

**Invitation for Public Comment on the List of Candidates for the
EPA Science Advisory Board (SAB)
Environmental Justice Technical Review Panel**

April 8, 2011

The U.S. Environmental Protection Agency (EPA) Science Advisory Board (SAB) Staff Office announced in a Federal Register Notice (Vol. 76, No. 30 , pp. 8366-67) published on February 14, 2011 that it was forming an expert panel under the auspices of the SAB to provide advice to EPA on technical issues related to Environmental Justice, including the review of the draft *Technical Guidance for Incorporating Environmental Justice into Rulemaking Activities* (Environmental Justice Technical Guidance or EJTG) document. To form the Panel, the SAB Staff Office sought public seeking nominations of nationally and internationally recognized experts with experience and expertise in the following disciplines, especially as they relate to minorities, low-income, and other disproportionately affected populations: environmental exposure, fate and transport, human health risk assessment, toxicology, epidemiology, public health, biostatistics, economics, social and behavioral sciences, and risk communication. The SAB was specifically seeking experts with expertise and experience in assessing cumulative and comparative risk, public health benefits and impacts, equity and disparity impacts, social impacts, and regulatory impacts. The SAB Staff Office has identified 78 candidates based on their relevant expertise and willingness to serve.

The SAB Staff Office Director will make the final decision about who will serve on the Panel based on all relevant information. This will include a review of the confidential financial disclosure form (EPA Form 3110-48), relevant information gathered by staff, and public comments. For the SAB Staff Office, a balanced Panel is characterized by inclusion of candidates who possess the necessary domains of knowledge, the relevant scientific perspectives (which, among other factors, can be influenced by work history and affiliation), and the collective breadth of experience to adequately address the general charge. Specific criteria to be used in evaluating a candidate include: a) scientific and/or technical expertise, knowledge, and experience; b) availability and willingness to serve; c) absence of financial conflicts of interest; d) absence of appearance of a lack of impartiality; e) skills working in advisory committees and panels; and f) for the panel as a whole, diversity of scientific expertise and viewpoints.

We hereby invite comments on the attached List of Candidates for consideration by the SAB Staff Office in the formation of this Panel. Comments should be submitted to Dr. Suhair Shallal, Designated Federal Officer, no later than April 29, 2011. E-mailing comments (shallal.suhair@epa.gov) is the preferred mode of receipt. Please be advised that comments are subject to release under the Freedom of Information Act.

Biosketches for potential candidates of the EJT Review Panel

Abel, Troy

Western Washington University

Dr. Troy D. Abel is an Associate Professor of Environmental Studies at Western Washington University's Huxley College of the Environment where he annually teaches environmental policy, environmental regulation, environmental impact assessment, and environmental policy analysis. He holds a B.S. in Public Health from Indiana University (1990), a Master of Public Administration (1994) and a Ph.D. in Public Policy (1998) from George Mason University. He served on EPA's Lake Michigan Forum from 2003 to 2006 providing advice on the implementation of the Lakewide Management Plan (LaMP). His relevant scholarship includes contributions to both the science of assessing environmental justice and environmental information disclosure. Beginning with a collaborative National Science Foundation (NSF) grant in 1999, Dr. Abel has examined and critiqued the statistical and geographic methods prominent in the social science research on environmental justice. In his forthcoming American Journal of Public Health publication, Dr. Abel and Jonah White present an innovative combination of relative-risk assessment of toxic exposures and the geographic analysis of urban ecology to illuminate environmental injustices in Seattle, WA. This work builds upon two other environmental justice peer-reviewed publications in 2008, fifteen conference papers, a collaborative grant from the EPA exploring "Frontiers in risk applications and policy: teaching and research in environmental science," and the collaborative project "Social Vulnerability Analysis: Spatial and Hazard Screening of Toxic Chemical Releases" from 1999-2002 funded by the National Science Foundation (NSF). Dr. Abel was also a co-principal investigator on a four year NSF grant from 2003 to 2007 funded by the program in Decision Risk and Management Science to examine information disclosure and environmental decision making. This grant informed his recently co-authored MIT Press book Coming Clean: Information Disclosure and Environmental Performance. Dr. Abel enters his tenth year as the American Editor of the International Journal of Environment and Pollution and a member of the editorial board of the International Journal of Global Environmental Issues.

Adamkiewicz, Gary

Harvard School of Public Health

Dr. Gary Adamkiewicz is a Research Scientist at the Harvard School of Public Health (HSPH) where most of his work focuses on housing, indoor environmental exposures and health. He is currently leading several federally-funded research projects which inform our understanding of disparities in environmental exposure. This work builds on his 20 years of experience in the assessment of environmental problems. He is particularly interested in research that aids practitioners in solving indoor environmental health problems, especially within low-income communities. This work has included studies of indoor environmental conditions within the homes of children with asthma, and studies that aim to understand the mechanisms that contribute to disparities in specific exposures such as: pesticides and other chemicals, allergens, secondhand smoke and combustion by-products. Dr. Adamkiewicz has worked with the National Center for Healthy Housing, the U.S. Environmental Protection Agency, the Boston Housing Authority, the U.S. Department of Housing and Urban Development and the Rhode Island Department of Health on projects that aim to address key indoor environmental issues. He has also served as an advisor to the World Health Organization's effort to establish indoor air quality guidelines. Dr. Adamkiewicz holds a Ph.D. in chemical engineering from the Massachusetts Institute of Technology and a Master of Public Health from the Harvard School of Public Health. He also received post-doctoral training in respiratory and environmental epidemiology at Harvard Medical School.

Adler, Matthew

Present University of Pennsylvania Law School

Matthew Adler is Leon Meltzer Professor of Law, University of Pennsylvania. He has also been a visiting professor at the law schools of Columbia University, the University of Chicago, and the University of Virginia, and will be a visiting professor at Duke Law School in the fall of 2011. His scholarship focuses on public law, in particular problems of policy analysis and risk regulation, and draws upon both economics and philosophy. He is an editor of Legal Theory, the leading journal in the area of law and philosophy. Adler is the author of numerous articles and several books, including New Foundations of Cost-Benefit Analysis (Harvard U. Press 2006, with Eric Posner); Cost-Benefit Analysis: Legal, Economic, and Philosophical Perspectives (University of Chicago Press 2000, edited with Eric Posner); and Well-Being, Fair Distribution, and Policy Choice: A Defense of the Social Welfare Function (Oxford U. Press forthcoming 2011). His current work addresses the use of social welfare functions and other equity metrics to incorporate distributive considerations into policy analysis. Adler received his law and undergraduate degrees from Yale University, and a master's degree in history from Oxford University, where he was a Marshall Scholar. Following law school, Adler served as a law clerk for Judge Harry Edwards and Justice Sandra Day O'Connor.

Akaba, Azibuike

Public Health Institute

Mr. Akaba manages the Land Use and Transportation project for RAMP and to promote interdisciplinary research, lecturing and outreach on the environment at The Public Health Institute. He has maintained an affiliation with American Public Health Association and he sits on the Board of the Rose Foundation. He is a member of the board of social equity and civic engagement. His main research interests include examining climate impacts, vulnerability and adaptation from an environmental justice perspective. He also studies the public health impacts of climate change on vulnerable populations in the U.S. and abroad. He has provided technical assistance for environmental justice communities nationwide and internationally. Azibuike is a graduate of the New College of California and has trained as a certified medical technologist at the Letterman Army Institute of Research.

Andress, Lauri

Andress & Associates

Dr. Andress has dedicated her career to public service. She considers herself a policy analyst with academic credentials who is able to link scholarly work to social issues. Her goal is to create a better society by connecting research and academic learning to community concerns and eventually public considerations. Dr. Andress formerly served as the Director of the Center for Health Equity at the

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Louisville Metro Department of Public Health and Wellness, which was the first program of its kind at the local public health level in the United States. She also previously served as an assistant professor of health promotion and behavioral sciences, at the University of Louisville School of Public Health and Information Sciences. One of the leading experts on "health equity readiness", Dr. Address developed the concept through her research and work. In the past she has advised public health departments on policies, programs, and competencies related to health inequities. Under Dr. Address' guidance, after three years of intensive planning, the Center for Health Equity in Milwaukee launched in 2009. Dr. Address lectures on the public policy process, public health laws and policies, social determinants of health, policy framing, and community organizing. Her research interests have included: building and measuring civic capacity; the study of state-level policies on the organization of public health services; the effects of power on marginalized communities; a comparison and analysis of social capital and community building as levers for improved population health; framing public health policies and agenda setting for the social determinants of health in the United States and Britain. For more than twenty years, she has provided community, media, and government relations to various non-profit organizations, government agencies, and elected officials. Dr. Address has worked for one of the leading U.S. experts on population health, Dr. Alvin Tarlov, at the Texas Program for Society and Health at the Baker Institute for Public Policy, Rice University. As the Director of Operations & Strategic Political Action, her work focused on research and policy initiatives related to the social determinants of health. During her career, she has served as public information officer for Houston's Department of Health and Human Services; a legislative aide and press secretary in the United States House of Representatives (Texas 18th Congressional District); special projects coordinator for State District 25, Texas House of Representatives; and, Chief of Staff in Houston's City Council-At-large Position 1. In 1997 she served as executive director for a non-profit community-based organization whose mission was to raise awareness about and advocate for the needs of a marginalized community in Galveston, Texas. Dr. Address received her doctorate in Community Health Science with a concentration in management and policy sciences from the University of Texas. She also received her master's in public health from the University of Texas and holds a law degree from South Texas College of Law where she received the Vinson & Elkins Public Interest Fellowship. Dr. Address has worked as a journalist and copy editor for several Texas newspapers. She served on the editorial board of a local Texas paper contributing to policy discussions and writing several editorials for the news paper.

Arvai, Joseph

Michigan State University

Dr. Joe Arvai is the Svare Chair in Applied Decision Research in the Haskayne School of Business, and the Institute for Sustainable Energy, Environment, and Economy at the University of Calgary. Prior to joining the University of Calgary in 2011, he was on the faculties of Michigan State University (2006-2010) and The Ohio State University (2001-2005). He received his PhD in the decision sciences from the University of British Columbia and he also holds degrees in Ecology and Oceanography (BSc and MSc, respectively). Dr. Arvai's research focuses on advancing our understanding of how people process information and make decisions, both as individuals and in groups. A second objective of his research is to develop and test decision support tools that can be used by people to improve decision quality across a variety of social, environmental, and economic contexts. A central focus of his recent research is decision making and risk management in minority and marginalized communities. To this end, he has led research on the subjects of chronic loss in minority communities international, and community development initiatives (e.g., in Tanzania, Costa Rica, and the high Arctic). To support his research, he has received funding from the U.S. National Science Foundation, the National Aeronautics and Space Administration, as well as several other governmental, private, and not-for-profit sponsors. Dr. Arvai has also received several awards for his research. In 2006, he was awarded the Recipient of the Chauncey Starr Award from the Society for Risk Analysis, which each year honors the individual aged 40 or under who has made most exceptional contributions to the field of risk and decision analysis. And in 2011, he was named a Leopold Leadership Fellow by the Woods Institute for the Environment at Stanford University. Dr. Arvai's home is in Calgary but he works across the United States, Canada, and internationally as an advisor to various government agencies and non-profit groups; in this capacity, he has worked as an advisor to NASA, the International Energy Agency, the US EPA's Science Advisory Board, the National Academy of Sciences, and Natural Resources Canada.

Ash, Michael

University of Massachusetts Amherst

Dr. Michael Ash is Associate Professor of Economics and Public Policy at the University of Massachusetts Amherst with appointments in the Department of Economics and the Center for Public Policy and Administration. Dr. Ash received his bachelor's degree in Economics from Princeton University (1991) and his Ph.D. in Economics from the University of California, Berkeley (1999). In 1991-1992, Ash was Princeton Project 55 Research Fellow at the Trenton Office of Policy Studies (Trenton, NJ). In 1995-1996, Ash served as Staff Labor Economist for the Council of Economic Advisers (Executive Office of the President). In 2007, Ash was a Fulbright Fellow to Hungary and gave lectures in environmental economics and policy at Central European University and Corvinus University (Budapest). At UMass Amherst, Ash co-directs the Corporate Toxics Information Project. He is an expert on the use of pollutant release and transfer registers, such as the U.S. EPA's Toxics Release Inventory, for the analysis of environmental justice (EJ). Ash developed the first peer-reviewed indicator of corporate environmental justice performance. In addition to publication in peer-reviewed journals, Ash publishes on EJ for popular audiences and has offered workshops in EJ analysis for the Environmental Council of the States. Ash's research also examines racial, ethnic, and class disparities in health and health care.

Bannerman, Erica

City of Alexandria, VA

Ms. Erica Bannerman currently works as a Senior Environmental Specialist for the City of Alexandria, VA. She has worked as an environmental professional for more than 11 years in the public and private sectors performing policy development, strategic planning, and project management activities for air quality, energy, climate change, green building, and other sustainability initiatives. Erica is the co-founder of GreenTHINK, a network dedicated to empowering individuals - specifically the socially and economically disadvantaged - to critically think about the challenges to living sustainably and to collectively retool their skills to promote and build sustainable communities. She has served as a vice president of the Board of Directors for Groundwork Anacostia River DC and the Washington, D.C., chapter of the National Organization of Minority Architects. In 2010, Erica was appointed by Administrator Lisa Jackson of the

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Environmental Protection Agency to the National Advisory Council for Environmental Policy and Technology. The Council was established in 1988 to provide independent advice to the Administrator on a broad range of environmental policy, technology and management issues. In 2011, she was selected by the Center for Progressive Leadership to participate in their Executive Leaders Fellowship program. Erica currently holds a Master of Science in Natural Resource Management/Urban Sustainability from Virginia Polytechnic Institute and State University and a Bachelor of Science in Earth/Environmental Science from North Carolina Agricultural and Technical State University. In 2008, she traveled to the Republic of Fiji to research environmental and social sustainability initiatives and was inducted into the invitation-only Golden Key International Honor Society for her academic work performed in the country.

