

The National Academies of Sciences, Engineering, and Medicine
ResilientAmerica Roundtable

State of Resilience Leadership Forum and Community Workshop

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Washington, D.C.

Speaker Biographies

Lauren Alexander Augustine is the director of the Program on Risk, Resilience, and Extreme Events in the Office of Special Projects in the Division of Policy and Global Affairs at the National Academies of Sciences, Engineering, and Medicine. She also serves as the associate executive director of the Division of Earth and Life Studies. Dr. Augustine directs the Resilient America Roundtable and the International Forum on CBRN Resilience, and she is the staff lead for the cross-Academies Resilience Working Group. She serves on the World Economic Forum's Global Agenda Council on Risk and Resilience and is a member of the Advisory Board for the American Geophysical Union's Thriving Earth Exchange program. Dr. Augustine joined the Academies in 2002. During her tenure, she was a study director on the Water Science and Technology Board, and from 2007-2014, she served as the country director for the African Science Academy Development Initiative, a cross-academies program that builds scientific capacity in national academies of science in eight African countries. From 2008-2013, she directed the Disasters Roundtable. Her most recent positions have entailed developing a portfolio on natural disasters and how science can inform policy to reduce disaster risks and build and enhance society's resilience to these risks. Dr. Augustine earned her Ph.D. in an interdisciplinary program at Harvard University that combined hydrology, geomorphology, and landscape ecology. She 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.

Joshua Barnes serves on the White House National Security Council Staff as the director for preparedness policy. In this capacity he leads, plans, and coordinates development and implementation of preparedness policies and grant programs. Included in those efforts is the implementation of the National Preparedness Goal and the National Preparedness System which encompasses the protection, prevention, mitigation, response, and recovery mission areas. In addition, he is leading efforts to better integrate federal community resilience policies and metrics. Also, he led the Administration's actions in building long-term drought resilience resulting in a Presidential Memorandum and associated Action Plan. Prior to joining the White House, Mr. Barnes served as the EDA Disaster Recovery Coordinator and led disaster recovery policy and technical assistance implementation efforts. In his tenure at EDA, he served as a core team member in the National Incident Command Economic Solutions Team responding to the economic recovery consequences from the Deepwater Horizon Oil Spill. In addition, Mr. Barnes served as the national coordinator for the Economic Recovery Support Function, under the National Disaster Recovery Framework. In that role Mr. Barnes led interagency efforts to coordinate information sharing, technical assistance, and the leverage of resources to support major and catastrophic disasters nation-wide. Mr. Barnes also led economic resilience policy initiatives for the agency.

Michael Berkowitz joined the Rockefeller Foundation in August 2013 to shape and oversee the 100 Resilient Cities. Previously, he worked at Deutsche Bank, most recently as the deputy global head of Operational Risk Management (ORM). In that capacity he oversaw the firm's OR capital planning efforts, served as a primary

regulatory contact and connected the myriad operational risk management efforts group-wide. He held multiple other positions at DB, 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 with responsibility for all business continuity planning and alternate site operations, as well as physical security, executive and event protection, fraud investigation and prevention, and cybercrime. 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. 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.

Richard Bissell is executive director for Policy and Global Affairs of the National Academies of Sciences, Engineering, and Medicine. Prior to joining the National Academies in 1998, Dr. Bissell was a member and chair of the Inspection Panel at the World Bank, where he reported to the Board of Executive Directors as a founding member of a permanent, independent panel. In previous appointments, he was assistant administrator of the U.S. Agency for International Development as head of the Science & Technology Bureau and as head of the Policy and Program Coordination Bureau, as well as director of research at the U.S. Information Agency. He has been a visiting professor at American University, Georgetown University, and the University of Pennsylvania. He was educated at Stanford University, the Fletcher School of Law and Diplomacy, Tufts University, and Princeton University.

Ray Bonilla leads the resiliency and continuity efforts for Kaiser Permanente IT. As the leader for IT Resiliency, Ray is responsible for the strategic direction and execution of enterprise-wide IT resiliency management programs, IT business continuity planning, IT crisis management, HIPAA security contingency planning compliance, and enterprise technology risk assessments and professional teams. Ray leads cross-organizational programs and initiatives to enhance the resiliency of Kaiser Permanente's IT workforce, technology infrastructures, and business processes. He also provides strong leadership in developing strategies, executing on commitments from executive leadership and the Board of Directors, and change management with key stakeholders around the organization. Ray has extensive experience managing large and complex business continuity, emergency management, and disaster recovery programs. Prior to joining IT, Ray served as a senior business continuity consultant with Kaiser Permanente, where he managed the business continuity program for the Northern California region. As a regional project manager for T-Mobile, USA, he designed, developed, and implemented preparedness programs and training. Ray serves on numerous business continuity boards, committees, and focus groups throughout the United States. His activities include director of membership for the Association of Contingency Planners, and terrorism liaison officer with the Northern California Regional Intelligence Center. Ray is a Master Business Continuity Professional (MBCP), an Associate Fellow of the Business Continuity Institute (AFBCI), and a Project Management Professional (PMP). Ray received his bachelor's degree in organizational communications from California State University, East Bay, and his MBA from the University of San Francisco.

