

DISASTERS ROUNDTABLE 16

COMMUNITY DISASTER RESILIENCE

MARCH 20, 2006

500 FIFTH STREET NW
KECK CENTER - ROOM 100
WASHINGTON, DC 20001

THE NATIONAL ACADEMIES
Advisers to the Nation on Science, Engineering, and Medicine

THE NATIONAL ACADEMIES

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Disasters Roundtable Steering Committee

The mission of the Disasters Roundtable is to facilitate and enhance communication and the exchange of ideas among scientists, practitioners, and policymakers in order to identify urgent and important issues related to the understanding and mitigation of natural, technological, and other disasters. The Disasters Roundtable convenes three annual workshops in Washington, DC focused on disaster-related topics.

The Disasters Roundtable Steering Committee identifies workshop topics, creates agendas, and recruits expert speakers for Disasters Roundtable events. The steering committee is made up of seven appointed members and seven representatives from sponsoring agencies and organizations, who serve as ex officio members.

APPOINTED MEMBERS

William H. Hooke, *CHAIR*, American Meteorological Society, Washington, DC
Ronald T. Eguchi, ImageCat, Inc.
John R. Harrald, Institute for Crisis, Disaster, and Risk Management, George Washington University
Juan M. Ortiz, Tarrant County Office of Emergency Management, City of Fort Worth, TX
Havidán Rodríguez, Department of Sociology and Criminal Justice, University of Delaware
Monica Schoch-Spana, Center for BioSecurity, University of Pittsburgh Medical Center
David Simpson, Department of Urban & Public Affairs, University of Louisville

EX OFFICIO MEMBERS

Stephen Ambrose, National Aeronautics and Space Administration
Frank Best, PB Alltech, Inc.
Thomas A. Birkland, National Science Foundation
Lloyd S. Cluff, Pacific Gas & Electric
Timothy A. Cohn, U.S. Geological Survey
Gerard J. Hoetmer, Public Enterprise Risk Institute
Helen M. Wood, National Oceanic and Atmospheric Administration

STAFF

William A. Anderson, Associate Executive Director, Division on Earth and Life Studies
Byron Mason, Program Associate, Division on Earth and Life Studies

CONTACT US

Disasters Roundtable
The National Academies
500 5th Street, NW - Keck WS617
Washington, DC 20001
Tel: 202-334-3511
Fax: 202-334-3362
<http://dels.nas.edu/dr/>

Disasters Roundtable Workshops

March 20, 2006 Community Disaster Resilience

October 18, 2005 Law, Science, and Disaster

June 21, 2005 The Indian Ocean Tsunami Disaster: Implications for U.S. and Global Disaster Reduction and Preparedness

March 8, 2005 Lessons Learned Between Hurricanes: From Hugo to Charley, Frances, Ivan, and Jean

October 28, 2004 Creating a Disaster Resilient America: Grand Challenges in Science and Technology

June 22, 2004 Public Health Risks of Disasters: Building Capacity to Respond

March 2, 2004 Reducing Future Flood Losses: The Role of Human Actions

October 22, 2003 Hazards Watch: Reducing Disaster Losses through Improved Earth Observations

June 13, 2003 The Emergency Manager of the Future

February 20, 2003 NEHRP at Twenty-Five Years: Accomplishments and Challenges

October 31, 2002 Alerting America: Effective Risk Communication

June 28, 2002 From Climate to Weather: Impacts on Society and Economy

February 28 - March 1, 2002 Countering Terrorism: Lessons Learned from Natural and Technological Disasters

October 25, 2001 Sea Level Rise and Coastal Disasters

June 12, 2001 Natural Disasters and Energy Policy

January 26, 2001 Urban/Wildland Fire Interface

Please visit <http://dels.nas.edu/dr> to download workshop summaries

Community Disaster Resilience

A Disasters Roundtable Workshop

March 20, 2006

Keck Center, Room 100
500 Fifth Street, NW
Washington, DC 20001

Through its three annual public workshops, the Disasters Roundtable examines issues related to natural, technological and willful disasters and how advances in science and technology can aid in disaster mitigation, preparedness, response, and recovery. This workshop will bring together researchers, policy makers, and practitioners in the hazards and disaster field to focus on community resilience in the face of disaster. The destruction that Hurricane Katrina left in its wake in Gulf Coast communities in 2005 clearly demonstrates the importance of this concept.

As noted in the report prepared by the federal Subcommittee on Disaster Reduction entitled Grand Challenges for Disaster Reduction, mitigation and preparedness efforts, when they are informed by science, are crucial in promoting community disaster resilience. For example, science-based mitigation actions can reduce the impacts of disaster agents on communities. However, since various types of disasters can still occur despite such actions, especially in communities facing multiple hazards, pre-disaster preparedness planning efforts involving all relevant stakeholders are also needed to guide emergency responses and to meet the challenges that mitigation efforts could not anticipate or overcome. Additionally, pre-disaster recovery planning provides the opportunity for communities to not only create plans for long-term physical and socio-economic recovery from possible future events, but to also develop a vision for how reconstruction and recovery can be used to increase disaster resilience. Strategic mitigation, emergency preparedness, and recovery actions increase the capacity of communities to withstand disasters, especially when such actions are coupled with needed outside assistance from the federal and state government and other sources.

Workshop presenters and attendees will discuss such issues as the nature of community disaster resilience, what can further and inhibit it, and how it can be measured to determine the degree to which it is realized. The focus of the workshop, the 16th in the Disasters Roundtable series, will be on the local level, where the greatest impact of disasters is felt, as shown by Hurricane Katrina. The workshop will build on the 12th workshop in the series, "Creating a Disaster Resilient America: Grand Challenges in Science and Technology," which focused on the national level.

Workshop Agenda

- 9:00 a.m. Welcome and Introduction to the Workshop
William H. Hooke, American Meteorological Society, and Chair, Disasters Roundtable
- 9:10 a.m. Session I: Local Perspectives
Furthering Community Disaster Resilience in the City of Berkeley, CA
Arrietta Chakos, City of Berkeley
Disaster Resistant University Program at the University of California, Berkeley
Sarah K. Nathe, University of California, Berkeley
Disaster Preparedness Challenges to Community Public Health Infrastructure
Elin Gursky, ANSER, Analytic Services
Moderator: Monica Schoch-Spana
- 10:10 a.m. Questions and Discussion
- 10:30 a.m. Break
- 10:45 a.m. Session II: Citizens and Demographic Groups
Strengthening Citizen Disaster Preparedness
Michael Barnett, Office of Congressman Patrick J. Kennedy
Community Diversity, Vulnerability and Resilience: What's the Connection?
Elaine Enarson, Brandon University
Moderator: Juan M. Ortiz
- 11:25 a.m. Questions and Discussion
- 11:45 a.m. Lunch (cafeteria available on 3rd floor)

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- 12:45 p.m. **Session III: Perspectives from Research and Analysis**
- Research Initiatives at the Multidisciplinary Center for Earthquake Engineering Research (MCEER) to Further Earthquake Resilient Communities
Michel Bruneau, MCEER/SUNY at Buffalo
- Measuring Community Emergency Preparedness
David Simpson University of Louisville
- Multihazard Mitigation Council's Study on the Benefits and Costs of FEMA Mitigation Programs
Philip Thomas Ganderton, University of New Mexico;
Ronald T. Eguchi, ImageCat, Inc.;
Deborah Ingram, FEMA/DHS
- Moderator: John R. Harrald, George Washington University
- 2:30 p.m. **Break**
- 2:45 p.m. **Questions and Discussion**
- 3:05 p.m. **Session IV: Resilience and Community Recovery**
- Lessons Learned About Recovery in the Business and Other Sectors
Daniel J. Alesch, University of Wisconsin, Green Bay
- Emerging Patterns of Rebuilding and Recovery in New Orleans following Hurricane Katrina – Laura Steinberg, Tulane University
- Moderator: Gerard J. Hoetmer
- 4:00 p.m. **Questions and Discussion**
- 4:20 p.m. **Concluding Remarks**
- William H. Hooke, American Meteorological Society, and Chair, Disasters Roundtable
- 4:30 p.m. **Adjourn**
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Speaker Biographies

Daniel J. Alesch conducts research on mitigating and recovering from the effects of extreme events. His work centers on organizational decision making about mitigating the effects of extreme events, the design of public policies to stimulate hazard mitigation, and long-term recovery processes for businesses, communities, and municipal government. Dr. Alesch is an emeritus professor at the University of Wisconsin-Green Bay where he retired from teaching public and business management. Before joining the University, he was a senior social scientist at RAND, the California-based, not for profit think tank. He was also a member of the research staff of the University of Southern California, School of Public Administration, served in the New York State Executive Chamber under Governor Nelson Rockefeller, and was a post-graduate fellow at the Institute for Public Administration, New York. He has consulted for businesses and governments in the United States and Asia, is a frequent speaker on extreme events, and has published extensively. Dan Alesch holds BS and MS degrees from the University of Wisconsin-Madison, and MA and Ph.D. from the University of California, Los Angeles.