Banzhaf, Spencer

Georgia State University

Dr. H. Spencer Banzhaf is an Associate Professor of Economics at Georgia State University. He received his PhD in economics from Duke University in 2001. Banzhaf's research focuses on environmental economics and policy analysis. More narrowly, much of his work studies the interactions between local environmental amenities, local real estate markets, and the demographic composition and structure of cities. In particular, he has studied the way these social mechanisms interact to drive the correlations between pollution and poor households, as described by the "Environmental Justice" movement. He is currently editing a book volume on the Political Economy of Environmental Justice. Banzhaf's other work has been published in journals such as the American Economic Review, International Economic Review, Journal of Environmental Economics and Management, Journal of Urban Economics, and History of Political Economy. He is a co-author of Environmental Policy Analysis with Limited Information (Elgar 1998) and co-editor of Keeping Faith, Losing Faith: Religion and Political Economy (Duke University Press 2008). Prior to joining Georgia State in 2006, Dr. Banzhaf was a fellow at Resources for the Future. He is a Research Associate in the National Bureau of Economic Research (NBER) and a Senior Research Fellow at the Property and Environment Research Center (PERC).

Briggum, Sue

Waste Management

Sue Briggum, Ph.D., J.D., is Vice President of Federal Public Affairs for Waste Management and has served on federal advisory committees analyzing means to promote environmental justice continuously since 1993. She served as co-chair of the U.S. EPA's National Environmental Justice Advisory Council's (NEJAC's) work groups publishing the consensus reports, Nationally Consistent Environmental Justice Screening Approaches (2010) and Ensuring Risk Reduction in Communities with Multiple Stressors (2004). She was a member of the NEJAC work groups authoring the 1999 and 2011 (publication pending) reports on Environmental Justice in Permitting. These reports represent the consensus views of a broad base of stakeholders on the methodologies and means through which U.S. EPA should address disproportionate environmental and public health impacts in the environmental regulatory context. Her analysis of one corporate demographic footprint employs the methodology used in the academic literature on environmental justice and is published in the Waste Management 2010 Sustainability Report. In addition to her work on seven major NEJAC reports to the U.S. EPA Administrator, Dr. Briggum was co-chair of the National Environmental Policy Commission convened by the Congressional Black Caucus Foundation Environmental Justice Braintrust, was Vice-Chair of the American Bar Association Individual Rights and Responsibilities/Environment Committee on Environmental Justice, and has testified before the Congressional Black Cause and the Equal Employment Opportunity Commission (EEOC) on environmental justice. Dr. Briggum received her Ph.D. in English Literature from the University of Wisconsin at Madison and her J.D. from Harvard University.

Bui, Linda

Brandeis University

Dr. Linda Bui received her Ph.D in economics from M.I.T. in 1993 and is currently an Associate Professor of Economics at Brandeis University. She has taught at Boston University, the University of Michigan, MIT, and the Sloan School of Management. Professor Bui has done work in the area of environmental regulation and its effects on firm-level behavior, strategic environmental behavior between autonomous countries in the context of trans-boundary pollution, and the effectiveness of public disclosure as a regulatory instrument for the environment. Dr. Bui's current research focuses on health outcomes and the environment.

Buzzelli, Michael

The University of Western Ontario

Dr Michael Buzzelli is Professor at the University of Western Ontario and has held prior appointments at UBC, as Queen's National Scholar and as Urban Studies Visiting Fellow at the University of Glasgow. Dr. Buzzelli has been the lead investigator on a number of research and knowledge translation projects including the Health Canada Border Air Quality Strategy (British Columbia and Washington State) aimed at Canada-US negotiations of air quality standards. At the Canadian Policy Research Networks Dr Buzzelli was Director of Housing and Environment and was the CPRN/SHSC Housing Scholar in the Housing Internship Scholar Programme in 2008 and 2009. That programme is the nationally recognised leader in the development of policy research capacity in housing and related fields and has led to over 100,000 downloads of Intern's reports to date. Among his current lead investigator projects is the SSHRC-funded dissemination project "The Canadian Environmental Health Atlas" that includes Statistics Canada, Simon Fraser University and Toronto's Mount Sinai Hospital. His policy reports include "GIS and spatial analysis in epidemiology and public health research" (for Health Canada, 2005), "Local air quality issues and environmental justice in the Greater Vancouver Regional District" (2004) and "Is it possible to measure the value of social housing?" (Social Housing Services Corporation, 2009).

Camner, Irene

City of Chicago, Department of Water Management, IL

Irene Camner is the Assistant Commissioner, Director of Legal Services and Legislative Liaison for the City of Chicago Department of Water Management. As a decision maker in a diverse metropolitan city, Ms. Camner is actively involved in integrating environmental

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and community concerns in her work and routinely engages community groups and the public during public meetings about issues related to water and the department. Ms. Caminer implemented the city's on-line ethics training for her department. Ethics is always a consideration for projects, especially at the Commissioner's Office level to ensure the best use of taxpayer money, fair treatment of employees and safe procedures for operations. She co-implemented environmental compliance actions for approximately 24 facilities of the department. This implementation included the development of safety protocols, procedures and timely reporting. Currently, she is the project manager for the city's MeterSave program, which seeks to help homeowners citywide conserve water and save money. As an attorney, she is skilled in considering laws, regulations and policies from multiple angles related to the needs of the city.

Castillo-Salgado, Carlos

Johns Hopkins University

Dr. Carlos Castillo-Salgado is an Associate Professor of the Department of Epidemiology of the Bloomberg School of Public Health with joint appointments in the Department of Health Policy and Management and the School of Medicine, Johns Hopkins University. Also, Dr. Castillo-Salgado is a Courtesy Professor of the College of Public Health, University of South Florida, Invited Professor of the National Institute of Public Health, Mexico and Visiting Professor in most of the schools of public health in Latin America and Spain. He received a J.D. with Honorable Mention in 1972 from the Law School of the Universidad Autonoma de Guadalajara, an M.D. (Médico Cirujano) in 1978 from the Facultad de Medicina, Universidad Nacional Autónoma de México, an M.P.H. and Dr.PH. for the School of Hygiene and Public Health, Johns Hopkins University (1981 and 1988). He is board certified in Public Health (CPH) from the National Board of Public Health Examiners and Member of the NBPHE's Charter Class (2008). Currently, Dr. Castillo-Salgado is the Director of the Observatory of Epidemiology of the Bloomberg School of Public Health and Director of the Certificate Training Program in Epidemiology for Public Health Managers. He has served in several technical positions at the Pan American Health Organization/World Health Organization. From 2005-2010 he was the Senior Special Advisor, Forum for Public Health in the Americas. The three main technical cooperation areas of the Forum were: Measuring Health Inequalities in the Americas; Developing Public Health Metrics, and Implementing Equity Focused- Health Impact Assessments for the Ministries of Health in Latin America and the Caribbean. He has been a scientific and technical consultant for many intergovernmental organizations in the areas of health information systems, measuring health inequalities, geographic information systems, epidemiological risk assessment and health impact assessment. Dr. Castillo-Salgado is the author of several scientific publications and articles of epidemiology, measuring health inequalities, global surveillance and public health. From 1999-2006, he served as the Editor in Chief of the PAHO/WHO Epidemiological Bulletin. Since 2002 he is member of the Publication Board of the American Public Health Association (APHA). In 2007 he was elected as Member of APHA's Governing Council, representing the International Health Section. He serves on the Advisory Committee of the Institute of Epidemiology and Biostatistics of the Bloomberg School of Public Health and on the National Advisory Board of the School of Community Health, Morgan State University. He is member of multiple professional associations in epidemiology and public health and board member in several community organizations. He has received many national and international honors and awards for his leadership in epidemiology and public health.

Chaisson, Christine

The LifeLine Group

Dr. Christine F. Chaisson has directed The LifeLine Group's work to develop state-of-the-art, useful exposure and risk assessment tools and make them freely available to all stakeholders. The LifeLine Group has succeeded in creating software for aggregate and cumulative assessment and most recently for community based assessments, making the models relevant to unique communities and portraying the distribution of risk across populations, identifying the bearers of disproportionate exposure and risk. Dr. Chaisson and The LifeLine Group scientists have long championed the efforts and scientific approaches needed to bring risk assessment to this task and to empower risk managers with an understanding of the options and consequences of potential risk mitigation options on the balance of risk across the populations. Dr. Chaisson is an alumnus of Boston University and George Washington University (Ph.D 1982). She has worked for government (US EPA as Acting Chief of Toxicology, Office of Pesticides), industry and industry consultancy as the co-founder Technical Assessment Systems (TAS), which became a premier exposure/risk assessment consulting firm internationally. Through these venues, she brought new approaches to contemporary problems, developing or employing assessment capabilities such as population subgroup specificity, better dietary consumer product risk assessment, and development and use of human activity patterns. Dr. Chaisson has advised governments and industry on prioritizing risk approaches and utilizing existing relevant information about chemical usage and people's activities which create the exposure opportunities underlying variability in risk across populations. The LifeLine Group was formed in 2000 by Dr. Chaisson and selected colleagues as a non-profit dedicated to advancing this kind of work and making it freely available to all interested parties. Although initially a politically controversial idea, The LifeLine Group made the same state-of-the-art assessment software used by big industry and government available to students, advocates, communities, tribes and aid organizations. These software and the scientific approaches are now in use in other countries for assessing risk to unique populations and visualizing the disproportionate impact on selected subpopulations. Dr. Chaisson has also designed the application of such assessments for Mexican-influenced communities, tribal communities in the plains and southwest US, Alaskan communities and Canadian First Nations communities in the arctic regions. Dr. Chaisson is a Co-Chair of the upcoming international conference "Emerging Exposure Science for Developing Chemical Regulatory Policy" to be held in Milan, Italy in May 2011. Her leadership in the sciences of toxicology, exposure and risk assessment has spanned 30 years with previous officer roles in the Society of Risk Assessment, International Society of Exposure Sciences, has published over 50 articles, book chapters, monographs, and white papers. She is a frequent speaker at professional gatherings in North America and Europe, has served on advisory boards of businesses, universities and professional publications, and mentored several undergraduate and graduate students.

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Collin, Robert

Willamette University

Robert W. Collin is an experienced multi disciplinary scholar with advanced degrees in law, social work, and urban planning. He received his BA in Natural and Social Science from Buffalo State University, his Juris Doctor from Albany Law School, his Masters of Science in Social Work from Columbia University, his Masters in Urban Planning from Columbia University, and his Masters of Law from the University of Missouri. He has taught and published in all three areas. He wrote one of the first Environmental Justice law review articles, was among the in the first Environmental Justice advisory committee appointments to EPA by Carol Browner, and one of the first expert witnesses on Environmental Justice in a US federal court. He authored the first narrative reference and still only book on the EPA – The US Environmental Protection Agency: Cleaning Up America's Act, the first encyclopedia of environmental controversies - Battleground: Environment(2 volumes) and the first Encyclopedia of Sustainability(3 volumes), with Robin Morris Collin. He has numerous publications on environmental justice, and on sustainability. He has worked at Hunter College, Tulane University, Cleveland State University, Jackson State University, University of Virginia, University of Auckland – New Zealand, Cambridge University – England, the University of Oregon, Lewis and Clark College, and Willamette University. He has served on many nonprofit boards, and local, state, and federal commissions. He was appointed as a Planning Commissioner in Lane County, Oregon. He served on the Oregon Environmental Justice Advisory Commission and the current Environmental Justice Task Force, which he chaired in 2010. The Oregon Environmental Justice Task Force received an award from the US EPA in 2010 for facilitating state agency collaboration around environmental justice issues. He has also served as an external peer reviewer of EPA's cumulative risk assessment methodology at the request of EPA, focusing on an Environmental Justice perspective. (in the Federal Register) In one federal advisory appointment (Common Sense Initiative) his subcommittee developed a multistakeholder, emissions driven, sector based permitting program. This group was awarded the Hammer Award from Vice President Al Gore for cleaner, cheaper, and smarter solutions. More recently he was appointed by to the National Environmental Justice Advisory Council (another FACA), where his subcommittee focused on the unintended consequences of urban development programs on Environmental Justice communities. Currently he is the Senior Research Scholar at the Center for Sustainable Communities and Adjunct Professor of Law at Willamette University College of Law, and is active in the Oregon Environmental Justice Task Force. This particular task force is a product of legislation, and the recipient of one of the 2010 EPA awards. He published a law review article describing it entitled, "Environmental Justice in Oregon: It's the Law".

Cory, Dennis

University of Arizona

Dr. Dennis C. Cory is Professor of Environmental Law and Economics at the University of Arizona. He holds a Ph.D. in economics from Iowa State University and has been a member of the faculty in agricultural and resource economics at the University of Arizona since 1977. He has been a visiting scholar at the University of Portici in Naples, Italy, the New University of Lisbon in Portugal, the University of Reading in England, and La Sapienza College of Law at the University of Rome. Dr. Cory has received the Best Published Research Award from the Western Agricultural Economics Association, and has served as Head of the Department (1996-2001) and President of the Western Agricultural Economics Administrators Association (2000). His current field of research interest is environmental law and economics. For the past five years he has been conducting research on environmental justice issues in Arizona. Recently completed projects on environmental justice have involved the documentation of disparate-impact discrimination in the context of siting potentially polluting activities, enforcement of the Safe Drinking Water Act, and remediation of CERCLA/WQARF sites in Arizona. He is coauthor of the book (in progress) "ENVIRONMENTAL JUSTICE AND FEDERALISM: Federal-State Relationships in the Siting, Regulation, and Remediation of Polluting Activities."

