

# 6<sup>TH</sup> NATIONAL ADAPTATION FORUM

*Saint Paul, Minnesota*  
**May 13-16, 2024**



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#NAF2024

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 National Adaptation Forum

**ACTION TODAY** for  
a **BETTER TOMORROW**

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## SCHEDULE AT A GLANCE

*All events are at the RiverCentre unless noted otherwise.*

### Pre-Forum Events: Monday, May 13

- 12:00 pm - 5:00 pm Registration Desk open
- 1:00 pm - 5:00 pm Partner-led events
- 1:00 pm - 3:30 pm Metro Wastewater Treatment Plant field trip (pre-registration required)
- 1:00 pm - 5:00 pm Wakarj Tipi Awanyankapi volunteer opportunity (pre-registration required)
- 1:30 pm - 4:00 pm Westwood Hills Nature Center field trip (pre-registration required)
- 6:00 pm - 7:00 pm Forum Committee Welcome Reception (Intercontinental Hotel)

### Forum Day One: Tuesday, May 14

- 7:00 am - 8:15 am Registration and Breakfast
- 8:15 am - 10:00 am Forum Welcome and Plenary
- 10:00 am - 10:20 am Break/Transition to Session Block #1
- 10:20 am - 11:50 am Session Block #1
- 11:50 am - 1:20 pm Lunch (provided for all attendees)
- 1:20 pm - 2:50 pm Session Block #2
- 2:50 pm - 3:10 pm Break and Snack
- 3:10 pm - 4:40 pm Session Block #3
- 4:40 pm - 5:00 pm Break and Snack
- 5:00 pm - 6:30 pm Session Block #4
- 6:30 pm - 8:30 pm Margaret A. Davidson Networking Reception and Poster Session

### Forum Day Two: Wednesday, May 15

- 7:30 am - 8:30 am Registration and Breakfast
- 8:30 am - 10:00 am Session Block #5
- 10:00 am - 10:30 am Break and Snack
- 10:30 am - 12:00 pm Session Block #6
- 12:00 pm - 1:30 pm Lunch (provided for all attendees)
- 1:30 pm - 3:00 pm Session Block #7
- 3:00 pm - 3:30 pm Break and Snack
- 3:30 pm - 5:00 pm Session Block #8
- 5:00 pm - 5:15 pm Break
- 5:15 pm - 6:45 pm Session Block #9

### Forum Day Three: Thursday, May 16

- 7:30 am - 8:30 am Registration and Breakfast
- 8:30 am - 10:00 am Session Block #10
- 10:00 am - 10:30 am Break and Snack
- 10:30 am - 12:00 pm Session Block #11
- 12:00 pm - 12:15 pm Break and Snack
- 12:15 pm - 1:15 pm Closing Plenary and Activity
- 2:30 pm - 5:00 pm Crosby Farms field trip (pre-registration required)

# Welcome to the 6<sup>th</sup> National Adaptation Forum!

Welcome Adaptationers!

Every day we're all working to create a **climate savvy world**, then once every two years we come together as a community of practice to share what we've been trying, learn from each other, and get reinvigorated to keep moving forward.

EcoAdapt is delighted to be hosting the **6th National Adaptation Forum**.

We are honored to support these national convenings of our peers as we collaborate to envision, test, and implement effective adaptation.

Soak in the diversity of experiences and ideas that surrounds you at this event, then take it all forward to innovate solutions to meet the challenges of climate change.

Have a great week in Saint Paul!

Lara Hansen, EcoAdapt



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# 6th National Adaptation Forum Committee Members

**KEY:** [PC] Planning Committee • [EWG] Equity & Climate Justice Working Group • [RC] Review Committee • [MN] Minnesota Subcommittee • [PWG] Plenary Working Group

- Addison Houston**, King County, [PC]  
**Aimee Delach**, Defenders of Wildlife, [PC]  
**Alex Basaraba**, Cadmus, [EWG]  
**Allie Reilly**, Department of Energy, [PC]  
**Allison Brooks**, Bay Area Regional Collaborative, [PC]  
**Amanda Farris**, University of Minnesota Climate Adaptation Partnership, [PC, MN]  
**Amanda Lewis**, Independent contributor, [EWG]  
**Anna Yip**, Blue Forest, [EWG]  
**Annie Bennett**, Georgetown Climate Center, [RC]  
**Ariane Laxo**, HGA Architects & Engineers, [PC, MN, PWG]  
**Ashlyn Shore**, National Environmental Modeling and Analysis Center, [PC]  
**Beau Ryck**, Esri Inc., [PC]  
**Becca Garman**, US EPA, [RC]  
**Bhaskar Subramanian**, NOAA Climate Program Office, [EWG]  
**Bob Newman**, University of North Dakota, [EWG, PWG]  
**Cam Adams**, The Nature Conservancy, [PC]  
**Carmen Blackwood**, Jet Propulsion Laboratory/California Institute for Technology, [PC]  
**Carol Considine**, ODU Institute for Coastal Adaptation & Resilience, [PC]  
**Darren Long**, Climate Resilience Fund, [PC]  
**Debra Butler**, American Society of Adaptation Professionals, [PC, EWG]  
**Derek Kauneckis**, ISeeChange / Desert Research Institute, [PC]  
**Diana Pietri**, Eastern Research Group, [EWG]  
**Diane Mas**, Fuss & O'Neill, [RC]  
**Edgar Reyna**, University of California Los Angeles, [EWG]  
**Elea Becker Lowe**, CA Governor's Office of Planning and Research, [RC]  
**Elissa Welch**, Midwest Climate Adaptation Science Center, [MN, PWG]  
**Erica Akemi Goto**, University of Michigan, [RC]  
**Gwen Griffith**, Model Forest Policy Program, [RC]  
**Hans Schmitz**, Purdue Extension, [RC]  
**Heather Higinbotham Davies**, Last Best Planet LLC, [PC]  
**Jacob Blandford**, Association of Fish and Wildlife Agencies, [PC]  
**Jade Payne**, Dewberry, [PC]  
**Jeffrey Meek**, ICF, [RC]  
**Jennifer Li**, Harrison Institute for Public Law, Georgetown Law, [EWG]  
**Jessica Garrison**, NOAA Climate Adaptation Partnerships, [EWG]  
**Jordan West**, US EPA, [PC]  
**Julie Conroy**, Arcadis, [PC]  
**Julie Ulrich**, The Nature Conservancy, [EWG]  
**Karin Rogers**, National Environmental Modeling and Analysis Center, [PC]  
**Kat Sisler**, Centers for Disease Control and Prevention, [PC]  
**Katarina Hou**, Shared-Use Mobility Center, [EWG]  
**Kate Skaggs**, CDM Smith, [PC]  
**Katia Carranza**, Together for Nature, [EWG]  
**Katy Maher**, Federal Highway Administration, [RC]  
**Kelsey Evans**, US EPA, [RC]  
**Kettie Rupnik**, PG Environmental, [RC]  
**Kimberly Hall**, The Nature Conservancy, [PC]  
**Kyla Bloyer**, American Society of Adaptation Professionals, [EWG]  
**Lidia Cano**, Massachusetts Institute of Technology, [EWG]  
**Lillian Liang**, University of California Los Angeles, [RC]  
**Luiz Barata**, Port of San Francisco, [Chair of EWG]  
**Mackenzie Davis**, GHD, [RC]  
**Marc Coudert**, City of Austin Office of Resilience, [PC]  
**Maryellen Hearn**, Pathways Climate Institute, [PC, MN]  
**Megan Susman**, US EPA, [RC]  
**Melissa Ocana**, University of Massachusetts Amherst Extension, [PC]  
**Michelle Covi**, University of Georgia Marine Extension and Georgia Sea Grant, [PC]  
**Mike Chang**, Cascadia Consulting Group, [Chair of EWG]  
**Miriam Aczel**, California Institute for Energy & Environment, [EWG]  
**Olivia LeDee**, Midwest Climate Adaptation Science Center, [PC, MN]  
**Patricia Kennedy**, CA Governor's Office of Planning and Research, [PC]  
**Penny Loeb**, Independent contributor, [RC]  
**Sara Morrison**, Fuss & O'Neill, [RC]  
**Sascha Petersen**, Adaptation International, [PC]  
**Scott Laursen**, Pacific Islands Climate Adaptation Science Center, [PC]  
**Sebastian Malter**, CDM Smith, [PC]  
**Sherry Stout**, National Renewable Energy Laboratory, [PC]  
**Sienna Templeman**, WSP, [PC]  
**Steph Courtney**, United South and Eastern Tribes, [EWG, MN]  
**Susan Asam**, ICF, [PC]  
**Susi Moser**, Susanne Moser Research & Consulting, [PC]  
**Tamera Breidenbach**, Colorado State University, [Buddy Program Chair]  
**Vidya Balasubramanyam**, Coastal States Organization, [EWG]  
**Vijay Kesavan**, Jacobs, [PC]  
**Zoe Gossett**, Climateworks Foundation, [EWG]

# Field Trips

## The Metropolitan Wastewater Treatment Plant

Monday, May 13: 1:00 - 3:30 pm

One of the ways that the Metropolitan Wastewater Treatment Plant is enhancing resiliency as a part of the Met Council Climate Plan is through enhanced flood protection in response to increasing storm events. The plant was built on the banks of the Mississippi River in 1938 to harness gravity to move wastewater; however, the plant's placement also puts the utility at risk of flooding. Hear how the Metropolitan Council carries out its clean water mission when its largest treatment plant is 15 feet below the river crest. Learn how efforts such as separating stormwater and sewer pipes, and reducing inflow and infiltration of clear water into sewers, minimizes flood risks, addresses public health, and contributes to regional adaptation efforts.

### Attendees will see and experience:

- A flood wall and effluent pumps
- A tunnel system with piping and equipment that must be protected during floods, with groundwater pumps and special gates at access points
- The temporary road used during flood events and see photos of the road in use
- The flood high water mark
- Closed camera television (CCTV) monitoring of pipe-in-pipe stormwater separation at a maintenance hole

**Location:** Metropolitan Wastewater Treatment Plant, St. Paul, MN

**Transportation:** Transportation will be provided for participants. Participants will meet at the RiverCentre registration desk and will be transported to and from the Metropolitan Wastewater Treatment Plant.

## Wakanj Tipi Awanyankapi

Monday, May 13: 1:00 - 5:00 pm

Forum attendees are invited to volunteer with our local partner, Wakanj Tipi Awanyankapi. Wakanj Tipi is a Native-Led, East Side environmental stewardship nonprofit centered in Dakota values.

Volunteers will help clean up trash at Wakanj Tipi (also known as Bruce Vento Nature Sanctuary), which directly relates to the restoration efforts that are currently occurring at the site. Trash clean ups are incredibly helpful to the ecosystems on the site, which include ponds, oak savannah, prairie, wetlands, and bluff woodlands.

Please note, bug spray, boots, pants, and long-sleeve clothing are highly recommended due to ticks. Trash bags and rubber gloves will be provided.

**Location:** Bruce Vento Nature Sanctuary, 590 4th St E, St Paul, MN 55106

**Transportation:** Transportation is not provided – participants will meet at the location listed above (about a five minute drive from the RiverCentre).

## Westwood Hills Nature Center

Monday, May 13: 1:30 - 4:00 pm

Westwood Hills Nature Center in the City of St Louis Park is the first commercial Net Zero Energy Certified project in the state of Minnesota. Located on 160-acres featuring marsh, woods, prairie, and a bog, the nature center provides habitat for multiple species and allows visitors to connect with nature through education programming, exhibits, walking paths, and the building itself. During the design process, climate change projections were used to analyze and project energy use and validate architectural and engineering details, to help the City feel confident the building would operate at net zero energy well into the future. Since the building opened to the public in 2020, Minnesota has experienced extreme heat, increased wildfire smoke, drought, and other climate change impacts at an accelerated pace beyond projections.

Participants will learn about the intersection of climate change mitigation and adaptation from project architects and engineers and hear from Nature Center Manager Mark Oestreich about how the building has been operating, acting as a teaching tool, and adapting to the changing climate.

**Location:** Westwood Hills Nature Center, 8300 W Franklin Ave, St Louis Park, MN 55426

**Transportation:** Transportation will be provided for participants. Participants will meet at the RiverCentre registration desk and will be transported to and from the Nature Center.

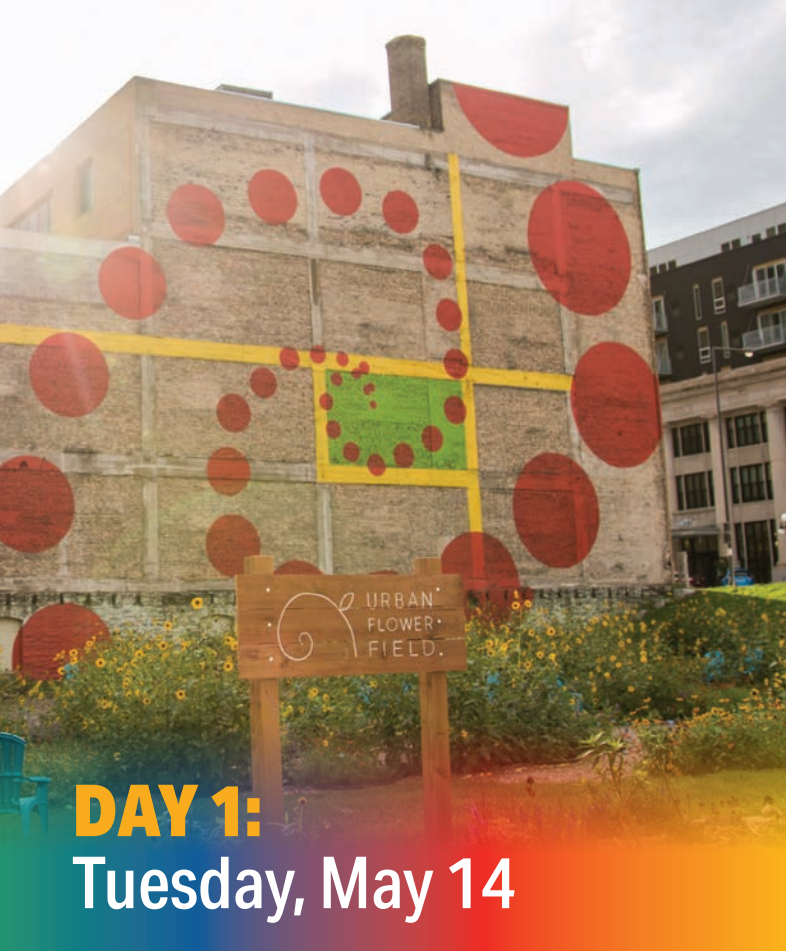
## Crosby Farm Regional Park

Thursday, May 16: 2:30 - 5:00 pm

On this tour, participants will visit a long-term climate change adaptation experiment in the heart of St. Paul. This experiment, part of the international Adaptive Silviculture for Climate Change network, is testing different adaptation strategies for managing a floodplain forest that has experienced dramatic canopy loss from emerald ash borer. Participants will visit study plots in an urban forested natural area and hear from scientists, managers, and volunteer managers about their experience with the project. Lessons learned and results from four years of data collection will also be shared. The plots are located about 1 mile from the parking lot on a paved trail. If participants wish to enter the plots, they must wear long pants and field-appropriate footwear (waterproof boots, tennis shoes, or anything you don't mind getting muddy). Bring a water bottle, bug spray, sunscreen, and appropriate clothing for the weather.