Michael Barnett is a physician and works with the Office of Congressman Patrick J. Kennedy (D-RI) on issues related to resilience and emergency management. Dr. Barnett originally began working in the Office of Congressman Kennedy in January 2003 to help with his extensive legislative agenda focused on healthcare, particularly mental healthcare. His work soon shifted to focusing on the concept of resilient communities during a time of modern terrorism, and helped draft the only two bills introduced into the United States Congress on resiliency. The goals of the latest bill, the Ready, Willing, and Able Act, HR 3565 of the 109th Congress, are to foster a culture of emergency preparedness while removing the social and structural obstacles, which interfere with citizens' taking a more active and direct role in the protection of their communities. Dr. Barnett has published articles in professional journals on numerous topics ranging from unique heterocyclic organic compounds, to rare sweat gland tumors, to emergency medicine. He has also spoken on numerous occasions about resilience including at a recent NATO Advanced Research Workshop, and he is on the advisory board for a proposed national study of resilience in rural communities in Canada that have experienced disasters: as well as an advisor to the Security Culture Core Group, an international group, based in the University of Georgia, advising the IAEA on how to develop a "security culture" with regard to the use, transportation, and storage of fissile material. Dr. Barnett completed his undergraduate work at Hunter College of the City University of New York and is a graduate of New York Medical College. He completed his residency at the George Washington University Medical Center located in Washington, DC where he was chief resident.

Michel Bruneau is director of the Multidisciplinary Center for Earthquake Engineering Research (MCEER) headquartered at the University at Buffalo. MCEER is a National Science Foundation "Center of Excellence" in earthquake engineering. Bruneau previously served as deputy director of MCEER from 1998 to 2003. Bruneau also is a professor of civil, structural and environmental engineering within UB's School of Engineering and Applied Sciences (SEAS), and is one of UB's top recipients of federal research grants. He is author and co-author of numerous research articles and one book on earthquake-engineering principles, and he has participated in several reconnaissance visits to assess structural damage caused by earthquakes and other disasters around the world. In 2001, Bruneau was part of an MCEER team that investigated structural damage to buildings near the World Trade Center towers after their collapse on Sept. 11.

Arrietta Chakos has worked for the City of Berkeley since 1994 beginning as an Assistant to the City Manager, and since 1998 as Chief of Staff. Her responsibilities include intergovernmental relations and hazard mitigation. Chakos has worked in local government for thirteen years, starting as legislative liaison for the Berkeley School District. Chakos has served on disaster preparedness and hazard mitigation panels at regional, state, federal and international levels.

Elaine Enarson is an American disaster sociologist currently teaching in the Applied Disaster and Emergency Studies Department of Brandon University in Manitoba, Canada. Author of *Woods-Working Women: Sexual Integration in the U.S. Forest Service* (1984) and co-editor of the international reader *The Gendered Terrain of Disaster: Through Women's Eyes* (1998), her recent research and publications have addressed social vulnerability issues with particular emphasis on women and gender. Among these are studies of the impacts of hurricane Andrew on women, response and preparedness in US and Canadian domestic violence agencies, women's paid and unpaid work in the Red River Valley flood, gender patterns in flood evacuation, women's human rights in disasters, and the impacts of drought and earthquake on rural women in Gujarat, India. Other publications have focused on gender and employment issues in disasters (for the ILO) and gender, environmental management and disaster risk reduction (for the UN Division for the Advancement of Women). She was lead course developer of the on-line FEMA course on social vulnerability, and project manager of an action research project on risk assessment working with grassroots women in the Caribbean. Dr. Enarson's most recent publications are "Making Risky Environments Safer: Women Building Sustainable and Disaster Resilient Communities," "International Perspectives on Gender and Disaster," and a chapter on Social Vulnerability and Special Populations forthcoming in the ICCMA publication *Emergency Management: Principles and Practice for Local Government*.

Philip Thomas Ganderton is professor and chair of the Department of Economics at the University of New Mexico where he has taught since 1989. Dr. Ganderton's research concerns human capital and environmental economics. He also investigates water market issues in the southwest, particularly conjunctive use management in New Mexico, and groundwater contamination and general valuation issues. Dr. Ganderton has published extensively, and his articles include "Improving the Homeland Security Advisory System: An Experimental Analysis of Threat Communication for National Security" with David S. Brookshire and Richard L. Bernknopf, In Richardson. He completed his undergraduate work at the University of Western Australia, Nedlands and received his Ph.D. in economics from the University of California, Santa Barbara.

Elin Gursky is the principal deputy for Biodefense in the National Strategies Support Directorate of ANSER/Analytic Services (Arlington, VA) where she focuses on biodefense and health security issues. From 1986 through 1998, Gursky held senior executive positions in local and state public health agencies in Maryland and New Jersey. In 1999 she accepted the position of vice president for Public Health for a 10-hospital acute care health system, where she worked to bridge the practice gaps between medicine and public health. Previous to her arrival at ANSER in September 2002, Gursky completed a one-year fellowship at the Johns Hopkins Center for Civilian Biodefense Strategies. She has extensive experience applying mass population-protection strategies to mitigate large-scale epidemics, including epidemiological investigations and outbreak control, pre- and post-event vaccination, post-exposure prophylaxis, and risk assessment and communication. Gursky has advised top officials from the Department of Homeland Security, Northern Command (NORTHCOM), and the Joint Task Force Civil Support on their interface with the civilian sector on issues pertaining to bioterrorism preparedness and response. An epidemiologist, Dr. Gursky received a Doctor of Science degree ('85) from the Johns Hopkins University Bloomberg School of Public Health. Dr. Gursky's recent publications include *Epidemic Proportions: Building National Public Health Capabilities to meet National Security Threats*; *Drafted to Fight Terror: U.S. Public Health on the Front Lines of Biological Defense*; *The Threat of Smallpox: Eradicated But Not Erased*; *Hometown Hospitals—The Weakest Link? Bioterrorism Readiness in America's Rural Hospitals*; *Progress and Peril: Bioterrorism Preparedness Dollars and Public Health*; and *Anthrax 2001: Observations on the Medical and Public Health Response*.

Deborah Ingram has served in a variety of senior positions in FEMA's Mitigation Division in Washington, DC for nearly six years. She is currently the chief of the Risk Reduction Branch in Mitigation, a position she has held since March 2004. In this capacity, Ms. Ingram has responsibility for oversight for a number of programs designed to help states and communities reduce their vulnerability to natural hazards, including: through FEMA's major hazard mitigation assistance programs (the Hazard Mitigation Grant Program; the Flood Mitigation Assistance Program; and the nationally competitive Pre-Disaster Mitigation grant program) and through oversight of other key program areas including Floodplain Management and Building Sciences. During the past two years, Ms. Ingram also has had responsibility for state and local hazard mitigation planning; Mitigation Disaster Operations; and Environmental and Historic Preservation compliance for all FEMA programs and facilities. Prior to joining FEMA, she spent eleven years at EPA, where she held a variety of senior and management positions in strategic planning, and administration and resources management. She began her public service career working at the local government level in North Carolina, and later in Virginia, where she managed and implemented a variety of federally funded grant programs. Ms. Ingram holds an M.A. in Public Administration from the University of Virginia, and a M.A. in Psychology from George Mason University.

