

Building Resilience to Catastrophic Risks through Public-Private Partnerships

September 5, 2013

National Academy of Sciences Auditorium
2101 Constitution Avenue, NW – Washington, DC - 20418

Participant & Planning Group Biographies

Andrew Andrea is Associate Director at the World Economic Forum building a strategic approach to collaboration with academics and the world's leading Universities, as well as Manager of the Global Agenda Council on Catastrophic Risks. He was formerly Acting Head of Global Governance and Head of Public Sector Engagement for the Risk Response Network. From 2000 – 2012 he was Director of Communications at the Centre for Humanitarian Dialogue, the world's largest armed conflict mediation organization. He has 20 years of experience in humanitarian activities in the non-profit sector and United Nations agencies where his responsibilities included, information and knowledge management, fundraising, branding, media relations, crisis communications and specific project campaigns. Between 1998 and 2000 he helped develop the Health Intelligence Network for Advanced Contingency Planning at the World Health Organisation, and between 1995-1998 designed and launched the world's most comprehensive information system for the coordinated response to emergencies and disasters within the UN Office for the Coordination of Humanitarian Affairs (OCHA). He also worked on communications for ActionAid and on lobbying strategies for a UK based parliamentary consultancy. Andrew is a Board member of the Human Rights Martin Ennals Foundation and cofounder and moderator of the Geneva Web Group. He is also a Certified Professional Facilitator with the International Association of Facilitators

Paulette Aniskoff is Deputy Assistant to the President and Director of the White House Office of Public Engagement (OPE). Prior to joining OPE she served as Director of Individual and Community Preparedness at the Federal Emergency Management Agency. In that role she partnered with non-profits, community organizations and governments to promote effective disaster planning at the local level. Paulette also chaired FEMA's Children's Working Group, seeking to ensure that disaster preparedness adequately addressed children's needs. Before FEMA, Paulette served in the Office of Presidential Personnel, where she worked to place candidates in positions throughout the executive branch. Paulette came to the administration after working for then-Senator Obama during his 2008 presidential campaign. She was his Get Out the Vote Director in Iowa and a number of other primary and caucus states, and served as the campaign's Pennsylvania Field Director in the general election. Paulette had previously run her own New York-based political consulting business, working with U.S. Senators, Members of Congress, philanthropists and issue advocacy organizations. She is a graduate of the University of Colorado at Boulder.

David Applegate is Associate Director for Natural Hazards at the U.S. Geological Survey. In that role, he leads USGS hazards planning and response activities and oversees the Coastal & Marine Geology, Earthquake Hazards, Global Seismographic Network, Geomagnetism, Landslide Hazards,

and Volcano Hazards Programs. He co-chairs the National Science and Technology Council's interagency Subcommittee on Disaster Reduction and co-leads the Department of the Interior's Strategic Sciences Group. Prior to joining USGS in 2004, he worked on science policy at the American Geological Institute for 8 years and before that served with the U.S. Senate Committee on Energy and Natural Resources as the American Geophysical Union's Congressional Science Fellow and as a professional staff member. Born and raised in Chambersburg, Pennsylvania, Applegate holds a B.S. in geology from Yale University and a Ph.D., also in geology, from the Massachusetts Institute of Technology.

Lauren Alexander Augustine is the Associate Executive Director and Director of the Office of Special Projects in the National Research Council. In this role, she oversees the Disasters Roundtable and the development of the Special Projects and program on Risk and Resilience of Extreme Events. In her tenure at the National Research Council, she served as a Study Director on the Water Science and Technology Board, the Director of the Disasters Roundtable, and the Country Director for the Academies' African Science Academy Development Initiative that built capacity in science-policy advising in 10 African countries. She was recently appointed to the World Economic Forum's Global Agenda Council on Catastrophic Risks. Dr. Augustine received her B. S. in applied mathematics and systems engineering and her Master's degree in environmental planning and policy from the University of Virginia; she completed her Ph.D. from Harvard University in an interdisciplinary program that combined hydrology, geomorphology, and ecology.

Michael Berkowitz has been The Rockefeller Foundation's Managing Director for its 100 Resilient Cities Centennial Challenge since August 2013. 100 Resilient Cities – part of the Foundation's \$100 million commitment to build urban resilience worldwide – is an organization whose purpose is to support cities to adopt and incorporate a resilience mindset in their planning, development, and community-building so that they are prepared for a wide range of shocks and chronic stresses. Previously Michael was the global head of Operational Risk Management (ORM) at Deutsche Bank, based in London. In that capacity he oversaw the firm's operational risk capital planning efforts, served as a primary regulatory contact and connected the myriad operational risk management efforts group-wide. Over nearly nine years at Deutsche Bank, he held various other positions including Chief Operating Officer of Corporate Security, Business Continuity (CSBC) and Operational Risk Management, where he had responsibility for budgeting, operations, and global coordination across the group's six workstreams. During this time, he also served as the head of the Bank's Protective Intelligence unit, designed to assess and analyze security and geo-political threats to the Bank, its staff, processes and information. Prior to December 2010, he was the CSBC head in APAC. The Bank has a presence in 17 countries throughout the region with hubs in Hong Kong, Singapore, Sydney and Tokyo. Between 2005 and 2008 he had management roles for DB in Mumbai, India and New York. Until January 2005, he was Deputy Commissioner at the Office of Emergency Management in New York City. In this position he worked on major planning initiatives, including the New York City Coastal Storm, Biological Terrorism and Transit Strike contingency plans. At OEM he led an initiative to create OEM's Public-Private Emergency Planning Initiative and its *Ready New York* citizen preparedness campaign. During that tenure, he also responded to incidents including the 1999 outbreak of West Nile Fever, Tropical Storm Floyd, major flooding in Southern Queens (1999), the crashes of SwissAir 111 and American Airlines 587, the 2003 Northeast Blackout, as well as the 2001 anthrax incidents and the World Trade Center disaster. Prior to his arrival at OEM in March 1998, he was the editor of

Emergency Preparedness News, a Washington, DC-based newsletter for emergency management professionals.