Cory-Slechta, Deborah

University of Rochester

Dr. Deborah Cory-Slechta received her Ph.D. degree from the University of Minnesota in 1977 and worked as a junior staff fellow of the National Center for Toxicological Research beginning in 1979. She was appointed to the faculty of the University of Rochester Medical School in 1982 was appointed Chair of the Department of Environmental Medicine and Director of the NIEHS Environmental Health Sciences Center at the University of Rochester in 1998. From July 2000- July 2002, she was the Dean for Research and Director of the AAB Institute for Biomedical Sciences, a newly established post at the University and as such, became the first female dean in the history of the Medical School. From 2003-2007 she served as Director of the Environmental and Occupational Health Sciences Institute (UMDNJ/Rutgers) and Chair of the Department of Environmental and Occupational Medicine at the Robert Wood Johnson Medical School (UMDNJ). In 2007, she returned to the Department of Environmental Medicine at the University of Rochester School of Medicine where she serves as Professor. Her research has focused largely on environmental neurotoxicants as risk factors for behavioral disorders and neurodegenerative disease. Currently she has also begun to examine mixtures of neurotoxic chemicals and risk modifiers for effects of neurotoxicants, including factors such as stress and those related to low socioeconomic status as well. These research efforts have resulted in over 120 papers and book chapters to date. Dr. Cory-Slechta has served on numerous national research review and advisory panels, including committees of the National Institutes of Health, the National Institute of Environmental Health Sciences, the Food and Drug Administration, the National Center for Toxicological Research, the Environmental Protection Agency, the National Academy of Sciences, the Institute of Medicine, and the Agency for Toxic Substances and Disease Registry, Centers for Disease Control. In addition, Dr. Cory-Slechta has served on the editorial boards of several journals including Neurotoxicology, Toxicology, Toxicological Sciences, Fundamental and Applied Toxicology, Neurotoxicology and Teratology, and American Journal of Mental Retardation. She has held the elected positions of President of the Neurotoxicology Specialty Section of the Society of Toxicology, President of the Behavioral Toxicology Society, and been named a Fellow of the American Psychological Association.

Craft, Elena

Environmental Defense Fund

Dr. Elena Craft, Health Scientist, is the chief toxicologist at Environmental Defense Fund, a non-profit, non-governmental, and non-

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partisan environmental organization. Dr. Craft's background is in molecular toxicology and she holds a M.S. degree in toxicology from NC State University, and a PhD from Duke University. Her research experience includes work at both the US EPA as well as the National Institute of Environmental Health Sciences, where she studied the health effects resulting from exposure to environmental pollutants such as PCBs, dioxins, and metals. For many years, Dr. Craft has worked to identify, monitor, and mitigate risk from environmental pollution in highly industrial areas, most specifically around port areas and petrochemical facilities. The citizens who live and work near this massive petrochemical complex are exposed to a disproportionate burden of health risks, as many of the areas surrounding these facilities are pollution "hotspots," where the concentrations of specific pollutants in the areas exceed the state's health-based screening level guidelines. In the course of her work, Dr. Craft has served in a variety of capacities to advise local, regional, and national planning organizations on a diverse set of environmental and environmental justice issues, including serving as the vice-chair for the Houston Regional Air Quality Planning Committee, advisor to the Clean Air Task Force of Central Texas, and advisor to the Texas state environmental agency in developing a remediation program for pollution hotspot areas around the state. In addition, Dr. Craft has participated in research endeavors regarding the health effects associated with living in areas where the concentrations of certain pollutants exceed state-adopted health-based screening guidelines, most recently presenting her efforts at the Society of Toxicology Annual meeting on incorporating risk assessment methods as a practical tool for assessing health risks from environmental exposures. Dr. Craft has testified at a number of national hearings, given lectures at a number of universities, and has been interviewed by local, national, and international media on environmental issues, presenting scientific information from a health-based perspective. She is also a member of the Society of Toxicology and has authored several peer-reviewed papers.

DiBartolomeis, Michael

California Department of Public Health

Dr. Michael J. DiBartolomeis, PhD, DABT, is a toxicologist and biochemist by training and has over 26 years of professional experience practicing in the environmental and occupational health fields, conducting human health risk (impact) assessment, and contributing to chemical policy development. Dr. DiBartolomeis currently directs both the California Safe Cosmetics Program and the Occupational Lead Poisoning Prevention Program in the California Department of Public Health. Both programs address workplace and environmental justice issues related to exposures to toxic substances and Dr. DiBartolomeis encourages collaboration with environmental justice partners in the state. Prior to joining the health department in November 2004, he headed the Pesticide and Food Toxicology Program and the Community Environmental Health Program in Cal/EPA's Office of Environmental Health Hazard Assessment where for over 15 years he was responsible for addressing issues related to pesticide use and safety and community environmental health impact assessment. In 1991-94, Dr. DiBartolomeis directed the California Comparative Risk Project, which was the first of such U.S. EPA-sponsored projects in the nation to form an independent environmental justice review committee. Following the recommendation of this committee and environmental justice communities and organizations in the state, the California Legislature passed a bill in 2000 mandating Cal/EPA to form an Advisory Committee on Environmental Justice. Dr. DiBartolomeis served on the Cal/EPA inter-agency working group on environmental justice in 2003-04. He also served for four years on U.S. EPA's National Environmental Justice Advisory Council and chaired the Environmental Justice Working Group of U.S. EPA's Forum on State and Tribal Toxics Action from 1995-1997. Dr. DiBartolomeis earned his doctorate degree in environmental toxicology from the University of Wisconsin in Madison, is certified by the American Board of Toxicology, and has presented original research and scientific assessments in over 270 peer-reviewed publications, conference proceedings, government publications, and consultant reports. His professional interests include reforming chemical management policy in the United States and internationally to integrate principles of environmental justice, environmental and occupational health, biological monitoring, safer chemical alternatives, and precaution into environmental decision-making.

Duren, Debbie

Tennessee Department of Environment and Conservation

Ms. Debbie Duren is currently the Natural Resource Damage Assessment Program Manager with the Tennessee Department of Environment and Conservation. She has been with the department for over 20 years and has also served as Bureau of Environment Special Projects Coordinator and Division of Underground Storage Tanks Corrective Action Program Manager. She has a B.S. degree in Civil Engineering from Tennessee Technological University. She has specialized in the evaluation of natural resource injuries and their public impact and development and implementation of risk-based corrective action. She is trained in risk communication. Ms. Duren has managed a variety of projects, including development of technical guidance for performance of natural resource damage assessments, development of technical guidance for performance of risk-based corrective action activities for underground storage tanks, and development of technical regulations and policies. She is currently serving on several trustee councils, including those in low-income impacted areas. Ms. Duren has been active with a variety of national programmatic and regulatory advisory groups, including the Association of State and Territorial Solid Waste Management Officials (ASTSWMO) Leaking Underground Storage Tanks Task Force and the ASTSWMO and Association of Fish and Wildlife Agencies Natural Resource Damage Assessment Subcommittees. She is also currently a member of the Executive Committee of the State and Tribal Government Working Group.

Durkin, Thomas

Lake Mountain Ltd

Dr. Tom Durkin earned his Sociology PhD at the University of Chicago, with emphases on Law & Justice and Organization Theory. He is currently an adjunct professor at Northwestern University's Master in Public Policy program, as well as Research Director for Lake Mountain Ltd. He has taught qualitative and quantitative research methods for 20 years. While teaching at the University of Florida, Tom became Associate Director of the Private Prison project, and was especially interested in the transition of prisons (both public and private) from NIMBYs to valued community asset.

Egan, Virginia (Gini)

Lesley University

Virginia (Gini) Egan, Ph.D., is adjunct faculty at Lesley University, Cambridge, MA, in the Environmental Studies Program of the

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Graduate School of Arts and Social Sciences, where she teaches Environmental Justice as part of the Urban Environmental Leadership concentration. Her principal research interests are in the areas of US and global drinking water issues, watershed management and restoration, and Native American and artisanal fisheries, with an emphasis on community decision-making and policy development in these areas. Dr. Egan's Ph.D. dissertation (2007) examined three phases of negotiated settlement of the legal, administrative and community-based issues involved in developing a restoration plan for the Elwha River that would ensure both environmental justice for the Lower Elwha Klallam Tribe and continued conservation and protection of Olympic National Park for all Americans. Prior to her dissertation research, Dr. Egan worked for several consulting firms and nonprofit organizations, including Native American firms and nonprofits, and has addressed several major community development and environmental justice issues affecting urban, rural and tribal communities. Environmental justice has been a central theme in her applied work. For Physicians for Social Responsibility, she contributed several articles on environmental justice as editor of their Health Research Bulletin. She also advocated for and helped to develop an environmental justice work plan for the Crandon Mine EIS (2005), and has conducted applied grassroots work with communities experiencing environmental contamination from radiation sources, including Laguna and Acoma Pueblos (environmental and environmental health effects of uranium mining and tailings) and Paducah, Kentucky (plutonium spent fuel rod reprocessing). She has served on the Management Board of the Military Production Network during its transition to a free-standing 501(c)(3), and subsequently on its new Board of Directors as the Alliance for Nuclear Accountability. She currently serves on the Board of Directors of Blue Kitabu, Boston, MA. Dr. Egan previously taught at the School for International Training (SIT), World Learning Institute, in Brattleboro, Vermont, in SIT's Sustainable Development Masters program. In addition to New England, Dr. Egan spent 9 years in Colorado, conducting research in several western and southwestern states; and lived in Washington State for 5 years while conducting her dissertation research.

Eppstein Tang, Christine

City Of New Haven, CT

Christine Eppstein Tang became the Director for the Office of Sustainability, City of New Haven in February, 2010. She is tasked with coordinating the City's sustainability efforts, especially with respect to energy efficiency & conservation, recycling and improvement of air quality. In doing so, she works collaboratively with community groups, including the New Haven Environmental Justice Network. Prior to joining the city government, Christine worked in Washington, DC, and later in New York City, as a Vice President of Corporate Social Responsibility & Sustainability for McGuireWoods, an international law firm with a consulting group. In parallel, Christine served as Community Affairs Director to Smithfield Foods, where she built relationships for the company with key stakeholders in government, industry, associations, and environmental justice groups to advance corporate responsibility objectives. Christine has an environmental policy background. As an executive project manager at the Environmental Council of the States (ECOS), the national association of state cabinet-level environmental commissioners, she worked for seven years with state and federal officials on environmental policy issues, including pollution prevention, and children's environmental health. While there, she led the multi-group effort that culminated in the report CATCHING YOUR BREATH: Strategies to Reduce Environmental Factors that Contribute to Asthma in Children. Christine serves on the Board of Directors of the U.S. Partnership for Education for Sustainable Development, an organization created to integrate sustainable development fully into education and learning in the United States, in response to the UN General Assembly resolution instituting the Decade of Education for Sustainable Development. Christine has a law degree from Universitatea Ecologica Law School in Bucharest, Romania, and a Master in Environmental Law from the George Washington University Law School in Washington, DC. She also completed an Executive Education program at the Harvard Business School on Corporate Social Responsibility (CSR): Strategies to Create Business and Social Value.

Farrow, Scott

University of Maryland - Baltimore County

Dr. Scott Farrow is Professor and Chair of the Department of Economics at UMBC, a part of the University System of Maryland. Previously he was the Chief Economist of the US Government Accountability Office (GAO) and has been on the faculty at Carnegie Mellon University and the Pennsylvania State University. Dr. Farrow received his Ph.D. and M.A. in Economics from Washington State University and his B.A. from Whitman College. His work focuses on the economic and risk based evaluation of government programs including methods to incorporate environmental justice, distributional impacts, and sustainability into benefit-cost analysis. He has published numerous articles in journals including The Journal of Political Economy, The Review of Economics and Statistics, the Journal of Environmental Economics and Management, Ecological Economics, Land Economics, Risk Analysis, the Journal of Benefit-Cost Analysis, the Journal of Economics and Development and has co-edited a book on environmental, health and safety regulation titled Improving Regulation, published by Resources for the Future Press.

Farzin, Hossein

University of California, Davis

Dr. Y. Hossein Farzin is professor in the Department of Agricultural and Resource Economics at the University of California, Davis, where he conducts research on environmental and resource economics and teaches environmental and natural resource economics. He received his M.Phil. and D. Phil. in economics from Oxford University, U.K. Before coming to UC Davis in 1996, he was an economist at the World Bank, and held visiting and faculty positions at the economics departments of American University, Georgetown University, and University of Surrey (U.K.). Professor Farzin's areas of research have focused on environmental stock externalities, carbon tax and timing of climate change control policies, industry and welfare effects of environmental policies, environmental policy uncertainty and green technology adoption, nonpoint source pollution control, discount rate and resource depletion, resource scarcity measures and technological change, policies for sustainable development of resource based economies, and energy economics. His research has been published in top-tier peer reviewed professional journals, including Economic Journal, Energy Journal, Journal of Environmental Economics and Management (JEEM), Journal of Development Economics, environmental and resource Economics, Journal of Economic Dynamics and Control, Journal of Political Economy, Journal of Public Economics, Journal of Public Economic Theory, and Oxford Economic Papers. He is the author of Competition in the Market for an Exhaustible Resource, JAI Press, 1986. His current areas of research include economics of water quality in California, lobbying and environmental legislation, sustainability, green national income

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accounting and welfare, market imperfection and environmental quality standards, the role of information in nonpoint source pollution management, and flexibility mechanisms and the Kyoto GHG emissions targets. Professor Farzin is the associate editor of Review of Development Economics, and is on the editorial boards/councils of the Journal of Environmental Economics and Management (JEEM), Environment and Development Economics, and Environmental Economics and Policy Studies. He served as the co-chair of the Program Committee of the 3rd World Congress Environmental and Resource Economics, Tokyo, 2006, and has been the member of the scientific program committee of the European Association of Environmental and Resource Economists (EAERE) and a Research Fellow of the Rural Development Research Consortium (RDRC), UC Berkeley.

Faust, John

California Environmental Protection Agency

Dr. John B. Faust serves as a staff toxicologist in the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment in Oakland, California. He is a graduate of Virginia Tech (B.S., Biochemistry, 1985) and Duke University (Ph.D. Pharmacology/Toxicology, 1990). Dr. Faust has provided technical expertise to the office in the areas of toxicology, carcinogenic mode of action, dose-response assessment, and risk assessment. Since 2004, Dr. Faust has served as the project manager for the California Environmental Protection Agency's efforts, under its Environmental Justice Action Plan, to introduce consideration of the cumulative impact of environmental pollutants into decision-making. This work has included evaluating scientific data on health and exposure disparities and population vulnerability, particularly in low-income or minority populations. Other work has involved identification of new carcinogenic hazards, establishing cancer potencies and standards for contaminants in drinking water.