Sarah K. Nathe coordinates the Disaster Resistant University Project at the University of California, Berkeley, which she joined in 1999 after ten years of experience as a senior planner at the Coastal Region Earthquake Program of the California Office of Emergency Services. Nathe is a member of EERI's Publications Policy Committee and the Social Science Committee of the Learning from Earthquakes Program. Additionally, as associate editor of the newsletter, she edits the special earthquake report inserts produced by the reconnaissance teams that investigate significant earthquakes around the world. While at California OES, she worked with EERI on a number of collaborative projects including development of the special publication, Incentives and Impediments to Improving the Seismic Performance of Buildings. Nathe's career in hazards education began at the University of Colorado many years ago. When the Natural Hazards Research and Applications Information Center (NHRAIC) was founded at CU, she was appointed as one of the editors of the Natural Hazards Observer, and edited many of the Center's other publications designed to improve communications among hazards researchers and practitioners. After being a hazards generalist for 12 years, she moved to California in the late 80s to specialize in earthquake hazard mitigation for the Bay Area Regional Earthquake Preparedness Project. Her responsibilities for BAREPP included writing and editing the newsletter, and creating numerous public education materials and planning guidelines.

Laura J. Steinberg is an associate professor of civil and environmental engineering at Tulane University and visiting scientist at The George Washington University's Institute for Crisis, Disaster, and Risk Management. Before attending graduate school, Steinberg worked for Louis Berger International of East Orange, New Jersey holding positions as Engineer/Planner, Senior Engineer, and Environmental Engineering Department Head. In these capacities, she worked on a variety of projects including the Environmental Impact Statement for the MX Missile and the design of a new 30,000-person U.S. airbase in the Middle East. After a year-long stint in the MBA program at the University of Chicago, during which she worked with Lester B. Knight and Associates on planning for the Superconducting Super Collider, she returned to the New York area as Business Development Manager for the environmental engineering firm Geraghty and Miller, Inc. Following a post-doctoral appointment at the National Institute of Statistical Science during which she studied environmental justice and urban air pollution, Steinberg joined the Department of Civil and Environmental Engineering at Tulane University. There, her research has focused on natural hazards management, water quality modeling, and environmental technology diffusion within the wastewater industry. Steinberg is the chair of the Water Resources/Environmental Engineering Committee of the New Orleans American Society of Civil Engineers (ASCE), a member of the ASCE National Water Policy Board and the Water Environment Federation's Disinfection Committee, and a former member of the Chapel Hill, NC Planning Board. Education: B.S.E. in Civil and Urban Engineering from the University of Pennsylvania and an M.S. and Ph.D. in Environmental Engineering from Duke University.

Committee Biographies

William H. Hooke is *chair* of the Disasters Roundtable Steering Committee. He is a Senior Policy Fellow and the Director of the Atmospheric Policy Program at the American Meteorological Society in Washington, DC. Prior to arriving at AMS in 2000, Dr. Hooke worked for the National Oceanic and Atmospheric Administration (NOAA) and antecedent agencies for 33 years. After six years of research with NOAA he moved into a series of management positions of increasing scope and responsibility including Chief of the Wave Propagation Laboratory Atmospheric Studies Branch, Director of NOAA's Environmental Sciences Group (now the Forecast Systems Lab), Deputy Chief Scientist, and Acting Chief Scientist of NOAA. Between 1993 and 2000, he held two national responsibilities: Director of the U.S. Weather Research Program Office, and Chair of the interagency Subcommittee for Disaster Reduction of the National Science and Technology Council Committee on Environment and Natural Resources. Dr. Hooke was a faculty member at the University of Colorado from 1969 to 1987, and served as a fellow of two NOAA Joint Institutes (CIRES, 1971-1977; CIRA 1987-2000). The author of over fifty refereed publications and co-author of one book, Dr. Hooke holds a B.S. (Physics Honors) from Swarthmore College (1964), and S.M. (1966) and Ph.D. (1967) degrees from the University of Chicago.

Stephen D. Ambrose is a physical scientist with the Earth Science Enterprise at NASA. He is a graduate of the University of Maryland with a BS degree in Physical Sciences/Meteorology in 1977 with minors in Astronomy and Geology and performed graduate work in Climatology studying acid rain deposition and pollution at the University of Maryland Department of Geography. Mr. Ambrose has been a scientist with the Federal Government for 26 years. He joined NOAA in 1978 in the Office of Oceanography of the National Ocean Service and continued his career at NOAA at the National Weather Service Headquarters (Hydrology and Meteorology), and National Environmental Data and Information Service (Computer Information Systems, Geostationary Satellite Scientist) as a physical scientist, meteorologist and program manager for 23 years. In 2000 he joined the Department of Interior, Fish and Wildlife Service as Director of the National Wetlands Inventory Center, and in 2002 became Program Manager for Disaster Management and Homeland Security at NASA Headquarters, Office of Earth Science.

Frank Best is vice president of Parsons Brinckerhoff (PB), Inc. and Manager of the Insurance Industry Services Unit, focussing on inspection management. He is a PB Certified Senior Project Manager and a Senior Supervising Administrative Manager. As the manager of the insurance field service unit, Best has developed and continually upgraded the unit's field labor capacity and the evolution of workflow management tools providing clients with reliable and flexible data capture and internal management options. Under his management his unit developed a high-speed optical character recognition (OCR) field capture system that has been broadly installed and used as a field collection solution. Best has worked closely with FEMA in post-disaster housing inspection, aiding in efforts to assemble and train a team of professional inspectors, field incident managers, and computer operations personnel to be deployed after natural or other disasters to assist homeowners in quickly receiving funds necessary to repair the storm damages. Mr. Best holds a BA from Franklin and Marshall College and an MA from the University of Connecticut.

Thomas A. Birkland is an associate professor of public administration and Policy, and Political Science at the University at Albany, State University of New York, where he also directs the Center for Policy Research. Dr. Birkland received his Ph.D. in political science from the University of Washington. His research interests are concerned with the impact of disasters and crises on media and policy makers' agendas, resulting in a reprioritizing of perceived important problems. Dr. Birkland was a 1993-94 EERI-FEMA Fellow, as well as a Faculty Fellow in Social Science Research Applied to Hazards and Disasters (the first "Enabling Project"). He has written several articles about natural hazards policy and politics. Most recently, Dr. Birkland was a plenary speaker and moderator at the 9/11 Summit on emergency planning and management for the judiciary, and is currently a member of the EERI's Social Science/Learning from Earthquakes committee.

Lloyd S. Cluff is director of the Geosciences Department at the Pacific Gas & Electric Company and is an expert on the identification of active seismic faults and their potential motions. Prior to joining PG&E in 1985, Cluff was Principal Geologist, Vice President, and Director of Woodward-Clyde Consultants in San Francisco. For 25 years he led a distinguished team of geoscientists and earthquake engineers serving clients worldwide evaluating earthquake hazards and assessing seismic safety of major critical facilities. Lloyd served as the Utilities Commissioner on the California Seismic Safety Commission for almost 15 years, two terms as chairman (1988-1990 and 1997-1999). He has also served as president of the Earthquake Engineering Research Institute, the Seismological Society of America, and the Association of Engineering Geologists. A few of his professional honors include the William B. Joyner Memorial Lecture Award, sponsored by the Seismological Society of America and the Earthquake Engineering Research Institute (2003); chairman of the Scientific Earthquake Studies Advisory Committee, appointed in 2002 by the Secretary of the Interior; recipient of the John Wesley Powell Award (2000), the highest citizens' award from the US Geological Survey, for his lifetime contributions to seismic safety; the Alfred E. Alquist Medal (1998) from the California Earthquake Safety Foundation; elected Fellow of the California Academy of Sciences (1992); elected a Member of the National Academy of Engineering (1978). During his 45 year career, Cluff has served as an advisor on seismic safety to government agencies throughout the world regarding earthquake and geologic hazards and risk management and the formulation of seismic safety guidelines and public policy, especially in the siting, design, and construction of critical facilities.

Timothy Cohn joined the U.S. Geological Survey in 1986 as a hydrologist in the Water Resources Division's Branch of Systems Analysis, and subsequently worked for the Division's Office of Surface Water. As the American Geophysical Union's 1995-96 AAAS Congressional Science Fellow, Cohn served as legislative assistant to Senator Bill Bradley on issues related to energy and the environment. His research interests include estimation of nutrient transport in rivers and statistical methods for analyzing paleo and historical flood information. He holds degrees from Swarthmore College (B.A. 1979) and Cornell University (M.Sc., 1984; Ph.D., 1986).