Lieutenant General **Thomas P. Bostick** is a 1978 graduate of the U.S. Military Academy and holds Master of Science Degrees in both Civil Engineering and Mechanical Engineering from Stanford University. He served as the 53rd Chief of Engineers and Commanding General of the U.S. Army Corps of Engineers, where he was responsible for most of the Nation's civil works infrastructure and military construction. Lieutenant General Bostick also served as the Deputy Chief of Staff, G-1, responsible for total Army personnel and manpower; Commanding General, U.S. Army Recruiting Command; and as the Assistant Division Commander-Maneuver; and then Assistant Division Commander-Support of the 1st Cavalry Division. He deployed with the Division in support of Operation Iraqi Freedom before commanding the Army Corps of Engineers Gulf Region Division, where he was responsible for more than \$18 Billion of reconstruction in Iraq. Lieutenant General Bostick also served as an associate professor of Mechanical Engineering at West Point and was a White House Fellow, working as a special assistant to the Secretary of Veterans Affairs. LTG Bostick has been one of the leading advocates in the federal government on resilience and with developing a systems approach to watershed matters. He led the US Army Corps of Engineers in the completion of the North Atlantic Coast Comprehensive Study: Resilient Adaptation to Increasing Risk report to Congress in 2015.

Andrew Brenner is the senior manager of Global Communications at 100 Resilient Cities and leads much of the organization's media and strategic communications work. Prior to 100RC, Andrew worked as an assistant vice president in Widmeyer Communications' PreK-12 education practice, leading work for numerous education and philanthropic clients, including the W.K. Kellogg Foundation, Nobel Laureate James Heckman, and the First Five Years Fund. Previously, Andrew was a senior consultant at Booz Allen Hamilton, he provided communications and consulting support to several U.S. Department of Defense clients. Andrew began his career in the political world, as a senior associate at Kennedy Communications, a DC-based boutique political communications firm, providing strategic communications guidance and qualitative political research. Brenner also spent time on the ground in the campaign world – for the New York State Democratic Party in 2006 and Obama for America in 2007-08. Brenner holds an MPA from Cornell University, where he was a teacher's assistant to Prof. Theodore Lowi and graduate assistant at the Mario Einaudi Center for International Studies. At Cornell, Brenner also spent time as a Summer Fellow with an NGO in Tuzla, Bosnia and Herzegovina helping to develop an international development education initiative. Brenner graduated cum laude from Le Moyne College with a B.A. in political science. Throughout college and graduate school Brenner was active in journalism and writing – serving as an editor for three separate publications and contributing to numerous professional publications, including *The Post Standard* (Syracuse, N.Y.) and *The News Media and the Law* magazine.

Dan Burger is the director of the Coastal Services Division for the South Carolina Department of Health and Environmental Control (DHEC), Ocean and Coastal Resource Management (OCRM). Since joining DHEC in 2004, Mr. Burger has worked to advance the policy goals of the state's Coastal Zone Management Program through the development and implementation of innovative program strategies, products, and services. Currently, Mr. Burger leads staff performance of inter-governmental planning, coastal hazard analysis, and policy development efforts. In 2015, Mr. Burger led the establishment of the Charleston Resilience Network (CRN) and has since been honored to serve as chair of the coalition. Prior to his work in South Carolina, Mr. Burger worked to advance environmental public policy in Maryland as the program manager for the Maryland League of Conservation Voters. Mr. Burger is an honors graduate of Western Maryland (McDaniel) College and holds a Master of Public Administration (MPA) in Urban Public Affairs from the College of Charleston. Since 2011, Mr. Burger has served on the College of Charleston MPA Advisory Board.

Jane Cage is widely regarded as a community organizer and activist. She served as chairman of the Joplin Citizens Advisory Recovery Team after the 2011 tornado, managing over 150 volunteers and serving as liaison with federal, state, and local government representatives. Jane was awarded the 2012 Rick Rescorla National Award for Resilience from the Department of Homeland Security for her work in Joplin. In 2014, she founded a small consulting business (InsightFive22) which provides services and programs that enhance community preparedness and resilience. In addition to her disaster related experience, Jane is an experienced corporate executive with 25 years of experience as the chief operating officer of a \$15 million computer networking firm where she managed all internal functions of the company. She has served as a facilitator and peer coach for more than eight years for IT related businesses. Jane is an accomplished facilitator and engaging public speaker who has worked with communities across the country.

Arrietta Chakos is a consultant in urban resilience policy. Her specialties include disaster risk assessment, disaster loss estimates, public policy development, multi-party negotiations, and municipal government operations. She recently served as director of the Acting in Time Advance Disaster Recovery project at the Harvard Kennedy School, which was involved with disaster policy research and application. A seismic safety advocate, she was assistant city manager in Berkeley, California until 2007 and managed the city's intergovernmental coordination and hazard mitigation initiatives. She directed California's first municipal hazard mitigation plan aimed at sustainable risk reduction. Berkeley's mitigation efforts are nationally recognized and use innovative tax incentives and locally funded programs to promote community resilience. Chakos worked with the Federal Emergency Management Agency (FEMA) for its report to the Congress on all hazards risk mitigation, and with the California Governor's Office of Emergency Services (CalEMA) on natural hazards projects and seismic safety legislation. She served as a technical advisor to the Organization for Economic Cooperation and Development (OECD) on its international seismic safety program for schools; the World Bank on disaster risk reduction and sustainable development in the metropolitan Istanbul region; and with the National Research Council's research on community disaster resilience. She has also advised on a recent Ford Foundation study on Stafford Act implementation in the Gulf Coast region; as well as with the Association of Bay Area Governments; the Earthquake Engineering Research Institute; GeoHazards International; the Center for Biosecurity; and the Natural Hazards Center on disaster policy issues. Publications include papers on disaster risk reduction for technical conferences; the American Society of Civil Engineers; Spectra, an engineering professional publication; the Natural Hazards' Observer; the United Nations journal, Regional Development, and as a contributor to Keeping Schools Safe in Earthquake Country (OECD, 2004) and Global Warming, Natural Hazards, and Emergency Management (2009). She received a B.A. from California State University, Humboldt and a M.P.A. from the Harvard Kennedy School.