Fullerton, Don

University of Illinois

Dr. Don Fullerton joined the University of Illinois at Urbana-Champaign in 2008, as Gutsell Professor in the Department of Finance, the Institute for Government and Public Affairs (IGPA), and the Center for Business and Public Policy (CBPP). He graduated from Cornell in 1974 and received a PhD in Economics from U.C. Berkeley in 1978. He won the Outstanding Doctoral Dissertation Award of the National Tax Association, and went on to teach at Princeton University (1978-84), the University of Virginia (1984-91), Carnegie Mellon University (1991-94) and the University of Texas (1994-2008). From 1985 to 1987, Don served in the U.S. Treasury Department as Deputy Assistant Secretary for Tax Analysis, where he received the Meritorious Service Award for his work on the Tax Reform Act of 1986. From 1995 to 2000, he was Director of the American Economic Association (AEA) Summer Minority Program. Currently, he is a member of the AEA Committee on the Status of Minority Groups in the Economics Profession. Fullerton is Managing Editor of The B.E. Journal of Economic Analysis and Policy, and he is the Program Director for the Environmental and Energy Economics Program of the National Bureau of Economic Research (NBER). The author of over a hundred published papers and books, Fullerton is editor of The Distributional Effects of Environmental and Energy Policy (Aldershot, UK: Ashgate Publishers, 2009).

Garoupa White, Catherine

Central Valley Air Quality Coalition

Since 2006, Catherine Garoupa White has worked on clean air for the San Joaquin Valley as staff for the Central Valley Air Quality (CVAQ) Coalition. She has worked in the capacity of community organizer in her home of Madera County, then Campaign and Program Manager, before being promoted to her current position as CVAQ Director. Garoupa White has an extensive background in coalition building, clean air policy advocacy, and a strong background in working for environmental justice principles. She possesses a Master's degree in Social Work as well as over 10 years volunteering and working in the non-profit sector.

Gilbert, Steven

Institute of Neurotoxicology and Neurological Disorders

Dr. Steven G. Gilbert, Ph.D., D.A.B.T., Director and Founder of the Institute of Neurotoxicology and Neurological Disorders (INND), received a Ph.D. in Toxicology in 1986 from the University of Rochester, Rochester, NY, and is a Diplomat of American Board of Toxicology. He is an Affiliate Professor in the Department of Environmental and Occupational Health Sciences, University of Washington and Affiliate Professor, Interdisciplinary Arts & Sciences, UW Bothell. He is a former owner and President of Biosupport, LTD., which he sold to SNBL USA Ltd. These firms were involved in pre-clinical contract research, toxicology, and specialized model development. Dr. Gilbert's research has focused on neurobehavioral effects of low-level exposure to lead and mercury on the developing nervous system. His book, A Small Dose of Toxicology- The Health Effects of Common Chemicals was published in 2004 and the second edition will be released as an ebook in 2011. Most recently he started a wiki based web site Toxipedia with the mission of connecting science and people which supports a suite of sites including www.wanmec.org, www.wltox.org, www.ipmopedia.org, and www.healthyworldtheater.org, all with goal of creating a more healthy and peaceful world. The overall goal of these projects is to place scientific information in the context of history, society and culture. He recently started Healthy World Press and published Particles on the Wall, which addressed issues related to Hanford, Washington by uniting science and art.

Gouge, Dawn

University of Arizona

Dr. Dawn H. Gouge, Ph.D. B.Sc. is an Associate Professor and Associate Specialist of Urban Entomology at the University of Arizona, Department of Entomology. She is an Entomologist and Integrated Pest Management (IPM) specialist since 1995 and board member of the IPM Institute of North America. She also co-directs the Western Regional IPM in Schools Working Group. Dr. Gouge serves on National School IPM 2015 Steering Committee and the Advisory Board of the IPM Institute Green Shield Certification program. She is a member of US Bed Bug Working Group and EPA National Tick Task Force. Her research efforts focus on pest ecology and reduced-risk management of structural and public health pests, including venomous arthropods, disease vectors, bed bugs, cockroaches and termites. She provides support to state and government agencies regarding, pollution prevention, pest related children's health issues,

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vector management, and professional education. Teach UA course accredited classes on IPM, and CDC Public Health workshops.

Greenberg, Michael

Rutgers University

Dr. Michael Greenberg studies environmental health. He is professor and director of the National Center for Neighborhood and Brownfields Redevelopment of Rutgers University; director of the U.S. DHS-funded Center for Transportation Safety, Security and Risk at Rutgers University; and associate dean of the faculty of the Edward J. Bloustein School of Planning and Public Policy. His books include *Urbanization and Cancer Mortality* (1983), *Hazardous Waste Sites: the Credibility Gap* (1984), *Public Health and the Environment* (1987), *Environmental Risk and the Press* (1987), *Environmentally Devastated Neighborhoods in the United States* (1996), *Restoring America's Neighborhoods: What Local People Can Do* (1999), *the Reporter's Environmental Handbook* (2003), *Environmental Policy Analysis & Practice* (2008), and *Reporter's Handbook on Nuclear Materials, Energy, and Waste Management* (2009). In addition to more than 25 books, professor Greenberg has contributed more than 300 articles and 40 editorials to social science and policy journals and has written more than 200 technical reports. He has been a member of National Research Council Committees that focus on the destruction of the U.S. chemical weapons stockpile and nuclear weapons; chemical waste management; and the degradation of the U.S. government physical infrastructure. He has received awards for research from the United States Environmental Protection Agency, the Society for Professional Journalists, the Public Health Association, the Association of American Geographers, and Society for Risk Analysis. He serves as associate editor for environmental health for the *American Journal of Public Health*, and is editor-in-chief of *Risk Analysis: An International Journal*. Professor Greenberg's interest in environmental justice began in the early 1980s and escalated when through a series of random events he served as a statistical consultant to Charles Lee in the preparation of *Toxic Waste and Race* (1987). As the director of a center that focuses on neighborhood and brownfields development, Dr. Greenberg has worked on brownfield-related issues at the neighborhood and community scale and written more broadly on the issue of environmental inequity and about how one both demonstrates the existence of environmental inequity, and how inequity includes not only a disproportionate burden but also a lack of neighborhood benefits. Most of this work is quantitative, for example, comparing how different statistics can be used to support or reject the idea of geographical environmental inequity, and using an epidemiological migrant study design to compare the cancer burden of Southern-born African-Americans and other African Americans. Among his books, *Environmentally Devastated Neighborhoods in the United States* (1996) illustrates a quantitative effort to measure public perception of environmental inequity and *Restoring America's Neighborhoods: What Local People Can Do* (1999) illustrates a qualitative analysis of how neighborhood and community leaders cope with environmental burdens. Dr. Greenberg's interest in this issue carries over to his university position. His school offers a public health undergraduate major that has a majority of African American (primarily female) students. This was a deliberate decision to encourage disadvantaged minority students to major in this subject and bring public health knowledge back to their communities. In his role with the US Department of Homeland Security Transportation Security Center of Excellence, he and colleagues have developed a certificate program (15 credits) in transportation management: vulnerability, risk and security that targets the training of masters level students who will be protecting the public against natural and human-initiated events on transit systems and in areas that are disproportionately economically disadvantaged.

Halstead, John

University of New Hampshire

Dr. John M. Halstead is Professor of Environmental and Resource Economics and Chair of the Department of Natural Resources and the Environment at the University of New Hampshire, Durham. He received his AB in Economics from the University of Notre Dame, MS in Resource Economics from the University of Massachusetts/Amherst, and PhD from Virginia Polytechnic Institute and State University in Agricultural and Applied Economics. Dr. Halstead has researched and published extensively in the fields of regional economic development and environmental economics. In particular, much of his research has focused on siting issues for locally undesirable land uses and the "NIMBY" syndrome, especially regarding landfills and the nation's initial high level nuclear waste repository. Current research focuses on the various roles of social capital in determining environmental quality, and the value of ecosystem services. Professor Halstead has served on granting panels for USDA, EPA, and NSF, and has chaired or been a member of various committees of the New Hampshire state legislature on economic development and waste management. His teaching at the graduate and undergraduate levels includes applied microeconomics, environmental economics, rural and regional economic development, general ecology, and waste management.

Harper, Barbara

Confederated Tribes of the Umatilla Indian Reservation

Dr. Harper is a toxicologist (DABT 1989 with renewals) in the Department of Science and Engineering at the Confederated Tribes of the Umatilla Indian Reservation (CTUIR). She is responsible for coordinating the Hanford nuclear project work (DOE funding), such as risk assessment review and performance, nuclear waste analysis and disposal plans, regulatory review, and natural resource damage assessment. She also coordinates several research projects in collaboration with Oregon State University and Eastern Oregon University related to environmental health and tribal rights and resources. Her research includes developing tribal exposure scenarios that reflect traditional lifeways and patterns of resource use, so that tribes have a better opportunity to meaningfully participate in EPA risk assessments and remediation, as well as a better chance of achieving equity in the restoration of ecosystem services. She has also published in areas of tribal research ethics and recommendations for modifying national policy and guidance so that tribal concerns might be regarded more equitably and appropriately. After receiving her PhD from the University of Texas at Austin, she was a post-doctoral fellow and faculty member in Genetic and Environmental Toxicology at the University of Texas Medical Branch at Galveston. She has served as a state toxicologist, a risk assessment manager at Battelle's Pacific Northwest National Laboratory, and a panel member of the SAB Drinking Water Committee. She has published in the areas of tribal risk assessment, cultural risk assessment, tribal research ethics, CTUIR First Foods, environmental justice, genetic toxicology, and environmental health.

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Harris, Cynthia M.

Florida A&M University

Dr. Harris attended the University of Kansas, where she received a B.A. (Honors' degree) in biology (1978) and a M.A. in genetics (1981). She received her Ph.D. in the biomedical sciences from Meharry Medical College in 1985, with concentration in the areas of nutritional biochemistry and toxicology. Dr. Harris was awarded a postdoctoral fellowship in the Interdisciplinary Programs in Health of the Harvard School of Public Health, where she conducted research regarding the effects of heavy metals on pulmonary function and environmental risk assessment. She is a Diplomat of the American Board of Toxicology (DABT). From 1990-1996, Dr. Harris served as a staff toxicologist and branch chief with the Agency for Toxic Substances and Disease Registry, a sister agency of the Centers for Disease Control and Prevention, in Atlanta, Georgia. Dr. Harris was the first African American branch chief of the Agency for Toxic Substances and Disease Registry. As branch chief of the Community Health Branch, she was responsible for the administration and management of staff who conducted environmental health assessments, at the request of individual citizens and community groups across the nation. In 1996, Dr. Harris accepted the position of Director of the Institute of Public Health at Florida A&M University. Since her tenure, she has been actively engaged in the general planning and development of the MPH program. The 1997 Florida State Legislature approved and appropriated funding to support the MPH program and the MPH program received full, maximum accreditation for its initial review (2000-2005). Dr. Harris has served on numerous committees and panels, which includes membership on the Board of Directors for the Florida Public Health Association, Chair of the Florida Public Health Partnership Council on Stroke, member of the Pregnancy Mortality Review Board, member of the Florida Sickle Cell Task Force, member of the American Public Health Association, member of the editorial board of the Harvard Journal of Public Health, reviewer for the Journal of Environmental Health, and board member for the Panhandle Chapter of the Florida March of Dimes. She has also provided a review for the Food and Nutrition Board of the National Academy of Sciences. She is a Full Member of the Society of Toxicology and was appointed by the Secretary of the U.S. Department of Health and Human Services to the Agency for Toxic Substances and Disease Registry Board of Scientific Counselors. In addition, she has served on numerous grant reviews for several federal agencies such as CDC, NIOSH, NIEHS and HRSA. She was also a panel member for the IOM Committee on the Gulf War and Health and was recently appointed by Congresswoman Donna Christensen to the Congressional Black Caucus Homeland Security Advisory Board. In December of 2004, Dr. Harris was appointed to the Council on Education for Public Health (CEPH) Board of Councilors for a three year term. CEPH is the national accrediting agency for all public health programs and schools of public health.

Horan, Christopher

Salt River Pima Maricopa Indian Community

Mr. Chris Horan is an Environmental Engineer with the Salt River Pima Maricopa Indian Community (SRPMIC or Community). SRPMIC, a federally recognized Indian tribe, located in Maricopa County, AZ, is situated within a large metropolitan region with a population of over 2 million people that includes the cities of Mesa and Tempe to the south, the cities of Phoenix and Scottsdale to the west and the cities of Fountain Hills and Scottsdale to the reservation's northern boundary. Chris's past and current environmental and business experience includes program management, tribal community environmental issues, solid/hazardous waste management, recycling, assisting small business and industry, minimizing businesses environmental footprint, air quality management, pollution prevention (P2) and understanding applicable environmental regulations. He currently holds a Master of Science (MS) degree in Environmental Science and a Bachelor of Science (BS) degree in Biology from the University of Northern Iowa. He taught a Sustainability course at the University of Northern Iowa for ten years. He has been active in the environmental issues for over eighteen years.

Irving, Stephen

Steve Irving, LLC

Stephen M. Irving is an environmental tort attorney working on the front lines of environmental litigation in environmental justice communities throughout the United States. Mr. Irving has worked in civil litigation for over 30 years. His life's work has been to gain justice for residents harmed by pollution. Steve is a product of Louisiana State University Law School where he obtained a Juris Doctorate in May of 1974. Mr. Irving's experience and insight should prove invaluable to the Science Advisory board. Mr. Irving has been involved in the IT Decision, and McCastle v. Rollins which established that environmental justice issues can be prosecuted in Louisiana. Steve has extensive experience in administrative advocacy in Louisiana. Steve has worked as an investigator as well as an attorney for the Louisiana Department of Justice. Steve has worked with the citizens of Hattiesburg, MS in assisting the community in seeking redress for legacy environmental pollution. Steve brings to the advisory board a grassroots, feet on the ground and in the community perspective which is sorely lacking. The communities which are designated environmental justice communities have in the recent past been only numbers to the EPA and our organization believes that Stephen Irving can work to change this perception. There really is a human cost which has not even been paid lip service by EPA or the Science Advisory Board. People are suffering and Stephen Irving can provide the board with the insight a true witness can bring.