Ronald Eguchi is president and CEO of ImageCat, Inc., a risk management company specializing in the development and use of advanced technologies for risk assessment and reduction. Mr. Eguchi has over 30 years of experience in risk analysis and risk management studies. He has directed major research and application studies in these areas for government agencies and private industry. He currently serves on several Editorial Boards including the Natural Hazards Review published by the American Society of Civil Engineers and the Natural Hazards Research and Applications Information Center, University of Colorado, and the Journal on Uncertainties in Engineering Mechanics published by Resonance Publications, Inc. He is also a past member of the Editorial Board of the Earthquake Engineering Research Institute's Journal SPECTRA. He is a member of the Scientific Advisory Committee of the U.S. Geological Survey, a committee that reports to Congress on recommended research directions for the USGS in the area of earthquake hazard reduction. In 1997, he was awarded the ASCE C. Martin Duke Award for his contributions to the area of lifeline earthquake engineering. He still remains active in the ASCE Technical Council on Lifeline Earthquake Engineering serving on several committees and having chaired the Council's Executive Committee in 1991. He received an M.S. degree in Systems and Earthquake Engineering (1975) and a B.S. in Engineering (1974), both from the University of California, Los Angeles.

Jack Harrald is the director of The George Washington University Institute for Crisis, Disaster, and Risk Management and a Professor of Engineering Management in the GWU School of Engineering and Applied Science. He is a founding member, Director, and Immediate Past President of The International Emergency Management Society and is a former Director of the Disaster Recovery Institute. He served as the Associate Director of the National Ports and Waterways Institute for ten years. Dr. Harrald has been actively engaged in the fields of emergency, consequence and crisis management and maritime safety and port security and as a researcher in his academic career and as a practitioner during his 22-year career as a U.S. Coast Guard officer, retiring in the grade of Captain. He has written and published in the fields of crisis management, emergency management, management science, risk and vulnerability analysis, and maritime safety. Dr. Harrald was the Principle Investigator for maritime risk and crisis management studies in Prince William Sound, Alaska, the Port of New Orleans, and Washington State and for Earthquake vulnerability studies funded by the National Science Foundation and the American Red Cross. Funded by NSF quick response grants and Red Cross projects, he has studied the response to the Exxon Valdez oil spill, the Loma Prieta Earthquake,

Hurricane Hugo, Hurricane Andrew, the Northridge Earthquake, the 1999 Turkey earthquakes and the September 11 terrorist attacks on the World Trade Center and the Pentagon. Dr. Harrald received his B.S. in Engineering from the U.S. Coast Guard Academy, a M.A.L.S. from Wesleyan University, a M.S. from the Massachusetts Institute of Technology where he was an Alfred P. Sloan Fellow, and an MBA and Ph.D. from Rensselaer Polytechnic Institute.

Gerard J. Hoetmer was appointed executive director of the Public Entity Risk Institute in May 1997. Prior to joining PERI, Hoetmer created, directed, and managed numerous programs for the International City/County Management Association, Washington, D.C., for 19 years. Since March 1988, he was assistant executive director and director of Research and Development. He oversaw a 25-member department that managed ICMA's fire, police, housing and community, environmental, and local government information technology programs; the Performance Measurement, Base Closure, and Utility Consortia; and local government planning projects. He led the establishment of ICMA's Center for Performance Measurement and the Government Services Television Network. For six years he was Director of Public Safety Programs for ICMA. He developed, directed, and authored the research project, *Assessing Local Government Emergency Management Needs and Priorities*. He conceived and led the development of a training course, *City and County Manager and Emergency Program Manager Disaster Preparedness*, which is a standing course offered at the Emergency Management Institute, National Emergency Training Center in Emmitsburg, Maryland.

Juan Ortiz is the emergency management coordinator for the City of Fort Worth Tarrant County Office of Emergency Management. Mr. Ortiz has 10 years experience in the field of Emergency Management, having also served as Emergency Management Coordinator for the City of Corpus Christi. He is the former president of the Coastal Bend Emergency Management Association, and former chairman of the International Association of Emergency Managers Texas Coastal Advisory Team. He currently serves on the Board of Directors of the Emergency Management Association of Texas. Mr. Ortiz is also a member of the National Academies Committee on Disaster Research in the Social Sciences. Mr. Ortiz received his B.S. in Emergency Administration and Planning from the University of North Texas.

Havidán Rodríguez is the director of the Disaster Research Center (DRC) and professor in the Department of Sociology and Criminal Justice at the University of Delaware. Dr. Rodríguez has conducted research on the social and human dimensions of hazards and disasters. He recently led the Earthquake Engineering Research Institute's (EERI) social science reconnaissance team and conducted field research following the 2004 Indian Ocean Tsunami in India and Sri Lanka. He is currently conducting research on the aftermath of Hurricane Katrina; technology and warning systems; the socio-economic impacts of disasters; and disaster vulnerability in the coastal regions of Puerto Rico. His research has been funded by the National Science Foundation, the Federal Emergency Management Agency (FEMA), U.S. Army Corps of Engineers, and the NOAA Sea Grant College Program, among others. His primary areas of academic and research interests, within the field of sociology, include disasters, demography, research methodology, and race and ethnicity, with a special emphasis on economic well-being and income inequality among the Latino/a population in the United States. Dr. Rodríguez was selected as the Frey Foundation Distinguished Visiting Professor at the University of North Carolina-Chapel Hill (2002) and has been a Visiting Professor for the Population Fellows Program in the School of Public Health at the University of Michigan-Ann Arbor. Rodríguez received his Ph.D. from the University of Wisconsin. He is the co-editor (with Enrico Quarantelli and Russell Dynes) of the forthcoming (August 2006) *Handbook of Disaster Research*.

Monica Schoch-Spana, a medical anthropologist, is senior fellow with the Center for Biosecurity of the University of Pittsburgh Medical Center (UPMC) and assistant professor in the School of Medicine Division of Infectious Diseases. In 2003, she helped establish the UPMC Biosecurity Center after working five years with the Johns Hopkins Center for Civilian Biodefense Strategies. She received her Ph.D. in cultural anthropology from Johns Hopkins University and BA from Byrn Mawr College. Dr. Schoch-Spana has led research, education, and advocacy efforts to encourage greater consideration by authorities of the general public's capacity to confront bioattacks constructively – a realm she has termed “the people's role in biodefense.” She served as principal investigator for a national study of public communications during the anthrax crisis. In addition, she was a member of the National Academies' Committees on “Educational Paradigms for Homeland Security” and “Standards and Policies for Decontaminating Public Facilities Affected by Exposure to Harmful Biological Agents: How Clean is Safe?”

David M. Simpson is an associate professor of Urban Planning at the University of Louisville, and the Director of the Center for Hazards Research and Policy Development. His research has spanned the topics of natural hazards and catastrophic events, urban simulation and modeling, and the application of cutting-edge technology to planning and emergency management. Dr. Simpson's particular expertise is in the area of community-based models of preparedness and response, using GIS and other technology to model vulnerability and risk, and understanding the role and function of planning in hazards and homeland security. He has an undergraduate degree in Physics from Duke University, a Masters of Public Affairs from LBJ School of Public Affairs at the University of Texas, Austin, and a doctorate in City and Regional Planning for the University of California at Berkeley.

