

Affordability of NFIP Premiums

Committee

Leonard A. Shabman

Chair

Leonard A. Shabman, Chair, joined Resources for the Future in 2002 as a resident scholar after three decades on the faculty at Virginia Tech. His research and communications efforts are focused on programs and responsibilities for flood and coastal storm risk management, design of payment for ecosystem services programs, and development of evaluation protocols for ecosystem restoration and management projects, with special focus on the Everglades, Coastal Louisiana and Chesapeake Bay. Among the specific topics related to these broader themes is applied research on permitting under Section 404 of the Clean Water Act, creating market-based incentives for water quality management and provision of ecosystem services, and design of collaborative water management institutions. He served for eight years on the NRC's Water Science and Technology Board, has chaired or been a member of several NRC committees, and has been recognized as an Associate of the National Academy of Sciences.

Sudipto Banerjee

Member

Sudipto Banerjee is Professor of Biostatistics at the School of Public Health, University of Minnesota. His research, dissertation advising and mentoring activities focus upon statistical modeling and analysis of geographically referenced datasets, Bayesian statistics, the interface between statistics and Geographical Information Systems, and statistical computing. He received an NIH Challenge Grant under the ARRA in 2009. That year he was honored with the Abdel El Sharaawi Award from the International Environmetrics Society, and in 2011 he was honored with the Mortimer Spiegelman Award from the American Association of Public Health. He is an elected fellow of the American Statistical Association and an elected member of the International Statistical Institute. Dr. Banerjee received his B.S from Presidency College and his Masters in statistics from the Indian Statistical Institute, both in Calcutta, and his M.S. and Ph.D. degrees in statistics from the University of Connecticut.

John J. Boland

Member

John J. Boland is an engineer and economist and is Professor Emeritus in the Department of Geography and Environmental Engineering at the Johns Hopkins University. His fields of research include water and energy resources, environmental economics, benefit-cost analysis, and public utility management. Dr. Boland has studied resource problems in more than 20 countries, has published more than 200 papers and reports, and is a coauthor of two books on water demand management and three more on environmental management. He has served on several NRC committees and is a founding member and past chair of the Water Science and Technology Board. Dr. Boland received his Ph.D. degree in environmental economics from the Johns Hopkins University.

Patrick L. Brockett

Member

Patrick L. Brockett is the Director of the Risk Management and Insurance Program and the Gus S. Wortham Memorial Chair in Risk Management and Insurance at the University of Texas at Austin. He conducts research in a wide variety of fields including risk management and insurance, financial risk, actuarial science, decision analysis, management science/operations management and research, statistical analysis and business applications, and information theory. Dr. Brockett was elected as a fellow to the Institute for Risk Management in 2008. In 2006, he received the American Risk and Insurance Association Outstanding Achievement Award, for furthering the science of risk management through the promotion of education, research and communication during his nine-year tenure as editor of The Journal of Risk and Insurance from 1998-2006. He also is an elected member of the International Statistical Institute. Dr. Brockett received his B.S. in mathematics from California State University-Long Beach, and his M.S. and Ph.D. in mathematics from the University of California, Irvine.

Raymond J. Burby

Member

Raymond J. Burby is Professor Emeritus of city and regional planning at the University of North Carolina at Chapel Hill. He rejoined the UNC faculty in 2000 after serving as the DeBlois Chair of Urban and Public Affairs and a Distinguished Professor of Urban and Regional Planning at the University of New Orleans from 1992-2000. Professor Burby is the author/co-author/editor of fourteen books and more than one hundred and fifty articles and other publications on issues in hazard mitigation and land-use planning and management. Dr. Burby has served as an associate editor of the *Natural Hazards Review* and was co-editor of the *Journal of the American Planning Association* from 1983 to 1988. He has served on NRC committees on pipeline safety, dam and levee safety, and lessons from Hurricane Katrina. His current research interests include federal and state hazard mitigation planning mandates, integration of hazard mitigation plans with local comprehensive plans, and improvements in code enforcement to create disaster resilient communities. He received his M.R.P. and Ph.D. degrees in planning from the University of North Carolina at Chapel Hill.

Scott Edelman

Member

Scott A. Edelman, director of the AECOM Water Resources team within North America, has 32 years of experience devoted to flood insurance studies and floodplain mapping. Mr. Edelman has been responsible for overseeing AECOM's floodplain mapping and mitigation work for the Federal Emergency Management Agency, as well as many state and local partners, including Georgia, Alabama, North Carolina, South Carolina, Mississippi, Maryland, and California. Mr. Edelman was a key contributor to FEMA projects such as the initial Multi-Year Flood Hazard Identification Plan, developing the initial concepts for the Mapping Information Platform and contributing to Guidelines and Specifications. He has managed riverine and coastal flood insurance studies for the past 23 years, including more than 15,000 Digital Flood Insurance Rate Map panels, which represents approximately 10-15 percent of the floodplain maps in the nation. Mr. Edelman is a licensed professional engineer in five states. He served on the NRC Committee on Floodplain Mapping Technologies. He received his B.S. degree in civil engineering from Pennsylvania State University.