Jackson, Alexander

Fond du Lac Reservation

Alexander Jackson has spent his career working towards racial and social justice. For fifteen years, he worked in the court system and in the private sector with youth in the criminal courts and social services systems. In doing his work, Alexander was committed to ensuring racial and social equity for his clients. Alexander has recently turned his focus to environmental justice. He earned a bachelor's degree in biology with a focus on watershed ecology and Geologic Information Systems with a minor in Environmental Science from the University of Wisconsin, Superior. Alexander now works for the Fond du Lac Band of Lake Superior Chippewa as their Air Program Coordinator. In this capacity, Alexander works to ensure the air quality on and around the Fond du Lac reservation. His goal and the goal of the program are to maintain and ultimately improve the quality of air, and as a result the quality of life, on and around the reservation. This is accomplished in several ways, Alexander reviews draft air permits from neighboring industry and studies the potential impact on the community and the environment that is so critical to the Bands way of life. Other ways this is accomplished include, but are not limited to, working with federal, state and local work groups, consultation sessions with federal and state officials

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during the review and comment period on proposals for new and revised regulation. As a result of socioeconomic and environmental injustices American Indian populations suffer higher obesity and asthma rates than the larger population, and have shorter life spans. As a result, subsistence lifestyle must always be considered. Finally Alexander works to gain funding to further develop the air program in an attempt to limit the impacts of pollutants on the Fond du Lac Reservations people, their way of life, the wildlife and plants both terrestrial and aquatic. In the future, Alexander expects to build tribal capacity by consulting with the Environmental Protection Agency to implement a Tribal Implementation Plan and a Permitting program that would allow the Band to have direct control of pollution from industries located on the Reservation. It also will bring tribal professional into project discussions at the beginning of the process rather than the end. Alexander is also looking for avenues to research the impact of global climate change on the Reservation Community and the Fond du Lac Band of Lake Superior Chippewa's way of life.

Johnson, Robin

Independent Consultant

Dr. Johnson, a women's health consultant is a board-certified obstetrician and gynecologist. She received both a medical degree and masters in public health from the University of California Los Angeles and completed her residency in obstetrics and gynecology at Los Angeles County USC Keck Women's Hospital. She currently is a fellow in the Reach the Decision Makers (Reach), an environmental reproductive health policy program of the University of California San Francisco Program for Reproductive Health and the Environment (PHRE). Her focus as a Reach fellow is on the environmental impact that result in poor reproductive health outcomes in underserved communities. She brings more than 30 years of women's health care clinical experience including a career as a registered nurse and a private practice obstetrician and gynecologist. Her work in the clinical arena centered in the underserved communities of Los Angeles County, where she managed, and developed health care programs for women who are disproportionately affected by poor pregnancy outcomes resulting from poor environmental conditions. Her professional experience includes serving as a director in several women's health care centers, directing the development and implementation of a perinatal home visitation program, and several academic appointments including assistant professor clinical medicine, clinical associate professor, and a faculty member for Professionalism in Medicine at the USC Keck School of Medicine.

Lester, Stephen

Center for Health, Environment & Justice

Dr. Stephen Lester directs CHEJ's Technical Assistance Program, which provides scientific and technical assistance to communities concerned about environmental health issues. He got his start in working with communities when he was hired in 1978 by the New York State Department of Health to be the technical advisor to the residents of Love Canal in Niagara Falls, NY. His primary work at the Center involves translating technical jargon into everyday language and helping people understand the role of science and technical information in local community struggles. He also directs the CHEJ's research efforts which have produced over 100 guidebooks and fact-packs. Mr. Lester has sat on numerous scientific advisory committees including at the National Research Council of the National Academies (formerly the National Academies of Science), the U.S. Environmental Protection Agency Children's Health Protection Advisory Committee Schools Siting Task Group, the Congressional Office of Technology Assessment and the Paperworkers and Allied Industrial, Chemical and Energy Workers International Union (formerly the Oil, Chemical & Atomic Workers). He has also participated in peer review committees of the National Institute of Environmental Health Sciences for their Basic Superfund Research and Environmental Justice programs. Mr. Lester has a Master's degree in Toxicology from the Harvard University School of Public Health and a Master's degree in Environmental Health from the New York University Institute of Environmental Medicine.

Longley, Karl

California State University, Fresno

Dr. Karl Longley is a Professor and Dean Emeritus of Engineering at California State University, Fresno, and he currently is a member of the California Water Institute's Water Resources Group and its California State University-wide initiative focused on finding solutions for economically disadvantaged communities. Dr. Longley was a member of the U.S. Agency for Toxic Substances and Disease Agency's Board of Consultants (1994-1998), the California Governor's Environmental Policy Council (1993-1997), and he is a member of California's Central Valley Regional Water Quality Control Board (1989-1997 and 1999-Present). Dr. Longley is a member of the American Water Works Association, the American Society of Civil Engineers, the Nature Conservancy, the American Academy of Environmental Engineers, and the Water Environment Federation. Dr. Longley earned a Bachelor of Science degree from the University of New Mexico, and both a Master of Science in Engineering degree (Sanitary Engineering and Water Resources program) and a Doctor of Science degree (School of Hygiene and Public Health) from the Johns Hopkins University. He is a registered professional engineer in California and Maryland and a Board Certified Environmental Engineer.

Martinez, Cecilia

University of Delaware

Dr. Cecilia Martinez is Associate Research at the Center for Energy and Environmental Policy at the University of Delaware. Dr. Martinez received her Bachelor's degree in Political Science at Stanford University, followed by a MPA and a Ph.D. in Energy and Environmental Policy at the University of Delaware. Her research is focused on the impacts of energy systems and policy on environmental justice communities. She has led numerous research projects and been an advisor and consultant in state, tribal and national initiatives. She has also led several community-based participatory research initiatives designed to assess potential health risks of multiple source contamination in low income neighborhoods. Her work at the Center for Energy and Environmental Policy focuses on clean energy development and its impacts on low and moderate income households. She currently serves on the National Advisory Committee to the Commission for Environmental Cooperation, U.S. Environmental Protection Agency.

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McGee-Collier, Melissa

MS Dept of Environmental Quality

Melissa McGee-Collier commenced a career in state government in 1995, joining Mississippi's Department of Environmental Quality (MDEQ) as an environmental engineer focusing on permitting for industrial air pollution. Following specializations in other functional areas, she was promoted to Business Systems Analyst of the Data Integration Division for the Office of Pollution Control (OPC) of MDEQ. As Business Systems Analyst, she executed implementation of agency wide data management system- enSite, and other OPC information management systems that support programmatic business processes. In 2010, Melissa accepted the position of Director for MDEQ's Office of Community Engagement where she is responsible for overseeing the agency's overall Community Engagement strategy. Her role coordinates with the internal PR, Office of Pollution Control, Office of Land and Water, Office of Geology and Legal Division to support the agency's mission. The position involves ensuring that MDEQ's community engagement is fully integrated with all other efforts across the agency's functions. Melissa earned a bachelor's degree in Chemical Engineering from Mississippi State University and a Master's of Public Policy and Administration degree from Mississippi State University. Melissa is an active member of the American Academy of Certified Public Managers and the Mississippi Society of Certified Public Managers (MSCPM), having served terms as Training Officer, Vice President and President.

McGurty, Eileen

Johns Hopkins University

Dr. Eileen McGurty, is the Director of the Graduate Programs in Environmental Studies at Johns Hopkins University. She is the author of *Transforming Environmentalism: PCBs, Warren County, and the Origins of Environmental Justice* (Rutgers University Press, 2007; first paperback edition 2009). She writes widely in the areas of environmental justice, gender and environment, and risk in waste policy. Dr. McGurty also has worked as an advisor to communities (in New Jersey, New York, Maryland and Illinois) dealing with environmental justice issues, particularly on waste-related conflicts. She has provided expert testimony about distribution of risks from waste facilities on behalf of environmental justice organizations. Dr. McGurty holds a Ph.D. in urban planning from the University of Illinois. Prior to her academic career, Dr. McGurty worked in environmental regulation and compliance, was involved in EIA projects, and did environmental planning in poor, urban, minority communities.

Mitchell, Mark

Mitchell Environmental Health Associates

Mark Mitchell M.D., MPH is the principal of Mitchell Environmental Health Associates, a consulting firm on environmental health and environmental justice issues. Dr. Mitchell is also founder and Senior Policy advisor for the Connecticut Coalition for Environmental Justice, which has local chapters in Hartford, Bridgeport and New Haven. Dr. Mitchell has spent over twenty years working in the public health sector, including as Director of the Hartford, Connecticut Health Department and as Deputy Director of the Kansas City, Missouri Health Department. He has spent the past fifteen years educating the community on the effects of the environment on health. Working primarily with communities of color and low-income whites, he teaches people what can be done to prevent and reduce the disproportionately higher rates of disease in their communities. Dr. Mitchell has served on the U.S. EPA's National Environmental Justice Advisory Board and on the U.S. Food and Drug Administration's Advisory Committee on Blood and Blood Products. He is currently a member of the U.S. EPA's National Advisory Council on Environmental Policy and Technology, as well as Chair of the Community Advocacy, Leadership, and Research Subgroup of the U.S. CDC/ATSDR's National Conversation on Public Health and Chemical Exposures. He is also a founding member of the Environmental Justice and Health Alliance on Chemical Policy. He also is a member of the Capital Region Council of Government's Transportation Committee. He has previously served on the Boards of Directors of the American Lung Association of Connecticut and of the Hispanic Health Council among others. Dr. Mitchell is a public health physician with an M.D. from the University of Missouri at Kansas City. Dr. Mitchell received his Master's in Public Health from the Johns Hopkins University where he was trained in environmental health and health policy.

Moo-Young, Horace

California State University

Dr. H. Keith Moo-Young is Dean of the College of Engineering, Computer Science and Technology at California State University-Los Angeles. He holds an M.S. and Ph.D. in Civil-Environmental Engineering from the Rensselaer Polytechnic Institute, and a Masters of Technology Management from the University Pennsylvania, and is a licensed professional engineer (Environmental Engineering) in Pennsylvania. Dr. Moo-Young was formerly the Interim Dean and Associate Dean for Research and Graduate Studies at Villanova University, and has served as a Professor at Lehigh University and Villanova University. The emphasis of his research is on hazardous and solid waste management and technologies, such as the remediation of inorganic contaminants in acid mine drainage and groundwater, manufactured gas plant and coal tar, recycling and reuse of industrial co-product materials, and corrective strategies for contaminated sediments. Dr. Moo-Young has served as a member of the Water Environmental Research Foundation Exploratory Team on Solids Reduction, National Science Foundation Committee of Visitors for Civil and Mechanical Systems Division from 2001-2003, the Department of Energy's Workshop on Monitoring of Metals and Radionuclide Contaminated Sites in 2004 and Workshop on Containment Technologies in 2002. He also served as the session leader on Sediment Stability for the Department of Defense's SERDP-ESTCP Workshop on Contaminated Sediment in 2004. Dr. Moo-Young co-chaired the First International Conference on Environmental Research, Technology, and Policy on Africa in Accra, Ghana in 2007. He has received numerous national awards including service as an American Association for the Advancement of Science Policy Fellow at the U.S. Environmental Protection Agency from 2001-2002 and Black Engineer of the Year in 2001. Dr. Moo-Young has published over 120 papers in peer-reviewed journals, books and conference proceedings, and has delivered over 80 presentations at conferences, workshops and invited lectures. He is also the co-inventor of one patent.

Biosketches for potential candidates of the EJT Review Panel

Morello-Frosch, Rachel

Brown University

Rachel Morello-Frosch is Associate Professor of Environmental Science, Policy and Management and the School of Public Health at the University of California, Berkeley. She has an MPH in epidemiology and biostatistics and a Ph.D. in environmental health sciences from UC Berkeley's School of Public Health. Dr. Morello-Frosch's research examines race and class determinants of environmental health among diverse communities in the United States. A focus of her current work is assessing the relationship between social inequality, psychosocial stress and how these factors may interact with chemical exposures to amplify pollution/health outcome relationships and produce environmental health inequalities. Much of her work has examined this question in the context of ambient air pollution and indoor chemical exposures and children's health, often using community-based participatory research approaches for data collection and risk communication. As part of this work she also explores the scientific challenges and bioethical considerations associated with exposure assessment and chemical biomonitoring research in economically and racially marginalized communities. Dr. Morello-Frosch has also examined ways in which measures of material deprivation (e.g. poverty) and social inequality (e.g. racial residential segregation) may modify observed relationships between pollution exposures and poor perinatal outcomes such as low birth weight and risk of preterm delivery. Finally, in collaboration with scientific colleagues and regulatory scientists, she has worked to develop scientifically valid and transparent tools for assessing the cumulative impacts of chemical and non-chemical stressors to inform regulatory decision-making and environmental policy in ways that advance environmental justice goals and that address the disparate impacts of chemical and non-chemical stressors in vulnerable communities. Her experience in applying environmental health science with social science and social epidemiologic methods to assess potentially synergistic effects of social and environmental risk factors in shaping environmental health disparities is relevant to the issues that will be addressed by the EJ Technical Review Panel. Other Experience and Professional Memberships: 2003-Present: California Air Resources Board, Research Screening Committee 2009-Present: Environmental Health Perspectives, Editorial Review Board Member 2010-Present: Environmental Health, Editorial Review Board Member 2007-Present: Center for Occupational and Environmental Health, UC Berkeley 2008-Present: Robert Wood Johnson Health and Society Scholars Program Faculty, UC Berkeley and UCSF 2009-Present: Energy and Resources Group, UC Berkeley, Affiliated Faculty