Miriam Chion's work has focused on urban and regional planning, land use policies, community resources, and international development. As director of Planning and Research at the Association of Bay Area Governments (ABAG), she is responsible for the development of regional strategies in coordination with cities, businesses, and community organizations in the San Francisco Bay Area. She is addressing the intersection of equity, resilience, and sustainability. Until 2009, she was a faculty at the Department of International Development, Community, and Environment, at Clark University, Massachusetts. Until 2004, she worked at the San Francisco Planning Department. She completed her doctoral studies at the University of California, Berkeley and her architectural degree at Universidad Ricardo Palma in Lima, Peru.

Sandi Fowler serves the City of Cedar Rapids, Iowa, as the assistant city manager. Sandi has held several positions in her more than 26 years in Cedar Rapids city government. Following Cedar Rapids' devastating flood

of 2008, Sandi was responsible for citizen engagement, program development, and the rebuilding of damaged and destroyed city facilities valued at over \$300 million. Sandi leads the departments of Public Works, Community Development, Building Services, and Transit. She holds a bachelor's degree in business administration, a master's degree in public administration, and completed Harvard University's Senior Executives in State and Local Government Program.

W. Craig Fugate was confirmed by the U.S. Senate and began his service as Administrator of the Federal Emergency Management Agency (FEMA) in May 2009. Promulgating a “whole community approach” to emergency management, Fugate's leadership under FEMA has fostered resiliency, a community-oriented approach to emergency management to build sustainable and resilient communities. Prior to coming to FEMA, Fugate served as director of the Florida Division of Emergency Management (FDEM) as well as Florida State Coordinating Officer for 11 Presidentially-declared disasters including the management of \$4.5 billion in federal disaster assistance. Between 2004-2005, Fugate managed seven federal disaster responses to hurricanes in Florida, the largest of which involved four major hurricanes that impacted the state in quick succession; Charley, Frances, Ivan and Jeanne. 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 before being bureau chief for Preparedness and Response for FDEM. Fugate and his wife Sheree hail from Gainesville, Florida.

Gerald E. Galloway, Jr. is a Glenn L. Martin Institute Professor of Engineering and an affiliate professor of Public Policy at the University of Maryland, College Park. His 38-year career in the military included positions such as commander of the Army Corps of Engineers District in Vicksburg, Mississippi, member of the Mississippi River Commission, and professor and founding head of the Department of Geography and Environmental Engineering and dean of the Academic Board at the U.S. Military Academy. He retired from the Army in 1995 as a Brigadier General. Dr. Galloway earned his M.S.E. at Princeton and his Ph.D. in geography (specializing in water resources) from the University of North Carolina at Chapel Hill. A civil engineer, public administrator, and geographer, Dr. Galloway's current research focuses on the development of U.S. national water policy and disaster resilience in general and national floodplain management policy in particular. He currently serves as a consultant to several federal and state and non-governmental agencies on water resources policy development and flood risk management including the Louisiana Governor's Advisory Commission on Coastal Protection, Restoration, and Conservation, the Maryland Coast Smart Council, an international panel of experts examining the flooding threats to Florence, and a panel of experts advising on sea-level rise challenges Singapore. Prior to joining Maryland, he was vice president, Geospatial Strategies, for the ES3 Sector of the Titan Corporation. He was a six-year member of the National Research Council's Water Science and Technology Board and has served as chair or member of 13 National Research Council Committees. He is a member of the National Academy of Engineering and the National Academy of Public Administration.

Natalie Grant joined the U.S. Department of Health and Human Services (HHS) Assistant Secretary for Preparedness and Response (ASPR) as a program analyst within the Division of Recovery in January, 2012. Since that time, she has served as the Health and Social Services Recovery Field Coordinator for federal interagency coordination following Hurricane Sandy from 2012-2016 through the National Disaster Recovery Operation. She has also facilitated recovery planning and coordination in other disaster and emergency incidents within HHS Regions 1, 2, 5 and 10. Prior to her federal role, Natalie served as director of the Office of Public Health Preparedness at Boston Emergency Medical Services (BEMS) within the Boston Public Health Commission (BPHC). In this capacity she was chief emergency planner for public health and medical matters, oversaw all

programmatic activities associated with implementation of the Public Health Emergency Preparedness Cooperative Agreement (PHEP) and the Medical Reserve Corps (MRC) while collaborating closely with the Hospital Preparedness Program (HPP) through a partnership with the Conference of Boston Teaching Hospitals (COBTH) and the Massachusetts League of Community Health Centers. Natalie was the Emergency Support Function Eight (ESF-8) lead during planned city-wide events and public health emergency activations such as H1N1, Massachusetts Water Emergency, and various weather emergencies. Natalie also worked at the Miami-Dade County Office of Emergency Management as Health and Medical Emergency Management Coordinator. In close partnership with colleagues at Miami-Dade Fire Rescue, she led the Miami-Dade County ESF-8 response to natural hazards, utility failures, and civil disturbances. Natalie fostered strong relationships with partners across the healthcare delivery system including pre-hospital, hospital, community health centers, ancillary care services, and private home care providers. Originally from Homestead, Florida, Natalie is an accomplished track and field athlete and competes internationally for the Jamaican National Team. She received her MPH in International Health from Boston University and AB in Biology from Harvard College.