Richard E. Bissell has been Executive Director of Policy and Global Affairs since 1998. Prior to coming to the National Research Council, he headed the organizing secretariat of the World Commission on Dams, and earlier was chair of the Inspection Panel, an independent accountability mechanism for the Board of Directors of the World Bank. During the years between 1986 and 1993, he was Assistant Administrator at the US Agency for International Development, first as head of the Bureau of Policy and Program Coordination; and later as head of the Bureau of Research and Development. His B.A. is from Stanford, and his Ph.D. from the Fletcher School of Law and Diplomacy at Tufts University.

Gwen Camp is the director of the Individual and Community Preparedness Division (ICPD) under the guidance of the Federal Emergency Management Agency's (FEMA) National Preparedness Directorate. She leads the Agency's unified effort to strengthen our nation's resilience by helping individuals and communities prepare for risks and hazards. Prior to joining ICPD, Gwen was the Director of Intergovernmental Affairs, a division of the FEMA Office of External Affairs where she oversaw direct communications and outreach to State, Local, Tribal and Territorial officials, and the National Governmental and Non-Governmental professional organizations and worked collaboratively with representatives to address disaster preparedness, response and recovery goals. Gwen has held various positions in the U.S. Senate, the U.S. House of Representatives and the Pennsylvania House of Representatives. In Congressman Patrick Murphy's Capitol Hill office, she managed a legislative portfolio of immigration; foreign policy in Latin America, Europe and Asia; healthcare; education; women's rights and appropriations. She served as the Philadelphia Political Director for the Obama Campaign, managing political operations in the largest city in a key swing state. Camp was also the Political Director for Congressman Murphy's successful first race in 2006, managing scheduling and advance, surrogates, constituency groups and endorsements. She has led workshops throughout the United States, Europe, Asia and Latin America as a representative for Children's International Summer Villages, Inc. and lobbied for the NGO at the United Nations Headquarters in New York City. Camp graduated from Rosemont College with a double major in Political Science

Ralph J. Cicerone is President of the National Academy of Sciences and Chair of the National Research Council. His research has focused on atmospheric chemistry, the radiative forcing of climate change due to trace gases, and the sources of atmospheric methane, nitrous oxide, and methyl halide gases. His scientific work has involved him in shaping science and environmental policy nationally and internationally. The Franklin Institute recognized his fundamental contributions to the understanding of greenhouse gases and ozone depletion and his public policy leadership in protecting the global environment with its 1999 Bower Award and Prize for Achievement in Science. In 2001, he led a National Academy of Sciences study of the current state of climate change, requested by President Bush. The American Geophysical Union, the world's largest society of earth scientists, awarded Dr. Cicerone its James B. Macelwane Award in 1979 for outstanding contributions to geophysics by a young scientist. He later served as AGU president (1992-1994) and was awarded AGU's 2002 Roger Revelle Medal for outstanding research contributions to the understanding of Earth's atmospheric processes, biogeochemical cycles, and key elements of the climate system. In 2004, the World Cultural Council honored him with the

Albert Einstein World Award in Science. Dr. Cicerone is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, and the American Philosophical Society. He is a foreign member of the *Accademia Nazionale dei Lincei*, the Russian Academy of Sciences, the Korean Academy of Science and Technology, *Academia Sinica*, the *Real Academia de Ciencias*, and the Royal Society. Dr. Cicerone was educated at the Massachusetts Institute of Technology (BSEE and captain of the baseball team) and the University of Illinois. He began his research career at the University of Michigan (1970-1978), where the Ralph J. Cicerone Distinguished University Professorship of Atmospheric Science was established in 2007. Dr. Cicerone continued his research at the Scripps Institution of Oceanography at the University of California, San Diego (1978-1980) and at the National Center for Atmospheric Research in Boulder, Colorado (1980-1989). In 1989 he joined the University of California, Irvine, where he was founding chair of the Department of Earth System Science and the Daniel G. Aldrich Professor of Earth System Science; Dean of the School of Physical Sciences; and Chancellor, immediately prior to his election as Academy president in 2005. Dr. Cicerone served on the Secretary of Energy's Advisory Committee (2009-2013), is a member of the Council on Foreign Relations, and is a trustee of the Carnegie Corporation of New York.

Gerald M. (Jerry) DeFrancisco was appointed President, Humanitarian Services for the American Red Cross in September, 2008. Mr. DeFrancisco provides executive-level leadership and management oversight of operations for over 1500 local Red Cross locations across the country and around the world; disaster preparedness, response and recovery; delivery of Health and Safety education and training; Red Cross Services to the Armed Forces; and International Services. In this capacity, he has led a dramatic transformation in the field structure and service delivery processes for Red Cross Humanitarian Services, and recently led a complete reengineering of the Red Cross disaster cycle delivery processes. His career spans over 35 years in the telecommunications and management consulting industries, attaining senior leadership positions in a wide variety of assignments in all phases of general management. Prior to joining the Red Cross, he was President of Beacon Professional Group and Ultrapro International, global consulting firms specializing in strategy, operations sustainability and performance improvement. Prior to this, Jerry was a senior executive at AT&T, most recently as Vice President Business Innovation, Executive Vice President Broadband and Internet Services; and President and CEO of AT&T Alascom, a \$350 million AT&T acquisition. Prior to these senior positions, Jerry held a variety of assignments with AT&T in corporate strategy, service delivery, customer service operations, and sales and marketing, where he was responsible for the planning and implementation of a broad range of technologies and services for the business, consumer and government markets. Jerry holds a BA from Siena College and an Exec MBA (awarded with distinction) in Business Policy and Marketing from Pace University in New York, where he is also currently a Doctoral Candidate in the Lubin School of Business. He has completed the Professional Management Program at Harvard University, and the Senior Executive Management Program at Duke University. He has been an Adjunct Professor at Fairleigh Dickenson University and The University of Alaska, and a speaker and panelist in numerous industry and educational conferences and forums. Jerry is a US Army veteran, and has served on various non-profit boards, such as the Research Strategies Network, United Way, The March of Dimes, The Alaska Native Heritage Center and Special Olympics. Jerry is married and has two daughters.