Mullaney, Emma

Pennsylvania State University

Ms. Emma Gaalaas Mullaney is trained in feminist political ecology, agricultural development, and theories of justice, and has been deeply involved in environmental justice as a focus of both research and political action since her time as an undergraduate. She is currently pursuing a dual PhD in Geography and Women's Studies as a Distinguished Graduate Fellow at Pennsylvania State University. Her dissertation, which incorporates a qualitative analysis of political and social change with a quantitative study of ecological change, focuses on maize cultivation and agrobiodiversity conservation in the central highlands of Mexico. She received her M.A. in Geography from Miami University, during which time she worked in Dominica for months at a time as a research assistant on an American Geographical Society funded study of the country's banana industry while also conducting fieldwork for her Masters thesis on subsistence agriculture and land rights in the indigenous Carib Territory. While pursuing her B.A. at Sarah Lawrence College, Mullaney studied ecology, indigenous anthropology, and international development and wrote an honors thesis on residents' right to return in post-Katrina New Orleans. Her interdisciplinary work on social and environmental change has been recognized with numerous awards and research grants, published in top peer-reviewed journals, and presented to a wide range of audiences in both the natural and social sciences. Mullaney is also dedicated to public scholarship and regularly publishes justice-related pieces in non-academic journals and news media. As Policy Advisor on Biological Diversity to SustainUS – a youth-base sustainability organization in the United States – Mullaney served as a delegate to the 2010 United Nations Convention on Biological Diversity in Nagoya, Japan and delivered a statement on behalf of international youth to the Convention Plenary Session. She is a Research Associate with the Foundation for Post Conflict Development and co-Director of The Guerrera Project, and she has collected testimony from female veterans of the Timorese Resistance Movement on behalf of President Ramos-Horta and the National Resistance Museum. Her current academic advocacy positions include serving as President of the Women's Studies Graduate Organization, Vice President of Supporting Women in Geography, and Student Representative to the Cultural and Political Ecology Specialty Group of the Association of American Geographers. Outside of academia, she has served as U.S. representative to the Ecuadorian indigenous advocacy organization La Asociación Kichwa Mushu Causai. As a National Wildlife Civic Engagement Fellow, Mullaney held community forums on local experiences of environmental injustice in the South Bronx. At Sarah Lawrence College, Mullaney founded the first environmental justice student organization, Grassroots, and also co-founded Food Gatherers, a food rescue and redistribution initiative which was awarded the first annual Youth Award for Social Change by the Westchester Coalition for the Hungry and Homeless. She has worked with many other environmental justice community organizations including La Via Campesina, For a Better Bronx, and the Student/Farmworker Alliance, and also served on the Environmental Justice Committee for youth organization Energy Action. Mullaney's work as a teacher, scholar, and advocate are mutually informative and each central to confronting urgent environmental justice challenges.

Mulvihill, Eileen

Rural Community Assistance Corporation

Dr. Eileen Mulvihill is recently retired from the Pathology Department at the University of Washington. She received her B.S. degree with a double major of Zoology and Geology from the University of Illinois in Urbana and her Ph.D. in Molecular Biology from the Universite Louis Pasteur in Strasburg, France. Dr. Mulvihill has 17 years of experience doing research at two biotechnology companies in a number of human disease areas, including cardiovascular, neurological and immunological diseases. Dr. Mulvihill was also a research professor for 9 years where her focus was on cardiovascular disease, especially as related to human genetics. She has over 50 peer reviewed publications and 5 patents. Since retiring, Dr. Mulvihill has moved into a small rural community. She is involved in her local acequia (irrigation ditch) serving as Treasurer, in NMCARES (New Mexico Citizens Alliance for Responsible Energy and Sustainability) and in Sustainable Las Vegas, a local environmental group. She is currently working with others in her river community to help re-establish a vibrant, organic, local economy.

Biosketches for potential candidates of the EJT Review Panel

Murphy-Greene, Celeste

University of Virginia

Dr. Greene is Adjunct Professor and Program Coordinator at the University of Virginia's Graduate Public Administration Certificate Program in the School of Continuing and Professional Studies. She received her Bachelor of Arts in History at the University of California, Los Angeles, her Master of Public Administration from The George Washington University, and her Ph.D. in Public Administration from Florida Atlantic University. Dr. Greene's research has focused on environmental justice and quality of life issue. She has published numerous articles on migrant farm workers which examine occupational safety and health issues such as pesticide exposure and risk assessment.

Nagy, Lisa

Preventive and Environmental Health Alliance

Dr. Lisa Lavine Nagy M.D. graduated Magna Cum Laude from The University of Pennsylvania and then from Cornell Medical College in 1986. After a surgical internship she completed Emergency Medicine residency at Metropolitan Hospital in NYC and practiced in Los Angeles until becoming severely ill (Addison's Disease, Mitochondrial Myopathy, Dysautonomia) –as a result of a complex medical condition known as Chemical Sensitivity or Environmental Illness. Her story of survival and journey of discovery which led her to determine what had made her have such severe symptoms inspired ABC's 'Nightline' to interview her this year and many newspapers and magazines to feature her recovery. In her case it was due to toxic mold and in others it is due to pesticide or chemical exposure. She learned about the field of Environmental Medicine and it's focus on finding the causes of disease including genetic, hormonal, nutritional, allergic, and environmental factors. She is now president of Preventive and Environmental Health Alliance which is a group focused on educating medical students, doctors, the AMA, congress and the public and assists patients to find help nationwide. Listening to physicians and other people who have developed severe Environmental Illness is the first step towards helping the 75 million people in the country with various health issues, including autoimmunity, related to their environments. Someone is listening - she was appointed as a delegate to the Massachusetts Medical Society and to the CDC's National Conversation on Chemicals and Public Health.

Nance, Earthea

University of New Orleans

Dr. Earthea Nance is an Assistant Professor of Environmental Planning and Hazard Mitigation at the University of New Orleans, and a fellow in the National Science Foundation's Next Generation of Hazards and Disaster Researchers program. She recently served as the Director of Disaster Mitigation Planning and the Director of Infrastructure and Environmental Planning for the City of New Orleans in its recovery from Hurricane Katrina, and she previously held faculty positions at Virginia Tech and the Massachusetts Institute of Technology. Dr. Nance holds a B.S. in civil engineering (1985) and an M.S. in environmental engineering (1991) from the University of California at Davis, and a Ph.D. from the department of civil and environmental engineering at Stanford University (2004). Dr. Nance's research addresses the intersection of environmental and urban development problems in vulnerable socio-economic settings and post-disaster areas. She has studied the role of community participation in expanding basic urban services to chronically underserved neighborhoods. Her research has generated methods for critically evaluating infrastructure performance using multiple perspectives, and has produced strategies for sustainable urban development and environmental justice in areas of severe environmental hazard. Dr. Nance is currently researching the impacts of climate change on urban development and the affects of environmental trauma on urban social and ecological systems.

Noonan, Douglas

Georgia Institute of Technology

Dr. Douglas Noonan is an Associate Professor at the School of Public Policy at Georgia Institute of Technology. He received his Ph.D. from the University of Chicago in Public Policy with specializations in environmental and urban economics and policy. Dr. Noonan received his Bachelor degree from the University of Washington in 1995 and his Master of Arts degree from the University of Chicago in 1999. Dr. Noonan's research focuses on identifying the impacts of environmental policy, especially in urban contexts. His research projects have addressed major environmental arenas like air pollution (criteria pollutants and air toxics), hazardous waste remediation, and environmental justice. His empirical analyses frequently focus on the geographic sorting processes of households, firms, and environmental disamenities, in major urban settings as well as on a nationwide scale. Dr. Noonan's research on sorting, spatial econometrics, and equity in urban environments has been funded by the Environmental Protection Agency, the National Science Foundation, the Lincoln Institute of Land Policy, and other organizations. He has published dozens of refereed articles, several book chapters, and many reports since joining Georgia Institute of Technology in 2002. His work on environmental justice has been widely recognized as advancing current methods for conducting EJ analyses. Dr. Noonan has published numerous refereed articles and book chapters on empirical EJ analytical methods. His prior work also addresses sorting along ethnic and income lines around urban amenities. Dr. Noonan regularly teaches courses and advises doctoral students on empirical EJ analysis, recently chairing dissertations on the equity of vehicle emissions testing and air toxics "hot spots" regulation.

Oliaei, Fardin

Women's Environmental Institute

Dr. Oliaei has a BS (chemistry), MS (biology), and PhD (environmental sciences) degrees. She recently graduated from Harvard Kennedy School with a Masters in Public Administration (MPA) degree. My recent MPA degree provides a strong complement to her prior academic credentials and her years of technical experiences. Dr. Oliaei has 17 years experience working at Minnesota Pollution Control Agency (MPCA) as a senior research scientist and has years of part time teaching experiences at different colleges and universities. During her tenure at the MPCA, she has led, managed, and coordinated numerous complex environmental assessment projects. At times her work has been of "cutting edge" nature in that it included the evaluation of impacts of emerging environmental issues and

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their impacts on human health and ecological receptors. These studies included an assessment of all environmental risks, and the development of mitigation efforts, including the economic factors, required to minimize those risks. Dr. Oliaei has written or assisted in preparation of many Environmental Impact Statements and Environmental Assessment Worksheets while working at the MPCA. She has also worked closely with state legislators and grass root organizations. Dr. Oliaei helped them to develop progressive environmental policies and educational materials and has enjoyed their support for her work. Her leadership ability led to being awarded a Bush Foundation of Minnesota Leadership Fellowship during 2008 -2009. Dr. Oliaei also has several years of experience in leading and managing projects for a non-profit organization, the Women's Environmental Institute (WEI) in MN. Dr. Oliaei served as a Board Member and is now the principal scientific consultant, conducting environmental justice education and advocacy projects to address issues related to health disparity.

Oluwoye, Jacob

Alabama A&M University

Dr. Jacob Oluwoye is a Professor of Transportation and Environmental Health, Alabama A&M University (AAMU), Normal, AL. He received his BS in urban and regional planning in 1979, University of Wisconsin-Madison, Madison, Wisc, MCP in city planning in 1981, Howard University, Wash. DC and his Ph.D. in transportation (multifunctional roads and road environment) from University of New South Wales, Kensington, NSW, Australia. Dr. Oluwoye brings expertise in the area of transportation of dangerous goods; decision support GIS tool and air quality; human exposure to traffic air pollution; greenhouse gas emissions from transport road environment and health risk; environmental impact assessment; study design and statistical support; chemical mixtures risk assessment including developing and implementing statistical techniques useful for estimating risk assessment of exposure to transporting of dangerous goods; technology and environmental impact of transportation policy; environmentally sustainable transport; statistical modeling of traffic air pollution; and integration of mixtures environmental toxicology and statistics. Dr. Oluwoye currently on panels of various Federal agencies, specifically the National Science Foundation (NSF), the Transportation Research Board.

Peek, Kristen

University of Texas Medical Branch

Dr. Kristen Peek is a medical sociologist and gerontologist with research interests in ethnic differences in the effects of social relationships and stress on health outcomes among older adults. She has served as the principal investigator for an R01 focusing on marriage and health among older Mexican Americans, a core project for a P50 Center for Population Health and Health Disparities examining the stress process among Mexican Americans, and two National Institutes of Health subcontracts focusing on aging and ethnic variations in stress and stress-related biomarkers. She has a publication record of research in the areas of aging, stress, and ethnicity and extensive experience working with the Texas City Stress and Health Study. In addition, she and Dr. Stowe have a history of publications on viral reactivation and ethnicity in the Texas City Stress and Health Study.

Petronella-Croissant, Sharon

University of Texas Medical Branch

Dr. Sharon A. Croissant (formerly Petronella), MS, PhD, is currently an Associate Professor on the faculty of the University of Texas Medical Branch (UTMB) School of Medicine's Department of Preventive Medicine and Community Health. A doctorally prepared epidemiologist with a master's degree in health promotion and education, she directs the UTMB Center in Environmental Toxicology's Community-based Research Facility as well as its Community Outreach and Engagement Core. She is also a Center investigator within the Institute for Translational Sciences, which houses the University's Clinical and Translational Science Award, where she serves as co-director of the Community Engagement and Research Key Resource. A major focus of her career has been translational or integrative research, i.e., building interfaces between and among environmental and clinical research, education, and community health. She has considerable expertise in Community-Based Participatory Research, including its applications in Environmental Justice communities. She served as a co-investigator in an NIEHS-funded Environmental Justice grant, "Project COAL" (Communities Organized against Asthma and Lead), and is currently funded by the EPA to carry out community outreach in Port Arthur, TX, one of ten nationwide EJ Showcase Communities. She has participated in multiple projects designed to elucidate the causes and mechanisms of asthma exacerbations related to air pollution and has established long-standing, ongoing collaborative relationships with community stakeholders with a vested interest in using these research findings to direct community-based intervention and outreach activities. She has extensive experience in working with diverse committees at local, state, and national levels, to include membership on the National CTSA Key Function Committee and service on numerous study sections for the National Institute of Environmental Health Sciences and the National Center for Research Resources. Until 2009, she served as president of the Asthma Coalition of Texas and as a board member since its inception in 2001. She has worked closely with state policy makers to inform evidence-based environmental and public health legislation.

Pierce, J. Michelle

Independent Consultant

Michelle Pierce has a not-for-profit background focusing on employment and youth development. In this capacity, she has worked as an assistant coordinator for the Tobacco Free Youth initiative in San Francisco, as well as the coordinator of San Francisco Mayor's Youth Employment and Education Program and the Federal Summer Youth Employment and Training Program, and the Adult Intern Coordinator for the ACE Project Solar Panel/Water Heater education and installation program for the Bay View Hunters Point Community Advocates, in collaboration with the San Francisco Department of the Environment. In addition to this work, she has also worked as a preschool teacher's assistant with the Potrero Hill Community Preschool, and as a General Sciences Teacher for 5-8 year olds, and 8-10 year olds at the San Francisco Educational Services from 1994 to 1995. She worked in the corporate sector, for Charles Schwab & Co. from 1998 to 2001, before deciding to return to school in pursuit of a Biotechnology certificate from City College of San Francisco in 2006, and Bachelors of Sciences degree in Biochemistry from Arizona State University in 2010. While attending school from 2001 through 2010, Michelle interned in research laboratories, primarily in the biotechnology field, including doing telomere research on

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fission yeast in the Pasion Laboratory of Molecular biology at San Francisco State University in 2002, attempted development of calcium/DNA filaments in the Blanch Laboratory of Biochemical Engineering at the University of California at Berkeley in 2004, and most recently, synthetic anti-body synthesis for use in early disease detection bioassay chip development with the Center for Innovative Medicines at the Biodesign Institute at Arizona State University 2008-2010, and epidemiological studies of primate-human cross infection of mycobacteria on a molecular level in the Stone Laboratory of Molecular Biological Anthropology at Arizona State University 2009-2010. Michelle is currently doing voluntary advocacy work with the BVHP Community Advocates, with research interests in water, soil, and air qualities in impoverished communities, as well as disparities in said communities to access to high quality food, academic achievement, clean and safe recreation, and health and policy.