**Location:** Crosby Farm Regional Park

**Transportation:** Transportation will be provided for participants. Participants will meet at the RiverCentre registration desk and will be transported to and from Crosby Farm.



# DAY 1: Tuesday, May 14

## Schedule At-A-Glance

7:00 am - 8:15 am	Registration and Breakfast
7:00 am - 8:30 pm	Exhibits
8:15 am - 10:00 am	Forum Welcome and Plenary
10:00 am - 10:20 am	Break/Transition to Session Block #1
10:20 am - 11:50 am	Session Block #1
11:50 am - 1:20 pm	Lunch (provided for all attendees)
1:20 pm - 2:50 pm	Session Block #2
2:50 pm - 3:10 pm	Break and Snack
3:10 pm - 4:40 pm	Session Block #3
4:40 pm - 5:00 pm	Break and Snack
5:00 pm - 6:30 pm	Session Block #4
6:30 pm - 8:30 pm	Margaret A. Davidson Networking Reception and Poster Session

**7:00 am - 8:15 am** Registration and Breakfast

**8:15 am - 10:00 am** Forum Welcome and Plenary  
*Grand Ballroom*

Welcome to the National Adaptation Forum! Join your fellow attendees for a welcome and intention setting led by EcoAdapt's Lara Hansen, a keynote address from the Mayor of Saint Paul Melvin Carter, and a plenary with Bazile Panek of Good Sky Guidance and Ziigwanikwe Katy Bresette of Dynamite Hill Farms. Bazile and Katy will discuss Indigenous Knowledges in adaptation practice and the importance of investing in long-term relationships when working with Indigenous communities. This year's plenary is brought to you in partnership with the Midwest Climate Adaptation Science Center (MW CASC).

**10:00 am - 10:20 am** Break/Transition to Session Block #1

**10:20 am - 11:50 am** Session Block #1

### Adapting, Responding, and Thriving: How Businesses Can Be Part of a Resilient Future *Meeting Rooms 1 & 2*

Businesses play a crucial role in the vitality of communities, both as economic and social engines. Cities and states committed to addressing short term disasters and longer term climate disruptions must include businesses in planning for a more resilient future. This session will focus on how different communities have responded to these challenges, systematic approaches to supporting businesses through crises, and longer term collaborations to strengthen our communities. In addition to accessing existing toolkits and resources, participants will be encouraged to share questions, insights, and commitments through large group discussions and breakout conversations with fellow non-profit, government, and philanthropic partners.

#### Moderator

- Lisa Churchill, Climate Advisory, Principal

#### Speakers

- Stephanie Sun, Gulf of Maine Research Institute
- Gayle Bowness, Gulf of Maine Research Institute, Program Manager, Municipal Climate Action Program Manager
- Peter Plumeau, Reframe Lab, Partner, Strategy and Leadership
- Armando Moritz-Chapelliquen, Local Initiatives Support Corporation (LISC), Senior Program Officer
- Brendan Shane, Trust for Public Land, Climate Director, Land and People Lab

### The Power of Narratives: The Value in Building Empathy, Connection, and Resilience *Meeting Room 4*

Immersive experiences and embodiment have a unique power; they foster emotional connections, stimulate cognitive processing, build self-efficacy, and leverage collaborative networks. Creative and innovative activations can engage diverse audiences in adapting to climate change. This session will:

- Explore how stories can connect diverse groups, amplifying the voices often marginalized in climate conversations, through mutually beneficial partnerships.



## Featured Session: Building a Climate Ready Nation: Addressing Increasing Climate Threats with Historic BIL-IRA Investments

*Meeting Rooms 5 & 6*

Unprecedented extreme weather events—deadly heat waves, massive flooding, wildfires, and stronger storms—are challenging communities around the country. Leveraging historic resources provided by the Bipartisan Infrastructure Law (BIL) and Inflation Reduction Act (IRA), the National Oceanic and Atmospheric Administration (NOAA) is working with public and private sector partners to develop the products and services needed to build an equitable and Climate-Ready Nation. In this session NOAA leadership, grantees, and partners will discuss the services and information NOAA is delivering to ready the nation to address climate-related risks. Speakers will discuss NOAA's efforts to help communities prepare multi-hazard resilience plans, address increasing impacts on public health from extreme heat, and catalyze private sector work to support resilience efforts. In breakout groups, attendees will have the opportunity to share lessons from their own work on these topics with NOAA program leads, grantees and other participants to help NOAA shape its delivery of climate data, services and funding opportunities. Together, speakers and attendees will explore what we are learning from historic BIL and IRA investments and will share opportunities for carrying this work forward to ensure the continuation of important efforts to ready the country for climate change.



### Speakers

- **Rick Spinrad**, National Oceanic and Atmospheric Administration, Under Secretary of Commerce for Oceans and Atmosphere and NOAA administrator
- **Hunter Jones**, Climate Program Office, National Oceanic and Atmospheric Administration, Climate and Health Program Deputy Director
- **Ned Gardiner**, National Oceanic and Atmospheric Administration, Program Manager, Climate Smart Communities Initiative (CSCI)
- **Caitlin Young**, RESTORE Science Program, Ocean-Based Climate Resilience Accelerators Program, National Oceanic and Atmospheric Administration, Science Coordinator
- **Jane Gilbert**, Miami-Dade County, Chief Heat Officer
- **Meghan Richards**, Detroit's Eastside Community Network, Community Resilience Manager
- **Amanda McCarty**, National Oceanic and Atmospheric Administration, NOAA Climate Ready Nation Director

### Session Organizers

- **Jessica Grannis**, Office of the Under Secretary, National Oceanic and Atmospheric Administration, Senior Advisor
- **Kacey Clayton**, Office of the Under Secretary, National Oceanic and Atmospheric Administration, Knauss Fellow

- Engage with gamification and narrative play as practical tools for collaborative decision making and fostering trust in our collective journey through climate uncertainty.
- Experience the future of climate communications by unlocking the extraordinary potential of Virtual and Augmented Reality (VR and AR).
- Use an interactive Q&A session to ignite conversation and mutual engagement.
- Join us to discuss the behavioral science underpinning in effective climate risk communication, and experience firsthand how these principles manifest through storytelling, narrative play, and virtual reality.

### Speakers

- **Peter Herrick, Jr.**, FEMA, Communications Strategy Branch Chief
- **Sarah Bassett**, Arizona State University, Professor of Practice; Co-Director Resilient Visions Co-Lab
- **Juliano Calil**, Virtual Planet | Middlebury Institute of International Studies at Monterey, CA, Founder and Chief Scientist | Senior Fellow
- **Augie Gastelum**, Rail CDC, Executive Director
- **Mary Muñoz Encinas**, Knowledge Exchange for Resilience, ASU, Project Coordinator

## Climate Resilience for an Aging Nation *Meeting Room 7*

Older adults are disproportionately impacted by climate change, and yet are often overlooked in climate resilience planning efforts – a pattern we must reverse to account for our changing demographics. By 2040, one in five people in the U.S. will be over 65, and older adults will outnumber children for the first time ever. Action is needed now at the community scale to reduce risks and improve safety and well-being for people of all ages, particularly because of the disparate impact that climate change has on older adults. For 20-plus years, the majority of people who die in major events (Hurricanes Katrina, Sandy, Maria, and Ian; Paradise wildfire and PNW heat waves; winter storms in Buffalo, etc) are over 60 years of age. This session discusses findings from a new book, *Climate Resilience for an Aging Nation*, which argues that climate resilience must be centered in the needs of older adults in order to solve for the systems-wide failures that expose them and other vulnerable populations to greater risk. This session will foster conversation on how climate change differently impacts older adults, and what must be done across diverse sectors in order to build community resilience for an aging nation.

### Speaker

- **Danielle Arigoni**, National Housing Trust; Island Press, Managing Director for Policy and Solutions; Author

## Exploring Adaptive Interdependence in Community Infrastructure *Meeting Rooms 8 & 9*

Every community relies on a system of interdependent civic infrastructure, from transportation and energy to water and development. These systems are complex; it is hard to understand how changes to one system will affect other systems and community health. The session's format will introduce dependent systems; present research and case studies at a range of scales; and end with a Q&A session.

**This session has case studies across four functional systems:**

- **Transportation** - How can digital twins and activity based models inform coordinated investments in tree canopy or inform the impacts of a bridge closure?
- **Energy** - How do we incorporate equity, justice, and affordability for all into grid reliability and energy resilience policy and infrastructure investments?
- **Water** - How can we integrate equity into flood risk assessments to help communities make informed adaptation decisions?
- **Building & Sites** - How does uncertainty and ranges of plausible futures help building owners and design teams evaluate potential climate change impacts across building lifespans?

### Moderator

- **Ariane Laxo**, HGA Architects and Engineers, Director Of Sustainability

### Speakers

- **David Wasserman**, Alta Planning + Design, Civic Analytics Leader
- **Patrick Murphy**, PSE Healthy Energy, Senior Scientist
- **Harrison Jaehn**, Arcadis, Water Resilience Engineer
- **Heather Sprague**, Arcadis, Senior Water Engineer
- **Patrick Cipriano**, University of Minnesota, Graduate Student

## Training: How to choose decision-support tools and datasets for vulnerability assessments and hazard-specific climate impacts *Meeting Rooms 10 & 11*

The number and diversity of decision-support tools, datasets, and metrics for climate action can be overwhelming. Tools, datasets, and metrics may focus on different geographies, specialize in certain ecosystems, sectors, or vulnerabilities, and range in their user-friendliness, spatial resolution, and other factors. All have pros and cons to consider before choosing the most appropriate options. Participants will learn from a few short case studies in how tools were selected to support vulnerability assessments, sea-level rise planning, extreme heat, and other adaptation needs. At a minimum, we plan to review NOAA and Washington Sea Level Rise Projections, FEMA Flood Zones, Tree Equity Score, Extreme Heat Map tool, California CHAT and SLR guidance, The Greenlining Institute's equity guidebook for adaptation, and census data (including EJScreen). Participants will then spend the remaining time working in small groups to winnow down the wide range of potential tools, datasets, and metrics to those best-suited for a particular adaptation need. Participants can bring a project to troubleshoot or work through pre-prepared scenarios for a vulnerability assessment, sea-level rise planning, or planning for extreme heat. Training organizers anticipate approximately 40 minutes of small group work and 20 minutes to report out.

### Speakers

- **P.J. Tillman**, Cascadia Consulting Group, Senior Associate
- **Kristina Zeynalova**, Cascadia Consulting, Senior Associate

## Collaborating and Communicating to Advance Climate and Health Adaptation Efforts *Meeting Room 12*

Michigan, California, and Wisconsin will describe how they are working with partners at various levels to implement programs that impact population health in the face of climate change. They will share lessons learned, as well as tips and resources to replicate the work in your context.

Michigan will share their "Climate and Health Adaptation Planning Guide for Michigan Communities," a resource for integrating health into municipal climate adaptation plans based on a pilot project in rural Marquette, Michigan. Dive into how the guidebook was created, the key elements to include, lessons learned from Marquette's implementation, and how to use this guidebook in urban, suburban, and rural communities.

California will demonstrate how to engage frontline communities to develop adaptation solutions while centering race and equity into their quantitative analyses and uplifting community voices. The community-based Arc and FUERTE projects are centered around building resilience and local capacity within undocumented, low-income, older adults, and youth.

Wisconsin will spotlight their "Climate and Health Communications Collaborative" to build climate and health literacy and resiliency statewide and spur adaptation and mitigation actions that protect health from climate impacts. Learn how they used a research-based approach to inform and engage Wisconsinites where they live, work, learn, and play so they understand local climate impacts, how they affect health and safety, and how to adapt and protect the health of individuals, communities, economies, and the planet.

### Speakers

- **Caroline Helsen**, Michigan Department of Health and Human Services, Climate and Health Program Manager
- **Edgar Reyna**, City of Los Angeles, Climate Resilience Senior Analyst
- **Mackensie Yore**, UCLA/VA National Clinician Scholars Program, Director
- **Erika Kluetmeier**, Wisconsin Department of Health Services, Climate and Health Program Communications Strategist
- **Kate Beardmore**, Wisconsin Department of Health Services, Climate and Health Program Evaluator
- **Isabella Kaser**, Public Health Institute, Climate Resilience Project Manager

## Agri-voltaics - solar panels above croplands - adaptation a the food-energy-water nexus + economic drivers *Meeting Rooms 13 & 14*

Increasingly extreme heat and water scarcity pose challenges for food production in the American Southwest, where most of the country's winter vegetables are produced. Energy resilience is a challenge for the region, too, as the grid struggles to meet growing demand.



Agri-voltaics – solar panels above croplands – are a promising adaptation strategy to improve soil health, crop yield, carbon sequestration, and water-use efficiency while also producing distributed energy, changing the economic calculus for farming, and improving working conditions for farmers.

Our cross-sector implementation and research team is conducting a scientific empirical study of this range of ecological and socio-economic co-benefits at three installation sites in the inland Southern California region. Documenting these ecosystem services and community resilience enhancements could prove key to preserving working lands that are otherwise threatened by sprawl development pressures at the wildland-urban interface.

Learn about the strains that agriculture faces in modern-day weather whiplash conditions, and how those conditions contribute to consolidating the sector into an increasingly corporate one. Be inspired by the potential for regenerative agricultural practices to improve food system resiliency and working conditions for farmworkers, and to contribute to climate mitigation through carbon sequestration, renewable energy production, and reduced water use.

#### Moderator

- Bryn Moncelsi, Climate Resolve, Deputy Director

#### Speakers

- Susan Phillips, Pitzer College
- Rose Olivas, Pitzer College Robert Redford Conservancy, Manager of Ecological Resources
- Eshwar Ravishankar, Cal Poly Pomona, Assistant Professor, Department of Plant Sciences
- Joyce Jong, City of Riverside, Senior Project Manager
- Arthur Levine, Pitzer College, Researcher

### Nature-based Design Tools for Community Visioning

#### Meeting Room 15

Community visioning during adaptation planning helps build consensus, fosters community ownership of projects, and ensures that the resulting strategies align with the community's values. This session will highlight community-based planning techniques and tools that were created for three different projects to assist communities with identifying and implementing nature-based solutions – specifically, green infrastructure to address flood risks. These projects were conducted under the umbrella of the EPA's Equitable Resilience Program and included developing a Green Infrastructure Toolkit for the South Carolina Office of Resilience's Mitigation Buyout Program, designing, and implementing nature-based solutions in Lafayette, Louisiana, and working with university campuses through design charettes on the Campus Rainworks Challenge. These projects illustrate a range of techniques to build community consensus and shared vision for green infrastructure that were developed by ONE Architecture & Urbanism with Kim Lundgren Associates, Inc. (KLA) and Adaptation International (AI). During this session, speakers will engage attendees in learning about context-specific nature-based interventions through activities involving a green infrastructure card deck, stakeholder personas, and more. Presenters will also share challenges and barriers to creating and using these tools with communities,

including limited capacity, knowledge, and resources, based on their work with state agencies, local municipalities, and universities.