Elaine Dezenski is the Senior Director, Head of Partnering Against Corruption Initiative (PACI) at the World Economic Forum. She formerly held management positions in the Transportation

Division, Siemens Corporation; as a Legis Fellow, Brookings Institution; as Special Assistant, US Department of Transportation; Assistant Secretary and Deputy Assistant Secretary, US Department of Homeland Security; Senior Vice-President, Global Government, Cross Match Technologies; and Managing Director, Global Security Initiative for the 21st Century, Interpol. In 2009-10, she was Director, Global Strategies at the Georgia Tech Research Institute. With World Economic Forum, she as held the position of Senior Director, Head of Risk Response Initiatives. Ms. Dezenski has a Bachelor's in International Relations from Wheaton College, Massachusetts and a Master's in Public Policy from Georgetown University.

Shaun Donovan was sworn in as the 15th Secretary for Housing and Urban Development on January 26, 2009. His tenure as HUD Secretary has reflected his commitment to making quality housing possible for every American. Under Secretary Donovan's leadership HUD has helped stabilize the housing market and worked to keep responsible families in their homes. The agency has instituted reforms that have solidified the Federal Housing Administration's financial position and protected the taxpayer against risk, while still preserving FHA's mission of providing responsible access to homeownership. Secretary Donovan has reaffirmed HUD's commitment to building strong, sustainable, inclusive neighborhoods that are connected to education and jobs and provide access to opportunity for all Americans. In December 2012, President Obama signed an Executive Order creating the *Hurricane Sandy Rebuilding Task Force* and appointed Secretary Donovan as Chair. The *Task Force* is charged with creating a comprehensive regional plan, based on local vision for redevelopment, to guide long term disaster recovery efforts. Secretary Donovan previously served as Commissioner of the New York City Department of Housing Preservation and Development (HPD). He created and implemented HPD's plan to build and preserve 165,000 affordable homes. Before his service as HPD Commissioner, Donovan worked in the private sector on financing affordable housing, and was a visiting scholar at New York University. He was also a consultant to the Millennial Housing Commission. Donovan rejoined HUD after his previous service in the Clinton administration as Deputy Assistant Secretary for Multifamily Housing. He also served as acting FHA Commissioner during the Clinton/Bush presidential transition. Prior to his first service at HUD, he worked at the Community Preservation Corporation in New York City, a non-profit developer of affordable housing. Donovan holds a B.A. and Master's degrees in Public Administration and Architecture from Harvard.

Rowan Douglas is Chairman of the Willis Research Network, the world's largest collaboration between public science and the finance sector, involving fifty science institutions to confront the challenge of delivering sustainability, resilience and financial security. In 2011 Mr. Douglas was appointed to the Prime Minister's Council for Science and Technology (CST). The CST is UK Government's top-level advisory body on science and technology policy issues and reports directly to the Prime Minister. Since 2008 he has also served on the UK Natural Environmental Research Council (NERC) which oversees approximately US\$500m of annual environmental science expenditure. Mr. Douglas co-Chairs the Willis Economic Capital Forum at Georgia State University and sits on the Advisory Panel of the NCAR Earth System Laboratory, Boulder, Colorado; the Governing Board of the Global Earthquake Model Foundation, Pavia, Italy; the Private Sector Advisory Panel of the U.N. International Strategy for Disaster Reduction and the UNEP Finance Initiative Insurance Commission in Geneva. He began his career underwriting reinsurance at Syndicate 1095 at Lloyd's in 1992 before founding the international risk information company WIRE Ltd, in 1994 which he sold to Willis in 2000. Mr. Douglas holds a B.A. in

Geography from Durham University, an M. Phil. from Bristol University and was Hon. Visiting Fellow, Science Policy Research Unit, University of Sussex from 1994 until 2001.

Ms. Caitlin A. Durkovich was appointed Assistant Secretary for Infrastructure Protection (IP) by President Obama in May 2012. In this role, she leads the Department's efforts to strengthen public-private partnerships and coordinate programs to protect the Nation's critical infrastructure, assess and mitigate risk, build resilience, and strengthen incident response and recovery. Previously, Ms. Durkovich served as the National Protection and Programs Directorate's Chief of Staff, overseeing day-to-day management of the Directorate, as well as development of internal policy and strategic planning. Ms. Durkovich has more than 13 years of homeland security-related expertise covering a wide range of activities including continuity of operations (COOP) and business continuity, cybersecurity, pandemic planning, security and policy standards development, strategic management, leadership, institutional transformation, and communications. From 2006 until August 2009, Ms. Durkovich oversaw program management of contracts with the Department of Homeland Security (DHS) in her capacity as head of the Emergency Management Sector for Abrams Learning & Information Systems, Inc. (ALIS), a homeland security and management consulting firm. Ms. Durkovich was an associate at Booz Allen Hamilton from 2003 to 2006, where she supported and led transformative, interagency, and enterprise-wide projects throughout the Federal Executive Branch, including drafting and coordinating FEMA's National Continuity Directorate's *Pandemic Influenza Continuity of Operations Plan*. She helped lead the realignment of the Internal Revenue Service's security apparatus, merging four stove-piped divisions and more than 250 people into a Mission Assurance organization. Ms. Durkovich has also provided subject matter expertise to other organizations developing pandemic plans, including the United States Courts, the U.S. Environmental Protection Agency, and various Fortune 500 companies. Prior to joining Booz Allen, Ms. Durkovich worked with former Oklahoma Congressman Dave McCurdy to launch the Internet Security Alliance, a joint project of the Electronics Industries Alliance and the Computer Emergency Response Center at Carnegie Mellon University, marketing security intelligence and best practices to Fortune 1000 companies. In this capacity, she worked closely with such industry leaders as VISA USA, Sony, Raytheon, and Intuit to develop the first voluntary information security practices for the private sector: *Common Sense Guide for Senior Managers: Top Ten Recommended Information Security Practices*. From 1998 to 2001, Ms. Durkovich was a Vice President at iDEFENSE, an information security firm dedicated to providing early warning intelligence on infrastructure and IT threats and vulnerabilities. She has also held several positions at A2S2 Digital Projects, Policy.com, the Democratic Leadership Council, and WTVD News Channel 11. Ms. Durkovich was born and raised in Albuquerque, New Mexico. She graduated from Duke University in 1994 with a Bachelor of Arts in public policy studies from the Terry Sanford Institute of Public Policy. She earned a Certificate in Business Strategy in 2003 upon attending an executive leadership seminar at The Aspen Institute. She lives in Washington, D.C., with her husband, Simon Rosenberg, and their three children.