Pinder, Lynn

The TAKE ACTION! Network

Ms. Lynn Pinder, a Senior Consultant with The TAKE ACTION! Network, has more than fifteen years experience working with urban communities to develop solutions that promote environmental justice, food security and sustainable communities. As a twenty-something, Pinder launched and ran YOUTH WARRIORS, an environmental justice, youth organization that recruited college students to help middle and high school youth in Baltimore, MD understand the environmental health implications of lead dust and the environmental triggers that cause Asthma. Pinder has extensive experience covering the community-based angle of human exposure and health through her work as an Organizer for several national and regional environmental organizations including Physicians for Social Responsibility (PSR) and the Northeast Environmental Justice Network c/o the West Harlem Environmental Action (WEACT) for Environmental Justice. As a thirty-something, Pinder launched the TAKE ACTION! Network, a consulting firm that works with communities to develop strategies, mobilize resources and create solutions.

Reams, Margaret

Louisiana State University

Dr. Margaret Reams is Associate Professor of Environmental Sciences and leader of the Community Engagement Core and Co-Principle Investigator of the NIEHS-funded Superfund Research Program at Louisiana State University. She was Associate Dean of the School of the Coast and Environment and currently directs the interdisciplinary M.S. programs in Environmental Sciences at LSU. She studies a variety of policy issues related to environmental justice including community perception and response to environmental and ecological phenomena in Louisiana. With support from NIEHS, NSF, USDA and the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE), she developed an empirical social-ecological resilience index to better predict the ability of communities to survive various environmental disturbances. The application of the resilience index to communities within Louisiana's Industrial Corridor allows for spatial and temporal comparisons among communities, and helps researchers identify key factors that may explain variation in both the long-term impacts of cumulative environmental exposures and the reactions of stakeholders. While at LSU, Dr. Reams has designed and implemented graduate courses dealing with environmental conflict resolution, environmental policy analysis, and program evaluation. She was awarded the University's distinguished teaching award for graduate-level teaching and has directed a multi-year research project for the U.S. Forest Service on Community-Based Wild Fire Risk-Mitigation Programs. Dr. Reams has supervised over seventy master's theses on various issues of environmental policy and public attitudes. She is a member of the Advisory Committee for the Louisiana Office of Coastal Protection and Restoration, helping to develop the Best Practices Manual for Resilient Coastal Communities. Also, she served on the NIEHS ad hoc review panel for the Environmental Health Sciences Core Centers. She has published articles in Risk Analysis, Environmental Management, Wetlands, Coastal Management, Marine Policy, Environment and Behavior, Social Science Quarterly, Forum for Applied Research and Public Policy, Journal of Environmental Systems, and Environmental Research Letters among others. Dr. Reams received her undergraduate degree from Huntingdon College in 1978, her M.A. in 1984 and Ph.D. in 1990, both in Political Science from the University of Georgia.

Ringquist, Evan

Indiana University

Dr. Evan Ringquist is Professor and Director of the Ph.D. Programs in Public Affairs and Public Policy in the School of Public and Environmental Affairs at Indiana University, where he also holds affiliate appointments in the Department of Political Science and the West European Studies Center. Professor Ringquist received undergraduate degrees in political science, economics, and biology from Moorhead State University, and received the M.A. and Ph.D. in political science and M.S. in land resources from the University of Wisconsin-Madison. Ringquist served as the co-editor of the Journal of Policy Analysis and Management, and has served on the editorial boards of Policy Studies Journal, Social Science Quarterly, and State Politics and Policy Quarterly. Dr. Ringquist has served as vice president of the Southwestern Political Science Association, served on the executive council of the public policy section of the American Political Science Association, served as the chair of organized sections for the Association for Policy Analysis and Management, Midwest Political Science Association, and Southwest Political Science Association, served as a review panelist and member of site visit teams for the U.S. National Science Foundation, and currently serves on the National Association of School of Public Affairs and Administration doctoral program assessment committee. Dr. Ringquist has over fifty publications in areas such as the implementation and effectiveness of environmental policies (domestic and international), the distribution of environmental risk and the contributions of policy decisions to environmental inequities, and public influences in policy making. Some of this research has been funded by the U.S. National Science Foundation, the U.S. Department of Energy, and the German Marshall Fund of the United States. Dr. Ringquist has served under contract or as a consultant to the U.S. Environmental Protection Agency, U.S. National Park Service, the Texas Governor's Energy Office, the Wisconsin Governor's SAVE Commission, the Governor's Commission for a Sustainable South Florida, the Indiana Department of Environmental Management, and other organizations.

Rosenbaum, Arlene

ICF International

Ms. Arlene Rosenbaum is a Technical Director at ICF International with more than 28 years of experience in environmental analysis. Ms.

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Rosenbaum holds an honors B.S. (1970) in chemistry from the University of Michigan, an M.P.H. (1974) in environmental health planning from the University of Michigan School of Public Health, and an M.S (1980) in engineering-economic systems from Stanford University School of Engineering. She was also a Ph.D. candidate (all but dissertation, 1980) in engineering-economic systems at Stanford University School of Engineering. Her main areas of expertise are environmental justice evaluations, population exposure assessments, and air dispersion modeling. Ms. Rosenbaum has provided technical assistance to several EPA offices in the evaluation of environmental health disparities for the past 10 years. These activities include technical support to the Office of Civil Rights in assessment of environmental justice complaints brought under Title 6 of the 1964 Civil Rights Act; analysis of environmental justice methods for the National Center for Environmental Assessment (NCEA); and development of environmental justice technical workshops, webinars, and fact sheets for NCEA and the Office of Children's Health Protection. Ms. Rosenbaum also regularly manages air quality and population exposure analyses for EPA, as well as regional government agencies, including support for EPA's reviews of National Ambient Air Quality Standards. In addition, she has developed population exposure models and methods for both EPA and the California Air Resources Board (CARB), including the ASPEN and HAPEM models incorporated into EPA's National Air Toxics Assessment (NATA) program. Ms. Rosenbaum has served as a peer reviewer for several EPA programs and projects, including the Human Exposure and Atmospheric Sciences Division (HEASD) program of EPA's National Exposure Research Laboratory (NERL); HEASD's Stochastic Human Exposure and Dose Simulation for Particulate Matter (SHEDS-PM) model; and the Global Earth Observation System of Systems (GEOSS)/Advanced Monitoring Initiative (AMI) Portfolio. She has also served on the Community Health Modeling Work Group for CARB, and CARB's advisory panel for Comparative Risk Analysis. She was elected by her colleagues to serve as a Councilor for the International Society for Exposure Analysis (ISEA, now ISES), and is a member of the Exposure Assessment Specialty Group of the Society for Risk Analysis

Rotkin-Ellman, Miriam

Natural Resources Defense Council

Ms. Miriam Rotkin-Ellman is a scientist with the Natural Resources Defense Council's (NRDC) health and environment program. Prior to joining NRDC in 2006, Miriam was an Environmental Scientist with the New Mexico Environment Department. Miriam's work includes researching the links between global warming and health, reducing air pollution from industrial sources, and protecting communities from pesticides and other toxics. She has worked with community groups to investigate, air quality and soil contamination in New Orleans following Hurricane Katrina, mercury contamination downwind from cement plants, health threats stemming from the BP oil spill in the Gulf of Mexico, and gaps in environmental enforcement in California. Her other research areas include, analysis of morbidity associated with the 2006 California heat wave, children's exposures to pesticides from the use of flea control products, and community vulnerability to climate change-related health threats. Miriam is the author of 5 journal publications and 9 reports. She has presented her work for academic, professional, and lay audiences including, the annual meeting of the American Public Health Association, the Council of State and Territorial Epidemiologists, lectures at UC San Francisco and UC Berkeley, and community meetings. She is an active member of the California Climate Action Team - Public Health Workgroup and has participated in the Deep South Center for Environmental Justice's Public Policy Taskforce and as an advisor to the California Environmental Public Health Tracking program. Miriam earned her Master's degree in public health (MPH) in Environmental Health Sciences from U.C. Berkeley in 2006 and a BS in Environmental Sciences with Honors from Brown University in 2000.

Ruble, David

Virginia Department of Environmental Quality

Mr. David Ruble is as the Environmental Education Coordinator of the Virginia Office of Environmental Education located at the Department of Environmental Quality. He received a B.A. in Environmental Studies and Outdoor Recreation from Maryville College in 2002. He received his Master's degree at Antioch University New England in Environmental Studies with a concentration on Environmental Education in 2007. David brings expertise in community-based environmental education, community involvement strategies, and large group facilitation. In the past four years he has coordinated the development of the Environmental Educators Leadership Program, provided support developing decentralized Regional Environmental Education Teams, and earned funding to present at the national level for his involvement with Environmental Justice. David is a member of the North American Association for Environmental Education (NAAEE) and is the Chair of its Environmental Justice Commission. He has organized and led Environmental Justice & Sustainable Action tours for the past three years as part of the NAAEE Annual Conference. David has specific interest in developing evaluative techniques for environmental justice as a tool for the regulatory process.

Rutherford, Tiaa

Richland County Government

Mrs. Tiaa Booker Rutherford is an emerging leader in the field of urban planning. Mrs. Rutherford currently serves as the Neighborhood Planner for Richland County Government where she manages the Neighborhood Improvement Program, a mileage agency for Richland County that is creating and implementing 10 community master plans. She is also involved in community organizing, capacity building, planning, and executing large-scale meetings, conferences, and events such as the Annual Richland County Neighborhood Planning Conference. A 2004 graduate of Leadership Columbia, Mrs. Rutherford has over 10 years of urban planning experience in the Midlands region in community planning, water quality planning, and transportation planning having worked for Central Midlands Council of Governments and engineering giant Parsons Brinckerhoff, Inc. Mrs. Rutherford holds a bachelor's degree from Benedict College in Environmental Health and master's degree from Arizona State University in environmental planning with a concentration in urban and regional development. Mrs. Rutherford has served in several capacities in the community as she has served as the Chair of the City of Columbia Planning Commission, the former-Chair for the Food Shelter, Safety, and Transportation Committee at the United Way of the Midlands, Chair of the Logan Elementary School Improvement Council, serves on the Regional Education Center Advisory Board of MEBA, and is a Board of Trustee member for Historic Columbia. In her spare time, Tiaa devoted to assisting her husband Erik Rutherford with running Allstate- The Rutherford Agency and is the loving mother of 9-year old Nina Lauren, an active member of Junior League of Columbia, and the Columbia Chapter of Jack and Jill of America, Inc. She is also a member of Delta Sigma Theta Sorority Inc.

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Sadd, James

Occidental College

Dr. James L. Sadd is Professor of Environmental Science and Chair of the Geology Department at Occidental College, Los Angeles, California. Over the past 15 years he has been a national leader in research focused on the quantitative and statistical evaluation of questions related to environmental exposure, health risk, and environmental justice primarily through the use of spatial analysis using geographic information systems and remote sensing tools. He is part of a three-person research team who have published widely in the field, and are also recognized for their ongoing research collaborations with numerous environmental justice organizations. He recently served as a member of the Nationally Consistent Environmental Justice Screening Approaches Work Group to evaluate and provide guidance and feedback on EPA's Environmental Justice Strategic Enforcement Assessment Tool (EJSEAT) to the National Environmental Justice Advisory Council. His recent research is currently supported by contracts and grants from EPA Region 9, the California EPA, California Air Resources Board, California Energy Commission, Hewlett, Annenberg and Energy Foundations, the California Endowment. Dr. Sadd earned his masters degree in Geology at University of Texas, Austin, and doctorate in geology at the University of South Carolina, Columbia. Professor James Sadd of Occidental College is one of the leading researchers in the field of environmental justice through his development of a sophisticated computer-based screening methodology that uses GIS mapping and data analysis to highlight patterns of racial, economic and social disparity with regard to toxic air emissions. Developed over nearly ten years in collaboration with Dr. Manuel Pastor (USC) and Dr. Rachel Morello-Frosch (UC Berkeley), and supported with research funding from many private foundations and the State of California, the screening methodology has helped to raise awareness and impact policy discussions at the local, state and national levels. Dr. Sadd possesses a remarkable and sorely needed ability to effectively translate between scientists, policymakers, regulatory specialists and community residents on environmental health and justice issues. In addition to his university research and numerous academic publications on environmental exposure patterns, Dr. Sadd has also worked extensively with community-based organizations in the Los Angeles area to pioneer a community-based participatory research model called "ground truthing." Dr. Sadd served as the principal researcher and coordinator of an unprecedented effort which involved training more than 50 community residents to map toxic hazards and sensitive land uses, as well as conduct air sampling, in order to compare their findings to official state inventories. The research results are contained in a December 2009 report, Hidden Hazards, produced by the Liberty Hill Foundation.

Sanchez, Thomas

Virginia Tech

Dr. Tom Sanchez earned his PhD in City Planning from Georgia Tech in 1996 and has since taught at Iowa State University, Portland State University, the University of Utah, before becoming professor and chair of the Urban Affairs and Planning program at Virginia Tech. Sanchez conducts research in the areas of transportation, land use, environmental justice, and the social aspects of planning and policy. Along with serving as chair Urban Affairs and Planning, he is editor of Housing Policy Debate, a nonresident senior fellow of the Brookings Institution, and chair of the TRB Social and Economic Factors in Transportation Committee.