Helen M. Wood is senior advisor for the Satellite and Information Service at the U.S. National Oceanic and Atmospheric Administration (NOAA). She leads national and international activities aimed at reducing disaster losses and improving economic vitality through the improved use of science and technology. She chairs the US Subcommittee on Disaster Reduction under the U.S. National Science and Technology Council and represents NOAA on the Steering Committee of the National Academies Disasters Roundtable. She served as Secretariat Director for the ad hoc intergovernmental Group on Earth Observations (GEO) from its inception in 2003 until September 2005. Before accepting her current position in 2003, Ms. Wood directed the NOAA Office of Satellite Data Processing and Distribution where she was responsible for the near-real time collection, processing, analysis, and dissemination of data gathered by Earth observing satellites operated by NOAA and other agencies. Previously, she was deputy director of the Institute for Computer Sciences and Technology in the U.S. National Bureau of Standards (now the National Institute of Standards and Technology). Wood is a fellow of the Institute of Electrical and Electronics Engineers (IEEE) in which she has held numerous positions including IEEE Vice President and Member of the Board of Directors, and President of the IEEE Computer Society. She is actively involved in both the Computer Society and the Geosciences and Remote Sensing Society of the IEEE. Ms. Wood was recognized as IEEE Engineering Manager of the Year, and received the Computer Society's highest award for distinguished service to the computing profession. She was awarded the Meritorious Service Award by the American National Standards Institute for her leadership and contributions to computing and communications standardization. Ms. Wood has received the U.S. Department of Commerce Gold, Silver and Bronze Medals and the Meritorious Presidential Rank Award. She holds a B.S. in Mathematics from the University of Maryland and an M.S. in Computer Science from The American University.

PARTICIPANTS LIST

AS OF MARCH 10, 2006

Janet Abramovitz
6313 Weidner Ave
Baltimore, MD 21212
Phone: 410-433-2703
janetabr@verizon.net

Isaac Ajit
Division Chief
DHMH
6 St. Paul Street, Suite 1202
Baltimore, MD 21202
Phone: 410-767-5045
iajit@dhhm.state.md.us

Daniel J. Alesch
Professor Emeritus
University of Wisconsin-Green Bay
909 Forest Hill Drive
Green Bay, Wisconsin 54311
dalesch@new.rr.com

Michelle Alley
Leadership Counselor
Community Disaster Response
Coalition
5461 Erin Drive
Dublin, VA 24084
Phone: 540-674-1301
Fax: 540-674-1301
aztecpaints@yahoo.com

Stephen D. Ambrose
Physical Scientist
Applications Division
Earth Science Enterprise
NASA Earth Enterprise Code YO
300 E Street, SW
Washington, DC 20646
Phone: 202-358-0851
sambrose@hq.nasa.gov

Thomas Anderson
Director Strategic Operations
MCEER
1303 24th St. South
Arlington, VA 22202
Phone: 703-892-8216
Fax: 703-892-8218
thomaslanderson@comcast.net

Dave Applegate
Sr. Science Advisor, USGS
12201 Sunrise Valley Drive MS 905
Reston, VA 20192
Phone: 703-648-6714
Fax: 703-648-6592
applegate@usgs.gov

William Armistead
Director Disaster Preparedness and
Response
Virginia Dept. of Mental Health
1220 Bank Street
Richmond, VA 23218
Phone: 804 786-5671
Fax: 804 371-0092
bill.armistead@co.dmhmr.sas.virginia.gov

Stacey Arnesen
Advisor for Special Projects
National Library of Medicine
Specialized Information Services
Bethesda, MD
Phone: 301-496-2971
stacey_arnesen@nlm.nih.gov

Michael D. Barnett
Office of Congressman Patrick J. Kennedy
407 Cannon House Office Building
Washington, DC 20515
Phone: 202-225-4911
Fax: 202-225-3290

Lauren Bateman
Program Coordinator
University of Virginia Medical Reserve
Corps
P.O. Box 800623
Charlottesville, VA 22908
Phone: 434.243.6250
lrb3v@virginia.edu

Barbara Bennett
Associate Director for Outreach
Virginia Tech, National Capital Region
Outreach Program Development
1101 King Street, Suite 610
Alexandria, VA 22314
Phone: 703-518-2716
Fax: 703-518-3145
BennBL@vt.edu

Frank Best
Vice President
PB Alltech, Inc.
465 Spring Park Place
Herndon, VA 20170
Phone: 703-736-3831
best@pbworld.com

Linda Billings
Research Associate
SETI Institute
3654 Vacation Lane
Arlington, VA 22207
Phone: 202-479-4311
lbillings@seti.org

Thomas Birkland
Program Director
Infrastructure Mgt & Hazard Response
NSF
CMS Division, ENG Directorate
4201 Wilson Boulevard
Arlington, VA 22230
Phone: 703-292-7014
tbirklan@nsf.gov

Judy Blumenthal
Dept of Health and Human Services
Phone: 202-260-0677
judy.blumenthal@hhs.gov

Carlton Bowerman
Senior Program Analyst
U.S. Department of Health and Human
Services
200 Independence Ave., S.W.
Washington, DC 20201
Phone: 202-373-8649
carlton.bowerman@hhs.gov

Michel Bruneau
Director
MCEER
105 Red Jacket Quadrangle
SUNY at Buffalo
Buffalo, New York 14261-0025
Tel: 716-645-3391 x104
Fax: 716-645-3399
bruneau@acsu.buffalo.edu

Helen Burnett
Public Affairs Specialist
US EPA
Radiation Protection Division
1310 L Street, NW
Washington, DC 20005
Phone: 202-343-9203
Fax: 202-343-2302
burnett.helen@epa.gov

Oscar Carrasco
GMU
2400 S. Glebe Rd., #319
Arlington, VA 22206
Phone: 703-979-2165
ocarrasl@gmu.edu

Beth Casey
Sr. Advisor, Disaster Preparedness
American Red Cross -
International Services
2025 E. Street NW
Washington, DC 20006
Phone: 202-303-5059
caseybe@usa.redcross.org

Rebecca Chacko
International Relations Specialist
National Oceanic and Atmospheric
Administration
Satellite and Information Service
1335 East West Highway
Silver Spring, MD 20910
Phone: 301-713-2024 x209
rebecca.chacko@noaa.gov

Amar Chaker
Director
American Society of Civil Engineers
Architectural Engineering Institute
1801 Alexander Bell Drive
Reston, VA 20191-4400
Phone: 703-295-6393
Fax: 703-295-6371
achaker@asce.org

Arrieta Chakos
Assistant City Manager
MLK, Jr. Civic Center Building
2180 Milvia Street, 5th Floor
City of Berkeley, CA 94704
Phone: 510-981-7000
achakos@ci.berkeley.ca.us

Scott Chaplowe
M&E Advisor
American Red Cross
International Services
2025 E. Street NW
Washington, District of Columbia 20006
Phone: 202-303-5052
chaplowes@usa.redcross.org

Marion Chastain
American Institutes for Research
1000 Thomas Jefferson Street
Washington, DC 20007
Phone: 202-403-5974
mchastain@air.org

John Clizbe
Emergency Planner
Alexandria Health District
4480 King Street
Arlington, VA 22302
Phone: 703-838-4400 ex 275
Fax: 703-838-4038

Lloyd S. Cluff
Director, Geosciences Department
Pacific Gas & Electric Company
Room 403-N4C
245 Market Street
San Francisco, CA 94105
Phone: 415-973-2791
Fax: 415-973-5778
lsc2@pge.com

Timothy A. Cohn
Science Advisor for Hazards
U.S. Geological Survey
John W. Powell Federal Building, MS415
12201 Sunrise Valley Drive
Reston, VA 20192
Phone : 703-648-5711
Fax : 703-648-5722
tachohn@usgs.gov

Debra Collier
6 Saint Paul St
Baltimore, MD 21202
Phone: 410-767-4343
dcollier@dnhm.state.md.us

Ronald Conner
Manager, Group R
Institute for Water Resources
Corps of Engineers
7701 Telegraph Road
Alexandria, VA 22315
Phone: 703-428-6286
ronald.r.conner@usace.army.mil

William Cumming
President
Vacation Lane Group
P.O. Box 327
338 Smith Point Road
Reedville, Virginia 22539
Phone: 804-453-3410
vacationlanegrp@aol.com

Harvey Dahljelm
ITT
1650 Tyson Boulevard
Suite 1700
McLean, VA 22101
Phone: 703-790-6329
harvey.dahljelm@itt.com

Vernon Dallas
Metropolitan Police Department
2301 L St NW
Washington, dc 20037
Phone: 202-671-6520
vernon.dallas@dc.gov

Dan Desmond
The Simi Group
1610 Arden Way Suite 280
Sacramento, CA 95815
Phone: 916-564-6500
Fax: 916-290-0179
Dan.desmond@simigroup.com

Joseph O. Prewitt Diaz
Senior Functional Advisor
Psychosocial Support
International Services

