member of the Integrated Human Exposure Assessment Committee (formerly the Indoor Air and Total Human Exposure Assessment Committee) of the EPA Science Advisory Board from 1992 and 1998, and has agreed to serve again in this Committee starting in 2003. She was as member of the Research Strategies Advisory Committee between 1998 and 2003. Dr. Morandi has also served as member or chair of several EPA program review panels, the Agency for Toxic Substances Board of Scientific Councilors, and the National Institute of Occupational Health Study Section. Currently, she is a member of the Board of Scientific Counselors (BOSC) of the National Toxicology Program (NIEHS.), and the Chemical Exposures Working Group for the National Children Study (NCS). Dr. Morandi's sources of recent grant and/or other contract support funding include: (1) U.S. Environmental Protection Agency (several contracts on the use of passive dosimeters for monitoring indoor, outdoor and personal air concentrations of air toxics; a STAR grant on the effect of PM on murine and human alveolar macrophages; and an evaluation of the impact of attached garages on indoor and personal air concentrations of VOCs); (2) the Mickey Leland National Urban Air Toxics Research Center (impact of exposure to airborne carbonyls, PM and ozone on children with asthma;(3) The Health Effects Institute (HEI) (a population-based exposure study); and (4) NIOSH (for training Industrial Hygienists).

David M. Ozonoff

David Ozonoff is Professor of Public Health and Chair Emeritus, Department of Environmental Health at Boston University School of Public Health. He graduated with a BS in mathematics from the University of Wisconsin in 1962, from Cornell University Medical College with an MD degree in 1967 and from Johns Hopkins School of Hygiene and Public Health with an MPH degree in 1968. He spent one year as a Macy Fellow in the History of Science Department of Harvard University in 1975 and a year as a Mellon Fellow at MIT in 1976. His primary area of research is in environmental epidemiology, where he has conducted extensive community studies of communities exposed to hazardous wastes and water contaminated with chlorinated ethylenes. He also works on new mathematical techniques for analyzing epidemiological data. He has been Director of the Boston University Superfund Basic Research Program for the last eight years. He is past-President of the Massachusetts Public Health Association, a Fellow of the Johns Hopkins Society of Scholars and a Fellow of the Collegium Ramazzinni. Dr. Ozonoff has served on numerous Federal Advisory Committees, including the Advisory Committee for Energy Related Epidemiological Research to the Secretary of HHS, the Disinfection By-Products Negotiated/Microbial Contamination Rulemaking Committee to the EPA, several environmentally-related NRC committees and NIH grant review committees. He is a Member of the Massachusetts Bioterrorism Preparedness and Response Program Advisory Committee, February 2002 - present. He is on the External Advisory Committees of the Harvard Environmental Health Sciences Center, and the Harvard School of Public Health Environmental Statistics Program, as well as advisory committees of the American Water Works Association Research Foundation and advisory committees on environmental matters to state and local governments. His research is funded by NIEHS, CDC, and the International Joint Commission on the Great Lakes.

Kathyrn Saterson

Kathryn Saterson is currently the Executive Director of the Center for Environmental Solutions at Duke University. She also has an appointment as a Research Scientist in the Division of Environmental Sciences and Policy at the Nicholas School of the Environment and Earth Sciences at Duke. She received her Ph.D. in biology, and MS in botany from the University of North Carolina at Chapel Hill. Saterson received her BA, with a major in biology and environmental studies from Williams College in Williamstown, MA. From 1999-2001 she was the Director of the Environmental Management Center at the Brandywine Conservancy working on local land conservation in Pennsylvania and northern Delaware. From 1991-1999 Saterson was the Executive Director of the Biodiversity Support Program (BSP), a consortium of World Wildlife Fund, The Nature Conservancy, and the World Resources Institute. Saterson's other professional experience includes five years as a natural resource officer with the US Agency for International Development (USAID), including two years based in Thailand. She was a Congressional Science Fellow with the US House of Representatives Subcommittee on Public Lands, and a AAAS Science and Diplomacy Fellow with USAID. Saterson was elected Secretary to the Board of Governors for the Society for Conservation Biology for 2002 - 2005. She will serve as an environmental juror for the Heinz Awards in 2003. In 2001 she served on the external review team for the US EPA Regional Vulnerability Assessment Program in Research Triangle Park, NC. She has also served on advisory committees for the Ecological Society of America, the Organization for Tropical Studies, the American Institute of Biological Sciences, and the Pew Scholars Program. She has reviewed manuscripts for Environmental Management, Conservation Biology and Science magazine. Saterson's research interests include the role and impacts of private, government and non-government efforts to conserve biological diversity from local to international scales. Recent Research Grants Received1991-1999 US Agency for International Development, to World Wildlife Fund for Biodiversity Support Program