#### Speakers

- Oksana Veselkova, One Architecture & Urbanism Inc., Urban Planner
- Nupur Roy Chaudhury, One Architecture & Urbanism Inc., Urban Designer

### Community-Led Adaptation Innovations and Policy Recommendations Special Session *Grand Ballroom D*

The American Society of Adaptation Professionals invites you to a special session focused on community-led adaptation innovations. This session includes two 45-minute panel presentations that aim to inspire and inform solutions from the local to national levels.

The first panel, "Achieving Climate Ambition at Corridor Scale - Uniting Cities, States, and Indigenous Nations," will discuss how Mayors and the conservation industry have joined together to create the largest non-federal pipeline of natural infrastructure projects along the ten-state length of the Mississippi River Corridor to achieve resilience, mitigation, and climate ambition. Additionally, for the first time in U.S. history, Mayors and Indigenous Nations have entered into an agreement to bring cities and Tribal governments together along the Mississippi River in large-scale ecosystem restoration work. This panel will detail these partnerships and how the public and private sectors are working to adapt the most critical food-producing river basin on Earth.

The second panel, "Stories from Frontline Alaska Native Villages and National Policy Recommendations," will host Tribal leaders from three remote Alaska Native villages to share stories and recommendations for how to advance the equitable delivery of national climate adaptation resources and services for frontline communities. This panel is an opportunity to engage with communities facing relocation and managed retreat, and learn about an example whole-of-government implementation framework for Alaska that could be tested and expanded nationwide.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

#### Speakers:

- Michael LaRoque, White Earth Nation, Treasurer
- Sara Burns, Ducks Unlimited, Water Program Specialist
- Colin Wellenkamp, Mississippi River Cities and Towns Initiative, Executive Director
- Walter Nelson, Native Village of Napakiak, Managed Retreat Coordinator
- Christina Waska, Newtok Village Council, Relocation Coordinator
- Janet Erik, Chefornek traditional council
- Tristan Agnauraq Morgan, Alaska Native Tribal Health Consortium, Community Grant Writer

#### Session Organizers

- David Savarese, Jacobs, Program Delivery Manager
- Max Neale, Alaska Native Tribal Health Consortium, Program Manager, Center for Environmentally Threatened Communities
- Sylvia Chang, AECOM, Senior Climate Adaptation and Resilience Planner
- Nichole Kain, Antioch University New England, Doctoral Candidate

11:50 am - 1:20 pm Lunch *Grand Ballroom*

**11:50 am - 1:20 pm: Featured Session: Comprehensive Climate Policy Through Partnership: A Working Group Lunch with The Pew Charitable Trusts** *Meeting Room 3*

Learn about Pew's multi-faceted approach to addressing the complex impacts of a changing climate.

**Pew**

Lightning-style presentations will highlight the varied and coordinated approaches of Pew's climate-focused research and policy efforts. Attendees will then participate in guided discussions over lunch on topics including statewide planning, managing climate-related budget risks, and harnessing the power of nature and nature-based solutions for carbon sequestration and resilience. The lunch discussion will connect members of Pew's network of partners and stakeholders spanning disciplines, sectors, and subject matter expertise, and explore opportunities for collaboration among past and potential new partners.

**This session will feature Pew's efforts across two projects:**

- Pew's Managing Fiscal Risks helps state policymakers prepare for new and emerging risks to fiscal stability and manage uncertainty by strengthening budgeting practices across several areas including acute climate disasters and broader climate change impacts.
- Pew's U.S. Conservation Program works to address interrelated impacts of climate change on communities and environment. To advance this, the U.S. Conservation program works with state governments and partners to develop comprehensive, forward-looking resilience plans that benefit communities. The U.S. Conservation program also works to protect and restore ecosystems that provide greenhouse gas mitigation benefits and buffer communities from climate impacts.

**Participants should pick up lunch from the main buffet line and bring it to Meeting Room 3.**

1:20 pm - 2:50 pm Session Block #2

**Adaptation and Nature Based Solutions Special Session** *Meeting Rooms 1 & 2*

Throughout history, natural phenomena like fire, drought, earthquakes, and flooding have played pivotal roles in shaping ecosystems. However, the intensification and increased frequency of these disturbances, driven by climate change and inadequate land management practices, are precipitating significant shifts in ecosystems and communities. These shifts require today's practitioners to discover the full potential of natural systems and deliver solutions that apply that value: Nature-based Solutions (NbS).

Our session will focus on how NbS can be designed to enable adaptation and elevate resiliency. The objective of this discussion is to empower participants to advance their own NbS solutions,

informed by the leading principles and practices and inspired by case studies of various US projects that demonstrate the potential for multiple benefits. A facilitated panel discussion will provide the opportunity for participants to ask questions and engage in a robust discussion to share best practices and lessons learned.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

**Speakers**

- **Laura Adams**, Black & Veatch, Communities & Ecosystems Solution Lead
- **John Kiefer**, Black & Veatch, Ecosystem Solution Practice Lead
- **Tony St Aubin**, SWCA Environmental Consultants, Ecological Restoration Director
- **Josh Allen**, SWCA Environmental Consultants, Senior Ecological Engineer

**Session Organizer**

- **Amy Rapp**, Climate Resilience Solutions, LLC, Founder
- **Joanna Parkman**, FEMA, Environmental Floodplain Specialist

**Measuring and Managing the Complex Costs of Wildfires** *Meeting Room 4*

Wildfires are becoming more frequent, severe, and costly, creating complex societal challenges and putting pressure on governments and communities. The complexity of wildfires and their impacts can be a barrier to progress towards overall risk reduction, which would have environmental, public health, and fiscal benefits, among others.

This session will provide an overview of research from several non-profit and academic experts, examining the costs associated with wildfires, the challenges those rising costs are creating, and steps that can be taken to begin addressing them. Session participants will gain a better understanding of the fiscal, societal, and environmental costs of wildfires and recommendations on ways to confront this growing risk through better data, metrics and accountability, and investment in mitigation.

**Speakers**

- **Andrea Snyder**, The Pew Charitable Trusts, Senior Associate
- **Ann Kapusta**, ThinkSpace Consulting, Founder
- **Austin Troy**, Presidential Initiative on Urban & Place-Based Research, Urban and Regional Planning Department, Professor and Director
- **Autumn Hanna**, Taxpayers for Common Sense, Vice President
- **Peter Muller**, The Pew Charitable Trusts, Senior Officer

**Camping 101 and Emergency Preparedness - Making Climate Adaptive Behaviors Engaging through Outdoor Education** *Meeting Rooms 5 & 6*

Looking for family-friendly climate engagement approaches? Come learn from our Camping 101 and Emergency Preparedness course!

In 2023-2024, Climate Resolve, Listos California, and former LA County Fish & Game Commission and community member Tim Jones put on an inaugural Camping 101 and Emergency Preparedness course in the Baldwin Hills Parklands in South Los Angeles. Tim Jones provided local residents with basic outdoor instruction that included pitching tents and campsite planning. Nadia Wiggins of Listos California, a project of California's Office of Emergency Services, provided insight into what items go in a "Go Bag" in case of emergencies. Climate Resolve presented on park

inequity and the importance of parks as a response to local climate impacts like extreme heat.

In this session, moderated by Climate Resolve, panelists will discuss the course concepts and illustrate how interactive, cross-discipline engagement and education can bring people together and enhance community and climate resilience in the process, followed by Q&A.

To engage participants, we will invite attendees to play “emergency preparedness games” (e.g. bingo or trivia) in small groups and share tips to prepare for climate emergencies. We hope attendees will leave with ideas to cultivate engaging programming in their own communities.

#### Moderator

- **Lia Cohen**, Climate Resolve, Coordinator, Climate Planning and Resilience

#### Speakers

- **Tim Jones**, Climate Resolve, Outdoor Education Consultant
- **Nadia Wiggins**, Listos California, Emergency Preparedness Educator, Catholic Charities of Los Angeles, Inc.

### From Planning to Implementation *Meeting Room 7*

Adaptation is moving from planning into implementation, but with so many pressing needs, it is difficult to determine what projects to prioritize, where to obtain funding, and how to evaluate the results. This symposium will feature a diversity of sectors discussing how they are transitioning to action, and a discussion of how to successfully pursue adaptation funding. The speakers will include:

- Hannah Wagner from the City of Boston will discuss developing and implementing neighborhood coastal resilience solutions plans, including the City’s approach to prioritizing, designing, and constructing district-scale coastal resilience projects.
- Stephanie Johnson will discuss how the Delaware Department of Transportation prepared a Resilience Improvement Plan with a prioritized set of adaptation projects, and how the agency is planning, designing, and constructing resilient transportation projects.
- Con Edison will present on creating their Climate Change Resilience Plan, which includes a set of projects and programs that will be implemented over the next 20 years to increase system resilience, reduce customer outages, and decrease restoration costs.
- Finally, Brenda Dix will present on best practices for pursuing adaptation funding so the audience is empowered to develop adaptation projects of their own. She will also facilitate a conversation about lessons learned when pursuing funding.

#### Speakers

- **Hannah Wagner**, City of Boston, Climate Resilience Project Manager
- **Nelson Yip**, Con Edison, Director (Climate Resilience)
- **Stephanie Johnson**, Delaware Department of Transportation, Director of Transportation Resilience & Sustainability
- **Brenda Dix**, ICF, Director, Climate Resilience

### Addressing Climate Change Inequity through Frontline Community-led Adaptation and Relocation

*Meeting Rooms 8 & 9*

Louisiana is home to some of the highest rates of sea-level rise in the world. United Houma Nation (UHN), Louisiana’s largest Native

American tribe with more than 19,000 members, is at the forefront of this crisis with over 50 percent of its members living in six coastal parishes in southeastern Louisiana, an area prone to disasters in the form of frequent tropical storms and extreme rainfall events which are being exacerbated by climate change.

As a result, the tribe is beginning to implement its five-phase hazard mitigation and cultural resilience plan that aims to minimize damage from hurricanes and sea-level rise while preserving its cultural heritage. The five phases of the plan include 1) fortification of the UHN Resilience Hub; 2) creating Resilience Satellite Hubs; 3) strengthening communications; 4) economic development; and 5) community-led relocation. This plan allows UHN to focus on meeting immediate short-term disaster needs while working on mid-term gains in health, economics, education, and communication, and ultimately in the long-term achieving community-led relocation to reduce the tribe’s exposure to worsening hazards predicted to ultimately inundate its socioeconomically disadvantaged tribal communities.

#### Speakers

- **Lanor Curole**, United Houma Nation, Tribal Administrator
- **Michael Billiot**, United Houma Nation, Urban Planner
- **Allison Haertling**, The Water Institute, Associate Planner / Research Associate
- **Dan Favre**, Greater New Orleans Foundation, Director of Environmental Programs

### When Adaptation Goes Awry: Learning from Midwestern Stories About Unintended Outcomes *Meeting Rooms 10 & 11*

Adaptation efforts often yield unexpected outcomes. Attempting to implement adaptation that benefits both nature and people presents risks—e.g., of inadvertently exacerbating climate vulnerabilities of humans and nonhumans, redistributing damage inequitably, or intensifying climate change—a phenomenon broadly known as maladaptation. Examples of maladaptation and unintended outcomes provide crucial learning opportunities, particularly as bold actions appear increasingly necessary to achieve transformative and innovative adaptation goals amid a rapidly changing climate. Yet, assessments of maladaptation lag behind that of adaptation success within academic and non-academic communities. In this session, participants will explore cross-sector themes and learning opportunities through sharing experiences related to risk-taking and unintended outcomes. This World Cafe session will provide a judgment-free, dynamic, and interactive platform to delve deep into the nuances of maladaptation within four areas: natural resources, built environment, food systems, and equitable community development. Our goal is to equip participants with resources that improve their fluency and understanding of how to safeguard projects from maladaptation—and to learn from those experiences.

#### Speakers

- **Tiffany Sprague**, University of Minnesota Natural Resources Research Institute, Organizational Development Manager
- **Chris Hoving**, Michigan DNR, Wildlife
- **Noelle Harden**, University of Minnesota Extension, Extension Educator



## Faith Leaders as Adaptation Ambassadors for Caring for People and Wildlife in a Changing Climate *Meeting Room 12*

As respected community institutions, faith-based congregations are strong ambassadors to galvanize people to take adaptation actions through the lens of Caring for Creation. We worked with 12+ congregations to employ adaptation strategies under the Sacred Grounds program in Washington D.C. area through a multi-faith/race cohort of Black and Latino churches, synagogues, and mosques in urban/suburban settings. Area local governments are offering financial incentives targeting congregations since stormwater runoff from private lands is significant. With increased and more frequent precipitation in the Mid-Atlantic, getting to scale with residences and congregations is an important adaptation strategy.

Our objectives were to change congregation and congregants' behavior to slow and reduce the flow of stormwater runoff and increase wildlife habitat by changing how they manage their lawns to employ conservation landscaping (replacing cement-like turf grass with permeable native plant gardening) as an adaptation strategy. Congregations conducted inspirational programs, installed native plant gardens, and provided 2000+ native plants for their members to plant at home. We demonstrate how we can go beyond raising awareness to achieve actual behavior change in native plant gardening as a step towards changing landscaping practices. We will share results, lessons-learned, and case studies for engaging these ambassadors.

### Speakers

- **Naomi Edelson**, National Wildlife Federation, Senior Director, Wildlife Partnerships
- **Dr. Mirele Goldsmith**, Marker Goldsmith LLC (independent contractor), Environmental Psychologist & Independent Program Evaluator
- **Leo Woodberry**, New Alpha Community Development Corporation, Executive Director/Reverend
- **Cary James, Jr.**, Jones Memorial United Methodist Church, Reverend
- **Rabbi Fred Scherlinder Dobb**, Adat Shalom Reconstructionist Synagogue & Coalition of the Environment and Jewish Life, Rabbi & Rabbinic Consultant

## Intergenerational Collaboration and Leadership in Climate Adaptation Special Session *Meeting Rooms 13 & 14*

How can intergenerational collaboration build power and cohesion in the climate movement? How are youth and older adults relating to, communicating about, and leading on climate change adaptation?

For years, young people have led the world in climate activism, yet many young people struggle to be taken seriously and find their place in adaptation policy and practice. At the same time, older adults and elders are often only referenced because of their vulnerability to climate impacts, when in fact they have valuable experience, memories, and connections to contribute. What unique challenges do youth and older adults face in the adaptation field, and what new insights could intergenerational collaboration uncover? This session will explore these questions and more during three engaging presentations. Attendees should come ready to interact and reflect with other participants.

Improving flood predictions through co-developed research, community engagement, & curricula: An interactive discussion on

"K through gray" intergenerational collaboration strategies. Attendees will discuss strategies for partnering with municipal leaders, community organizations and educators to build local capacity for climate action.