Matthew H. Fleming is a Fellow with the Homeland Security Studies and Analysis Institute, a federally funded research and development center serving the U.S. Department of Homeland Security. He joined the institute from the U.S. Department of Defense, where for several years he directed a number of cybersecurity workstreams as a "Highly Qualified Expert" (HQE) within the Office of the Assistant Secretary of the Army for Acquisition, Logistics and Technology. An occasional consultant to the International Monetary Fund (where he worked earlier in his career on

issues of financial crime control and also foreign exchange regimes), Fleming is also an adjunct professor at Georgetown University's Public Policy Institute, where he teaches separate courses on risk management and strategy. He holds a Ph.D. in Public Policy from the University of London (University College London); a Master of Public Policy from the University of Michigan (Ann Arbor); and a B.A. in American Studies from Yale University.

W. Craig Fugate was confirmed by the US Senate and began his service as Administrator of the Federal Emergency Management Agency (FEMA) in May 2009. At FEMA, Fugate has promulgated the "whole community" approach to emergency management, emphasizing and improving collaboration with all levels of government (federal, tribal, state, and local) and external partners, including voluntary agencies, faith based organizations, the private sector and citizens. Under Fugate's leadership, emergency management has been promoted as a community and shared responsibility. FEMA has fostered resiliency, a community-oriented approach to emergency management to build sustainable and resilient communities. FEMA has instituted a permanent catastrophic planning effort to build the nation's capacity to stabilize a catastrophic event within 72 hours. FEMA is implementing a National Preparedness System (PPD-8) to build unity of effort to address the nation's most significant risks. FEMA is supporting state and local governments with efforts to prepare for the impacts of climate change through "adaptation," which is planning for the changes that are occurring and expected to occur. The private sector has been integrated into federal emergency response, with a permanent private sector liaison at the agency, representation within FEMA's National Response Coordination Center, and the creation of the National Business Emergency Operations Center. FEMA has strengthened partnerships with voluntary agencies, including the formalization of the roles of FEMA and the American Red Cross as co-leads for national level mass care operations. Additionally, the function and access needs of people with disabilities have been integrated into all planning efforts, led by FEMA's new Office of Disability Integration Coordination. In September 2011, FEMA released the National Disaster Recovery Framework, defining Recovery Support Functions for federal agencies and the overall process for communities to rebuild stronger, smarter and safer. Prior to coming to FEMA, Fugate served as Director of the Florida Division of Emergency Management (FDEM). Fugate served as the Florida State Coordinating Officer for 11 Presidentially-declared disasters including the management of \$4.5 billion in federal disaster assistance. In 2004, Fugate managed the largest federal disaster response in Florida history as four major hurricanes impacted the state in quick succession; Charley, Frances, Ivan and Jeanne. In 2005, Florida was again impacted by major disasters when three more hurricanes made landfall in the state; Dennis, Katrina and Wilma. The impact from Hurricane Katrina was felt more strongly in the gulf coast states to the west but under the Emergency Management Assistance Compact or EMAC, Florida launched the largest mutual aid response in its history in support of those states. Under Fugate's stewardship, the FDEM program became the first statewide emergency management program in the nation to receive full accreditation from the Emergency Management Accreditation Program. Fugate began his emergency management career as a volunteer firefighter, paramedic, and a Lieutenant with the Alachua County Fire Rescue. Eventually, he moved from exclusive fire rescue operations to serving as the Emergency Manager for Alachua County in Gainesville, Florida. He spent a decade in that role until May 1997 when he was appointed Bureau Chief for Preparedness and Response for FDEM. Within FDEM, Fugate's role as Chief of the State Emergency Response Team (SERT) kept him busy in 1998, the SERT team was active for more than 200 days as a result of numerous floods, tornadoes, wildfires, and Hurricane Georges. Fugate and his wife Sheree hail from Gainesville, Florida.

John R. Harrald is a Research Professor and Adjunct Professor of Public Policy at the Virginia Polytechnic Institute and State University Center for Technology, Security, and Policy. He is a Senior Fellow at the University of Maryland James MacGregor Burns Academy of Leadership, and director emeritus of The George Washington University Institute for Crisis, Disaster, and Risk Management and Professor Emeritus of Engineering Management and Systems Engineering in the GWU School of Engineering and Applied Science. Dr. Harrald is a former member and chair of the National Research Council Disasters Roundtable Committee and a former member of the National Research Council's Committee on Private-Public Sector Collaborations to Ensure Community Disaster Resilience. He is the Executive Editor of the electronic *Journal of Homeland Security and Emergency Management*, and a member of the Center for Disease Control and Prevention Board of Scientific Counselors. Dr. Harrald is the Immediate Past President of The International Emergency Management Society (TIEMS) and is the former Associate Director of the National Ports and Waterways Institute. Dr. Harrald has been actively engaged in the fields of emergency and crisis management and maritime safety and 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. Currently, Dr. Harrald is working closely with the land-grant institutions of the Mid-Atlantic region (Virginia Tech, University of Maryland with the strong support of Dr. Dan Mote, and the University of Delaware through the Disaster Research Center) to develop an academic network for building resilience to disasters and risk. Dr. Harrald received his B.S. in Engineering from the U.S. Coast Guard Academy, a M.A.L.S. from Wesleyan University, and 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.