American Red Cross
jprewitt2@amcrossasia.org

Daniel Dodgen
Emergency Coordinator
SAMHSA/HHS
1 Choke Cherry Rd
Room 8-1005
Rockville, MD 20857
Phone: 240-276-2237
Fax: 240-276-2252
daniel.dodgen@samhsa.hhs.gov

Ronald T. Eguchi
President and CEO
ImageCat, Inc.
400 Oceangate
Suite 1050
Long Beach, CA 90802

Anne Emig
Program Manager
National Science Foundation
Office of International Science &
Engineering
4201 Wilson Boulevard
Arlington, VA 22230
Phone: 703-292-7241
Fax: 703-292-9175
aemig@nsf.gov

Kathy Emmons
Principal Research Associate
George Mason University
Critical Infrastructure Protection
Program
3301 Fairfax Drive
MS 1G7
Arlington, VA 22201
Phone: 703-993-8119
eemmong@gmu.edu

Elaine Enarson
Assistant Professor
Bradon University
270 18th Street
Brodie Science Centre
G-39
Manitoba, Canada R7A 6A9
Phone: 204-571-8575
eenarson@earthlink.net

Sandy Eslinger
Senior Coastal Hazards Specialist
NOAA Coastal Services Center
2234 South Hobson Ave.
Charleston, SC 29483
Phone: 843-740-1155
sandy.eslinger@noaa.gov

Megan Evans
Security Operations Assistant
Telemus Solutions, IPS
7600 Leesburg Pike
West Building Suite 400
Falls Church, Va 22043
Phone: 703-564-2470
mevans@telemussolutions.com

Lauren Fernandez
Dept of Homeland Security
Phone: 202-203-9536
Lauren.Fernandez@dhs.gov

Claudette Fetterman
111 Jefferson Road
Waldorf, MD 20602
Phone: 2026464344
Claudette.fetterman@dhs.gov

Fabrine Floyd
Public Health Analyst
Department of Health and Human
Services
HRSA/Div of Healthcare Preparedness
5600 Fishers Lane, PKLN Bldg. Rm. 13-
103
Rockville, MD 20747
Phone: 301-443-9009
ffloyd@hrsa.gov

Margaret Fowke
Program Analyst
National Weather Service
Office of Strategic Planning and Policy,
W/SP
1325 East West Highway, Room 11413
Silver Spring, MD 20910
Phone: 301-713-0258, ext .189
Fax: 301-713-1239
margaret.fowke@noaa.gov

Julia Frank
Associate Professor of Psychiatry
GW University
SMHS Psychiatry
2150 Pennsylvania Ave NW
Washington, DC 20037
Phone: 202-741-2865
jfrank@mfa.gwu.edu

Victor Freeman
Chair - Disaster Health Services
American Red Cross
Nat'l Capital Area Chapter
c/o 2700 Connecticut Ave. NW #102-B
Washington, DC 20008
Phone: 202-997-5515
Fax: 202-462-9554
freemanv@earthlink.net

Philip Thomas Ganderton
University of New Mexico
Department of Economics MSC05 3060,
1-UNM Albuquerque, NM 87131
Phone: 505-277-5304 gandini@unm.edu

George Gomez
Metropolitan Police Department
2301 L St NW
Washington, DC 20037
Phone: 202-671-6520
george.gomez@dc.gov

Kay Goss
Vice President, EDS
Emergency Management, Homeland
Security, and Business Continuity
965 Harrison Circle
alexandria, va 22304
Phone: 703-823-5573
Fax: 7037422737
kay.goss@eds.com

David Green
NOAA Tsunami Program Manager
NOAA
1325 East West HWY
SSMC2 15426
Silver Spring, MD 20910
Phone: 3017133557x172
david.green@noaa.gov

Elin Gursky
ANSER, Analytic Services
2900 South Quincy Street
Suite 800
Arlington, VA 22206
Phone: 703-416-2000
Elin.Gursky@anser.org

Dan Hanfling
Director, Emergency Management and
Disaster Medicine
Inova Health System
3300 Gallows Road
Falls Church, VA 22042
Phone: 703-776-3002
dan.hanfling@inova.com

John R. Harrald
Director
Institute for Crisis, Disaster, and Risk
Management
George Washington University
1776 G. St., N.W. Suite 110
Washington, D.C. 20052
Phone: 202-994-7153
jharrald@gwu.edu

Rhonique Harris
Medical Director
CNMC
Pediatrics- Community
1901 Mississippi Ave SE
Suite 104
Washington, dc 20020
Phone: 202-436-3060
rsharris@cnmc.org

Sean Hearn
Metropolitan Police Department
Domestic Security Office
2301 L St NW
Washington, DC 20037
Phone: 202-671-6520
sean.hearns@dc.gov

Claret Heider
NIBS VP for MMC/BSSC Programs
National Institute of Building Sciences
Multihazard Mitigation Council/
Building Seismic Safety Council
1090 Vermont Ave. NW
Suite 700
Washington, DC 20005
Phone: 202-289-7800
cheider@nibs.org

Lee Herring
Director of Public Affairs
American Sociological Association
1307 New York Ave., NW, #700
Washington, DC 20005
Phone: 202-247-9859
herring@asanet.org

Matthew Hewett
Grad Student
GWU
Institute of Disaster, Emergency and Risk
Management
1728 Park Rd. NW
Washington, DC 20010
Phone: 202-692-1314
mwhewett@yahoo.com

Gerard J. Hoetmer
Executive Director
Public Entity Risk Institute
11350 Random Hills Road,
Suite 210
Fairfax, VA 22030
Phone: 703-352-1846
Fax: 703-352-6339
ghoetmer@riskinstitute.org

Amy Holman
DOC/NOAA
N/ORR, SSMC 4, Room 10125

1305 East-west Highway
SILVER SPRING, MD 20910
Phone: 301-7132989x102
amy.holman@noaa.gov

William H. Hooke
Senior Policy Fellow & Director
Atmospheric Policy Program
American Meteorological Society
1120 G Street, NW Suite 800
Washington, DC 20005-3826
Phone: 202-737-9006 x420
Fax: 202-737-9050
hooke@dc.ametsoc.org

Syed Arshad Husain
Professor of Psychiatry, Director
University of Missouri International
Center For Psychosocial Trauma
University of Missouri-School of Medicine
International Center For Psychosocial
Trauma
N119, Hospital and Clinics
One Hospital Drive
Columbia, MO 65212
Phone: 573-445-3823
Fax: 573-445-3824
husains@health.missouri.edu

Deborah Ingram
FEMA
Dept. Homeland Security
Phone: 202-646-2856

David Jodrey
editor
Bird Flu Preparedness Planner
19022 Capehart Drive
Montgomery Village, MD 20886
Phone: 301-330-7559
JodreyDB@aol.com

Sylvia Kane
Program Analyst
Federal Emergency Management Agency
Mitigation - Regional and Disaster
Support
500 C Street SW
Washington, DC 20472
Phone: 202-646-3059
sylvia.kane@dhs.gov

Michelle Keeney
US Dept. of Homeland Security
Phone: 202-254-5323
Michelle.Keeney@dhs.gov

Seth Kelly
Public Safety Coordinator
US Dept. of Homeland Security
State and Local Government

Coordination
Attn: NAC/Bldg 18-252/S. Kelly 2-9814
Washington, DC 20528
Phone: 202-282-9814
Fax: 202-282-1044
seth.kelly@dhs.gov

Edward Kennedy
DHHS
Office of Public Health Emergency
Preparedness
200 Independence Ave., SW
Suite 638 G
Washington, DC 20201
Phone: 202 260 1278
ted.kennedy@hhs.gov

Fran Kernodle
President
Frances Kernodle Associates, Inc.
113 N. Alfred St.
Alexandria, VA. 22314
Phone: 703-519-3950
Fax: 703-838-9079
fkernodle@fkassociates.com

Rawle King
Economist and Insurance Analyst
Congressional Research Service
Library of Congress
9718 Caltor Lane
Ft. Washington, Md 20744
Phone: 202-707-5975
Fax: 202-707-3325
rking@crs.loc.gov

Rachel Kleinfeld
Consultant
Center for Strategic and International
Studies
International Security Program
Phone: 202-320-2918
rkleinfeld@csis.org

