

Moderator bio:

Bilal M. Ayyub, PhD, PE, Dist.M.ASCE, Hon.M.ASME is a University of Maryland, College Park Professor and Director of the Center for Technology and Systems Management. He is a Visiting Professor, Imperial College London, UK; Senior Economist, Applied Economics Office, NIST; Co-Director of its International Joint Research Center for Resilient Infrastructure, (chair professor 2016-18); and Academician of The Georgian National Academy of Sciences; and Science Advisory Board member, NOAA. He is the co-chair of the ASCE-NOAA Task Force of Climate Resilience in Engineering Practice. He researches risk and uncertainty for systems. He completed his doctorate degree from the Georgia Institute of Technology in 1983. He has co-authored about 650 publications including 8 textbooks and 15 edited books, is the founding editor-in-chief of the ASCE-ASME Journal on Risk and Uncertainty in Engineering Systems, and is the recipient of several awards from ASME, ASCE, ASNE and others.

Speakers' bios:

Michael Mastrandrea is an interdisciplinary scientist focused on managing climate risks and the design and implementation of energy and climate policy in California and beyond. He is Research Director of the Climate and Energy Policy Program and a Senior Research Scholar at the Stanford Woods Institute for the Environment, as well as Director of Policy at the Stanford Doerr School of Sustainability Accelerator. He also serves as Chief Advisor for Energy and Climate Research at the California Energy Commission, supporting the R&D and Energy Assessments divisions. Prior to joining Stanford he was Director of Near Zero and a Senior Research Associate at the Carnegie Institution for Science. He was part of the leadership team for the Intergovernmental Panel on Climate Change Fifth Assessment Report, where he helped lead the development of two international scientific assessments of climate change science and policy options. He has also served as an author for the Fourth U.S. National Climate Assessment and as an associate editor for the California Fourth Climate Change Assessment. Mastrandrea sits on the Editorial Board and is a Managing Editor for the journal Climatic Change. He holds a Ph.D. from Stanford's Emmett Interdisciplinary Program in Environment and Resources, and a B.S. in Biological Sciences from Stanford.

Matt Ries

Dr. Matt Ries is the Vice President of Strategy & Performance at DC Water, the water utility serving 2.5 million customers in and around the Nation's capital. He has worked at DC Water for 8 years. Before that, he was the Chief Technical Officer at the Water Environment Federation, a not-for-profit technical and educational organization of more than 30,000

individual members around the world. Dr. Ries was also a consultant in the municipal and industrial water sector and has served on multiple utility and NGO boards. He is a registered Professional Engineer in Virginia. He has a BS, MS, and PhD in Civil and Environmental Engineering. His dissertation focused on the quantitative measurement of sustainability in US urban water utilities. In his current role, he oversees functions at DC Water aligning enterprise-level programs to the organization's Strategy, including the Enterprise Performance Management Office, Enterprise Risk Management, Water Supply Resilience, Sustainability, and Innovation. Dr. Ries is also helping set up the Certified Public Risk Officer-Water & Wastewater (CPRO-W2) professional designation via the Walker College of Business at Appalachian State University, serving on the CPRO-W2 Advisory Board and the inaugural Master Leadership Class.

Adie Tomer

Adie Tomer is a Senior Fellow at Brookings Metro and is an expert in infrastructure policy and urban economics. His work has received coverage and citations in international print publications and other media outlets, including The Economist, Wall Street Journal, New York Times, and the BBC. He's also advised presidential candidates and offered testimony to the U.S. Congress. He holds a Master's degree in public policy from American University and a B.A. from the University of Florida.