Peter Scheff

Dr. Scheff is a Professor, Environmental and Occupational Health Sciences, University of Illinois at Chicago b. EDUCATION: Ph.D. University of IL at Chicago, School of Public Health, 1979-1983; Environ. and Occup. Hlth Sciences, 1983.M.S. University of IL at the Medical Center, School of Public Health, Environmental Health Sciences, 1977.B.A Grinnell College, Grinnell, Iowa, Music, 1973.c. Areas of expertise: Air quality management, industrial hygiene, environmental modeling, health effects of environmental pollutants. Service: Board of Directors of the Lake Michigan Section of the Air and Waste Management Association e. Recent grant activity. Bringing continuous PM2.5 to the public in near real-time. $52,000, P.I., Illinois Environmental Protection Agency, September, 2002 - March, 2004.Graduate Training in Air Pollution. $259,103, P.I. U.S. Environmental Protection Agency grant T82832601, Air Pollution Training Institute, August, 2002 - July, 2007.U.S. Environmental Protection Agency. $97,009. Intergovernmental Personnel Act Mobility Program, October, 2001 to September, 2003.Graduate Training in Air Pollution. $155,457, P.I. U.S. Environmental Protection Agency grant T82832601, Air Pollution Training Institute, September, 2000 - August, 2003.Mold and Moisture in Inner City Housing. $161,095, P.I., Illinois Department of Public Health, June 1, 2000 to April 30, 2003.

Oswald Schmitz

Dr. Schmitz is Professor, School of Forestry and Environmental Studies, Yale UniversityEDUCATION:1985-1989 University of Michigan, School of Natural Resources, Ph.D.1983-1984 University of Guelph, Department of Zoology, M.Sc.1978-1982 University of Guelph, Department of Zoology, B.Sc. EXPERTISE: Ecology; Natural Resources Management, Whole Ecosystems Research, and Ecosystems Sustainability PROFESSIONAL AFFILIATIONS Ecological Society of America; Society of American Naturalists; American Associate for the Advancement of Science; Sigma Xi, The Scientific Research Society PROFESSIONAL SERVICE2002 External Faculty Opponent, Ph.D. Dissertation, University of Amsterdam2002 Organized a Special Feature entitled "Linking individual behavior to community dynamics" to be published in Ecology.2001- Member, Yale University Press Publications Committee2002 Review Panel Member, National Science Foundation (NSF) Biocomplexity in the Environment Program. 2000 Review Panel Member, United States Department of Agriculture (USDA) Ecosystem Science Grants Program2000 Review Panel Member, National Science Foundation (NSF) Doctoral Dissertation Improvement Grants Program 1999 Member, Scientific Advisory Panel on "Total Land Management", Mining Prospectors and Developers Association of Canada.1996-1997 Guest Editor, Special issue of Evolutionary Ecology (November 1997) on the theme "The population and community dynamical implications of optimal foraging theory" commemorating the 30th anniversary of optimal foraging theory. 1994 - Standing Member, Scientific Advisory Board, Mistik Forest Management Ltd., Saskatchewan, Canada EDITORIAL SERVICE 2002-present Associate Editor, OECOLOGIA (Berlin)1999-present Associate Editor, ECOLOGY & ECOLOGICAL MONOGRAPHS Currently active grant is NSF DEB-0107780 "Perturbation and recovery of an old-field ecosystem".

Mark Schwartz

Professor, Department of Environmental Science and Policy, College of Agriculture, University of California. B.A. Biology and Chemistry from College of St. Thomas (St. Paul, MN); Master of Science in Ecology from the University of Minnesota; PhD in Biology from Florida State University. My current research is focused on five areas: (1) the potential impact of global warming on the distribution of trees in the eastern US; (2) Taxonomic and geographic patterns in the distribution of rare plants and how this affects conservation strategies; (3) economic models of mutualism; (4) the interactions among fire, native herbivores and cattle on Miombo vegetation at the landscape scale; and (5) planning and implementing effective floodplain restoration in the Cosumnes River ecosystem. I spent the 2001-2002 academic year as a program manager at the National Science Foundation (Ecosystems program and Biocomplexity in the Environment). I have been the American editor of Biological Conservation for the past 5 years. I am on the editorial board of Ecology letters. I am a member of the Society for Conservation Biology and the Ecological Society of America. Recent grant support comes from CalFed and from the National Science Foundation