From the Margins to the Center: Centering Youth Engagement in Planning Processes: Participants are invited to join the Mycelium Youth Network in a guided discussion on engaging youth voices in climate planning and workshop your own projects/programs as it relates to youth engagement.

Supporting youth-led adaptation projects – a new framework: An introduction to "educational boundary organizations" and their role in enabling young people to participate in and even lead community-based adaptation projects.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

### Speakers

- **Gayle Bowness**, Gulf of Maine Research Institute, Program Manager, Municipal Climate Action Program Manager
- **Andrew Yeung**, Mycelium Youth Network, Educational Director
- **Noah Weeth Feinstein**, University of Wisconsin-Madison, Professor

### Session Organizers

- **Dena Coffman**, University of Minnesota Climate Adaptation Partnership, GIS Specialist
- **Balakrishnan Balachandran**, Sustainable Solutions Lab, University of Massachusetts Boston, Executive Director
- **Cami Ramey**, Stantec, Community Resilience Specialist

## Thriving Together: How State Level Themes, Frameworks and Guidance Can Support Local Resilience

### *Meeting Room 15*

State level planning and organization can be critical in supporting local efforts to enhance resilience. State departments provide a variety of services to local governments and residents. Historically these departments were set up to solve or address specific issues such as building and maintaining roadways, monitoring and addressing public health threats, or protecting environmental resources. They have different histories, cultures, traditions, and levels of capacity and resources. The services these agencies provide are challenged both directly and indirectly by climate change and there is no easy or singular solution to responding to these challenges.

This interactive panel discussion is designed to dig into the challenges, opportunities, and approaches States are taking to: develop resilience plans, identify resilience themes, create resources, streamline assessment and planning process, align mandates with climate challenges, and re-organize climate and non-climate programs to more effectively support local communities. Join the discussion to hear candid insights and reflections from State leaders in Colorado, Maine, Massachusetts, and New Mexico. The moderated panel (with small group and participant discussion) will explore what's working (and not working) as States work to lead by example and holistically and equitably support local communities to build a future where all residents can thrive.

### Speakers

- **Sascha Petersen**, Adaptation International, Director
- **Marguerite Harden**, State Colorado Resiliency Office, Local Resiliency Program Manager
- **Robert Gomez**, Climate Policy Bureau - State of New Mexico, Resilience Coordinator
- **Brian Ambrette**, Maine Governor's Office of Policy Innovation and the Future, Senior Climate Resilience Coordinator
- **Mia Mansfield**, Massachusetts Executive Office of Energy & Environmental Affairs, Assistant Secretary for Resilience

### Art as Witness, Art as Transformation Special Session

#### Grand Ballroom D

In the face of our climate crisis, it is critical that those of us who work in this field effectively cultivate, communicate, and embody a clear vision for what a more just, equitable, and transformative future for all could look like. Art can serve as a powerful witness to social, environmental, and climate injustices. It can be a powerful vehicle for resilience, hope, and transformation - by moving from the head to the heart, it can weave a vision that ties us together. During NAF 2022, our panel discussion with local Baltimore artists Nadia Nazar and Amir Khadar highlighted that artists should be collaborators in building community ownership to climate adaptation and resilience solutions. Art as Witness, Art as Transformation will feature and amplify the work of those who weave stories around climate adaptation through art in all of its forms. It will integrate research and tools on art as a vehicle for transformative change to support our work in this field moving forward. Join Art as Witness, Art as Transformation to unlock critical thinking, learn (and unlearn!), and dialogue together as we imagine a more just, equitable, and transformative future.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

### Speakers

- **Tamara Aupaumut**, Artist and Independent Curator
- **Allyza Lustig**, US Global Change Research Program / ICF, Senior Manager, National Climate Assessment
- **Trevor Lee Even**, Colorado State University - CEMML / Adaptation International, Climate Risk Analyst
- **Juliano Calil**, Virtual Planet | Middlebury Institute of International Studies at Monterey, CA, Founder and Chief Scientist | Senior Fellow
- **Jen Dev**, Public Health — Seattle & King County, Communications Specialist
- **Benjamin Slyngstad**, USGS Climate Adaptation Science Centers, ORISE Visual Science Communications Fellow
- **Tamera Breidenbach**, Colorado State University, Graduate Candidate

### Session Organizers

- **Alex Basaraba**, Cadmus Group, Climate Associate
- **Vidya Balasubramanyam**, Coastal States Organization, Program Director
- **Lisa Churchill**, Climate Advisory, Principal

**2:50 pm - 3:10 pm Break and Snack**

**3:10 pm - 4:40 pm Session Block #3**

### For Us By Us: Climate Solutions Designed with Us In Mind

#### Meeting Rooms 1 & 2

The impacts of climate change will impact people of all ages, and so to achieve climate justice, we must intentionally center all ages. When we focus on intergenerational advocacy, outreach, and solutions, our communities get one step closer to a more just and equitable world. In this cross-generational moderated panel session, we focus on existing programs that successfully incorporate youth. Our panelists will speak about their work, what an intergenerational approach means to them, and how these approaches have informed their vision of a more just world. Following words of wisdom from our panelists, audience members will have time to ask them additional questions. Participants of this session will walk away with ideas of how to incorporate intergenerational components into their work as well as an understanding that a future built by youth is a future for everyone.

### Speakers

- **Kendra Norrell**, Institute for Sustainable Communities, Senior Program Officer
- **Tanner Yess**, Groundwork Ohio River Valley, Executive Director
- **Candice Elder**, The East Oakland Collective, Founder and Executive Director
- **Jerome Shabazz**, Overbrook Environmental Education Center JASTECH Development Services, Inc, Executive Director
- **Imani Cenac**, Nos Quedamos, Resiliency Organizer

### Venice, Hawaii, Samoa and Azores: Climate, Crises, Islands and Adaptation

#### Meeting Room 4

A panel bringing island, indigenous perspectives on planning, development, design and data for facilitating knowledge exchange, engagement, and deliberation on cultural and technical understanding of climate change, physical and social variables and processes for learning and adaptation. The group bring academic and professional practitioners engaged in research, training, and community planning in a mix of urban, rural Pacific, Atlantic island communities with focus on equity and serving the needs of underserved, disproportionately impacted communities. In addition to cases and examples of both conventional climate/hazard mitigation, the team will also address novel practices for integration of diverse data from sensors, social media, and wisdom from elders, cultural practitioners, and other stakeholders working to build and sustain safe, just, resilient communities. In addition to traditional cultural practices, an emphasis on nature-based solutions and deep connections to training, education, capacity-building and learning across sectors is central to the evolution and betterment of adaptation theory and practice.

### Speakers

- **Karl Kim**, National Disaster Preparedness Training Center, University of Hawaii, Professor and Executive Director
- **Konia Freitas**, University of Hawai'i at Mānoa, Associate Specialist
- **Eric Yamashita**, National Disaster Preparedness Training Center, Associate Director of Technology and Innovation
- **Lydia Morikawa**, National Disaster Preparedness Training Center, Associate Director for Development and Delivery
- **Nicole Boothman-Shepard**, AECOM, Vice President and Senior Director, Resilience and Recovery
- **Paola Rizzi**, University of Sassari, Professor

## Tackling the disproportionate and combined effects of climate and contamination on Indigenous lands through adaptation *Meeting Rooms 5 & 6*

This session will begin with a set of visual and word association exercises to spur group discussion: Do you have contaminant issues on your Tribal lands? Concerns about climate change and your Tribal Nation's lands, waters, fish, wildlife, plants? Do you think climate change may make contaminant impacts worse, or vice versa? We will then tell the story of three Indigenous groups and their experiences with the combined and disproportionate effects of climate and contamination. After decades of contamination, and cleanup finally underway, Blue Creek is now threatened by climate impacts. We will share how the Spokane Tribe of Indians is implementing creative adaptation measures to sustain this sacred creek. The Pueblo de San Ildefonso faces the combined effects of climate (drought, wildfire, extreme events) and contamination released from Los Alamos National Laboratory. We will share the successes and hurdles the Pueblo faces in implementing adaptation actions. At the Tar Creek Superfund Site, the health and wellbeing of Tribal Nations have been disproportionately affected by lead and other heavy metals; the Tribes are now developing a plan to build resiliency into their communities now facing the added threats of climate change. We will learn about their journey down this path.

### Speakers

- Heather Hosterman, Abt Global, Senior Associate
- Raymond Martinez, Pueblo de San Ildefonso, Director, Department of Cultural and Environmental Preservation
- Tabitha Langston, Ottawa Tribe of Oklahoma, Deputy Environmental Director
- Brian Crossley, Spokane Tribe of Indians, Water and Fish Program Manager

## The Insurance Transition: Advancing financial protection for low-income households in the near- and mid-term

### *Meeting Room 7*

Building household level financial resilience to disaster events is critical as vulnerable communities face increasing climate risks. If households cannot access financial resources, their recovery will be much slower and they will sustain further hardships. Additionally, because insurance is a requirement to obtain a mortgage, the increasing costs of insurance threaten wide swaths of the residential real estate market, jeopardizing the equity and wealth of millions of homeowners. Despite being an important form of financial protection, traditional disaster insurance coverage is often inaccessible for the most vulnerable households. Cross-sector collaboration is critical for enabling new financial instruments to better meet household and community level needs as they deal with increasing disaster risks, insurance affordability challenges, and low literacy around the importance of insurance. Further, while new models of insurance coverage like community-based insurance are promising, the current ecosystem of insurance coverage, affordability, and availability needs immediate, short-term adjustments to bridge the gap to new models. This session will begin with a moderated panel that introduces lessons learned from recent insurance pilots and programs being tried out in communities across the US, including microinsurance and community-based insurance models. It will also discuss pilots and programs to bridge to more innovative projects such as an effort to connect flood risk reduction

measures to flood insurance prices. After the moderated panel the last half hour of the session will be a reverse panel Q&A where the panel will ask questions of the audience to help build awareness and understanding of needs around pilots. The session will end with a dedicated networking session.

### Speakers

- Renee Collini, The Water Institute, Director, Gulf Center for Equitable Climate Resilience
- Helen Wiley, SBP, Disaster Preparedness Program Director
- Allison DeJong, The Water Institute, Planner and Policy Researcher

## Addressing Heat at the State and Regional Level

### *Meeting Rooms 8 & 9*

As the impacts of climate change intensify, state and regional decision-makers are increasingly planning to address local impacts from both extreme heat events as well as changes in seasonality and local weather patterns. Structured as a dynamic discussion among state and regional climate leaders, this session will begin with a lighting round of presentations followed by a "moderated fishbowl" delving into the critical importance of strategies for mitigating and adapting to heat-related challenges in New Jersey, New York, North Carolina, and the Pacific Northwest. Speakers have agreed to allow ample time for question, answer, and discussion with the audience. Participants will gain insights into innovative policies, community-based initiatives, and cross-sector collaborations aimed at combating extreme heat. This session will offer insights for policymakers, practitioners, researchers, and the wider community of practice of climate change adaptation actors seeking effective approaches to tackle heat-related issues in their respective geographies.

### Speakers

- Amanda Martin, State of North Carolina, Office of Recovery and Resiliency, Chief Resilience Officer
- Nathaly Agosto Filión, New Jersey Department of Environmental Protection, Office of Climate Resilience, Deputy Chief Climate Resilience Officer
- Leo Bachinger, New York State Department of Environmental Conservation, Office of Climate Change, Program Manager: Climate Impacts on Vulnerable Communities / Co-Lead: State Extreme Heat Action Planning & Implementation
- Kristen Vacca, Center for Environmental Health, New York State Department of Health, Health Program Coordinator

### Moderator/Speaker

- Resham Patel, University of Washington School of Public Health, Assistant Teaching Professor

## Urban Climate Adaptation for the Birds, the Bees, and the Trees *Meeting Rooms 10 & 11*

More than 80% of people in the US live in urban areas. But urban and suburban ecosystems are not only home for people; they also harbor a wide diversity of plants, animals, and other natural and cultural resources. These resources, along with the people that use and benefit from them, face interacting and compounding stressors of climate change and the built environment, such as exacerbated flooding and heat island effects. These impacts make urban areas particularly vulnerable to climate change and in high need for climate adaptation research and investment. However, climate adaptation for urban flora, fauna, and the habitats they rely on is understudied relative to climate adaptation for humans and the built



environment and is rarely accounted for in urban climate adaptation planning, despite numerous co-benefits to human populations. In this session, audience participants will learn about examples of collaborative work happening across various organizations that considers climate adaptation for urban waterways, biodiversity, and more. Presenters and audience members will engage in discussion on climate adaptation strategies and partnerships for urban natural and cultural resources to better understand the complexity of tackling this gap in urban climate adaptation research and practice.

#### Speakers

- **Mia Wavrek**, USGS National Climate Adaptation Science Center, ORISE USGS Research Participant
- **Joanna Eckles**, American Bird Conservancy, Bird City Network Coordinator
- **Maddy Baroli**, NIACS, Climate Hubs, Michigan Tech Univ., Climate Adaptation Specialist
- **Gabriel Filippelli**, Indiana University, Executive Director, Environmental Resilience Institute

#### Session Moderator

- **Alessandra Jerolleman**, US Geological Survey, National Climate Justice Lead

### Engaging with Uncertainty: A framework for decision making and a case study in the Colorado River Basin

*Meeting Rooms 13 & 14*

Undertaking long-term water resources planning efforts in the face of uncertainty about the impacts of climate change is a growing global challenge. In the Colorado River Basin, the U.S. Bureau of Reclamation is currently leading a formal decision-making process to replace Lake Powell and Lake Mead operating agreements, which expire at the end of 2026. Enabling a wide range of stakeholders to engage with technical information is key to identifying successor guidelines that are robust to the effects of climate change while balancing diverse resource priorities. Reclamation has partnered with the University of Colorado Boulder and Virga Labs to support these objectives and create a web-based platform where stakeholders can explore different operational strategies through a decision-making under deep uncertainty lens. Come learn how decision science research, stakeholder engagement, and long-term planning efforts have been combined in a first-of-its-kind integration of big data, interactive tools, and deep engagement. This interactive workshop will provide high-level background on the Colorado River and decision-making under deep uncertainty, while allowing participants to engage with the framework and web-based Tool to assess whether the framework could be applied to other decision-making spaces.

#### Speakers

- **Season Martin**, Virga Labs, CEO
- **Lydia Bleifuss**, Virga Labs, Data Visualization Developer

### Frameworks for Adaptation Planning and Implementation

*Meeting Room 15*

Adaptation planning and implementation frameworks can be powerful tools to help communities better organize, understand, and integrate resilience-based knowledge toward equitable and effective strategies for resilient natural resources and communities. Common steps needed to support resilient systems include: the use

of vulnerability assessments to understand the effects of changing environmental conditions, including disproportionate effects on underserved communities; analysis of how management actions can be adapted to account for those effects; structured decision-making to select the best and most equitable actions for implementation; and methods for measuring and evaluating effectiveness. While great strides continue within each of these areas, it can still be challenging to smoothly integrate and translate information across areas, especially at varying spatial, temporal, and decision-making scales. Through presentations and audience feedback, this session will explore a variety of methods, approaches, and tools—for use at regional-to-local levels, in various sectors and systems—to improve and accelerate planning-to-action for climate change adaptation.

