

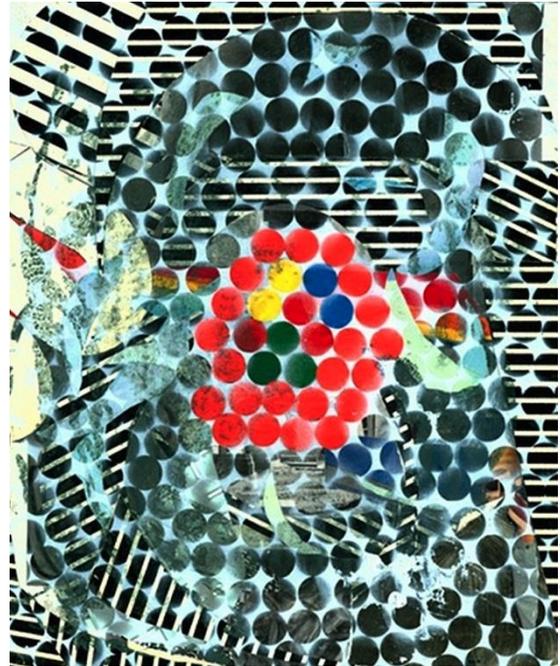
Climate Change Resilience: Governance and Reforms | June 5-6, 2014

American Association for the Advancement of Science, 1200 New York Ave N.W., Washington, D.C.

Registration required | www.ResilienceSummit.org | Resilience.Summit@gmail.com

Issues of **governance**—how collective decisions are made, interpreted, implemented, and challenged—will enable or impede activities to increase resilience. Governance in the context of resilience raises important questions:

- Who decides what resilience actions are taken?
- How are conflicts resolved?
- What creative steps are communities taking and what barriers are they encountering? How can people change them?
- Could a less centralized governance system work better in some cases?
- Where and how does governance happen outside “the state”?
- How can governmental organizations be more effective?



Michael Zachary

**Is this for me?
Who else will be there?**

This two-day summit is for government officials and staff; leaders from civil society, community groups, and the corporate sector; and thought leaders, journalists, and others interested in the governance issues raised by climate change impacts. Come if you work on climate issues and want to engage more on governance. Come if you work on governance and want to better understand implications of tensions climate change may increase.

Why should I participate?

To contribute to the conversation and deepen understanding of the governance challenges posed by climate change preparedness and resilience and to discuss ways to move forward.

Will the summit have a lasting impact?

Yes! This summit will make governance issues more prominent and increase the nuances in ongoing climate resilience discussions. The summit will bring people together to connect and work. Organizers will support ongoing conversations and follow-up activities.

Sponsors



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What is “governance”?

Governance is “**the exercise of economic, political and administrative authority to manage a country’s affairs at all levels. It comprises mechanisms, processes and institutions through which citizens and groups articulate their interests, exercise their legal rights, meet their obligations and mediate their differences**” (*Governance for Sustainable Human Development*, United Nations Development Programme, 1997).

Text below comes, with modifications, from the “Updated Guide to IAD and the Language of the Ostrom Workshop” by Michael McGinnis (2013).

Governance is the processes through which collective decisions are made, implemented, interpreted, and reformed for some group – processes that are shaped not only by formal government officials but also by private individuals, corporations, and a diverse array of professional associations, community-based organizations, and voluntary/non-profit/non- governmental organizations....

A useful shorthand expression is that “**governance determines who can do what to whom, and on whose authority.**”

- Governance does need not be restricted to the activities of formal organizations designed as part of a “government.”
- *Self-governance*: the capacity of any group of individuals to work together to resolve common problems and realize shared aspirations.
- *Monocentric governance*: A governance system that concentrates a great deal of power in the hands of a small number of authorities at the national level.
- *Polycentric governance*: a system of governance in which authorities from overlapping jurisdictions or centers of authority interact to determine the conditions under which these authorities, as well as the citizens subject to these jurisdictional units, are authorized to act as well as the constraints put upon their activities for public purposes.