Todd Jones is Chief Executive Officer of Willis North America, a unit of Willis Group Holdings, the global risk advisor, insurance and reinsurance broker. Appointed in July 2013, he is responsible for leading the strategic direction of the business segment, which today has more than 6,000 Associates serving clients through more than 110 local offices across the U.S., Canada, Mexico, Bermuda, London and Mumbai, India. From 2010 to 2013, Jones served as President of Willis North America, where he was responsible for the day-to-day operations of the unit's retail brokerage business. Previously, he served as National Partner for the Northeast Region, overseeing all aspects of Willis's retail operations in the Northeastern U.S. and driving growth and strategic development in the region. He joined Willis in 2003 as the North American Practice Leader for Willis's Executive Risks Practice. Prior to joining Willis, Jones held various leadership roles in the insurance brokerage industry. Before entering the brokerage industry, he was a financial analyst and corporate banker for a regional bank that is now part of Wells Fargo, focusing on the telecommunications industry. Jones graduated from Wake Forest University and earned his MBA from the Stern School of Business at New York University. Jones represents Willis North America on the Willis Group Operating Committee, the senior management team setting and executing Willis's global strategy and serves on the board and is President of The Willis Foundation, a nonprofit corporation affiliated with Willis Group Holdings. Mr. Jones also serves on the Board of Visitors for the School of Business at Wake Forest University.

Robert Kolasky is currently the Director of the Integrated Task Force for Cyber EO and PPD 21 Implementation at the Department of Homeland Security. He is an experienced strategist, planner, and organizational leader and a published writer and analyst, with the demonstrated ability to develop solutions to public problems. He previously served as the Director of Strategy and Policy for the DHS Office of Infrastructure Protection. In that role, he led strategic initiatives on behalf of the Assistant Secretary to help IP achieve organizational priorities, including IP's activities to enhance its capabilities to integrate cyber and physical risk management efforts with critical infrastructure owners and operators, and approach to improve infrastructure resilience in the face of climate change and other risks. In addition, he oversees all aspects of IP's strategic planning process, and the related Critical Infrastructure Risk Management Enhancement Initiative. He also served as IP's Acting Chief of Staff from August 2012-February 2013 where he was responsible for all aspect of managing the Office of the Assistant Secretary, and working on behalf of the organization's leadership to oversee daily operations. Mr. Kolasky previously served as the Assistant Director for Risk Governance and Support in the Office of Risk Management Analysis at the Department of Homeland Security where he focused on analyzing the risks to the Nation and the degree to which we are focusing our efforts appropriately to manage those risks. In that role, he helped facilitate the Department's Risk Steering Committee, and was responsible for developing policies and processes to enable risk-informed strategic decisions by DHS. In addition, he led the first ever Strategic National Risk Assessment, in partnership with FEMA, as part of the implementation of Presidential Policy Directive 8. Mr. Kolasky's career focus is on analyzing issues related to homeland security strategy, planning and policy. He has supported program development for the DHS Secretary's Operational Integration Staff (I-STAFF), and the National Preparedness Task Force, and led strategic planning engagements for DHS components. In doing so, he has worked at DHS and the U.S. Government Accountability Office, and as a management consultant at Booz Allen and Hamilton. Mr. Kolasky joined the Federal government following his graduation from the Harvard Kennedy School in June of 2002. While at the Kennedy School, Mr. Kolasky concentrated on Business and Government Policy and Microeconomics. He also worked as a management consultant for several non-profit organizations. Prior to attending HKS, Mr. Kolasky was a journalist and an entrepreneur. He helped start two of the first public policy sites on the Internet and served as the managing editor for *IntellectualCapital.com* and the director of content for Policy.com. Mr. Kolasky graduated from Dartmouth College in 1994. He lives in Washington, D.C with his wife, Carrie, and three children.

Howard C. Kunreuther is the James G. Dinan Professor; Professor of Decision Sciences and Business and Public Policy at the Wharton School, 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. Prof. Kunreuther is a Fellow of the American Association for the Advancement of Science and a Distinguished Fellow of the Society for Risk Analysis, receiving the Society's Distinguished Achievement Award in 2001. Howard recently served on the National Academy of Science/National Research Council's panel on *Increasing National Resilience to Hazards and Disasters*, and on the New York City Panel on Climate Change as part of the *Special Initiative for Rebuilding and Resiliency*. He is also a Coordinating Lead Author for the upcoming report, "Integrated Risk and Uncertainty Assessment of Climate Change Response Policies," to be released by the Intergovernmental Panel on Climate Change. He is the author of *At War with the Weather* (with E. Michel-Kerjan, 2009); *Learning from Catastrophes* (with M. Useem, 2010); and the newly-

published *Insurance and Behavioral Economics: Improving Decisions in the Most Misunderstood Industry*” (with M. Pauly and S. McMorow, 2013).

Richard M. Larrabee is the Director of the Port Commerce Department of The Port Authority of New York and New Jersey. He oversees the management and operation of the major marine terminal facilities within the Port of New York and New Jersey, the largest port on the East Coast of North America, which handled 90 million tons of cargo in 2012, and approximately 5.3 million teu’s (twenty-foot equivalent units). Mr. Larrabee manages a multi-billion dollar port redevelopment program that includes reinvestment in marine terminal facilities, deepening harbor channels and berths, improving intermodal connections and protecting sensitive marine environments. The redevelopment program is positioning the Port of New York and New Jersey to accommodate future growth that is projected to double over the next decade and could quadruple by 2040. Prior to joining the Port Authority, Richard Larrabee held the rank of Rear Admiral in the United States Coast Guard. He served as Commander First Coast Guard District in Boston, MA, where he oversaw all Coast Guard operations in the Northeast United States. He is a member of the Secretary of Transportation’s Maritime Transportation System National Advisory Committee and chairs the Port Sub-committee. He serves on the Board of the Seamen’s Church Institute and is a member of the Coast Guard Academy Advisory Committee. Mr. Larrabee holds a Master of Science degree in Ocean Engineering from the University of Rhode Island and a Bachelor of Science degree from the United States Coast Guard Academy.