#### Speakers

- **Jordan West**, U.S. Environmental Protection Agency, Senior Ecologist
- **Raven Nee**, Fellow, EPA
- **Heather Joseph**, CDC, Health Scientist
- **Sema Aytur**, College of Health and Human Services, University of New Hampshire, Professor
- **Levi Stewart-Figueroa**, Broward MPO, Resiliency Coordinator
- **Kaiwen Shi**, Resilient Cities Catalyst

### Climate Literacy Toolbox: How to use the Fifth National Climate Assessment and related climate tools

*Grand Ballroom D*

The Fifth National Climate Assessment (NCA5), the preeminent source of climate information for the United States, was recently released into a rapidly evolving landscape of federal climate adaptation information, tools, and services. How can practitioners, decision-makers, and educators leverage these resources to understand the latest relevant climate science and make science-informed decisions? In this session, the US Global Change Program, NCA5 authors, and federal partners invite you to join us in a two-part session on building your own climate literacy and adaptation toolbox. We will begin with a briefing on key adaptation findings in NCA5. Then we will host an “open house” with several stations providing participants the opportunity to demo tools such as the NCA5 Interactive Atlas, and to connect with assessment authors and developers to envision how NCA5 can be used in adaptation planning across various sectors—and how future NCAs can be designed with your needs in mind.

#### Speakers

- **Haley Crim**, U.S. National Oceanic and Atmospheric Administration, Climate Engagement and Capacity-building Coordinator
- **Aaron Grade**, US Global Change Research Program / ICF, National Climate Assessment Staff Scientist
- **Allyza Lustig**, US Global Change Research Program / ICF, Senior Manager, National Climate Assessment
- **Katerina Gonzales**, U.S. Environmental Protection Agency, Climate Adaptation Advisor
- **Izzy Fuller**, US Global Change Research Program, National Climate Assessment Staff Specialist
- **Jenna Hartley**, U.S. Environmental Protection Agency, Research Outreach and Communications Specialist

**4:40 pm - 5:00 pm Break and Snack**

**5:00 pm - 6:30 pm Session Block #4**

## Climate, Trauma, and Healing Special Session

*Meeting Rooms 1 & 2*

With the frequency and intensity of climate extremes increasing the devastating costs on ecological and human communities, psychological trauma is also bound to increase. As is so often the case, these physical and psychospiritual impacts from disasters and climate-related losses affect the most vulnerable first and worst, leaving them with diminishing resources to recover – economically and emotionally. Additionally, these events typically intersect with systemic racism, forced displacement, colonial oppression, and generational poverty – forms of chronic trauma – which make climate-related trauma just one more in the long history of dehumanizing disregard for marginalized and underserved communities. In this session, we will hear different responses to this growing challenge: approaches to providing safe spaces for dialogue and healing as well as skill-building to address the psycho-spiritual impacts of climate disruption. Session attendees will experience a mix of brief panel contributions from four panelists, each offering a particular perspective and approach to dealing with climate, trauma, and healing. The panel will be followed by facilitated interactive discussions in smaller groups to explore these approaches more deeply. The session will conclude with a whole-group conversation about the implications for adaptation professionals.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

### Speaker

- **Susanne Moser**, Susanne Moser Research Consulting, President
- **Jessica Brunacini**, Maine Sea Grant and Casco Bay Estuary Partnership, Coastal Resilience Specialist

### Session Organizers

- **Marcella Bondie Keenan**
- **Nicole Policicchio**

## CommuniTee-ing up action: Optimizing and scaling community adaptation training and social justice for effective implementation *Meeting Room 4*

What moves community climate adaptation from ideas to effective actions? This session will dive into the theory and practice of what empowers communities to implement meaningful climate change adaptations. We will review findings from four years of research in partnership with eight communities across the U.S. focused on developing effective place-based adaptation workshops that advance equitable adaptation solutions. In the session, we will engage participants through four presentations and an interactive discussion to:

- Analyze the efficacy of methods employed in place-based climate adaptation workshops for generating learning and collective action;

- Consider whether local government efforts to integrate social justice with climate adaptation through the three-pronged framework of recognitional, distributional, and procedural justice;
- Assess the successes and challenges of implementing adaptation actions identified in place-based climate adaptation workshops; and
- Explore how we scale up community adaptation training to meet the pressing need for more of this work to be successfully implemented.

As municipalities prepare for climate change, our findings in partnership with multiple communities suggest several considerations for advancing social justice and outline a potential framework for implementing effective adaptation workshops and offer insights for incorporating complex science into successful collective initiatives resulting in co-produced plans and actions.

### Speakers

- **Marc Stern**, Virginia Tech, Faculty
- **Caleb O'Brien**, Virginia Tech, Faculty
- **Lara Hansen**, EcoAdapt, Chief Scientist and Executive Director
- **Jennifer Brousseau**, Virginia Tech, researcher

## Expanding Access to Federal Support Tools for Local Climate Adaptation and Resilience Initiatives

*Meeting Rooms 5 & 6*

The landscape of federal support for community-led adaptation actions is expansive and often difficult for end users to navigate, given each agency's unique missions, data, tools, funding opportunities, and focal areas.

Local planners and adaptation practitioners say they often can't find what they're seeking or have trouble selecting from similar tools, which can lack clear guidance about their intended use. Furthermore, sub-national decision makers would benefit from improved access and usability of federal tools, particularly when it comes to using multiple sources of data.

This session aims to focus on the end user experience for a selection of federal tools intended to support local climate adaptation and resilience initiatives. Presented jointly by EPA, NASA, NOAA, USDA, and Esri, this session is for practitioners, designers, analysts/researchers, and data consumers. We'll overview the big picture, then dive into resources we have coming online or currently available for different user "personas," with time for questions, discussion, and feedback from participants.

### Speakers

- **Sydney Neugebauer**, NASA Capacity Building Program, Coordination & Analysis Lead
- **Michelle Hawkins**, NASA Earth Action, Climate Resilience and Community Action Program Manager
- **David Herring**, NOAA, Climate Program Office Communication Division Chief
- **Dan Pisut**, Esri, Sr. Principal Engineer, Climate Resilience Lead
- **Pat Cummens**, Esri, Director of Government Strategy and Policy Solutions
- **Genna Patton**, EPA, Policy Advisor
- **Stephanie Santell**, US EPA, Senior Climate Advisor
- **Julian Reyes**, US Global Change Research Program, Deputy Director for Services

## Building Food Resilience to Climate Change and Disasters: Lessons Learned from Local Governments and Researchers *Meeting Room 7*

Food systems face acute and chronic threats caused by social, natural, and political crises. Natural and human-made disasters have already disrupted food systems across supply chains, on farms, and at the dinner table. Local governments play a key role in preparing, responding to, and recovering from the food system impacts of disruptive events. Municipalities that have developed food system resilience plans have demonstrated that there are many actions that local governments can take to build food system resilience. This symposium will focus on food system resilience, and why it is critical that jurisdictions prepare food systems for the impacts of climate change and other disruptions. Moderated by Meg Burke, Researcher at the Bloomberg Center for Government Excellence at Johns Hopkins University, the facilitated discussion with three jurisdictions (Austin, Texas; Baltimore, Maryland; Orlando, Florida) will cover (1) food system resilience assessment tools and approaches, (2) centering equity and justice in this work (3) overcoming challenges and barriers to implementing this work (4) future directions and needs. The tools, strategies, and topics discussed in this symposium will provide participants with new insights into food system resilience planning, and actionable resources that can be incorporated into their own work.

### Speakers

- **Meg Burke**, Johns Hopkins University, Community Manager
- **Marc Coudert**, City of Austin, Climate Resilience & Adaptation Manager
- **Noelle Harden**, University of Minnesota Extension, Extension Educator
- **Daniel Friedline**, City of Orlando, FL, Sustainability Manager

## A Shoreline Expedition: Planning and Action in Coastal Adaptation *Meeting Rooms 8 & 9*

Along the coasts, communities are making flood adaptation decisions today that will impact generations over the coming century. Should they retreat? Fortify shorelines? Accommodate floodwater?

Embark on a "field trip" with us, weaving insights from efforts across the planning-to-implementation spectrum. Participants will learn about 1) Miami Beach pioneering individual adaptation through the Fight the Flood Private Property Adaptation program, which offers a blueprint for flexible strategies and grant-funded flood resilience, 2) the District of Columbia's Resilience Focus Areas Strategy, including neighborhood-based efforts intertwining blue-green infrastructure for historically overburdened communities, 3) major metropolitan cities – including San Francisco and Miami – engaged in innovative adaptation "mega studies" in partnership with the federal government, and 4) Washington State's work to develop sea level rise planning requirements for local governments under new climate resilience and environmental justice legislation and support implementation.

This session includes an opportunity for small group discussion with leaders of each of these efforts, including cross-cutting themes of equity in adaptation; compound flooding from the coastal waters, rainfall, and rivers; and funding and implementation pathways.

### Speakers

- **Juanita Ballesteros**, City of Miami Beach, Sustainability and Resilience Manager
- **Charlotte Dohrn**, Washington Department of Ecology, Climate Resilience Planner
- **Benita Lily Cheng**, DC Department of Energy and Environment, Flood Resilience Planner
- **Maryellen Hearn**, Pathways Climate Institute, Resilience and Senior Flood Risk Specialist

## Resilience Accelerator for Local Governments Training *Meeting Rooms 10 & 11*

The Resilience Accelerator builds the capacity of communities to respond to increasing risks. It uses proven strategies to help communities identify, prioritize and ultimately achieve their resilience goals. It convenes community leaders with FEMA staff, state agency decision makers, local resilience professionals, private sector partners, and other experts. The main goals for communities are to understand climate change realities and vulnerabilities relevant to the local area, refine and communicate their resilience goals to the public and funders, develop strategies and critical projects, find paths for funding, build and maintain partnerships, and integrate resilience into daily operations. In this training, the facilitators of the Resilience Accelerator will walk participants through a mock workshop using worksheets and materials from the Resilience Accelerator. These modules and materials will include helping participants work on storytelling about their resilience goals, listening to participants about the climate risks in their community, learning how to identify champions and form resilience teams, developing action plans, and figuring out where to find multiple funding streams for planning and projects. Participants will gain an understanding of how to conduct this training with other communities and help them work through their resilience goals from any starting point.

### Speakers

- **Sarah Lipuma**, FEMA Region 2, Resilience Coordinator
- **Shannon McLachlan**, FEMA Region 2, Community Assistance Regional Coordinator
- **Dana Kochnower**, Resilience Action Partners, Community Engagement & Risk Communication
- **Meghan Wren**, FEMA R2 Resilience Branch, Planning Lead (A)

## Nature as Critical Climate Infrastructure: Funding and Governance Strategies to Catalyze Large-Scale Action *Meeting Room 15*

### *Meeting Room 15*

California has committed to ambitious goals to achieve carbon neutrality and climate resilience. To reach the state's target, there is a need for equally ambitious actions. Nature-based solutions (NBS) are a critical approach that California must use to reach these goals. NBS can reduce carbon dioxide, protect communities from climate risks, and provide air, water, and biodiversity benefits; however, they require considerable financial investment. While funds for NBS-related projects are available, aggregating and delivering the amount of dollars required to achieve impact is a major challenge.



To overcome this challenge, it is necessary to design governance structures that can efficiently and equitably aggregate, manage, and distribute diverse sources of funds. This panel will present perspectives from a recent project to identify a governance model that could aggregate funding and distribute dollars at the county and landscape level—in addition to coordinating projects and measuring progress toward common goals. Panelists—including representatives from the California Department of Conservation, the Southern Sierra Miwuk Nation, the North Coast Resource Partnership, and ERG—will share findings from this work, including ongoing challenges regarding NBS funding and governance, and how other geographies could adapt this model to achieve climate adaptation goals at the necessary scale.

#### Speakers

- Diana Pietri, ERG, Senior Social Scientist
- Lindy Lowe, ERG, Blue Earth Team, Director of Climate and Hazard Resilience
- Anna Yip, Blue Forest, Project Development Manager
- Alyssa Mann, The Nature Conservancy, Climate Resilience Project Director
- Simone Albuquerque, County of Sonoma, Climate Resiliency Analyst

#### Tribal Governments and Indigenous Communities - Active Partners in Climate Adaptation *Grand Ballroom D*

Tribal and Indigenous communities (Tribes) are uniquely and disproportionately impacted by climate change (NCA4). Successful adaptation incorporates Tribal perspectives. This session will increase Tribal inclusion in climate adaptation as equitable and active partners and highlight approaches for impactful collaboration. Specifically, the session will connect Tribes with other climate professionals in exploring the climate crises through the Tribal lens, including:

- Relocation—severely impacted communities are relocating crucial infrastructure away from imminent threats. How can we work together to build resilient communities? How do these efforts inform future relocation and climate resilience efforts?
- Indigenous Knowledge - traditional knowledge systems can play a role in advancing understanding of climate change and in developing more comprehensive climate adaptation strategies. How can the 2022 Guidance on Indigenous Knowledge in Federal Decision Making inform collaborative engagements with Tribes?
- Barriers – economic, social, and legal barriers inhibit climate adaptation efforts within Tribal communities (NCA4). These barriers are abundant in policies, programs, and funding mechanisms throughout multiple government and non-government entities. How do we work together to proactively eliminate barriers?

The anticipated outcome of this session is increased partnerships between Tribes and other climate professionals.

#### Speakers

- Steve Shier, 1854 Treaty Authority, Climate Specialist
- Tabitha Langston, Ottawa Tribe of Oklahoma, Deputy Environmental Director
- Lanor Curole, United Houma Nation, Tribal Administrator
- Brad Barrett, White House Council on Native American Affairs (WHCNA), Interagency Coordinator
- Crystal Bergemann, White House Council on Environmental Quality, Senior Director for Resilience
- Ira Matt, Office of Native American Affairs/White House Office of Science and Technology, Policy Asst. Director for Indigenous Engagement and Native American Affairs
- Lisa Berrios, EPA, Sr. Advisor, Tribal Capacity Development
- Kelsey Evans, Environmental Protection Agency, Environmental Protection Specialist
- Coral Avery, Bureau of Indian Affairs, Natural Resource Specialist
- Elisabeth VandenBussche, Department of Energy, Policy Analyst



## 6:30 pm - 8:30 pm: Margaret A. Davidson Networking Reception and Poster Session



Networking is the added value of any in-person meeting and few people knew how to network better than Margaret A. Davidson. Not only was Margaret a leader in the field of adaptation, but also a consummate networker. In 2017, when we heard Margaret would be unable to attend the Forum, we wanted to make sure she was here in spirit, so we named the Tuesday Night Networking Reception in her honor — The Margaret A. Davidson Networking Reception. We continue to cherish her leadership, friendship, and vision, and encourage every Forum participant to honor her memory by moving climate adaptation forward.