Linda Frost

Day 1 - June 5

8 AM	Breakfast	
8:45 AM	Welcome	Summit Organizers
9 AM	<p>Perspectives on Resilience and Change Provides perspective on the type and scale of tensions, disruptions, and changes stemming from climate change to which society and governance systems will need to be resilient. How have policy makers and organizations responded to information about climate threats?</p>	<p>Rear Admiral David Titley, Director, Center for Solutions to Weather and Climate Risk, Penn State University</p>
9:35 AM	<p>Terms and Arenas for Preparedness and Resilience Action We begin with what we mean by adaptation, resilience, robustness, preparedness, governance, self-governance, good governance, etc. We list and compare the many arenas in which actions to increase resilience can occur.</p>	<p>Laura Petes, Senior Policy Advisor, Climate Adaptation and Ecosystems, Office of Science and Technology Policy Vivian Thomson, Associate Professor, Department of Environmental Sciences and Department of Politics, University of Virginia</p> <p>Moderator: Elise Lipkowitz, AAAS Fellow</p>
10:10 AM	Break	
10:25 AM	<p>Current Federal Efforts We explore federal government activities related to resilience and how federal government activities connect with formal and informal activities by other levels of government, the private sector, and civil society.</p>	<p>Alice Hill, Senior Advisor for Preparedness and Resilience, National Security Council Laura Petes, Senior Policy Advisor, Climate Adaptation and Ecosystems, Office of Science and Technology Policy</p> <p>Moderator: Elise Lipkowitz, AAAS Fellow</p>
11:15 AM	Lunch	
12:15 PM	<p>How Conflicts Inherent in Preparedness and Resilience Are Handled Today We discuss if and how tensions within and between the arenas and forums mentioned are or are not resolved.</p>	<p>Jalonne White-Newsome, Environmental Justice Federal Policy Analyst, WE ACT for Environmental Justice Jessica Grannis, Adaptation Program Manager, Georgetown Climate Center Megan Susman, Office of Sustainable Communities, U.S. EPA The Honorable Alice Madden, Principal Deputy Assistant Secretary for Intergovernmental & External Affairs, U.S. DOE Marcy Rockman, Climate Change Adaptation Coordinator for Cultural Resources at National Park Service</p> <p>Moderator: James Nachbaur, AAAS Fellow</p>

Day 1 - June 5

1:30 PM	Enabling and Regulating Corporate Actions in Preparedness and Resilience Efforts What challenges are corporations responding to, what actions are they taking, what conflicts are they involved in, and is the governance system working for them and for the people with whom they interact?	Jackie Roberts , Chief Sustainability Officer, The Carlyle Group Lindene Patton , Chief Climate Product Officer, Zurich Financial Services Tom Lewis , President, The Louis Berger Group Michael Gerrard , Director of Center for Climate Change Law, Columbia Law School Moderator: David Hunter , Manager, Federal and Industry Affairs, Electric Power Research Institute
3:00 PM	Break	
3:15 PM	Making Water Systems More Resilient What challenges are water managers responding to, what actions are they taking, what conflicts are they involved in, and is the governance system working for them and for the people with whom they interact?	Jonathan Reeves , Manager, Office of Emergency Management, DC Water Susan Leal , Chief Strategy Officer and Senior Vice President for Water in the Americas, AECOM Lindene Patton , Chief Climate Product Officer, Zurich Financial Services
4:30 PM	Closing Comments and Discussion	David Orr , Paul Sears Distinguished Professor of Environmental Studies and Politics and Senior Adviser to the President, Oberlin College In conversation with: Kate Sheppard , Huffington Post Moderator: James Nachbaur , AAAS Fellow
5:30 PM	Resource Sharing with Refreshments	
7:30 PM	End of Day 1	