Jeanne Herb leads a variety of projects and programs related to environmental policy and sustainability. Her work includes co-facilitating the NJ Climate Adaptation Alliance (<http://climatechange.rutgers.edu/njadapt>), a public-private partnership in New Jersey that is building capacity in New Jersey to prepare for climate change impacts and to develop public policies that promote resilience; supporting the Transportation and Climate Initiative a 12-state effort to reduce greenhouse gas emissions from the transportation sector facilitated by the Georgetown Climate Center (www.georgetownclimate.org); developing guidance on land use and other strategies to reduce greenhouse gas emissions from the transportation sector and increase capacity to promote resilience for more than 100 communities in New York State; engaging a five state regional stakeholder process to develop a transparent and public portal to support regional ocean planning, including engagement of citizens in participatory and consensus-based geospatial processes; incorporating health in all policies (HIAP) approaches into the North Jersey Sustainable Communities Consortium (<http://www.policy.rutgers.edu/njscc/>), including organization of a Health in all Policies conference in spring 2013; and developing capacity in New Jersey for Health Impact Assessments and enhancement of capacity to apply integrated environmental public health data. Prior to joining the Bloustein School, Jeanne was assistant commissioner for Policy, Planning and Science at the New Jersey Department of Environmental Protection. While at NJDEP, she oversaw programs related to climate change, environmental justice, sustainable development and “green” design, state planning, environmental health tracking, smart growth, and coastal and ocean policy. Jeanne began her career at NJDEP in the mid 1980’s through the late 1990’s when she was engaged in the state’s landmark Worker and Community Right to Know and Pollution Prevention Acts. In between her two “tours of duty” at NJDEP, Jeanne spent six years as the manager of the public policy program at Tellus Institute, a Boston-based nonprofit consulting “think-do” tank which focuses on environmental policy, sustainable development, corporate governance and energy planning. She holds a BA degree from Rutgers University and an MA from New York University.

June Isaacson Kailes (www.jik.com) is a Disability Policy Consultant and the associate director and adjunct associate professor at Harris Family Center for Disability and Health Policy at Western University of Health Sciences, Pomona, California. Her breadth and depth of experience in disability and access and functional needs issues as a writer, trainer, researcher, policy analyst, subject matter expert, and advocate is widely known and respected. In the emergency world June is well known for her pioneering work in conceiving, promoting, and moving the emergency management world from the vague “special needs” focus to operationalizing an access and functional needs approach to planning, response, and recovery. This also includes conceiving and working with the State of California to adopt and implement the use of Functional Assessment Service Teams (FAST). These teams strategically link government, nonprofit, and business sectors to work with individuals with access

and functional needs to enable people to maintain mobility, health, safety, independence, and successfully manage in general population shelters and other temporary housing options. This model is being put into practice in California and customized for use in other parts of the United States. June has the unique ability to blend and bridge two worlds: disability user experiences and emergency management experiences. Her contracts include working with several California State Departments as well as cities and counties. She has also worked nationally with FEMA, the Centers for Disease Control, Department of Homeland Security, and Health and Human Services on policy, planning, and training issues. She co-chaired The United States Department of Homeland Security's working group which developed a Functional and Medical Support Sheltering Target Capabilities List, worked on FEMA's Guidance on Planning for Integration of Functional Needs Support Services in General Population Shelters, and is a member of FEMA's National Advisory Council. In the health care world June's focuses encompass working as a contractor with a variety of health facilities, managed care plans, government projects and consulting firms. These projects include work with Rehabilitation Research and Training Centers: on Aging with a Disability, Managed Care and Disability, Health and Wellness and Disability, National Center of Physical Activity and Disability and the Rehabilitation Engineering Research Center on Accessible Medical Instrumentation, the Access Board. She delivers workshops on developing disability competencies in health care covering the demographics of disability populations (prevalence, causes, function versus diagnosis, employment rates, and health disparities) compliance with the Americans with Disabilities Act (attitudinal, communication, physical, medical equipment and programmatic access), care coordination and long term support services, and stakeholder engagement. June is the recipient of many honors and awards, and has delivered hundreds of keynote addresses, workshops and seminars and has over 200 publications on disability-related health, wellness and aging with disability, and emergency issues. She has held many offices on the boards of the National Council for Independent Living (NCIL), and the California Foundation of Independent Living Centers. As a presidential appointee to the United States Access Board where she served as its chair and vice chair. June is a well-known and respected disability rights advocate and consultant. Recognized nationally and internationally, she is one of the original national leaders in the Independent Living Movement.

Alex Kaplan is senior vice president of Global Partnerships for Swiss Re charged with developing and executing innovative risk transfer solutions to help governments, international financial institutions, and NGOs at all levels manage their financial risks to help society create effective responses to major challenges, including natural catastrophes, climate change, and food security as well as infrastructure, healthcare, and longevity. Kaplan joined Swiss Re in 2008 as vice president of Regulatory Affairs representing Swiss Re before governments and regulators. Prior to joining Swiss Re, Kaplan was appointed as deputy to the Assistant Secretary for Legislative Affairs for the United States Department of the Treasury under Secretary Henry M. Paulson in August 2006. Kaplan has also worked with the Organization for International Investment (OFII), a Washington D.C.-based business association representing U.S. subsidiaries of foreign companies. Prior to joining OFII, Kaplan worked with the Committee on Ways and Means in the U.S. House of Representatives.