Alan Steinman

Alan Steinman is currently Director of the Annis Water Resources Institute at Grand Valley State University. He oversees the research, educational activities, and outreach at the Institute. Prior to joining AWRI, Steinman was the Director of the Okeechobee Restoration Program at the South Florida Water Management District, where he oversaw a 50-person, $20 million cradle-to-grave restoration program of Lake Okeechobee, its watershed, and the connecting estuaries. This included elements of research, planning, engineering, real estate acquisition, regulation, and outreach. Steinman received his PhD in Botany and Aquatic Ecology at Oregon State University and did his postdoc at Oak Ridge National Laboratory in nutrient cycling and disturbance ecology. Steinman's expertise includes restoration ecology, nutrient cycling, periphyton ecology, and aquatic metabolism. His current research projects include watershed assessment of an economically disadvantaged region, internal nutrient cycling, and developing restoration targets for an Area of Concern in the Great Lakes. He is currently the associate editor of two scientific journals, recently served on the Advisory Board for USGS's contaminants program and MN Sea Grant, and was a member of EPA's nutrient criteria for streams and rivers. Locally, he serves on the Green Infrastructure Task Force for the West Michigan Strategic Alliance and is a member of the Sustainable Water Resources Roundtable. Recent Grant sources: Enhancing the Muskegon River Initiative: fish recruitment at the interface of the Great Lakes and their watersheds. Co-PI. 2004-2007. Funded by Great Lake Fishery Trust. $1,600,000.Watershed Assessment of Mona Lake Watershed. Co-PI. 2002-2004. Funded by Mott Foundation. $100,000.Influence of Cattle Grazing and Land Use on Freshwater Wetlands in Rangeland Ecosystems. Co-PI. 2000-20003. Funded by USDA. $277,211.Lake Okeechobee Restoration Project. PI. 2001-2005. State of Florida. $10,000,000. Lake Okeechobee Restoration Project. PI. 2000-2004. Surface Water Advisory Restoration Grants, State of Florida. $38,500,000. Recent Contracts Managed: Phosphorus Research in a Constructed Wetland. U.S. Geological Survey. 1998-2000. $160,000.

Stephen Trombulak

Steve Trombulak is currently the Albert D. Mead Professor of Biology and Environmental Studies at Middlebury College in Vermont. His B.A. is in Biology (1977, UCLA) and his Ph.D. is in Zoology/Ecology (1983, U. Washington). His area of expertise and research activities include the study of how conservation lands can be integrated into the larger matrix of lands associated with natural resource harvesting and management. He is involved with the Society for Conservation Biology (Board of Governors and the North American Section Board of Governors) and several regional advisory groups, including the Northern Forest Lands Council and the (Vermont) Governor's Forest Resources Advisory Committee. All of his recent contract support has been through The Nature Conservancy and the Vermont Natural Resources Council.

Cynthia Warrick

Dr. Cynthia Warrick is Assistant Professor of Management & Policy Sciences at the University of Texas Houston School of Public Health. Dr. Warrick has been working with poor and minority communities to address the social and environmental determinants of health effects. She has worked nationwide to assist communities with Brownfields redevelopment activities, Federal Facilities redevelopment activities and hazardous site cleanup. Dr. Warrick works with Mayors of small municipalities to develop programs to address brownfields, underground storage tanks, and Superfund sites. She served as an Environmental Justice representative on the FACA Committees on Iron & Steel, Printing, and Metal Finishing, of EPA's Common Sense Initiative. Dr. Warrick was instrumental in assisting with building partnerships and liaisons with industry, state & local government, and environmentalists on these subcommittees. Her current funding is in cancer prevention from the NIH and DOD. She is a member of the National Medical Association Environmental Health & Bioterrorism Task Force. The attached CV documents Dr. Warrick's expertise in policy development and analysis, program management, and academic research. She is interested in serving on the Environmental Health Committee of the EPA Science Advisory Board.

Barry Wilson

Barry Wilson received his BA degree at the University of Chicago, a BS and MS in Biology at the Illinois Institute of Technology and a Ph.D. in Zoology from UCLA in 1962. He has been a member of the College of Agriculture at UC Davis since then, currently at the level of Professor, Step IX. His areas of expertise include neurotoxicology and ecotoxicology. Current research focuses on organophosphate induced neuropathies including Gulf War syndrome, standardization of clinical cholinesterase testing, impact of pesticides on the environment, impact of pesticides on development of cells, birds, fish and mammals. Wilson serves on several California EPA pesticide advisory committees, has just finished a term on the UCD Graduate Council. He is an active member of the Society of Toxicology (SOT) and the Society for Environmental Toxicology and Chemistry (SETAC), both locally and nationally. He is a member of the NIEHS supported UCD Center for Environmental Health Sciences and the NIOSH UCD Center for Agricultural Health and Safety. Additional grant support is from DOD and several California commodity groups.