Day 2 - June 6

8 AM	Breakfast	
9 AM	Review of Day 1	
9:15 AM	Lessons from Sandy How did communities organize and how did they interact with government organizations in response to the disruptions caused by Hurricane Sandy? Can improvements to urban design processes and governance reduce the impact of similar disruptions?	Nate Kleinman , Occupy Sandy New Jersey Moderator: Irina Feygina , AAAS Fellow
10:45 AM	Perspectives on Resilience and Change	Housing and Urban Development Secretary Shaun Donovan
11:15 AM	Perils of “Disaster Thinking” Is the disaster lens the best way for governments and other organizations to view and approach resilience actions?	Jonathan Reeves , Manager, Office of Emergency Management, DC Water Jalonne White-Newsome , Environmental Justice Federal Policy Analyst, WE ACT for Environmental Justice Lindene Patton , Chief Climate Product Officer, Zurich Financial Services Sabrina McCormick , Department of Environmental and Occupational Health, George Washington University Moderator: Rear Admiral David Titley , Director, Center for Solutions to Weather and Climate Risk, Penn State
1 PM	Lunch	
2 PM	Should the Rules be Changed? We examine the extent to which resilience can be improved within the current system and rules and consider where and how aspects or levels of our governance systems might need to be adapted so communities can better address the challenges posed by climate change.	Jessica Grannis , Adaptation Program Manager, Georgetown Climate Center Victor Flatt , Director, Center for Law, Environment, Adaptation, and Resources (CLEAR), University of North Carolina School of Law Moderator: Darshan Karwat , AAAS Fellow
3 PM	Break	
3:15 PM	Summit Synthesis: Specific Governance Reforms to Increase Preparedness and Resilience and Next Steps	
4 PM	Closing Comments and Discussion	Gar Alperovitz , Lionel R. Bauman Professor of Political Economy, University of Maryland
5 PM	Summit Ends	

Featured Speakers



**U.S. Secretary for
Housing and Urban
Development Shaun
Donovan**

On January 26, 2009, Shaun Donovan was sworn in as the 15th United States Secretary for

Housing and Urban Development. He has devoted his career to ensuring access to safe, decent, and affordable housing, and has continued that effort in the Obama Administration. Sworn in at a time when the foreclosure crisis had devastated American families, under Secretary Donovan's leadership HUD has helped stabilize the housing market and worked to keep responsible families in their homes.

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. This appointment built on his experience with disaster-related recovery and rebuilding challenges from a national perspective in response to Hurricanes Katrina and Rita. Together with U.S. Homeland Security Secretary Janet Napolitano, he led the President's Long-Term Disaster Working Group composed of more than 20 federal agencies.

Before his service as HPD Commissioner, Secretary Donovan worked in the private sector on financing affordable housing, and was a visiting scholar at New York University, where he researched and wrote about the preservation of federally-assisted housing.

Prior to his first service at HUD, he worked at the Community Preservation Corporation (CPC) in New York City, a non-profit lender and developer of affordable housing. He also researched and wrote about housing policy at the Joint Center for Housing Studies at Harvard University and worked as an architect. Secretary Donovan holds a B.A. and Masters degrees in Public Administration and Architecture from Harvard.



**Retired Rear Admiral
David Titley, Director,
Center for Solutions to
Weather & Climate
Risk, Penn State**

Dr. David Titley is a nationally known expert in the field of

climate, the Arctic, and National Security. He is currently Professor of Practice in the Department of Meteorology at the Pennsylvania State University, and founding Director of Penn State's Center for Solutions to Weather and Climate Risk. The Center helps organizations and citizens prosper and succeed in today's and tomorrow's weather and climate environment by taking advantage of all the skill in weather and climate forecasts.