Nick Kushner is a project manager of the Age-Friendly DC program in the Office of the Deputy Mayor for Health and Human Services, Government of the District of Columbia. He joined DC Government as a Capital City Fellow in January 2014, spending 6 months with the District Department of the Environment, implementing the city's sustainability plan, before joining the Office of the Deputy Mayor for Health and Human Services and helping to write the final Age-Friendly DC Strategic Plan. He is currently engaged in numerous interagency efforts working on the plan's implementation and serves as the emergency management liaison for the office. Beginning in May

2016, Nick began working on detail with the DC Office of Planning, where he is engaged in the drafting of a new resilience element to the city's Comprehensive Plan as well as working to update other sections of the plan. Nick also participated on the application team for DC's 100 Resilient Cities application and currently sits on the launch team as the District begins this journey. Previous work experience includes researching comprehensive plans and public health at the American Planning Association, field work in eastern Africa assisting refugees coming to the U.S., and domestic work coordinating refugee resettlement in the U.S.. Nick has a dual Master's degree from Virginia Tech in Urban and Regional Planning and Public and International Affairs and a Bachelors' degree in Political Science from the University of Minnesota.

Chip LaMarca is a lifelong resident of Broward County. He is married to his wife Eileen of twenty years and the couple lives in Lighthouse Point with their two rescue dogs. Chip attended Broward College, Florida Atlantic University, and Boston University, before returning home to follow in his late father's footsteps by helping bring jobs to Broward through the construction industry. Chip started LaMarca Construction in 2006. Chip was elected to the Lighthouse Point City Commission in 2005 and is proud to serve the people of District 4 as a Broward County Commissioner since 2010. Chip has worked hard to improve Broward's economy through job creation in his position on the Board of the Greater Fort Lauderdale Alliance. Commissioner LaMarca is a dedicated member of the National Association of Counties where he serves as the Vice-Chair of Large Urban County Caucus and the Florida Association of Counties where he chairs the Finance & Tax Administration committee. He is most proud of his work with the Greater Fort Lauderdale Alliance and the Six Pillars project, where he serves as co-chair of the Steering Committee.

Linda Langston is the director of Strategic Relations for the National Association of Counties in Washington DC. Ms. Langston previously served on the Linn County Board of Supervisors from 2003-2016. In Iowa she remains as the chair of the Linn County Public Health Board, and in Rotary. Ms. Langston is a former president of the National Association of Counties (NACo). Her presidential initiative was Resilient Counties, which focused on building communities' capacity to be ready, resilient, agile, and adaptive in the face of natural, manmade, and economic disasters. Her home county was devastated by flooding in 2008. Also during her time at NACo she served as chair of the Health Steering Committee, chair of the Healthy Counties Advisory Board, chair of the Finance Committee and chair of the Arts and Culture Commission. Her outstanding leadership in arts and culture earned her the 2009 Americans for the Arts' Public Official of the Year Award. Ms. Langston is a member of the Resilient America Roundtable for the National Academy of Sciences and the National Advisory Council for the Federal Emergency Management Agency (FEMA). Born in Chicago and raised in Iowa, Langston graduated from Knox College in Galesburg, Illinois with a degree in history. She is a 2007 graduate of Harvard's Kennedy School of Government for State and Local Officials. Ms. Langston and her husband, Dave, live in Alexandria, Virginia and have two grown sons.

Andrea Larson is the City of Minneapolis' Results Management Program Coordinator, leading their work on enterprise strategic planning, analysis, and reporting. In this role, Andrea is responsible for setting the management and reporting structures for the City and her focus is on evolving the way that local government uses and shares data, especially through the use of community indicators and analysis. Prior to working for the City, Andrea spent time in both the private and nonprofit sectors, applying data-driven strategy principles to drive progress. She spent five years working at Target Corporation, focusing first on driving profitability in the core business and later in Target's philanthropic arm. In corporate philanthropy, Andrea led national education initiatives, where she created shared value between the customer, the community, and the company. In this position, Andrea was recognized for her work on developing Facebook's largest ever giving campaign at that

time. Andrea also spent time consulting on policy and implementation strategy for a variety of nonprofit organizations. Andrea earned her B.A. in Psychology and Scandinavian Studies with a minor in Business from the University of Wisconsin-Madison in 2008 and received her Master's in Public Policy with a focus on public and nonprofit leadership and management in 2015 from the University of Minnesota.

Erika Lindsey is a senior policy advisor for the New York City Mayor's Office of Recovery and Resiliency (ORR), working on initiatives that support the strengthening of social infrastructure and support networks in communities across the city. Previously, Erika conducted spatial analyses that informed policy recommendations for the City's comprehensive climate resilience plan, A Stronger, More Resilient New York. As part of her flood risk outreach work, she used geospatial analyses to communicate current and future flood risk to New York City's population, built environment and critical infrastructure. Prior to the Mayor's Office, Erika worked as a land use planner for the Manhattan Borough President's Office, taught ArcGIS to nonprofit leaders, and conducted spatial analyses for an environmental justice organization in New Delhi, India. Erika is a graduate of the University of California, Los Angeles with a B.A. in Sociology. She received her Master in City Planning from the University of Pennsylvania School of Design.

Kevin Long is an emergency management specialist in the Federal Insurance and Mitigation Administration of the Federal Emergency Management Agency, in Washington, D.C., for 14 years. Mr. Long has worked in the National Flood Insurance Program and other mitigation programs during this time. He also served as the secretariat for the Mitigation Framework Leadership Group (MitFLG) for 3 years. He received his Bachelor of Science degree in Civil Engineering from West Virginia University and his Master of Science degree in Geographic Information Science from the University of Redlands.