This honor for Margaret is even more fitting as she is one of the founders of the Forum. She joined the first planning call to create the Forum, signed on to the Steering Committee and helped guide the process forward, helping to make the event what it is today. Thank you, Margaret. Tuesday night we will network in your honor and hopefully live up to your example.

## Poster Session

1. **Exploring Decision-Making in Managed Retreat: Insights from Communities Taking Decisive Action**, Devon McKaye, Arcadis
2. **Lived and Learned Experience: Building Better Buyouts Across the Country**, Anna Weber, Natural Resources Defense Council
3. **Solutions for Equitable, Community-Engaged, and Culturally Appropriate Climate Relocation**, Kelsea Best, The Ohio State University
4. **Wisconsin and Climate Migration: Approaches and Solutions**, Anna Haines, University of Wisconsin - Stevens Point
5. **Accelerating Climate Resilience: From Planning to Implementation**, Francis Morillo Suarez, Metropolitan Area Planning Council
6. **Addressing Barriers to Federal Funding for Environmental Justice: Thriving Communities Technical Assistance Centers National Approach**, Craig Freeland, Institute for Sustainable Communities
7. **Bay Area Resilience Hotspots: A model in CBO partnership to leverage resources for impact**, Sadie Wilson, Greenbelt Alliance
8. **Equity in Resilience: Lessons Learned on Closing the Gap between Intention and Reality**, Abigail Littman, The Water Institute
9. **Justice preferences in urban climate adaptation flood policy**, Melissa Tier, Princeton University, School of Public & International Affairs
10. **Creating Space for Equity Work - Charleston's Water Plan**, Cynthia Rolli, Black & Veatch
11. **The GEAR Tool: Guides for Equitable and Actionable Resilience**, Catarina Martinez, Attendee, Resilience Planner
12. **Small Steps to Big Leaps: The Story of Richmond's Resiliency Journey**, Jacqueline Protsman Rohr, PlaceWorks
13. **It's too dang hot and we're all going to die!**, Ashley Hawes, Austin Public Health
14. **Using human health outcomes to forecast and respond to extreme heat**, Elizabeth Berg, University of Wisconsin-Madison
15. **Workforce Development for Climate Adaptation and Community Resilience**, Michael McCormick, Farallon Strategies
16. **Supporting Tribal Climate Preparedness and Resilience**, Coral Avery, BIA Branch of Tribal Climate Resilience and Zachary Jorgenson, BIA Branch of Tribal Climate Resilience
17. **The Tree-mendous Power of Planting**, Auste Eigirdas, The Nature Conservancy
18. **Love in Action: Building Resilience from the Ground Up**, Emily Skeehan, Episcopal Diocese of Rhode Island and Pam Mason, VIMS, Center for Coastal Resources Management
19. **Integrating Climate Education and Empowerment into Adaptation Strategies**, Maxwell Odonkor, World Inspiring Network
20. **Advancing Climate Resilience Through Scenario Planning**, Kimberly Channell, GLISA
21. **Community Pre-Disaster Recovery Planning on the Island of Kaua'i**, Hawai'i, Ruby Pap, Hawai'i Sea Grant
22. **Environmental Collaboration and Conflict Resolution for Climate Challenges**, Rachel Hammelman, Morris K. Udall and Stewart L. Udall Foundation's John McCain III National Center for Environmental Conflict Resolution
23. **Extreme Heat Findings: Behaviors of People and Practitioners as a Key to Inform Future Action**, T. Jonathan Lee, Climate Resilience Consulting
24. **Incorporating Participatory Research and Data to Develop Equitable Adaptation Solutions**, Allison Haertling, The Water Institute and Utkuhan Genc, Purdue University
25. **Fostering Mission Assurance and Community Resilience through Regional Collaboration**, Alec Rodriguez, Jacobs
26. **The Planet Keeps the Score: Climate Change Adaptation as a Catalyst for Community Transformation**, Kelly Garvy, Lighthouse Environment Partners
27. **Accelerating Climate Action: Assessing the Needs of the Adaptation Field and Delivering Effective Technical Assistance**, Becky Lunde, NOAA Office for Coastal Management
28. **Assessing Distributional Equity of Maine's Community Resilience Partnership Program**, Brian Ambrette, Maine Governor's Office of Policy Innovation and the Future
29. **Building Capacity for Community-Driven Climate Planning**, Gayle Bowness, Gulf of Maine Research Institute
30. **Climate Resilience is Adapting: Effectively Learning with the Steps to Resilience**, Alexis Mitchell, National Environmental Modeling and Analysis Center (NEMAC)





31. **Climate Change Vulnerability Assessment of Unhoused Populations: A Proposed Index Methodology**, Harris Eisenhardt, Johns Hopkins University
32. **Meeting Them Where They Are: How Navigators are Helping 72 Communities Build Community-Driven Climate Resilience**, Tonya Graham, Geos Institute
33. **Climate Improvement Districts**, Lauren Wang, Governor's Island and Galen Treuer, Miami-Dade County Office of Innovation and Economic Development
34. **Private sector as a force for collaboration and change in creating a more resilient future**, Katie Wholey, Arup
35. **Universities' role in implementation: Virginia's Resilient and Adaptable Communities Partnership**, Jessica Whitehead, Old Dominion University
36. **Learn About the Climate Smart Communities Initiative**, Laura Hilberg, EcoAdapt and Liz Tully, Climate Resilience Fund
37. **The Role of New Mexico Public Lands in Addressing Climate Change Adaptation & Mitigation**, Laura Hilberg, EcoAdapt
38. **3M Cool Surface Technologies for Mitigating Urban Heat Problem**, Timothy Hebrink, 3M Company
39. **Climate Adaptation at Hazardous Waste Sites: Supporting Better Environmental Outcomes**, Eric Mielbrecht, EcoAdapt
40. **Climate-resilient remediation: what it means for clean-up remedies, communities, and regulators**, Daniele Spirandelli, Haley and Aldrich
41. **Manoomin Characterization Study and Climate Impacts in the Lake Superior Region**, Heather Hosterman, Abt Associates
42. **Rising Tides, Drowning Ditches: Analysis and Communication of Chronic Coastal Flooding in Rural Communities**, Ryan McCune, North Carolina State University
43. **Understanding Stormwater Flood Risk in New Orleans**, Allison DeJong, The Water Institute
44. **The future of US climate services**, Julie Vano, Aspen Global Change Institute
45. **Climate change impacts in North East Wisconsin**, Abdullahi Bihi, Sea Grant Wisconsin
46. **Navigating the River of Change in Western Headwaters: Exploring Perceptions of Social-Ecological Dynamics and Thresholds in Wyoming's Agricultural Landscape**, Callie Surber, Haub School of Environment and Natural Resources
47. **Scaling Up Innovative Coastal Approaches to Achieve Landscape-scale Outcomes: Challenges and Considerations**, James Duffy, National Wildlife Federation
48. **Climate Change Assessment for Global DoD Installation Natural Resource Management**, Trevor Lee Even, Colorado State University - CEMML / Adaptation International
49. **Implementing Climate Change Adaptation across Canada's Natural Resource Sectors: Highlights, lessons learned, and ongoing challenges**, Kate Edwards, Natural Resources Canada
50. **The Boyd Living Shoreline: Creating a Largescale Project with Community Input to Enhance Coastal Resilience**, Nicole Pehl, The Nature Conservancy South Carolina
51. **Climate, greenspace, and community health: A discussion of decision-relevant knowledge and priorities**, Nicole Olson, US Environmental Protection Agency
52. **Evidence map of health effects of urban nature-based solutions in communities vulnerable to climate change**, Rebecca Panko, US Environmental Protection Agency
53. **Scaling Up Nature-Based Solutions Using Community-Based Partnerships: A Case Study of the Greater Milwaukee Area**, Sarah Dobie, Corvias Infrastructure Solutions, LLC
54. **Developing nature-based solutions for climate resilience: Leading with community, equity, and inclusion**, Nancy Turyk, National Park Service Rivers, Trails, and Conservation Assistance Program
55. **CHEERS! Multi-Phase Resiliency Planning Lessons from the Great Lakes**, Joe Wagner, Black & Veatch
56. **The Role of Nature and Equity in Planning for a Resilient Coast**, Piper Wallingford, The Nature Conservancy
57. **Urban agriculture and climate change: A case study from Minneapolis-Saint Paul**, Gaston Small, University of Saint Thomas
58. **Integrating Climate, Health, and Equity into Urban Forest Management**, Madeline Baroli, Northern Institute of Applied Climate Science
59. **ASAP and USDA Forest Service Partner to Address Gaps in Workforce Climate Literacy**, Maria Dozier, American Society of Adaptation Professionals
60. **The Golden Gate Biosphere Network Climate Adaptation Project: Leveraging Biosphere Reserves for Better Adaptation**, Kathryn Braddock, EcoAdapt
61. **Adaptation Perspectives: Case Studies of State Climate Adaptation Policy - Forest Management in the West**, Tamera Breidenbach, Colorado State University
62. **New Horizons: Coastal Management Fellow-led Discussion on the Future of Adaptation Planning**, Kristi Kimura, Hawai'i Coastal Zone Management
63. **When statewide climate mandates collide with local planners: Lessons for policy rollout and community readiness**, Mary Ann Rozance, Cascadia Consulting Group
64. **Colorado's Latest Vision for Water-related Climate Adaptation Policy**, Emily Adrid, Colorado Water Conservation Board
65. **Supporting Tribal Drought Resilience: NOAA's National Integrated Drought Information System**, Crystal Stiles, NOAA National Integrated Drought Information System/CIRES at the University of Colorado Boulder
66. **The Effect of Heat on Demand for Emergency Medical Services in Los Angeles County**, Avery Krovetz, Pardee RAND Graduate School
67. **The Importance of Adaptation Practitioners in Hazard Mitigation Planning**, Ariana Borrello, FEMA Region 8
68. **Equity in Hazard Mitigation Planning**, Megan Brotherton, Black & Veatch
69. **Heat Hazard Adaptations to Protect Workers in a Changing Climate**, Nathan Stinnette, RS&H
70. **Assessing the Socio-Economic Value of Salt Marsh Ecosystems for Climate Resilience Financing in Georgia**, Ashby Worley, The Nature Conservancy
71. **Finding the weakest links: Incorporating systems thinking and interdependencies into climate risk assessments**, Mary Kimball, Arcadis
72. **Tidal Trepidation and Infrastructure Planning: Navigating the Iterative Path to Climate-Resilient Design Flood Elevations**, Allison Lau, Philadelphia Water Department
73. **Motivating action via a climate resilience maturity model for utilities and other essential services providers**, Andrew Bochman, Idaho National Laboratory
74. **Impacts of Electric Vehicles on Emergency Planning**, Mass Evacuations and Transportation System Resilience, Geoff Morrison, Cadmus Group
75. **More Effective Adaptation Strategies: At the Intersection of Science and Design**, Colleen McHugh, The Water Institute



76. **Nature in the Twin Cities: the evolution of environmental governance in two decades of comprehensive-planning**, Audrey Robeson, University of Minnesota
77. **Outlining a Methodology for Developing an Effective Long-term Urban Forestry Plan**, Megan McLaughlin, University of Michigan School for Environment and Sustainability
78. **Advancing coastal infrastructure resilience to sea level rise in Washington's state parks**, Rachel Johnson, Herrera Environmental Consultants
79. **Bringing the Coastal Storm Modeling System (CoSMoS) to users: outreach and engagement in Washington state**, Chandler Countryman, Washington Sea Grant
80. **Building Better: Integrating Climate Impacts into Capital Planning**, Sierra Ramer, Pathways Climate Institute
81. **Building the Foundation for Climate-Adapted Stormwater Management in the Chesapeake Bay**, David Wood, Chesapeake Stormwater Network
82. **Exploring Whether a Green Infrastructure Project Is Right for Your Community? There's A Tool For That.**, Rachel Bowers, MAPC
83. **Identifying Gaps in Adaptation Tools on the U.S. Climate Resilience Toolkit**, Sloane Poppei, University of Michigan
84. **Let's Develop a Climate Resilient Playbook: a DIY Preparedness Plan for Local Governments**, Julia Nassar, Metropolitan Area Planning Council
85. **The FloodWise Communities Experience: Boosting Local Capacity through Stormwater Vulnerability Assessments**, Tori Field, GLISA
86. **Tribal Resilience Action Database: An On-line Climate Adaptation Strategies Tool**, Sascha Petersen, Adaptation International and Scott Hauser, Upper Snake River Tribes Foundation
87. **Participatory GIS Urban Development Tool (PIVOT): Helping Great Lakes Communities Plan for Climate In-migration**, Jenna Jorns, GLISA
88. **Urban Pentimento: Retrofitting in Fort Lauderdale and New York City Based on Informed Adaptive Capacity**, Samantha Danchuk and Nancy Gassman, APTIM and City of Fort Lauderdale
89. **Dispelling the Myth of the General Public: Leveraging User Research to Challenge Traditional Website Design**, Dave Michelson, UNC Asheville's National Environmental Modeling and Analysis Center (NEMAC)





## DAY 2: Wednesday, May 15

### Schedule At-A-Glance

7:30 am - 8:30 am	Registration and Breakfast
8:30 am - 10:00 am	Session Block #5
10:00 am - 10:30 am	Break and Snack
10:30 am - 12:00 pm	Session Block #6
12:00 pm - 1:30 pm	Lunch (provided for all attendees)
1:30 pm - 3:00 pm	Session Block #7
3:00 pm - 3:30 pm	Break and Snack
3:30 pm - 5:00 pm	Session Block #8
5:00 pm - 5:15 pm	Break and Snack
5:15 pm - 6:45 pm	Session Block #9

7:30 - 8:30 am Registration and Breakfast

8:30 am - 10:00 am Session Block #5

### Moving the Needle to Building a More Resilient Nation: A National Dialogue Special Session *Meeting Rooms 1 & 2*

President Biden is leading the most ambitious climate, conservation, and environmental justice agenda in history. In 2023, the White House launched the National Climate Resilience Framework, a vision for a climate resilient nation designed to guide and align climate resilience investments and activities by the federal government and its partners. Through partnership with the White House's Council of Environmental Quality, federal agencies are taking action to build more resilient federal operations through new climate adaptation plans. The Federal government is the largest employer, landowner, and building manager in the United States and faces mounting risks of climate-related damages.

During this session, the participants will hear a high-level overview of the Resilience Framework from White House leaders. Federal agencies will share how these plans are improving the resilience of their agency's operations, programs, and supply chains.