Richard Rick-Klomp
Behavioral Scientist
CDC
NCIPC, Disaster Mental Health Team and
Terrorism Team
2939 Flowers Road
Room 1000B, MS K68
Atlanta, GA 30341
Phone: 770-488-4281
Fax: 770-488-4221
rpk5@cdc.gov

L Krauser
Emergency Management Specialist
JFHQ-NCR
Emergency Preparedness
103 Third St

Bldg 42
Washington, DC 20319
Phone: 202-685-4181
lawrence.krauser@fmcc.army.mil

Keelin Kuipers
Coastal Storms Program Manager
NOAA Coastal Services Center
Department of Commerce
1305 East West Highway, Rm 10163
Mail code: N/ORM7
Silver Spring, MD 20910
Phone: 301-563-7108
Fax: 301-713-4012
Keelin.Kuipers@noaa.gov

Andrew Lee
Associate Professor
Fort Valley State University
Fine Arts/Humanities/Mass
Communication
1227 Willow Bend
Warner Robins, GA 31088
Phone: 404-245-7652
drdinkinslee@cox.net

Joyce Levine
Assistant Professor
Florida Atlantic University
Urban & Regional Planning
Liberal Arts 469
2912 College Ave
Davie, FL 33314
Phone: 954-236-1164
jlevin21@fau.edu

Shulamit Lewin
Program Manager
Children's National Medical Center
Department of Psychiatry, International
Center to Heal Our Children
111 Michigan Avenue, NW
Washington, DC 20010
Phone: 202-884-2434
slewin@cnmc.org

John Lindstrom
Director of Assessment, Emergency &
Medical Serv.
Richmond Behavioral Health Authority
107 S. Fifth Street
Richmond, VA 23219
Phone: 804-819-4195
lindstroj@rbha.org

Sarah Lister
Specialist in Public Health and
Epidemiology
Congressional Research Service
Washington, DC
Phone: 202-707-7320

Fax: 202-707-3097
slister@crs.loc.gov

Kae Livsey
Research Associate
George Mason University
Center for Health Policy Research and
Ethics
4400 University Drive
MS3C
Fairfax, VA 22030
Phone: 703 993 4548
klivsey@gmu.edu

Josh Lott
NOAA, National Ocean Service
Phone: 301-563-1178
Fax: 301-713-4367
josh.lott@noaa.gov

Mike Lythgoe
American Red Cross
Montgomery-Floyd Virginia Chapter
883 Crestwood Drive
Blacksburg, Virginia
Phone: 540.641.1156
yelozebra@aol.com

Caren Madsen
Director of Intergovernmental Affairs
NOAA
Public Affairs
1315 East-West Highway
SSMC-3, Room 10853
Silver Spring, MD 20910
Phone: 301-713-9042
Fax: 301-713-2040
Caren.Madsen@noaa.gov

Tere Martin
Mitigation
DHS-FEMA
500 C. St. SW
Washington, DC 20472
Phone: 301/918-1451
tere.martin@dhs.gov

Michael McDonald
President
Global Health Initiatives
DKMS Resilience Network
10604 Crossing Creek
Potomac, MD 20854
Phone: 301-299-1507
Fax: 301-299-1509
MDMOviar@aol.com

Carolyn McMahon
Administrative Coordinator
AMS Policy Program
American Meteorological Society
1120 G Street, NW, Suite 800
Washington, DC 20005
Phone: 202-737-9006, ext. 437
Fax: 202-737-9050
mcmahon@ametsoc.org

David McMillion
Project Manager
MWCOG
Public Safety
777 N Capitol St
Suite 300
Washington, DC 20002
Phone: 202 962 3708
Fax: 202 962 3204
dmcmillion@mwkog.org

Rick Mendlen
Senior Structural Engineer
Office of Manufactured Home Programs
and Standards
HUD
451 7th Street SW Room 9164
Washington, DC 20410-8000
Phone: 202 708-6423
rick_a_mendlen@hud.gov

Cindy Mester
General Manager
City of Falls Church
Community Services
300 Park Avenue 100W
Falls Church, VA 20111
Phone: 703-248-5042
Fax: 703-248-5149
araines@fallschurchva.gov

Dorinda Miller
President
NRV Community Disaster Response
Coalition
420 Springdale Rd.
Pearisburg, VA 24134
Phone: 540-921-2701
cdrc@pemtel.net

Ugo Morelli
Volunteer Mitigation Consultant
2700 Calvert Street NW # 314
Washington, D.C. 20008
Ph: 202 328 0625
demumconsulting@worldnet.att.net

Wayne Morrissey
Information Research Specialist
(Geosciences)
Library of Congress
Congressional Research Service
101 1st St. SE
LM419/MS-7480
Washington, DC 20540-7480
Phone: 202-707-7072
Fax: 202-707-7289
wmorrissey@crs.loc.gov

S Mosquera-Machado
PDRS
Columbia University
International Research Institute for
Climate and Society
LDEO, Columbia University, IRI
61 Rt 9W, Monel Building
Palisades, NY 10964
Phone: 845 680 4505
silcarmosma@yahoo.com

Yezen Munir
Director, Global Strategic Initiatives
Raytheon Company
Intelligence and Information Systems
16800 E. CenterTech Pkwy
Bldg S 77 / MS 3011
Aurora, CO 80011
Phone: 303-4344-6000
Yezen_Munir@Raytheon.com

Jim Murphy
Assistant Vice President
Michael Baker Jr. Corp
3601 Eisenhower Avenue
Alexandria, VA 22304
Phone: 703-317-6231
jmurphy@mbakercorp.com

Sarah K. Nathe
Disaster-Resistant University Initiative
Project Manager
UC Berkeley
Vice Provost Office
200 Cal Hall
Berkeley, CA 94720-1500
Phone: 510-642-6414
sknathe@berkeley.edu

Ann Norwood
Senior Advisor
Ofc of Public Health Emergency
Preparedness - DHHS
200 Independence Ave., S.W. Rm. 636G
Washington, DC 20201
Phone: 202-690-6750
ann.norwood@hhs.gov

William Nuckols
Principal
W.H. Nuckols Consulting
531 Sunset Road
Annapolis, MD 21403
Phone: 443-994-1493
will@whnuckolsconsulting.com

Jennifer Nuzzo
Analyst
Center for Biosecurity
621 E. Pratt Street, Suite 210
Baltimore, MD 21201
Phone: 443-573-3315
jnuzzo@upmc-biosecurity.org

John O'Connell
C.V. Starr Professor of International Risk
Management
Thunderbird, the Garvin School of
International Management
15249 North 59th Avenue
Glendale, Arizona 85306-6000
Phone: 602-978-7171
oconnelj@t-bird.edu

Robert O'Connor
Program Director
National Science Foundation
Decision, Risk and Management Sciences
4201 Wilson Blvd.
Arlington, VA 22230
Phone: 703 292-7263
Fax: 703 292-9068
roconnor@nsf.gov

Juan M. Ortiz
Emergency Management Coordinator
Tarrant County Office of Emergency
Management
City of Fort Worth, TX
1000 Throckmorton Street
Fort Worth, TX 76102

Brooke Parish
University of New Mexico
Psychiatry, Emergency Medicine
1501 Allegro Way
Albuquerque, NM 87104
Phone: 505)839-8836
bparish@salud.unm.edu

S. A. Parker
Senior Program Officer
The National Academies
Transportation Research Board
500 Fifth Street, NW, 4th Floor
Washington, DC 20001
Phone: 202-334-2554
Fax: 202-334-2006
saparker@nas.edu

Ray Peña
Senior Associate for National/Regional
Exercises
Federal Response Unit, Preparedness and
Response Department
American Red Cross
National Headquarters
2025 E. Street NW
Washington D.C. 20006
Phone: 202-303-5826
Fax: 202-303-0240
penaray@usa.redcross.org

Lewis Perelman
Senior Adviser
Delmarva Strategies LLC
PO Box 7385
Woodbridge, VA 22195
Phone: 703-490-4030
lperelman@delmarvastrategies.com

Alan Perrin
EPA
Phone: 202-343-9775
perrin.alan@epa.gov

John J. Perry
GIS / Remote Sensing Coordinator FEMA
Response
DHS / FEMA
Response / Operations / Incident
Response
500 C St., SW
Washington, DC 20472
Phone: 202-646-2817
johnj.perry@dhs.gov