Dr. Titley served as a naval officer for 32 years and rose to the rank of Rear Admiral. Dr. Titley's career included duties as Commander, Naval Meteorology and Oceanography Command, Oceanographer and Navigator of the Navy, and Deputy Assistant Chief of Naval Operations for Information Dominance. While serving in the Pentagon, Dr. Titley initiated and led the US Navy's Task Force on Climate Change. After retiring from the Navy, Dr. Titley served as the Deputy Undersecretary of Commerce for Operations, the Chief Operating Officer position at the National Oceanic and Atmospheric Administration. Dr. Titley has spoken across the country and throughout the world on the importance of climate change as it relates to National Security. The Department of Defense requested he present on their behalf at both Congressional Hearings and the Intergovernmental Panel on Climate Change (IPCC) meetings from 2009 to 2011.

Dr. Titley is a member of the Hoover Institution's Arctic Security Initiative, and serves on the Advisory Boards of the Applied Research Laboratory at Penn State, the Center for Climate and Security, Columbia University's Center for Research on Environmental Decisions, and the Association of Climate Change Officers. He is a member of the National Academies of Science committee on Geoengineering and the Center for Naval Analysis' Military Advisory Board and co-chairs the National Research Council's "A Decadal Survey of Ocean Sciences" committee.

Speakers, moderators, and organizers

Name		Affiliation
Gar	Alperovitz	Lionel R. Bauman Professor of Political Economy, University of Maryland
Lisa	Dickson	Vice President, Sustainability, Kleinfelder
Shaun	Donovan	U.S. Secretary for Housing and Urban Development
Irina	Feygina	AAAS Fellow
Victor	Flatt	Director, Center for Law, Environment, Adaptation, and Resources (CLEAR), University of North Carolina School of Law
Michael	Gerrard	Director of Center for Climate Change Law, Columbia
Jessica	Grannis	Adaptation Program Manager, Georgetown Climate Center
Alice	Hill	Senior Advisor for Preparedness and Resilience, National Security Council
David	Hunter	Manager, Federal and Industry Affairs, Electric Power Research Institute
Darshan	Karwat	AAAS Fellow
Nate	Kleinman	Occupy Sandy New Jersey
John	Laird (invited)	California Secretary for Natural Resources
Susan	Leal	Chief Strategy Officer and Senior Vice President for Water in the Americas, AECOM
Tom	Lewis	President, The Louis Berger Group
Elise	Lipkowitz	AAAS Fellow
Alice	Madden	Principal Deputy Assistant Secretary for Intergovernmental & External Affairs, U.S. DOE
Sabrina	McCormick	Associate Professor, Department of Environmental and Occupational Health, George Washington University
James	Nachbaur	AAAS Fellow
David	Orr	Paul Sears Distinguished Professor of Environmental Studies and Politics and Senior Adviser to the President, Oberlin College
Brendan	Owens	Vice President, LEED Technical Development, U.S. Green Building Council
Lindene	Patton	Chief Climate Product Officer, Zurich Financial Services
Laura	Petes	Senior Policy Advisor, Climate Adaptation and Ecosystems, Office of Science and Technology Policy
Jonathan	Reeves	Manager, Office of Emergency Management, DC Water
Jackie	Roberts	Chief Sustainability Officer, The Carlyle Group
Marcy	Rockman	Climate Change Adaptation Coordinator for Cultural Resources, National Park Service
Megan	Susman	Office of Sustainable Communities, U.S. EPA
Kate	Sheppard	Senior reporter and environment and energy editor, Huffington Post

Vivian Thomson	Associate Professor, Department of Environmental Sciences and Department of Politics, University of Virginia
David Titley	Rear Admiral USN (ret.), Professor of Practice in Meteorology, Director, Center for Solutions to Weather and Climate Risk, Penn State Department of Meteorology
Jalonne White-Newsome	Environmental Justice Federal Policy Analyst, WE ACT for Environmental Justice