Tim Manning is the Deputy Administrator for Protection and National Preparedness. In that capacity, he oversees the National Preparedness Directorate, the Grants Program Directorate, the National Continuity Programs Directorate, and the National Capital Region Coordination Directorate. Working with partners at all levels of government, the private sector, and community organizations across the country, and through the coordination of FEMA’s preparedness, prevention, and protection initiatives, Mr. Manning is responsible for FEMA’s efforts toward building a whole-community based national preparedness. As a former firefighter, emergency medical technician, rescue mountaineer, hazardous materials specialist, and geologist, he brings almost two decades of diverse, frontline emergency management experience to FEMA. Prior to joining FEMA, Mr. Manning served as the Secretary of the New Mexico Department of Homeland Security and Emergency Management and Homeland Security Advisor to the Governor. Mr. Manning entered the New Mexico State government as the hazardous materials response program coordinator for the Department of Public Safety. He rose through the ranks, serving as the Chief of the Emergency Operations Bureau and then as the Department’s Director. In 2005, Mr. Manning was named Homeland Security Advisor to then-Governor Bill Richardson and in 2007, the State’s first Secretary of Homeland Security and Emergency Management. Deputy Administrator Manning earned a Bachelors of Science in Geology from Eastern Illinois University, studied terrorism and political violence at the University of St. Andrews, and is a graduate of the Executive Leaders Program (ELP) at the Center for Homeland Defense and Security.

Eduardo Martinez is President of The UPS Foundation, which leads the Corporate Citizenship initiatives for UPS. He is responsible for the operations and management of its global philanthropic, employee engagement and corporate relations programs. Mr. Martinez joined UPS in 1976 as a package handler in UPS’s South Florida operation where he subsequently entered the management ranks within operations and the Industrial Engineering functions. Martinez later held senior

management positions in the areas of Corporate Accounting and Finance, Risk Management, and Acquisitions. In these capacities, he also served UPS's subsidiaries and International Region. Martinez served as corporate counsel in the UPS Legal Department until 2007, where his practice included commercial transactions, intellectual property and information technology matters, as well as civil litigation. Prior to assuming the position as President, he served as Director of Philanthropy and Corporate Relations for The UPS Foundation. In addition to his corporate responsibilities, Martinez serves as Vice-Chairperson and represents UPS on the World Economic Forum's Global Agenda Council on Disaster Management and serves as Chairperson of its' Logistics Emergency Team. He currently serves as a board member with the Foundation for Independent Higher Education's UPS National Venture Fund. He is also a member of the Corporate Advisory Board for The National Council of La Raza organization as well as corporate liaison to the Points of Light Institutes' Service Council. He also serves as the Chair of the Corporate Development Council for the World Association of Girl Guides and Girl Scouts, a member of the board for The Metro Atlanta YMCA and sits on the International Association for Volunteer Effort (IAVE) Global Corporate Volunteer Council. Born in Havana, Cuba, Martinez emigrated to the United States with his family in 1960. He has lived in Atlanta since 1992, with his wife and three children. He holds a Bachelor of Arts degree in Accounting from the University of Miami, Florida and a Juris Doctor degree from the Nova Southeastern University Law School. A member of the American Bar Association, Martinez is also a member of the Florida Bar and the Hispanic National Bar Association.

C. D. (Dan) Mote, Jr. is President of the National Academy of Engineering and Regents Professor, on leave, from the University of Maryland, College Park. Dr. Mote is a native Californian who earned his BS, MS, and PhD degrees at the University of California, Berkeley in mechanical engineering between 1959 and 1963. After a postdoctoral year in England and three years as an assistant professor at the Carnegie Institute of Technology in Pittsburgh, he returned to Berkeley to join the faculty in mechanical engineering for the next 31 years. He and his students investigated the dynamics, stability, and control of high-speed rotating and translating continua (e.g., disks, webs, tapes, and cables) as well as biomechanical problems emanating from snow skiing. He coined the area called "dynamics of axially moving materials" encompassing these systems. Fifty-eight PhD students earned their degrees under his mentorship. At Berkeley, he held an endowed chair in mechanical systems and served as chair of the mechanical engineering department from 1987 to 1991 when the National Research Council (NRC) ranked its graduate program effectiveness highest nationally. Because of his success at raising funds for mechanical engineering, in 1991 he was appointed vice chancellor at Berkeley expressly to create and lead a \$1 billion capital campaign for the campus that ultimately reached \$1.4 billion. In 1998, Dr. Mote was recruited to the presidency of the University of Maryland, College Park, a position he held until 2010 when he was appointed Regents Professor. His goal for the university was to elevate its self-expectation of achievement and its national and global position through proactive initiatives. During his tenure the number of Academy members among the faculty tripled, three Nobel laureates were recognized, and an accredited school of public health and a new department of bioengineering were created. He also founded a 130-acre research park next to the campus, faculty research funds increased by 150%, and partnerships with surrounding federal agencies and with international organizations expanded greatly. The number of students studying abroad tripled, and he created an annual open house day that has attracted over 100,000 visitors on that day, founded a charitable foundation for the campus whose board of trustees launched a \$1 billion capital campaign that reached its goal, and took every student to lunch that wanted to go. The Academic Ranking of World Universities ranked the

campus #36 in 2010 and its Engineering School #13 globally. The NAE elected him to membership in 1988, and to the positions of Councillor (2002-2008), Treasurer (2009-2013), and President for six years beginning July 1, 2013. He has served on the NRC Governing Board Executive Committee since 2009. He chaired the NRC Committee on Global Science and Technology Strategies and Their Effects on US National Security (2009-2010), cochaired the National Academies Government-University-Industry Research Roundtable (2007-2013), and cochaired the Committee on Science, Technology, Engineering, and Mathematics Workforce Needs for the US Department of Defense and the US Industrial Base (2011-2012). He was vice chair of the NRC Committee on the Department of Defense Basic Research (2004) and served on the NRC committee authoring the *Rising Above the Gathering Storm* reports of 2005 and 2010. He was also a founding member of the FBI's National Security Higher Education Advisory Board (2005-2010). Dr. Mote's recognitions include the NAE Founders Award, the American Society of Mechanical Engineers Medal, and the Humboldt Prize of the Federal Republic of Germany. At the University of California, Berkeley, he was honored with the Distinguished Teaching Award, Distinguished Engineering Alumnus Award, Berkeley Citation, and Excellence in Achievement Award. He is an Honorary Fellow of the American Society of Mechanical Engineers, and Fellow of the American Academy of Arts and Sciences, the American Academy of Mechanics, the Acoustical Society of America and the American Association for the Advancement of Science. He holds three honorary doctorates and two honorary professorships.