We will subsequently engage in an interactive discussion on ideas for implementing this ambitious framework and leveraging the Federal Climate Adaptation Plan Network. Session participants will have the opportunity to provide ideas from their community's perspective on advancing specific actionable opportunities. The information provided in this session will be helpful for any practitioner that will be updating or creating a new climate adaptation plan.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

#### Speakers

- **Crystal Bergemann**, White House Council on Environmental Quality, Senior Director for Resilience
- **Joel Scheraga**, U.S. Environmental Protection Agency, Senior Advisor for Climate Adaptation
- **Heather Holsinger**, Office of the Secretary, U.S. Department of Transportation, Senior Climate Policy Analyst
- **Capt. Leo Angelo M. Gumapas**, U.S. Department of Health and Human Services, Chief (Acting), Real Property Policy and Strategy, Environmental Engineering Program Chief

#### Session Organizer

- **Amy Rapp**, Climate Resilience Solutions, LLC, Founder
- **John Phillips**, Parametrix, Director of Integrated Watershed Management
- **Lela Shepherd**

### Promoting Innovation in Climate Adaptation

*Meeting Room 4*

Given the accelerating pace, scope, and magnitude of climate impacts on biodiversity and ecosystems, current adaptation responses are often mismatched to the scale of the problem. To address this problem, conservation practitioners will likely need to be innovative and creative in their adaptation efforts. This session will explore techniques to promote innovation recently presented in



a guidance developed by the National Wildlife Federation and the U.S. Geological Survey with support from an international expert workgroup. The session will introduce the “innovation lifecycle” and explore how this can inform any adaptation planning process. The session will also help participants understand techniques for idea generation, prototyping, testing, implementation, and recognizing “enabling conditions” that can overcome common barriers to innovation. The session will also offer guidance on assessing and managing risk as part of the innovation process. Participants will be directly engaged in considering how these techniques can fit into their work and how they would benefit by promoting innovation in their practices. This symposium, and the broader innovation guidance, have broad relevance across adaptation sectors, including in the design and application of nature-based solutions for community adaptation.

#### Speakers

- **Arsum Pathak**, National Wildlife Federation, Sr. Adaptation and Coastal Resilience Specialist
- **Bruce Stein**, National Wildlife Federation, Chief Scientist and Associate Vice President
- **Jessica Hellmann**, University of Minnesota, Executive Director & Ecolab Chair for Environmental Leadership
- **Molly Cross**, USGS, Regional Administrator, North Central CASC
- **Corina Newsome**, National Wildlife Federation, Conservation Scientist

### Equity, Adaptation and Flood Resiliency: Caring and Sharing Experiences from East and West Coasts

#### Meeting Rooms 5 & 6

Our cities are facing the impacts of climate change, including sea level rise, extreme storms, and flooding. These impacts are disproportionately affecting low-income communities and communities of color, who live in areas that are most vulnerable to climate change.

This proposal explores how agencies, municipalities, and partners have advanced equitable coastal adaptation in the areas of Boston, the San Francisco Bay, and Seattle. The proposal is based on the following principles:

**Equity:** All communities, regardless of their income or race, should have the same opportunity to be resilient to climate change.

**Collaboration:** All stakeholders, including government agencies, community organizations, and businesses, should work together to develop and implement adaptation strategies.

**Innovation:** We need to develop new and innovative adaptation strategies that are tailored to the specific needs of each community.

The audience will be introduced to the highlights of each region’s work, and be invited to discuss the challenges around achieving equity in climate adaptation, including:

- Advancing equitable regional coastal adaptation.
- Using data and storytelling to drive equitable investments.
- Long-term visioning for equitable flood adaptation infrastructure that responds to urgency.
- Supporting the resiliency of environmental justice communities to intersectional climate threats.

#### Speakers

- **Luiz Barata**, Port of San Francisco, Senior Planner/ Urban Designer, Waterfront Resilience Program
- **Phoenix Armenta**, San Francisco Bay Conservation and Development Commission (BCDC), Senior Manager for Climate Equity and Community Engagement
- **Dana Brechwald**, SF Bay Conservation and Development Commission, Assistant Planning Director for Climate Adaptation
- **Saumya Kini**, Walker Macy Landscape Architects & Planners, Urban Designer
- **Michael Chang**, Cascadia Consulting Group, Director of Equity
- **Ann Grodnik-Nagle**, Seattle Public Utilities, Climate Adaptation Policy Advisor
- **Marissa Zampino**, Mystic River Watershed Association, Community Organizer
- **Vijaylaxmi Kesavan**, Jacobs, Equity Lead
- **Mona Abboud**, Interethnica, Inc., Associate Principal

### Adaptation in Frontline Communities *Meeting Room 7*

This session will address important concerns regarding how to collaborate with under-resourced communities and develop climate adaptation strategies that center community priorities.

Andrea Montecinos-Padilla, Catherine Baltazar, and Itzel Flores Castillo Wang will delve into the collaborative efforts between Climate Resolve, Promesa Boyle Heights, and their Environmental Justice promotoras for their “Empowering, Beautifying, and Transforming Our Community” buffer zone project, which aims to bring gray and green hard infrastructure options, such as shade and air filtration trees, shade structures, cool pavements, hydration stations, and public seating areas, for both public and private properties that will protect residents from the nearby industrial corridor of the Boyle Heights community in Los Angeles.

Julie Corrales, Maritza Garcia, and Christiana DeBenedict will share how the Environmental Health Coalition and San Diego Foundation have deepened their partnership to secure a 22-million-dollar grant from the Transformative Climate Communities state grant program. Through their collective efforts, along with 11 community partners, they have supported a community-driven process that showcases a new model for climate investment in San Diego’s historic barrios.

The 1854 Treaty Authority and the University of Minnesota Climate Adaptation Partnership will discuss a process for updating the 1854 Ceded Territory climate change adaptation plan and incorporating indigenous knowledge.

This session will be presented as three individual oral presentations and include a panel discussion with an audience Q&A.

#### Speakers

- **Andrea Montecinos-Padilla**, Climate Resolve
- **Catherine Baltazar**, Climate Resolve, Policy Analyst & Organizer
- **Itzel Flores Castillo Wang**, Proyecto Pastoral
- **Julie Corrales**, Environmental Health Coalition
- **Christiana DeBenedict**, San Diego Foundation
- **Tyler Kaspar**, 1854 Treaty Authority, Environmental Biologist
- **Steve Shier**, 1854 Treaty Authority
- **Nathan Meyer**, University of Minnesota Climate Adaptation Partnership, Associate Director and Extension Program Leader
- **Heidi Roop**, University of Minnesota Climate Adaptation Partnership



## Adaptation, Restoration, and Conservation in Managed Marine and Freshwater Ecosystems - From Planning to Implementation *Meeting Rooms 8 & 9*

To slow and reverse the impacts of climate change on coastal communities and the economies they rely on, we have seen increasing attention and investment in climate adaptation actions that can restore damaged marine and freshwater ecosystems and build their resilience. From local programs to executive orders, there is now a wide range of policy tools, funding resources, and case studies advancing climate adaptation for and through coastal and marine systems. However, there are research and resource needs to meet, and expertise required to capitalize on these existing opportunities available to resource managers and communities to build the resilience of marine and freshwater ecosystems to climate change.

This session will feature a series of brief presentations on:

- Identifying and fostering co-benefits of human climate adaptation approaches for marine species
- Climate-informed ecosystem restoration in marine protected areas (MPAs)
- Moving coastal resilience activities from vision to implementation in the Great Lakes
- Policies on climate adaptation and MPA planning and management

Presentations will be followed by breakout group discussions focused on planning, designing, funding, and implementing effective adaptation projects. Session participants can expect to expand their subject matter awareness/knowledge and professional network through engaging in discussion across a variety of topics.

### Speakers

- **Jillian Neuberger**, National Marine Sanctuary Foundation; Affiliate - NOAA Office of National Marine Sanctuaries, National Marine Protected Areas Center, Climate/Marine Protected Area Associate
- **Chiara Zuccarino-Crowe**, NOAA Office for Coastal Management, Great Lakes Regional Lead
- **Dorothy Dick**, NOAA Fisheries, Office of Protected Resources, Climate Specialist
- **Matthew Lettrich**, ECS in support of NOAA Fisheries Office of Science and Technology, Protected Species Climate Vulnerability Assessment Lead

## Radical climate justice futures using science fiction prototyping *Meeting Rooms 10 & 11*

Climate change scenarios used in the IPCC's assessment reports, such as the Shared Socioeconomic Pathways (SSPs) and Representative Concentration Pathways (RCPs) are used to depict a range of plausible global and regional changes into the future. Yet, transformative adaptation and resilience solutions are often implemented at the local scale, and a significant gap remains in the ability of practitioners to gain buy-in to adaptation solutions that provide a multitude of environmental, social, and development benefits. This session aims to provide participants with skills to create transformative adaptation strategies using participatory and story-based futures methods. Participants will begin with a discussion about the pre-prepared scientific evidence base for SSP-

RCP scenarios for the Minneapolis-St Paul region, using a decolonizing and climate justice lens. Next, we will employ participatory futures methods (e.g., science fiction prototyping) to collectively imagine scenario-specific human futures. The session will lead to the development of scenario prototypes depicting climate futures and is designed so that all participants have the opportunity to experience and learn how to downscale insights from global and regional models through participatory story methods. Our hope is that participants can integrate these methods into their own work leading to more imaginative, transformative, and equitable climate solutions.

### Speakers

- **Alex Basaraba**, Cadmus Group, Climate Associate
- **Pat Keys**, Colorado State University, Department of Atmospheric Sciences, Assistant Professor

## Building Climate Resilience Across Minnesota

### *Meeting Room 12*

Due to climate change, Minnesota's highly variable climate is becoming even more extreme. Communities are grappling with increasingly severe rainstorms and flooding (both riverine and pluvial) punctuated by damaging dry spells, and much warmer winters and summer nights, all of which impact infrastructure and ecosystems statewide. This session will cover climate resilience efforts from the state, local, and regional governments to address climate risks and build resilience within Minnesota communities, focusing on three topics:

- How Minnesota is empowering resilient communities through new state funding that facilitates efforts by local governments, community-based organizations, and educational institutions to pursue broader engagement, incorporate climate equity and justice, and expand capacity for planning and implementation.
- Regional and local examples of climate resilience initiatives, ranging from expanding community resilience to urban heat island to ensuring a more resilient transportation system.
- Metrics, including (1) the method used to research and prioritize resilience metrics; (2) the criteria used to gather and evaluate data for tracking metrics; (3) the inclusion of equity and diversity considerations; and (4) approaches to share results with decision-makers, community leaders, and the public.

During Q&A, attendees will have the opportunity to dig into the similarities and differences of implementing these climate resilience activities.

### Speakers

- **Laura Millberg**, Minnesota Pollution Control Agency, Climate Change Resilience Coordinator
- **Suzi Clark**, University of Minnesota Climate Adaptation Partnership, Climate Adaptation & Resilience Extension Educator
- **Dena Coffman**, University of Minnesota Climate Adaptation Partnership, GIS Specialist

### Session Organizers

- **Sharon Stephens**, Minnesota Pollution Control Agency, Climate Change Adaptation Coordinator
- **Jeffrey Meek**, ICF, Climate Resilience Consultant

## Climate Displacement, Managed Retreat, and Relocation Special Session *Meeting Rooms 13 & 14*

Join us as we explore what it means to experience, witness, and document the displacement of individuals, families, and communities as the climate changes. We'll explore the social and economic inequities that arise from displacement especially as lands get left behind. We'll also look at what it means to return to lands where we feel rooted and connected—both in terms of (1) being better allies to the land back movement, and (2) preparing “receiving communities” or for a new influx of people and investment. Through facilitated dialogues and artistic exploration, we'll examine how natural and societal stressors linked to climate change are shifting the way we build, plan for, and live in our communities, and how we can come together to address climate-related displacement, retreat, and relocation.

The session has three segments: (1) a moderated conversation about our connection to the lands we move into and out of; (2) a gallery walk to absorb artistic expressions around this topic, with photos and posters relevant to migration, displacement and solastalgia; (3) a moderated panel on what it means to receive, make space for new people and new development so that we can build a shared and liberated community.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

### Speakers

- **Sharon Hausam**, South Central Climate Adaptation Science Center, Climate Adaptation Planner and Research Scientist
- **Annika Tomson**, Coastal States Organization / Association of State Floodplain Managers, NOAA Digital Coast Fellow
- **Jessica Brunacini**, Maine Sea Grant and Casco Bay Estuary Partnership, Coastal Resilience Specialist
- **Lian Plass**, Urban Land Institute, Senior Manager, Urban Resilience
- **Logan Gerber-Chavez**, Embry-Riddle Aeronautical University, Assistant Professor
- **Hannah Teicher**, Harvard Graduate School of Design, Assistant Professor of Urban Planning

### Session Organizers

- **Vidya Balasubramanyam**, Coastal States Organization, Program Director
- **Barrett Ristroph**, Ristroph Law, Planning, and Research, Owner
- **Kelly Main**, Buy-In Community Planning, Executive Director

## What Does it Take to Accelerate Heat Action Implementation? *Meeting Room 15*

This session will feature a series of short presentations from varying sectors and perspectives followed by an engaging conversation between the speakers and audience. Participants will walk away with clear examples of what works and what doesn't when it comes to dealing with extreme heat, from planning and policy to implementation and engaging the community and future generations.

Maggie Messerschmidt, who works with Arup as a Senior Resilience Consultant, will present on the ways local governments can identify and coordinate high impact strategies for advancing equitable heat action planning.

Corinne LeTourneau, who will be representing Resilient Cities Catalyst, will present on co-design approaches, examples of effective projects and policies, and the importance of working across sectors to tackle extreme heat.

Marc Coudert, with the City of Austin, will discuss how they centered community engagement and health equity in the co-creation of heat mitigation strategies.

Finally, the Cool Roof Rating Council's Audrey McGarrell will explore strategies to engage younger generations in heat action, highlighting youth citizen science and public art projects as two effective mechanisms and providing concrete resources for practitioners.

### Speakers

- **Maggie Messerschmidt**, Arup, Senior Resilience Consultant
- **Corinne LeTourneau**, Resilient Cities Catalyst
- **Marc Coudert**, City of Austin, Climate Resilience & Adaptation Manager
- **Audrey McGarrell**, Cool Roof Rating Council, Project Manager

## Accelerating Urban Nature-Based Solutions as Climate Adaptation Action for Equitable Community Development *Grand Ballroom D*

Urban nature-based solutions as climate adaptation action can simultaneously achieve equity-centered community development and power-building in communities most impacted by historical injustices and growing climate risks. In a proven model based on this premise, the Nature-Based Climate Solutions Accelerator educates cities on a range of existing nature-based climate solution approaches, introducing – and spurring innovation around – new concepts to advance collaborative, equity-centered delivery of community-level nature-based climate regenerative action. In this session, practitioner instructors who structure the Accelerator's comprehensive framework and support dozens of communities to implement urban nature-based solutions, will share how the integration of currently fragmented sectors supports regenerative adaptation measures nationwide. This workshop will cover critical climate risk+nature-based solution pairings (Urban Heat+Urban Forestry, Stormwater+Green Infrastructure, Organic Waste+Composting, Desertification+Soil Health, Species Extinction+Biodiversity) and engage Forum participants in a set of exercises to ensure Adaptation can best be centered in cities' resilience efforts. Workshop participants will select a risk+solution workgroup of their choice, where Accelerator instructors guide them through a process to raise Adaptation principles, considerations, examples, actions, and desired outcomes that will inform future Accelerator risk+solution sequences to ensure urban nature-based solution implementation regenerates living systems and communities.