With 30 years' experience in the delivery, management and public policy of health and human services, **Nick Macchione** serves as San Diego County's Director of the Health and Human Services Agency. He directs a professional workforce of 6,000 employees with a \$2 Billion annual operating budget, including 166 citizen advisory boards/commissions and 1,000 contracted community service providers. Under Macchione's leadership, the Agency has earned numerous state and national recognitions for its innovative, cost effective solutions in improving the health, safety, and well-being for its one million clients. The Agency is of the largest health and human services networks in the nation, supporting all of its 3.2 million residents residing in San Diego County. With a passionate focus on practical innovation for improving the quality of life of San Diegans, Mr. Macchione directs the delivery of health and social service safety net programs, including public health services; emergency medical services and disaster response; behavioral health services; Medicaid managed care and other safety net health insurance programs; nutrition assistance for the indigent; child and adult protective services; family and community violence prevention, parenting and early childhood development programs, support services for active duty military, veterans and their families, as well as numerous other services. Mr. Macchione implements policy direction of an elected Board of Supervisors and also oversees the operations of the County's Psychiatric Hospital; Edgemoor Skilled Nursing Facility (2014 winner of the Silver Achievement in Quality Award by the American Health Care Association); Children's Emergency Shelter; and a residential high school academy for foster youth. Most notably, under his leadership in 2010 the Health and Human Services Agency and the rest of County government embarked on its most bold and ambitious county-wide "social movement" known as Live Well San Diego. Live Well San Diego is being implemented countywide through hundreds of public-private partnerships representing tens of thousands of San Diegans in building better health, safer living, and economic vitality for all San Diegans. Measurable improvements have been made in all three aforementioned categories as demonstrated in www.LiveWellSD.org. Macchione is a Fellow of the

American College of Healthcare Executives, having previously served a 3- year term as the elected Regent for San Diego and Imperial Counties. He is a Public Health Leadership Scholar with the federal Centers for Disease Control and Prevention and a Creating Healthier Communities Fellow of the American Hospital Association's Health Forum. Mr. Macchione serves on numerous regional and national boards, including serving as vice chair of the Milbank Memorial Funds' Reforming States Group, vice chair of the National Association of Counties' health committees, executive steering committee for Harvard University's Human Services Value Curve, and Aspen Institute's TeamWorks project for state health departments. Mr. Macchione holds dual masters' degrees from Columbia University and New York University where he specialized in health services management and health policy. Also, he earned a senior healthcare leadership certificate from Harvard University. For the past 18 years, he has been an active instructor and faculty member at San Diego State University's Graduate School of Public Health and holds the endowed position of the John Hanlon Executive Scholar for the division of health management and policy.

Head of the Urban Land Institute's Center for Sustainability, **Sarene Marshall** oversees ULI's activities in the areas of climate change, energy, sustainability, and resilience, including the Greenprint Center for Building Performance and the Urban Resilience Program. Through the work of Greenprint and the Urban Resilience Program, the Sustainability Center provides leadership and support to ULI's 35,000 members – land use professionals across North America, Europe, and Asia – to invest in addressing building energy performance and increase portfolio resilience while reducing risks due to the changing climate. Marshall came to ULI from The Nature Conservancy (TNC), where she spearheaded the organization's efforts to reduce its environmental footprint by managing carbon, waste, water, and recycling. She also worked with the Conservancy's Latin America region to develop new initiatives on food security, water security, and smart infrastructure. During her time at TNC, Marshall served as managing director for the global Climate Change program and associate director of Forests and Climate program – two of the Conservancy's largest programs. Previously, she led change management, globalization, and strategic planning projects on behalf of TNC's executive team. Prior to her twelve years at The Nature Conservancy, she held positions with Mercer Management Consulting (now Oliver Wyman), a subsidiary of Marsh & McLennan Companies, and the World Wildlife Fund. Marshall holds a Master of Business Administration and Master of Arts in International Studies from the University of Pennsylvania's Wharton School/Lauder Institute. She is a fluent Spanish speaker who earned a Bachelor of Arts in International Studies from George Washington University and has lived in cities in the U.S., Spain, Colombia, Mexico, and Peru.

Ben McAdams was sworn into office as Salt Lake County Mayor on Jan. 7, 2013. Mayor McAdams pledged to work collaboratively, across party lines, to find efficiencies in County government and to be open and accountable to citizens. During his tenure as County Mayor, he has championed education, helping the county become the first in the country to partner with the private sector to offer greater access to high-quality preschool for low-income children. Mayor McAdams has also emphasized economic development and job growth, partnering with cities to attract business while being a careful steward of taxpayer dollars. He has also supported greater access for businesses and residents to transit, trails and open space. Mayor McAdams is a graduate of the University of Utah and Columbia Law School. After Columbia Law School, he worked as a corporate finance attorney with firms in New York and Salt Lake City. Ben and his wife, Julie (a fellow Columbia Law School graduate) enjoy hiking with their four children and cheering at Saturday morning soccer games.