The Honorable Kirstjen Nielsen, President, Sunesis Consulting, LLC is an expert in homeland and national security policy, strategy, and assessment, with a focus in the areas of infrastructure protection, cybersecurity, response and incident management, information sharing, risk assessment and risk management, trend analysis, organizational development, stakeholder requirement analysis, outreach and communication, and training and exercise programs. As President of Sunesis Consulting, LLC, Ms. Nielsen currently advises senior Federal, State, local, and foreign government officials on the development and execution of strategies, policies, plans, tools and tabletop exercises to prepare for catastrophic events. Ms. Nielsen also advises senior private sector officials on a variety of homeland security issues, assesses various entities' preparedness for all hazard events and develops recommendations to address any gaps or inefficiencies. Prior to founding Sunesis Consulting, Ms. Nielsen was the General Counsel and President of the Homeland Security and Private Sector Preparedness practice at Civitas Group llc, where, in addition to her work with governments, Ms. Nielsen was instrumental in assessing the legislative and policy landscape for companies looking to enter the homeland security market, expand their presence or develop new homeland security related technologies or capabilities. Prior to her work at Civitas Group, Ms. Nielsen was commissioned by President Bush to serve as Special Assistant to the President for Prevention, Preparedness, and Response on the White House Homeland Security Council, where her responsibilities included the development, coordination, and oversight of U.S. Government homeland security policy and the development of numerous Presidential homeland security policy documents on issues ranging from public alert and warning to improvised explosive devices to the information sharing environment to national security professional development. Prior to her service on the staff of the HSC, Ms. Nielsen created and managed the Offices of Legislative Policy and Government Affairs at the Transportation Security Administration, developing transportation security related policy and drafting legislation relating to security background checks, credentialing, passenger pre-screening, surface transportation and security funding. Ms. Nielsen previously practiced corporate transactional law for Haynes and Boone, LLP and worked for Senator Mack on

defense, aviation, foreign affairs and government affairs issues. Ms. Nielsen is currently a Senior Fellow at the [Homeland Security Policy Institute](#) at the George Washington University, a Member of the World Economic Forum's Global Agenda Council on Catastrophic Risks, serves on the Homeland Security Advisory Council for Strategic and Global Security Programs at Penn State, and serves on the Center for Naval Analysis Safety and Security Advisory Board. Ms. Nielsen has guest lectured at the National Defense University on a variety of infrastructure protection issues, and at the George Washington University on the homeland security policy process and Katrina lessons learned. Ms. Nielsen has also written articles, served on conference panels (e.g., ISC-West, G-First) and given speeches at homeland security conferences and forums on homeland security preparedness issues and cybersecurity, including giving a presentation on catastrophic risk at the World Economic Forum's (WEF) Advisory Meeting on Global Risks, moderating the WEF-Organization of American States Cyber Security and Its Implications for the Economy and the Financial Sector Conference, and giving a key-note speech at the Penn State Intelligence Community Centers of Academic Excellence Symposium. Ms. Nielsen is a Member of the State of Texas Bar, has Top Secret Clearance and is eligible for SCI Clearance. She has also received DHS suitability

Patricia Pineda is Group Vice President at Toyota Motor North America, Inc. (TMA) with primary responsibility for Hispanic Business Strategy. Previously she had responsibility for national philanthropy and the Toyota USA Foundation. Ms. Pineda joined TMA in September 2004 as Group Vice President of Corporate Communications and General Counsel. Prior to joining TMA, Pineda spent twenty years at New United Motor Manufacturing, Inc. (NUMMI), the corporate joint venture between Toyota Motor Corporation and General Motors Corporation where she served as Vice President, Human Resources, Government and Legal Affairs and Corporate Secretary. Pineda received a B.A. from Mills College and a juris doctor degree from the University of California at Berkeley. Pineda's many affiliations include: Director, Levi Strauss & Co., Inc.; Advisory Trustee, The Rand Corporation; Corporate Advisory Board Member, National Council De La Raza; Corporate Advisory Board Member, Catalyst; Member, The Conference Board's Contributions Council and Executive Committee; and Member, Boston College Center for Corporate Citizenship's Executive Forum. Ms. Pineda's previous affiliations include: Director, Eller Media and Anna's Linens; Board Member, California Air Resources Board; Trustee, The James Irvine Foundation; and Board Member, Congressional Hispanic Caucus Institute, Inc. Pineda lives in Manhattan, New York with her husband, Eric Klein, and their 3 children.

William G. Raisch is the founding Director of the International Center for Enterprise Preparedness (InterCEP) at New York University established with initial funding from the U.S. Department of Homeland Security as the world's first academic research center dedicated to private sector risk management and resilience. The Center is host to the Global Risk Network which enables communication and collaboration among international corporations, cross-national agencies (UN, INTERPOL, WHO, etc.), national governments, NGOs and other stakeholders on shared operational risks. His work at InterCEP focuses on real world impact with an emphasis on the development of actionable strategies and policies through active collaboration with key private sector stakeholders and a holistic approach to risk management and resilience. The Center's research activity focuses on achieving objectives in uncertain environments with insights from the areas of risk management, strategic planning and innovation. Special emphasis is placed on the "what" and "why" of enterprise risk management and resilience. Mr. Raisch is actively engaged

with the international business community as well as elements of various national governments and NGO's globally. Mr. Raisch served as private sector preparedness advisor to the U.S. Federal 9-11 Commission and assisted in developing the Commission's recommendations on private sector emergency preparedness. He has over 30 years of experience in the private sector spanning roles in both private and public corporations. His background includes roles in management consulting that spanned a diversity of industries, leading strategic planning for Smith Barney International and managing several start-up efforts addressing new business innovations and technologies. Mr. Raisch recently served as a Fellow at the U.S. Chamber of Commerce National Chamber Foundation focusing on identifying emerging issues that will impact the business community in the future. He is a member of the Board of Directors of the American National Standards Institute (ANSI), a former Principal Member of the Technical Committee on Disaster/Emergency Management & Business Continuity (NFPA 1600). He serves on the advisory Committee of Experts for ANAB – the accrediting body for the voluntary Private Sector Preparedness Program (PS-Prep). He also serves as the emergency manager for his home town, the Village of Asharoken, New York. Mr. Raisch received his B.A. (Government & Economics) and M.B.A. from Cornell University.