Claire Reiss
Deputy Executive Director
PERI
11350 Random Hills Rd., Suite 210
Fairfax, VA 22030
Phone: 703-352-1846
creiss@riskinstitute.org

Havidán Rodríguez
Director, Disaster Research Center and
Professor Department of Sociology and
Criminal Justice
University of Delaware
87 East Main Street
Newark, DE 19716-2581
Phone: 302-831-6618
Fax: 302-831-2091
havidan@udel.edu

Richard Rotanz
Nassau County OEM
rrotanz@nassaucountyny.gov

Claire Rubin
President
Claire B. Rubin & Assoc.
P.O. Box 2208
Arlington, VA 22202
Phone: 703 920 7176
cbrubin@comcast.net

Frank Russell
10711 Tricia Place
Fredericksburg, VA 22408
Phone: 703-967-4368
focusedforward@hotmail.com

Robert Saenz
Security Operations
Telemus Solutions
Infrastructure Protection Services
7600 Leesburg Pike
West Building, Suite 400
Falls Church, Virginia 22043
Phone: 703-564-2455
rsaenz@telemussolutions.com

Erminia Scarcella, M.D.
Psychiatrist
4910 Massachusetts NW Suite 300
Washington, DC 20016
Phone: 202-244-5462
globalchange@nas.edu

Monica Schoch-Spana
Senior Associate
UPMC Center for Biosecurity
The Pier IV Building
621 E. Pratt Street, Suite 210
Baltimore, Maryland 21202
Phone: 443-573-3322
Fax: 443-573-3305
mschoch@upmc-biosecurity.org

Julie Siler
Director
EDS
BCP-EMS-DRP
2656 Jamestown Lane
Alexandria, VA 22314
Phone: 7033299344
Fax: 7038326369
julie.siler@eds.com

David Simpson
Director, Ctr. for Hazards Research &
Policy Development
Dept. of Urban & Public Affairs
University of Louisville
426 West Bloom Street
Louisville, KY 40208
Phone: 502-852-8019
Fax: 502-852-4558
dave.simpson@louisville.edu

Meredith Sisa
Program Development Officer
CHF International
Office of Emergency and Transitional
Programs
8601 Georgia Avenue, Suite 800
Silver Spring, Maryland 20910
Phone: 301-587-4700
Fax: 301-587-7315
msisa@chfhq.org

Paul Sledzik
Manager-Victim Recovery & Identification
National Transportation Safety Board
Office of Transportation Disaster
Assistance
490 L'Enfant Plaza East, SW
Washington, DC 20594
Phone: 202-314-6134
Fax: 202-314-6638
paul.sledzik@ntsb.gov

Allison Smith
AAAS fellow
Social and Behavioral Research Program
Dept. of Homeland Security
Phone: 202-254-6104
allison.g.smith@dhs.gov

Silviya Spasova
7011 Clarendon Rd
Bethesda, MD 20814
Phone: 2024607592
sspasowa@yahoo.com

Charles J. Stahl
Forensic Pathologist
14105 Flint Rock Road
Rockville, MD 20853-2654
Phone: 301-871-5144
cjsebs@aol.com

Eugene Stallings
Hydrologist
National Hydrologic Warning Council
9809 Woodbridge Court
Ellicott City, Maryland 21042
Phone: 410-465-2680
Fax: 410-465-2508
easpe@aol.com

Laura Steinberg
Visiting Scientist
Inst. for Crisis, Disaster, and Risk Mgmt
The George Washington University
1776 G. St., N.W. Suite 101
Washington, D.C. 20052
Phone: 202-994-7528
Fax: 202-994-0245
laurasla@gwu.edu

Miron Straf
Deputy Director, DBASSE
The National Academies
Division of Behavioral and Social Sciences
and Education
500 Fifth Street, N.W.
Washington, DC 20001
Phone: 202-334-3097
Fax: 202-334-2201
mstraf@nas.edu

Suzanne Strohl
Technical Advisor for Research,
Development, and Technology
United States Coast Guard
Dept of Homeland Security
1900 Half Street, SW CG-66
Washington, DC 20593-0001
Phone: 202-475-3487
Fax: 202-475-3935
sstrohl@comdt.uscg.mil

Rick Sylves
Professor of Political Science
University of Delaware
Dept of Political Science & IR
Dept of Political Science & IR
University of Delaware
Newark, Delaware 19716
Phone: 302-831-1943
Fax: 302-831-4452
sylves@udel.edu

Terri Tanielian
Deputy Director for Public Health
Emergency Preparedness
RAND Corporation
Center for Domestic and International
Health Security
1200 South Hayes Street
Arlington, VA 22202
Phone: 703-413-1100 X5404
territ@rand.org

K.T Thirumalai
Chief Engineer
U.S.DOT/RITA
Research and Innovative Technology
Administration
400 Seventh Street SW. Suite 3438
Washington DC 20590
Phone: 202 366 0375
Fax: 202 366 3671
K.Thirumalai@dot.gov

Rebecca Tirrell
Project Manager, CSC
Environmental Programs Group
6101 Stevenson Avenue
Alexandria, VA 22304
Phone: 7034612321

Fax: 7034612020
rtirrell2@csc.com

Lauren Udvari
Health Planner I
Metropolitan Washington Council of
Governments
Human Services, Planning & Public Safety
777 North Capitol Street Suite 300
Washington, DC 20002-4290
Phone: 202-962-3209
ludwari@mwkog.org

Maria Vorel
Mitigation - FEMA
DHS
500 C St. SW
Washington, DC 20472
Phone: 202 646 4011
maria.vorel@dhs.gov

Emily Wallace
Secretariat
Subcommittee on Disaster Reduction
8110 Gatehouse Road
Suite 620 West
Falls Church, VA 22042
Phone: 703-560-7448
Fax: 703-560-3536
ewallace@grs-solutions.com

Patricia Watson
Senior Education Specialist
National Center for PTSD
68-3582 Malina ST
Waikoloa, HI 96738
Phone: 808-756-7259
Fax: 808-756-7259
patricia.j.watson@dartmouth.edu

Avis Webster
Community Risk-Based Critical
Infrastructure Specialist
Telemus Solutions, Inc.
Infrastructure Protection Services
7600 Leesburg Pike
West Building, Suite 400
Great Falls, VA 22043
Phone: 703-564-2481
awebster@telemussolutions.com

Susan Wheeler
Public Safety Planner
Metropolitan Washington Council of
Governments
Public Safety
777 N. Capital St. NE
Washington, DC 20002
Phone: 202-962-3349
swheeler@mwkog.org

Jacolyn White
Program Analyst
U.S. EPA
1200 Pennsylvania Ave
MC 6008J
Washington, D.C. 20460
Phone: 202-343-9474
white.jacolyn@epa.gov

Wendy White
Director
The National Academies
Board on International Scientific
Organizations
500 5th Street NW
Keck 750
Washington, D.C., D.C. 22205
Phone: 202-334-2639
wwwhite@nas.edu

Patrice White
Hazard Mitigation Officer
District of Columbia Emergency
Management Agency
Plans and Training Division-Hazard
Mitigation Grant Programs
Frank Reeves Municipal Center
2000 14th Street, NW - 8th Floor
Washington, DC 20009
Phone: 202-673-2101 ext. 1163
Fax: 202-673-2290
Patrice.White@dc.gov

Helen Wood
Senior Advisor
NOAA
SSMCI, Rm 471
1335 East West Highway
Silver Spring, MD 20910
Phone: 301-713-1140 x250
Fax: 301-713-1129
helen.wood@noaa.gov

Christopher Yezzi
Metropolitan Police Department
Domestic Security Office
2301 L St NW
Washington, DC 20037
Phone: 202-671-6520
christopher.yezzi@dc.gov

Robert Young
Public Safety Planner
Metropolitan Washington Council of
Governments
Washington, DC
Phone: 202-962-3278
ryoung@mwkog.org

Arthur Zeizel
FEMA - Retired
5008 Brookeway Drive
Bethesda, MD 20816
Phone: 301-229-3841
Fax: 301-229-2378
azeizel@myfastmail.com