Kathy Baughman McLeod is Managing Director of Coastal Risk and Investment. She leads a global team of professionals advancing the ability of natural infrastructure, including reefs and wetlands, to protect people and

property along coastlines, sequester carbon, improve fisheries and more. Through science and policy, with engagement in the insurance, engineering and financial sectors, The Nature Conservancy (TNC) seeks to make investing in nature a standard practice for healthier, more resilient communities and economies. Prior to coming to TNC, Ms. Baughman McLeod served international clients in mining, energy finance and other natural resource sectors. She was also twice-appointed by the Governor of Florida to the Florida Energy & Climate Commission. Ms. Baughman McLeod served as the Deputy Chief of Staff to Florida's elected Chief Financial Officer where she led policy development and execution related to the State Treasury and Pension Fund (\$150 billion) and the financial risks and impacts of climate change, including Florida's Hurricane Catastrophe Fund (\$26 billion) and Citizens Insurance (1.3 million policies). She worked for The Trust for Public Land in conservation finance for several years on over \$6 billion in conservation funding. She holds an MBA from Duke's Fuqua School of Business, where course work took place in Dubai, Delhi, St. Petersburg, Bangkok, Shanghai and London, an MS in Urban Geography and a BS in International Affairs from Florida State University. She also holds a certificate in Health Impact Assessment from the University of Liverpool in the UK. She is a 2013 Policy Fellow of the French Foreign Ministry and a Fellow of the Forte Foundation for Women in Business.

C. D. Mote, Jr. is president of the National Academy of Engineering and Regents' Professor on leave from the University of Maryland. He served as President of the University of Maryland for 12 years and on the University of California, Berkeley faculty for 31 years, where he held an endowed chair in Mechanical Systems, was chair of Mechanical Engineering, and served as vice chancellor. As president of the NAE, Dr. Mote is committed to ensuring highly competitive talent in the national engineering workforce, facilitating public understanding of engineering and demonstrating how engineering creates a better quality of life, and engaging the academy in global engineering issues in support of national interests. A highlight of global engineering engagement is the promotion of the NAE fourteen Grand Challenges for Engineering whose solutions are needed to preserve life on the planet as we know it in this century. The drive to preserve life on the planet is the first vision for the engineering profession in history. Dan Mote is internationally recognized for his research on the dynamics of gyroscopic systems and the biomechanics of snow skiing. He has produced more than 300 publications and is a fellow of the American Academy of Arts and Sciences, American Academy of Mechanics, American Association for the Advancement of Science, and Acoustical Society of America, and an honorary fellow of the American Society of Mechanical Engineers (ASME). He is the 2005 recipient of the Founders Award from the National Academy of Engineering and the 2011 recipient of the ASME Medal in recognition of both his comprehensive body of work on the dynamics of moving flexible structures and his leadership in academia.

Paul Nicholas is a senior director for Microsoft's Trustworthy Computing. Paul leads the Global Security Strategy and Diplomacy Team which focuses on advancing cybersecurity, cloud computing and risk management. He actively participates in World Economic Forum's Global Agenda Council on Risk and Resilience and leads Microsoft partnership with 100 Resilient Cities. Prior to joining Microsoft in 2005, Paul spent eight years in the U.S. Government, focusing on emerging threats. During this time, he served as White House director of Cybersecurity and Critical Infrastructure Protection, a senior policy advisor in the U.S. Senate, an assistant director at the Government Accountability Office, and a Department of Defense analyst. Paul earned a B.A. from Indiana University and an M.A. from Georgetown University.

Molly O'Donnell is the resiliency planner and project manager for the Boulder County Collaborative CDBG-DR Infrastructure Program. She specializes in bringing engineers, regulators, and other stakeholders with wide-ranging directives to one table to find innovative, sustainable, and resilient solutions to successfully move infrastructure projects forward in the face of the challenges of the 21st century. She joined the City of

Longmont, acting as the lead agency for the Boulder County Collaborative, in January 2016. The Boulder County Collaborative is a collective of towns, cities, and county governments within Boulder County that formed together after the 2013 Colorado wildfires and floods to prioritize limited disaster funds to address the greatest and most pressing needs in the communities. Ms. O'Donnell manages the \$35 million project portfolio comprising the Collaborative's CDBG-DR Infrastructure Program. She also led the team that crafted the Resilient Design Performance Standard for Infrastructure and Dependent Facilities, an innovative tool to help Boulder County communities move toward a more resilient future, one project at a time. She also sits on the Data, Metrics, & Tools Committee for the Community Resilience Panel for Buildings and Infrastructure. The bulk of Ms. O'Donnell's prior experience was at the County of San Diego Department of Public Works, where, as environmental planning manager, she managed the environmental regulatory review and permitting process for multi-million dollar capital projects and ran the division's operating and capital budgets. Ms. O'Donnell was later the assistant to the City Manager for the City of Carlton, Oregon, on special assignment to make a dent in its backlog of capital projects and to spearhead the integration of performance analytics into the strategic plan and annual budget. While obtaining her M.P.A., she acted as project manager for the Oregon Public Performance Measurement Association, promoting the use of data and analytics in local government management decision-making. She also helped create the Total Employers Cost of Compensation tool, a software-enabled compensation benchmarking system for the public sector. Ms. O'Donnell received a B.A. in Environmental Studies from the University of San Diego and a M.P.A. with a local government management focus from Portland State University's Hatfield School of Government.