About the organizers

James Nachbaur

James is helping to plan this summit in part to sharpen his thinking regarding governance and resilience in the face of climate change. He is currently exploring opportunities for the fall and beyond. James was initially most engaged with formal systems such as math and computer programming. Exposure, conversations, and projects over the years made him appreciate messier community, social, and policy issues. He is excited by the range of positive changes people can accomplish together. At Bowdoin College, his first economics class led him to abandon his applications to computational neuroscience PhD programs and instead apply to a new, interdisciplinary PhD program augmenting economics training with natural science courses. At UC Santa Barbara and Indiana University, James worked on the economics of *if, under what circumstances, how, and how sustainably*, communities deal with threats to livelihoods and with competition among community members for common-pool resources. After a spell in consulting, James spent nearly three years applying economic theory, subject matter expertise, and quantitative skills to public policy issues in the non-partisan Legislative Analysts' Office in the California Legislature. Now in Washington, D.C., James continues to apply economic reasoning and knowledge of water, climate, and energy issues to improve public policy and technology as a Science and Technology Policy Fellow. Email James at nachbaur@gmail.com.

Elise Lipkowitz

Elise is a first-year AAAS Science and Technology Policy Fellow at the National Science Foundation. Prior to her AAAS Fellowship she was a Postdoctoral Fellow in the University of Michigan's interdisciplinary Society of Fellows and an Assistant Professor in the University of Michigan's Department of History. Her interests - shaped by her current fellowship, history of science training, and prior career in public relations in the Silicon Valley - include the history and development of federal science policy, science communications, and how civilizations past and present understood and responded to climate and weather. She is currently completing a book manuscript exploring the effects of nationalism and the intensification of science-state relations during the French Revolution and the Napoleonic Wars on the European scientific community. When not thinking and writing about science in the 21st or 18th centuries, she enjoys travel, vegetarian cooking, dancing, and cheering for her favorite college football teams. Email Elise at lipkowitz@gmail.com.

Darshan Karwat

Darshan is a first-year AAAS Science and Technology Policy Fellow on the Innovation Team at the US Environmental Protection Agency in Washington, D.C. He received his BSE in Aerospace Engineering and PhD in Aerospace Engineering and Sustainability Ethics, both from the University of Michigan. His current research focuses on the combustion chemistry of biofuel blends, and on creating a paradigm for *activist engineering* that incorporates social justice and ecological sustainability concerns into engineering practice and design. He is the co-founder of the Student Sustainability Initiative at the University of Michigan, and maintains an active blog, [Minimizing Entropy](http://MinimizingEntropy.com), which focuses broadly on issues of philosophy, culture, ethics, morality, environmentalism, limits, language, choice, climate, and justice (to name a few), and more specifically on individual activism in the face of the seemingly overwhelming socioecological challenges we face. He loves soccer, space, and cooking. Email Darshan at dippind@umich.edu! He'd love to hear from you, really.

Irina Feygina

Irina is a social psychologist who tackles environmental challenges. At NYU, she researched how people's powerful connection to established social systems hinders effective responses to societal and ecological challenges, and developed interventions that foster sustainable behavior. As a postdoctoral fellow at Rutgers University she investigated the impact of energy efficient building design and retrofits on occupants and developed psychologically informed policies and planning guidelines. Irina organizes interdisciplinary meetings on sustainability and social justice, and teaches courses at the intersection of psychology and environmental studies. Irina's perspective is influenced by her diverse experiences of growing up in the Former Soviet Union and immigration to the U.S., her international work, most formatively among Tibetan refugees on the Indian subcontinent, and as a journalist and interpreter in multicultural organizations. Currently, she is a Congressional Fellow in the office of Senator Michael Bennet of Colorado. Her legislative portfolio includes natural resource management and conservation; renewables, biofuels, and shale energy development and regulation; energy efficiency; agricultural policy; and severe weather resilience and adaptation. Irina enjoys working at the intersection of science and policy, and applying a multidisciplinary approach that integrates the natural and social sciences toward fostering sustainable development. Email her at irina.feygina@gmail.com.