Joe Ruiz is the Director, Humanitarian Relief Program Manager at The UPS Foundation. Joe oversees The UPS Foundation's Humanitarian Relief Program, leveraging UPS's logistical expertise, skilled volunteers, and financial resources to enhance preparedness, response and post-crisis recovery efforts of UPS's humanitarian partners. He coordinates the UPS Logistics Action Team (LAT) response effort for American Red Cross disaster services coordinators in Florida, Georgia, Alabama, Mississippi, Louisiana, Texas, California, Tennessee and Kentucky. He also oversees the UPS Logistics Emergency Team (LET) loaned executive program with the United Nations Global Logistics Cluster, to deploy UPS logisticians to enhance preparedness and response efforts for natural disasters. Since 2007 UPS has deployed responders and provided relief services in Indonesia (2007), Myanmar and Haiti (2008), Philippines and Padang (2009), Haiti and Pakistan (2010), Japan and Horn of Africa (2011), Turkey and Middle East (2012), and Rwanda and Dominican Republic (2013). Joe also leverages company resources to provide capacity building and in-kind services to UPS partner agencies, transporting over 200 relief shipments to more than 34 countries in 2012 and supporting efforts to strengthen humanitarian supply chains. Joe co-chairs the U.S. Chamber of Commerce Disaster Assistance and Recovery Working Group for the Business Civic Leadership Center. He also supports the InterAction Business Advisory Council and serves on the board of the Association of Corporate Contributions Professionals (ACCP). Joe began his UPS career in 1988 and has served in various district, region and corporate roles within the organization before joining The UPS Foundation in 2007.

Ellis M. Stanley, Sr. is Executive Vice President at Hammerman & Gainer International, Inc. His experience spans the public, private, and research communities related to disaster and emergency management. With his previous appointments as Vice President at Dewberry LLC., the Brunswick County (North Carolina) Director of Emergency Management, the General Manager for the City of Los Angeles Emergency Preparedness Department, and the Director of the Atlanta-Fulton County Emergency Management Agency, Mr. Stanley brings more than 35 years of experience from the public sector to the Disasters Roundtable Chairmanship. Mr. Stanley has been recognized nationally and internationally for his expertise and knowledge for disaster and emergency management. He has led delegations of emergency management professionals to China and Japan and conducted senior crisis management seminars for Argentina, Bangladesh, Sri Lanka, India, Paraguay, Jordan,

Turkey, and Taiwan. He is past president of the International Association of Emergency Managers (IAEM), the American Society of Professional Emergency Planners (ASPEP), the Atlanta Chapter of the National Defense Transportation Association (NDTA), and the Atlanta Chapter of the National Forum for Black Public Administrators. He has been appointed to numerous boards, including the Homeland Security Advisory Council's (HSAC) Emergency Responder Senior Advisory Committee (ERSAC), FEMA's Regional Advisory Council for Region IX, and the National Advisory Board for Harvard University's National Preparedness Leadership Initiative. Mr. Stanley also has served as Director of DNC planning for the City and County of Denver, Colorado. He has worked at four national political conventions, the 1996 Olympic Games in Atlanta, and the 1994 Papal visit and World Youth Conference in Denver. Mr. Stanley currently serves on the Board of Directors of the Greater Los Angeles Red Cross Chapter and chairs the Response Committee. He also is an adjunct professor at American University, where he teaches senior crisis management/command & control, and he serves as an instructor at Harvard University, where he teaches meta-leadership. Mr. Stanley was awarded an Honorary Doctoral Degree for Public Service from the University of Maryland. He received his B.A. in Political Science from the University of North Carolina at Chapel Hill in 1973.

Gene Whitney recently retired as Energy Research Manager for the Congressional Research Service at the Library of Congress in Washington, D.C. Previously, he was assistant director for Environment at the White House Office of Science and Technology Policy (OSTP). His work at OSTP focused on the science and technology policy aspects of earth sciences, natural hazards and disasters, energy, water, land remote sensing, environment, and natural resources. He served as co-chair of the U.S. Group on Earth Observations and was OSTP liaison to the U.S. Climate Change Science Program. He directed the Future of Land Imaging Interagency Working Group, and served as National Science Technology Council director for the Subcommittee on Disaster Reduction and the Subcommittee on Water Availability and Quality. Dr. Whitney coordinated the federal interagency science and technology portfolio for the United States in UNESCO. He served as a member of the Joint U.S.–Canada Task Force investigating the massive electrical blackout of August 14, 2003, in the northeastern United States and southern Canada, and worked with the President's Council of Advisors on Science and Technology on national energy efficiency policy. Prior to OSTP, Dr. Whitney was chief scientist for the U.S. Geological Survey Energy Resources Team, where he managed the energy research and assessment group, conducting basic research on the geology, geochemistry, and geophysics of fossil fuels; conducting national and global assessments of oil, natural gas, and coal resources; and assessing availability and economics of fossil fuels. He has authored or coauthored numerous scientific papers and abstracts. He received a National Research Council postdoctoral fellowship at the National Aeronautics and Space Administration/Jet Propulsion Laboratory and was awarded a senior postdoctoral fellowship at Ecole Normale Supérieure in Paris. His international experience includes working with the governments of China, Russia, Pakistan, Algeria, Bangladesh, and Japan on energy and mineral resource issues. Dr. Whitney received his Ph.D. in geology from the University of Illinois.