Lori Peek is an associate professor in the Department of Sociology and co-director of the Center for Disaster and Risk Analysis (CDRA) at Colorado State University (CSU). She also is an adjunct research scientist at the National Center for Disaster Preparedness, the Earth Institute, Columbia University. Since 2006, she has served as associate chair of the Social Science Research Council Task Force on Hurricane Katrina and Rebuilding the Gulf Coast. Dr. Peek studies vulnerable populations in disaster, with a special emphasis on the experiences of low-income families, racial and ethnic minorities, women, and children. She is the author of *Behind the Backlash: Muslim Americans after 9/11* (Temple University Press, 2011), co-editor of *Displaced: Life in the Katrina Diaspora* (University of Texas Press, 2012), and co-author of *Children of Katrina* (University of Texas Press, 2015). *Behind the Backlash* received the Distinguished Book Award from the Midwest Sociological Society and the Best Book Award from the American Sociological Association Section on Altruism, Morality, and Social Solidarity. In 2009, the American Sociological Association Section on Children and Youth honored Dr. Peek with the Early Career Award for Outstanding Scholarship. She was named the 2010 Greek Life Professor of the Year and has received CSU's Alumni Association Best Teacher Award, College of Liberal Arts Excellence in Teaching Award, and the Waterpik Excellence in Education Award. In addition, the Institute on Teaching and Learning at CSU selected her as a 2011-12 Teaching Fellow as part of a university-wide competition. Dr. Peek earned a B.A. in Sociology from Ottawa University in 1997, a M.Ed. in Education and Human Resource Studies from Colorado State University in 1999, and a Ph.D. in Sociology from the University of Colorado-Boulder in 2005.

Robin Pfohman has worked to address health disparities caused by emergencies for the past 10 years. As the manager of the Community Resilience + Equity Program at Public Health- Seattle & King County, Robin collaborates with internal and external stakeholders, identifies systems issues and builds programming to address disproportionate impacts in emergency response and recovery planning. Robin is particularly interested in strengthening everyday systems so that our community will be more resilient in disasters. Prior to joining the Preparedness Section, Robin served as a program manager in the Community Health Services Division of Public Health. Robin has over 20 years of experience in public health, working on such issues as school based health, Medicaid managed care, and community engagement/partnership development. Robin has committed her

career to system integration and alignment on behalf of underserved communities. Robin received her MPA from the University of Oregon and completed her undergraduate degree at the University of San Francisco.

Former deputy secretary and chief operating officer of the U.S. Department of the Interior, **Lynn Scarlett** is now worldwide managing director for Public Policy at The Nature Conservancy (TNC) and leads TNC's global climate strategy. She chairs the Science Advisory Board of the National Oceanic and Atmospheric Administration, co-chairs the National Academy of Sciences Sustainability Roundtable, and also co-chairs the federal Landscape-scale Conservation Cooperatives Council. During her 8 years at the Interior Department, Ms. Scarlett convened and chaired the Department's Climate Change Task Force. She served on the Executive Committee of the President's Management Council in the White House. She served as a co-lead author of the 2014 (U.S.) National Climate Assessment and served on the U.S. Global Change Research Program Committee. She is author or co-author of publications on climate change adaptation; urban greening; large landscape conservation; and science and decision making. She received her M.A. in political science from the University of California, Santa Barbara, where she also completed her Ph.D. coursework and exams in political economy.

Mayor **Michael Seibert** began his service to the City of Joplin in 2008 by serving on the City Council and was reelected in 2010 and 2014. After the F5 tornado that struck Joplin in May of 2011, his role on the Council grew; he was elected Mayor in 2014 and was recently reelected to serve a second term. Mayor Seibert currently serves as the Chair of the Police and Fire Pension Board, Executive Board Joplin Chamber of Commerce and Joplin Regional Prosperity Initiative. Since the 2011 tornado, he has been focusing on recovery challenges and economic development within the city. Mayor Seibert and the citizens of Joplin have a goal to be known not for the disaster that devastated the community but as a model for recovery. Mayor Seibert is currently a senior sales representative for Bristol-Myers Squibb and is married to his wife Kristi for 36 years. They have a son Jonmichael

William "Bill" Solecki is professor and chair of the Department of Geography at Hunter College – CUNY and serves as the interim director of the CUNY Institute for Sustainable Cities, which seeks to create awareness and understanding of the connections between the everyday lives of urban citizens and their natural world, leading to the discovery and use of cities like New York as a learning laboratory to create a sustainable future for cities worldwide. He has served on several NRC committees including the Special Committee on Problems in the Environment (SCOPE). He currently is a member of the International Geographical Union (IGU) Megacity Study Group and the International Human Dimensions Programme (IHDP), Urbanization and Global Environmental Change Scientific Steering Committee. He currently serves as the co-leader of several climate impacts and land use studies in the New York metropolitan region, including the Metropolitan East Coast Assessment of Impacts of Potential Climate Variability and Change. He holds in degrees in Geography from Columbia University (B.A.) and Rutgers University (M.A., Ph.D.).

Roy Wright serves as the Federal Emergency Management Agency's Deputy Associate Administrator for Insurance and Mitigation. He leads FEMA's risk management, risk reduction, and flood insurance programs. These programs promote a risk-conscious culture, enable faster recovery from flood disasters, and address long-term vulnerabilities to life, property, and well-being in communities across the Nation. Mr. Wright directs the National Flood Insurance Program, the mitigation programs under FEMA's Stafford Act authorities, the National Earthquake Hazards Reduction Program, and the National Dam Safety Program. Mr. Wright is also responsible for the delivery of environmental and historic preservation technical assistance and compliance across all FEMA

programs. He chairs the inter-agency Mitigation Framework Leadership Group (MitFLG) that coordinates mitigation and resilience efforts across the Federal Government in consultation with State, local, Tribal, and Territorial governments as well as the private sector. Mr. Wright was appointed to the Federal Senior Executive Service in 2013. He holds a Master of Public Administration from The George Washington University and a Bachelor of Arts in Political Science from Azusa Pacific University. Prior to taking this role, Mr. Wright has served as a strategy consultant, as the program executive for FEMA's Risk MAP program, and as policy advisor to the Secretary of the Interior focused on land conservation measures. A native of California, Roy and his family live in northern Virginia.