Schulterbrandt Gragg, Richard David

Florida A&M University

Dr. Richard D. Schulterbrandt Gragg is Associate Professor of Environmental Science and Policy, Associate Director of the Environmental Sciences Institute, and Director of the Florida Center for Environmental Equity and Justice at Florida A&M University. He holds a BS in Biochemistry from Binghamton University, and an MS in Pharmacology and Ph.D. in Pharmaceutical Sciences from Florida A&M University. Dr. Gragg has received advanced training from the National Center for Toxicological Research, the Harvard Center for Risk Analysis, and the European Photobiology Association. His environmental justice and toxicology research focuses on the disparate environmental exposures and health outcomes, and public policy impacts, among susceptible populations. He is a member of the Gadsden County Community Health Council, the City of Tallahassee Environmental Advisory Board, and the National Council of Science and the Environment, Council of Environmental Deans and Directors. He is a former member of the Florida Environmental Regulations Commission, the EPA National Environmental Justice Advisory Council and its Health and Research Subcommittee, the Florida Brownfields Association Board of Directors and co-chair of its Environmental Justice and Public Health Committee. Dr. Gragg has also served as member of the Florida Department of Health Community Environmental Health Advisory Board, Chair of the Environmental Justice Committee for the Florida Department of Environmental Protection Contaminated Soils Forum, the Leon County Commission Science Advisory Committee, Staff Research Director for the Florida Environmental Equity and Justice Commission, and the Audubon of Florida Board of Directors.

Steinberg, Michael

Morgan Lewis

Michael W. Steinberg is Senior Counsel in the Litigation Practice Group resident in the Washington, D.C. office of Morgan, Lewis & Bockius LLP. His practice focuses exclusively on environmental law matters, with special emphasis on litigation and counseling on environmental justice issues, on hazardous waste issues under the Resource Conservation and Recovery Act, and on Superfund issues, along with related state statutes and rules. Mr. Steinberg litigated the landmark 1995 case in which EPA's Environmental Appeals Board upheld a RCRA hazardous waste landfill permit despite claims that the landfill would disproportionately affect minority and low-income residents. This case established key principles governing consideration of environmental justice issues in the RCRA permitting process. In re Chemical Waste Management of Indiana, Inc., 1995 EPA App. LEXIS 25 (EAB June 29, 1995). In 2001, Mr. Steinberg filed an amicus curiae brief in the U.S. Supreme Court on behalf of the National Association of Manufacturers in a key case under Title VI. Alexander v. Sandoval, 532 U.S. 275 (2001). The Court ruled that private citizens do not have a private right of action to enforce disparate impact rules issued by federal funding agencies such as EPA. Also in 2001, Mr. Steinberg filed an amicus brief on behalf of both the American Chemistry Council and the National Association of Manufacturers in South Camden Citizens in Action v. NJDEP, 274 F.3d 771 (3d Cir. 2001). South Camden was the first case in which an industrial facility was enjoined from operating on the ground that its permit was issued in violation of Title VI. That preliminary injunction was reversed by the Third Circuit in a ruling of major

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importance for environmental justice litigation. Mr. Steinberg serves as counsel to the Business Network for Environmental Justice ("BNEJ"), a broad-based coalition of trade associations and companies interested in environmental justice issues. He testified on behalf of the BNEJ at the first Senate hearing on environmental justice, held on July 25, 2007. Mr. Steinberg has also testified before the U.S. Commission on Civil Rights on environmental justice issues. He has filed written comments on behalf of the BNEJ on most major EPA policy documents relating to environmental justice. Mr. Steinberg has litigated numerous challenges to EPA rules in the D.C. Circuit on behalf of the oil and chemical industries. He achieved noteworthy results in such cases as Dithiocarbamate Task Force v. EPA, 98 F.3d 1394 (D.C. Cir. 1996), where the court set aside EPA's listing of hazardous wastes from specific processes; and Shell Oil Company v. EPA, 950 F.2d 741 (D.C. Cir. 1991), where the D.C. Circuit overturned EPA's 1980 "mixture rule." Mr. Steinberg has extensive experience in Superfund litigation, including challenging EPA rules in court, defending against EPA cost recovery actions, and handling private-party cost recovery actions in federal district court. Among his best-known cases is United States v. Olin, 927 F. Supp. 1502 (S.D. Ala. 1996), rev'd, 107 F.3d 1506 (11th Cir. 1997), where the trial court declared Superfund unconstitutional as applied to purely intrastate contamination. Mr. Steinberg also serves as counsel to the Superfund Settlements Project. Mr. Steinberg is the author of many publications, including Environmental Justice and RCRA Permits: Things are Not Always What They Seem, 26 Environment Reporter (BNA) 1025 (October 6, 1995) and "Making Sense of Environmental Justice," published in the Fall 2000 issue of the Forum for Applied Research and Public Policy. Other publications include: "Can Deference Turn a McDonald's Restaurant Into an Oil Refinery?", published in the February 2001 issue of the EPA Administrative Law Reporter; "Taking Superfund Seriously," 24 Environmental Forum 24 (ELI 2007); "Cloudy With a Chance of Contribution – Life After Cooper Industries," ABA Superfund & NRD Litigation Committee Newsletter (Sept. 2005); the "Civil and Criminal Enforcement" chapter of the American Bar Association's RCRA Practice Manual (2d ed. 2002); Defending Yourself While Defending Your Client: Avoiding Obstruction of Justice Charges in Criminal Environmental Investigations," published in 1998 in the BNA Toxics Law Reporter; EPA's New National Remedy Review Board Aims to Improve Superfund Decisions, 26 Environment Reporter (BNA) 2353 (April 12, 1996); and "Can EPA Sue Other Federal Agencies?," 17 Ecology Law Quarterly 317 (1991) A 1974 cum laude graduate of Yale University, Mr. Steinberg received his law degree in 1977 from the University of Pennsylvania Law School, where he was an editor of the University of Pennsylvania Law Review. He served as a law clerk to Judge Alfred L. Luongo of the U.S. District Court for the Eastern District of Pennsylvania from 1977 to 1979. Before rejoining Morgan Lewis in 1987, Mr. Steinberg served as the Assistant Chief of the Environmental Defense Section of the U.S. Department of Justice, where he handled and supervised litigation against EPA under all federal environmental statutes.

Subra, Wilma

Subra Company

Committed to protecting the environment and the health and safety of citizens, Wilma Subra started Subra Company in 1981. Subra Company is an environmental consulting firm in New Iberia, LA. Mrs. Subra provides technical assistance to citizens, across the United States and some foreign countries, concerned with their environment by combining technical research and evaluation. This information is then presented to community members so that strategies may be developed to address their local struggles. Utilizing the information gained from community involvement, the needs identified are translated into policy changes at the State and Federal level through service on multi-stake holder committees. She has just completed a seven year term as Vice-Chair of the Environmental Protection Agency National Advisory Council for Environmental Policy and Technology (NACEPT), a five year term on the National Advisory Committee of the U. S. Representative to the Commission for Environmental Cooperation and a six year term on the EPA National Environmental Justice Advisory Council (NEJAC). Service on the NEJAC included membership on the Cumulative Risk and Impacts Work Group, co-chair of the Pollution Prevention Work Group, and chair of the NEJAC Gulf Coast Hurricanes Work Group. Ms. Subra is currently focused on the environmental and human health impacts on environmental justice communities impacted by the Deepwater Horizon BP Disaster along the northern Gulf coast, superfund sites in environmental justice communities across the United States and shale gas play drilling, fracturing and production impacts on environmental justice communities over the Barnett, Marcellus, Haynesville, Fayetteville, and Eagle Ford shale areas. Mrs. Subra holds degrees in Microbiology/Chemistry from the University of Southwestern Louisiana. She received the MacArthur Fellowship "Genius" Award from the MacArthur Foundation for helping ordinary citizens understand, cope with and combat environmental issues in their communities.

Theis, Thomas L.

University of Illinois- Chicago

Professor Theis is Director of the Institute for Environmental Science and Policy (IESP) at the University of Illinois at Chicago. IESP focuses on the development of new cross-disciplinary research initiatives in the Environmental area. He was most recently at Clarkson University, where he was the Bayard D. Clarkson Professor and Director of the Center for Environmental Management. Professor Theis received his doctoral degree in environmental engineering, with a specialization in environmental chemistry, from the University of Notre Dame. His areas of expertise include the mathematical modeling and systems analysis of environmental processes, industrial pollution prevention, industrial ecology, the environmental chemistry of trace organic and inorganic substances, interfacial reactions, subsurface contaminant transport, and hazardous waste management. Dr. Theis has been principal or co-principal investigator on over fifty funded research projects and has authored or co-authored over one hundred papers in peer reviewed research journals, books, and reports. He served as a member of the USEPA Chartered Science Advisory Board (2003-2009), and is past editor of the Journal of Environmental Engineering. From 1980-1985 he was the co-director of the Industrial Waste Elimination Research Center (a collaboration of Illinois Institute of Technology and University of Notre Dame), one of the first Centers of Excellence established by the USEPA. In 1989 he was an invited participant on the United Nations' Scientific Committee on Problems in the Environment (SCOPE) Workshop on Groundwater Contamination, in 1998 he was invited to by the World Bank to assist in the development of the first environmental engineering program in Argentina, in January, 2009 he delivered the keynote address at the NitroEurope Conference in Gothenburg, Sweden, and in October 2009 he was a member of the US delegation to the US-Japan Workshop on Life Cycle Assessment and Infrastructure Materials in Sapporo, Japan. He is the founding Principal Investigator of the Environmental Manufacturing Management Program.

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Timmins, Christopher

Duke University

Dr. Christopher Timmins is an Associate Professor in the Department of Economics at Duke University, with a secondary appointment in Duke's Nicholas School of the Environment. He holds a BSFS degree from Georgetown University and a PhD in Economics from Stanford University. Professor Timmins was an Assistant Professor for seven years in the Yale Department of Economics before joining the faculty at Duke in 2004. His professional activities include teaching, research, and editorial responsibilities. Professor Timmins' research interests include new methods for non-market valuation of local public goods and amenities, with a particular focus on hedonic techniques and models of residential sorting. His recent research has focused on the costs associated with exposure to poor air quality, and the benefits associated with remediating toxic waste and brownfields. Professor Timmins is a research associate in the Environmental and Energy Economics group at the National Bureau of Economic Research, and has served as a reviewer for numerous environmental, urban, and applied microeconomics journals. He currently serves on the editorial board of the American Economic Review and is a co-editor of the Journal of Environmental Economics and Management.

Vaidya, Aditi

East Bay Alliance for a Sustainable Economy (EBASE)

Ms. Vaidya is an environmental and occupational health professional who brings ten years of experience in environmental health science, community engagement and organizing and coalition building around public health, environmental justice and worker rights issues. Ms. Vaidya serves as a Campaign Director for the East Bay Alliance for a Sustainable Economy (EBASE) to promote living wage and health for workers at the Port of Oakland and helps to organize the Coalition for Clean and Safe Ports, a coalition of over 80 environmental, health, environmental justice labor, faith, and community organizations promoting sustainable economic development at the Port of Oakland. Ms. Vaidya has served as the Program Director for the Silicon Valley Toxics Coalition, where she organized the some of the first environmental health and safety trainings for electronics workers and coordinated campaigns and research to demand environmental and occupational health for communities and workers impacted by the high-tech industry. Ms. Vaidya is the recent past Board Chair for the Asian Pacific Environmental Network, serves on the Board of Worksafe and is a member of the American Public Health Association Governing Council as well as the Advisory Boards of CorpWatch and the Labor Occupational Health Program of the University of California. She has previously worked with the Jenifer Altman Foundation, Southwest Network for Environmental and Economic Justice and the League of Conservation Voters Education Fund and was the cochair of the Saguro Fund of the Funding Exchange. She holds a Masters in Public Health in environmental and occupational health from Emory University.

Walsh, Randall

University of Pittsburgh

Dr. Randall P. Walsh is an Associate Professor of Economics at the University of Pittsburgh. Prior to joining the faculty of the University of Pittsburgh he was on the faculty of the University of Colorado. He received a B.S. Summa Cum Laude from the University of New Hampshire and a Ph.D. in Economics from Duke University. He has been an active researcher in the area of environmental and urban economics for over 10 years, focusing on issues related to environmental quality, income, race, and neighborhood choice. He has published close to 20 peer-reviewed manuscripts, including publications in top Economics Journals. He has made more than 60 presentations of his research to the Scientific Community both in the United States and Internationally. His research on environmental quality and the demographic composition of neighborhoods has been supported by both the National Science Foundation and the National Institutes of Health. Dr. Walsh's broader service has included participation in E.P.A. sponsored workshops on Regulating Hazardous Air Pollutants and Incorporating Environmental Justice Concerns into E.P.A. Rulemaking. He is currently a member of the Allegheny County Health Department Air Toxics Committee where he is the Chair of the Subcommittee on Background Concentrations and Existing Sources. He is also a member of the Academic Advisory Committee for the University of Pittsburgh's Center on Race and Social Problems.

Wilson, Sacoby

University of South Carolina

Dr. Sacoby Miquel Wilson is a Research Assistant Professor at the University of South Carolina with appointments at the Institute for Families in Society, Department of Epidemiology and Biostatistics, and College of Social Work. Dr. Wilson is also a visiting professor with the Maryland Institute for Applied Environmental Health, School of Public Health, University of Maryland. He received his B.S. degree in Biology/Ecotoxicology from Alabama Agricultural and Mechanical University and both his M.S. and Ph.D. degrees in environmental health from the University of North Carolina at Chapel Hill. He received his postdoctoral training as a Robert Wood Johnson Health and Society Scholar at the University of Michigan Center for Social Epidemiology and Population Health. Dr. Wilson has over ten years of experience performing environmental health research in the areas of environmental justice science, environmental health disparities, exposure assessment, Geographic Information Systems, air pollution monitoring, built environment, climate change, and community-based participatory research. He has several funded NIEHS projects including a project to assess human exposure to environmental stressors in North Charleston, SC, in partnership with the Low Country Alliance for Model Communities. He is also working with the West End Revitalization Association in Mebane, NC to assess infrastructure disparities and exposure and health issues related to the lack of basic amenities. Dr. Wilson is Chair of the Environment Section of the American Public Health Association, a member of a NAS committee on the Development of Exposure Science for the 21st Century, a member of the Board of Scientific Counselors for CDC/NCEH, and is on the Board for Community Campus Partnerships for Health.