W. Michael Hanemann

Member

W. Michael Hanemann, NAS, is a professor of economics and holds the Wrigley Chair in Sustainability at the School of Sustainability, Arizona State University. He is also a Professor of the Graduate School, and Chancellor's Professor Emeritus, in the Department of Agricultural and Resource Economics at the University of California, Berkeley. Elected to the National Academy of Sciences in 2011, Dr. Hanemann is an environmental economist who works in the areas of non-market valuation, water economics and policy, and climate change. A major focus of his current research on water is the distinctive physical and institutional features of water, the evolution of water rights and institutions in the American West, and the legacy effects in terms of obstacles to promoting better uses of water, balancing extractive versus in-stream uses of water, and adapting water rights to face the challenges of climate change. He is a lead author and coordinating lead author in Working Group III of the IPCC's Fifth Assessment Report. He received his Ph.D. in economics from Harvard University.

Carolyn Kousky

Member

Carolyn Kousky is a fellow at Resources for the Future in Washington, D.C. She is interested in individual and societal understanding of, preparation for, and response to low-probability, high-consequence events. She has examined how individuals learn about extreme event risk, the demand for natural disaster insurance, the functioning of the National Flood Insurance Program, and policy responses to a potential change in extreme events with climate change. She is also interested in the use of natural capital to reduce vulnerability to weather-related disasters. Dr. Kousky holds a B.S. in earth systems from Stanford University and a Ph.D. in public policy from Harvard University.

Howard C. Kunreuther

Member

Howard C. Kunreuther is the James G. Dinan Professor at the University of Pennsylvania's Wharton School of Business and co-director of the Wharton Risk Management and Decision Processes Center. He has a long-standing interest in ways that society can better manage low-probability, high-consequence events related to technological and natural hazards. Dr. Kunreuther is a Fellow of the AAAS and a Distinguished Fellow of the Society for Risk Analysis, receiving the Society's Distinguished Achievement Award in 2001. He recently served on the NRC committee on Increasing National Resilience to Hazards and Disasters. He is a coordinating lead author for the upcoming report, "Integrated Risk and Uncertainty Assessment of Climate Change Response Policies," to be released by the IPCC. His most recent book is Insurance and Behavioral Economics: Improving Decisions in the Most Misunderstood Industry (with M. Pauly and S. McMorrow, 2013). Dr. Kunreuther received his Ph.D. in economics from the Massachusetts Institute of Technology.

Shirley Laska

Member

Shirley Laska is Professor Emerita of sociology and founding past director of the Center for Hazards Assessment, Response and Technology at the University of New Orleans. She has been conducting research on the social/environmental interface, natural and technological hazards, and disaster response for 25 years. Her work includes studies on residential flood mitigation, hurricane response, coastal land loss effects, coastal fisheries, community risk assessment and risk management for coastal hazards, use of information technology and GIS in disaster management, and evacuation of the vulnerable. Since Hurricane Katrina her work has been focused specifically on lessons to be learned from the event, especially in the realm of community recovery and hazard resiliency. Dr. Laska is the 2008 recipient of the American Sociological Association's Public Understanding of Sociology Award for her continuous collaboration with physical scientists and her presentations nationwide on Katrina/Rita impacts. She was a member of the NRC Committee on Integrating Dam and Levee Safety and Community Resilience. She received her Ph.D. degree in sociology from Tulane University.

David R. Maidment

Member

David R. Maidment is the Hussein M. Alharthy Centennial Chair in Civil Engineering at the University of Texas at Austin where he has been on the faculty since 1981. Dr. Maidment's research focuses on surface water hydrology, particularly in the application of geographic information systems to hydrology, and floodplain mapping. He has chaired or been a member of ten NRC Committees, including the Committees on FEMA Flood Maps and FEMA Floodplain Mapping Technologies. Dr. Maidment has received awards for outstanding contributions to hydrology from the American Society of Civil Engineers, the American Water Resources Association and the American Institute of Hydrology. He received his Ph.D. degree in civil engineering from the University of Illinois at Urbana-Champaign.

David I. Maurstad

Member

David I. Maurstad is a director and senior vice president with OST, Inc., a provider of management consulting, integrated information technology, engineering services, and business process outsourcing in Washington, DC. He has more than 30 years of leadership experience with both the private insurance industry and federal, state, and local government. Mr. Maurstad previously served as director of water policy and planning for Atkins specializing in flood mapping and floodplain management. In June 2004, he was appointed by President George W. Bush to provide leadership for some of the nation's leading multi-hazard risk reduction programs. In this role he was the federal insurance administrator charged with the overall management of FEMA's National Flood Insurance Program. He was the director of FEMA Region VIII from 2001 to 2004 and served as Nebraska Lieutenant Governor, Nebraska State Senator and Mayor of Beatrice, NE. He received his B.S. degree in business administration and his M.B.A. degree from the University of Nebraska.

Allen L. Schirm

Member

Allen L. Schirm is the director of methods and a senior fellow at Mathematica Policy Research. His principal research interests include small-area estimation, census methods, and sample and evaluation design, with application to studies of child well-being and welfare, food and nutrition, and education policy. For the NRC Committee on National Statistics, he chaired the Panel on Estimating Children Eligible for School Nutrition Programs Using the American Community Survey, and was a member of the Panel on the Design of the 2010 Census Program of Evaluations and Experiments, the Panel on Research on Future Census Methods, the Panel on Formula Allocations, and the Panel on Estimates of Poverty for Small Geographic Areas. He is a Fellow of the American Statistical Association, and was recently chair of its Social Statistics Section. Dr. Schirm holds an A.B. in statistics from Princeton University and a Ph.D. in economics from the University of Pennsylvania.