### Moderator

- **Brett KenCairn**, Center for Regenerative Solutions, Executive Director

### Speakers

- **Vivek Shandas**, Portland State University and CAPA Strategies LLC, Professor of Geography and Climate Consultant
- **Taj Schottland**, Trust for Public Land, Associate Director, Climate
- **Tanner Yess**, Groundwork Ohio River Valley, Executive Director

10:00 am - 10:30 am Break and Snack

10:30 am - 12:00 pm Session Block #6

### Featured Session: Equitable Climate Service Delivery: Getting Climate Information into the Hands of People Who Need It *Meeting Room 4*

Climate data, information, science, and tools ("climate services") must be accessible and actionable for users of all disciplines, reflective of user experiences, and inclusive of decision support and capacity building – because providing data and information on its own does not lead to adaptive decision making. This symposium will highlight how NOAA's new Equitable Climate Service Delivery Action Plan seeks to better address these challenges, followed by a moderated panel discussion that shares stories and candid perspectives about what it means to truly prioritize and meet the needs of users of all disciplines and backgrounds, particularly historically underserved and Tribal and Indigenous communities, as they move forward with their climate adaptation and resilience planning and implementation – and how the Federal family can best support them. Rooted in NOAA's Equitable Climate Service Delivery Action Plan, the panel will highlight the challenges faced and opportunities presented in making federal climate services more accessible, equitable, inclusive, and capable of addressing complex and compounding hazards.



#### Speakers

- **Ella Clarke**, National Oceanic and Atmospheric Administration, Advisor to the Assistant Secretary of Oceans and Atmosphere/ Deputy NOAA Administrator
- **Lori Cary-Kothera**, Office of Coastal Management, National Oceanic and Atmospheric Administration, Science and Geospatial Operations Manager
- **Alexis Pelosi**, Department of Housing and Urban Development (HUD), Senior Advisor, Office of Community Planning and Development
- **David Padgett**, Tennessee State University & HBCU Environmental Justice Technical Team, Associate Professor of Geography & Team Lead
- **Jennifer Merritt**, Crisfield, Maryland, Grant Administrator

#### Moderator

- **Jainey Bavishi**, National Oceanic and Atmospheric Administration, Assistant Secretary of Oceans and Atmosphere/Deputy NOAA Administrator

### Featured Session: The Climate Resilience Information System: Applying Geographic Climate Information to Real-World Risk and Adaptation Planning *Meeting Rooms 1 & 2*

Open access to authoritative data and analytical tools is vital to effective climate action, yet remains one of the biggest challenges. To help meet this challenge, the Climate Resilience Information System (CRIS) provides foundational climate data and supports many federal open data initiatives such as the Climate Mapping for Resilience and Adaptation and National Climate Assessments. Additionally, the real power of CRIS is its ability to support a wide variety of global to local assessments of the impacts on populations, infrastructure, economies, and ecosystems. In this session we will demonstrate the types of workflows and applications that can be supported by CRIS. We will focus on three personas: (1) Local Resilience Champions: building initiatives around local resilience and adaptation efforts or communities of practice within the climate resilience ecosystem (2) Analysts: GIS workflows that align to the Climate Resilience Toolkit and Implementing the Steps to Resilience: a Practitioner's Guide, and (3) Application Developers: create no- or low-code applications for resilience practitioners. Join Esri and NOAA experts to learn to leverage the valuable climate resources in CRIS.



#### Speakers

- **David Herring**, NOAA, Climate Program Office Communication Division Chief
- **Dan Pisut**, Esri, Sr. Principal Engineer, Climate Resilience Lead

### Leveraging Regional Assets to Accelerate Adaptation Implementation and Build Capacity *Meeting Rooms 5 & 6*

A variety of regional models, collaboratives, and partnerships for climate adaptation have emerged across the nation over the past decade. Many of these started as informal networks focused on building awareness and exchanging knowledge but have since matured and have proven success in advancing community-driven, results-oriented climate resilience projects. This session aims to highlight a diversity of regional models that have been deployed and facilitate group discussions to explore specific actions that participants can take in their own regions to accelerate the pace of implementation, particularly in light of new federal and philanthropic investments for climate adaptation projects.

Participants will learn about successful regional models from the national Regional Collaboratives Forum, a network of over three dozen regional climate collaboratives, and the California Resilience Partnership, a replicable model for increasing investments in a pipeline of high-impact climate resilience projects. Within these



broader initiatives, specific regional models will be highlighted to demonstrate real, on-the-ground results that meet both community-defined needs and address priority climate impacts. A diversity of regions will be featured, from coastal to inland, urban to rural, and politically aligned to politically diverse, including efforts underway in NAF's hosting region.

#### Speakers

- **Julianna DeNike**, CivicWell/California Adaptation Forum, Climate Change Project Manager
- **Sam Carter**, Resilient Cities Catalyst, Principal
- **Dan Dickerman**, Institute for Sustainable Communities, Senior Program Officer
- **Bharat Balyan**, City of Minneapolis, Resilience Hub Project Coordinator
- **Christiana DeBenedict**, San Diego Foundation
- **Mike McKenzie**, People Over Plastic, Executive Director

#### Advancing Adaptation Policy & Governance *Meeting Room 7*

This session will explore two unique, but complementary, perspectives and case studies on climate adaptation policy development and implementation.

The first presentation, "Tribal Resilience: Perspectives on Tribal Mitigation Planning Policy – Opportunities and Barriers," will briefly introduce tribal hazard mitigation planning, FEMA's tribal planning policy, and differing perspectives relating to opportunities, challenges, and barriers that tribes may face in the mitigation planning process and plan implementation. Presenters will discuss the updates to FEMA's tribal mitigation planning policy and share perspectives from working with tribes in different regions (Region 6 - New Mexico, Oklahoma, Texas, Louisiana and Region 10 - Alaska). Attendees will take away a better understanding of FEMA's tribal mitigation planning policy and opportunities to overcome challenges and improve resilience in tribal nations.

The second presentation, "Developing A Research & Policy Agenda for Receiving Communities in the US," is focused on advancing the development of a Research & Policy Agenda for Receiving Communities in the United States. In 2022, Adaptation Leader created an interdisciplinary working group focused on the co-creation of a draft Research & Policy Agenda for Receiving Communities. Since the working group's inception, participants have identified key issues facing receiving communities, summarized key topics (i.e., Innovation Zones, Intentional Communities, Exclusionary Practices, Public-Private Partnerships, and Use of Public Land) in an Environmental Law Institute article and presented these topics at the Columbia University Managed Retreat Conference, and developed and solicited feedback on policy briefs. During this session, presenters will update attendees on the working group's progress to date and elicit feedback on the research and policy agenda to inform next steps and catalyze action.

#### Speakers

- **Cathleen Carlisle**, Federal Emergency Management Agency, Hazard Mitigation Planner/Senior Policy Advisor
- **Shanene Thomas**, FEMA Region 6, Hazard Mitigation Planner/Tribal Liaison
- **Ira Feldman**, Adaptation Leader, Founder & Chairman
- **Scott Preston**, Project Director, Climate Haven Certification (CHC)

#### Building Trust, Collaboration, and Relationships to Advance Environmental Justice and Community Adaptation to Climate Change *Meeting Rooms 8 & 9*

It has become well recognized that the impacts of climate change have disparate impacts on historically marginalized and underserved communities, commonly referred to as frontline communities. Left unabated, climate impacts will continue to deepen existing disparities and contribute to further inequities in our communities as those with the ability to adapt do so, while those without the capacity to adapt are left to bear the brunt of climate impacts. In this round of lightning talks, participants will hear about how adaptation professionals are collaborating with frontline communities to build trusting relationships to advance environmental justice and equitable climate adaptation actions to ensure pathways to achieving resilience are attainable for all. A brief Q&A session will follow these lightning talks before participants will be invited to join breakout groups facilitated by each of the presenters for a deeper dive into how adaptation professionals can further work with communities to build trusting relationships to foster equitable climate resilience.

#### Speakers

- **Aashka Patel**, Fernleaf, Director of Resilience Practice
- **Karen Burney Green**, Charleston County, South Carolina, Chief Resilience Officer
- **Danielle Getsinger**, Community Lattice, CEO
- **Erica Akemi Goto**, Arizona Institute for Resilience, University of Arizona, Research Scientist
- **Addison Houston**, Public Health Seattle & King County, Climate Adaptation Strategist
- **Dalya Ismael**, Old Dominion University, Department of Engineering Technology, Assistant Professor

#### Unlocking the Future: Community-Led Climate Adaptation through Capacity Building and Collaborative Governance *Meeting Rooms 10 & 11*

To reverse decades of disinvestment and racist policies, we must double down on community ownership of climate solutions. Communities know best what their neighborhoods need, but they still require additional resources, partnerships and capacity building to bring these local visions to life. This session will highlight communities across that country that are building alternative models of governance to overcome these challenges to advance climate adaptation and mitigation neighborhood projects. We will explore case studies across California including in Stockton, Oakland, and TEEM, a multistate Community of Practice. Our discussion will be followed by "Equity Lab," an interactive activity that will simulate the process of working with a multi-stakeholder group of neighbors, community activists, local government and other stakeholders to build a Memorandum of Understanding for collaborative governance. Together, we will address the following questions: How do we stand up collaborative governance? What are the ingredients that lead to equitable and impactful processes and outcomes? How do we upend traditional hierarchies to be rooted in

collaboration? Through this, participants will gain tools to develop multi-sectoral partnerships and create an enabling ecosystem for community-led climate solutions.

#### Speakers

- **Katherine Cabrera**, The Greenlining Institute, Program Manager, Capacity Building
- **Aminah Luqman**, The Greenlining Institute, Program Manager, Capacity Building
- **Morokot Uy**, The Greenlining Institute, Program Manager, Capacity Building
- **Isa Gaillard**, The Greenlining Institute, Senior Program Manager for Capacity Building
- **Safia Haidari**, The Greenlining Institute, Capacity Building Program Manager

### Sweating the Small Stuff: Adopting Engineering and Design Standards to a Changing World *Meeting Room 12*

Engineering and design standards, codes, and regulations underlie almost every facet of the built environment around us. Largely developed through experience, research, and analyzing historic trends, these standards are often not adequate for withstanding the current and future impacts of climate change. As organizations prepare for the impacts of climate change, updating these standards to bridge the gap between what historic conditions mandated and what current and future environments will require is an essential step in their journey towards a more climate resilient future.

For public transit organizations, updating design and engineering standards is a challenging, slow, and nuanced process which must consider both the operational demands of the organization and the needs and experiences of the communities dependent on the infrastructure itself. In this session, join representatives from Amtrak, Arup, and the Port Authority of NY and NJ for an interactive discussion on identifying, updating, and implementing climate resilient standards, codes, and regulations in complex infrastructural and bureaucratic environments. Although our experiences are focused on public transportation, our goal for this conversation is for attendees to take away an understanding of how to work through this organizational journey in all types of infrastructure and communities adapting to climate change.

#### Speakers

- **Miles Owen**, Amtrak, Senior Climate Resilience Specialist
- **Sarah Colasurdo**, Port Authority of NY and NJ, Senior Climate Resilience Specialist
- **Ilana Judah**, Arup, Americas East Resilience Leader

### Healing our Waters through Habitat and Art

*Meeting Rooms 13 & 14*

In this session, we will facilitate collective exploration of climate resilient and habitat restoration work through art - grounded in a Great Lakes and New England context.

We'll use art-based tools, storytelling, meditative mediums, and collective sharing to digest and comprehend complex climate resilience work - from engineering and design work for habitats in the Great Lakes to lighthouses in rural coastal Maine.

We'll use whatever art medium feels approachable to us (even if it is just pencil and paper) to design our own climate resilient visions for

our future! We'll use allegories such as lighthouses, kelp, corals, freshwater lakes and streambanks to ground ourselves in the values that direct and shape our work

Through these art-based activities, we'll explore what it means to heal our relationships with the land. To restore the land, we need to first restore our relationships with each other and what better way to do that than through art!

#### Speakers

- **Vidya Balasubramanyam**, Coastal States Organization, Program Director
- **Olivia Lenfestey**, The Island Institute

### Methods for Measuring Extreme Heat and Resources for Addressing It *Meeting Room 15*

This moderated panel discussion will cover diverse topics such as economic assessments of heat in urban areas, heat-related costs to governmental budgets, and strategies for addressing extreme heat and heat island impacts. The session will also review approaches to measuring heat, identifying appropriate thresholds, and methods for ensuring individuals most vulnerable to extreme heat have the resources they need. Panelists will also discuss resources for developing and enforcing heat mitigation through codes, standards, and voluntary programs; innovative technologies for keeping unwanted solar heat out of structures; and the benefit of public-private partnerships in implementing heat mitigation strategies. Attendees can expect insightful discussions on heat mitigation, adaptation efforts, and policy implications for communities large and small.

#### Speakers

- **Alison Frazzini**, Los Angeles County Chief Sustainability Office, Policy Advisor
- **Anna Bettis**, The Nature Conservancy, Healthy Cities Program Director
- **Andrea Webster**, State of North Carolina, Office of Recovery and Resiliency, Resilience Policy Advisor
- **Vivek Shandas**, Portland State University and CAPA Strategies LLC, Professor of Geography and Climate Consultant
- **Zach Youngerman**, Director of Resiliency Planning & Management, NYC DOT
- **Sarah Schneider**, Cool Roof Rating Council, Deputy Director
- **Maureen Kavanagh**, 3M, Director, R&D

#### Moderator

- **Jonathan Parfrey**, Climate Resolve, Executive Director







Kintsugi Kelley-Chung/EcoAdapt

## CAKE Tools Café

Grand Ballroom D

This year's CAKE Tools Cafe will feature 14 unique climate resilience tools designed to fit a wide range of user needs. Presenters will begin the session with two-minute tool overviews and then attendees can spend the rest of the time demoing tools and asking questions.



### The CAKE Tools Cafe will feature the following tools:

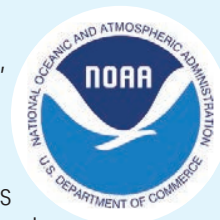
- The Climate and Hazard Mitigation Planning (CHaMP) Tool: A Regionally Relevant Hazard Mitigation Planning Portal
- Equitable Resilience Builder Training: A tool for community resilience planning
- CDC's Heat & Health Tracker: A Tool to Inform Community Heat Risk and Adaptation Strategies
- Climate Central's New Tools for Analyzing and Communicating Sea Level Rise and Coastal Flood Risk
- The Climate Change Resilience and Adaptation Planning Tool
- Where is my risk and how can I mitigate it? Understanding climate risk with ClimateCAST
- The USFS Climate Risk Viewer
- User Research-Based Redesign of the U.S. Climate Resilience Toolkit
- ClimTo: promoting and tracking climate resilience
- Let's get "HeatReady!": Training tools and materials for preparedness and education.
- Smart Growth & Climate Change Strategy Wizard
- EPA's Adaptation Resource Center (ARC-X) for Local Governments
- Self-efficacy, serious games, and simulations: Developing a climate decision-making model of small farmers in Maryland.
- Aging in Place with Extreme Heat: A Residential Checklist

12:00 pm - 1:30 pm Lunch Grand Ballroom

## Featured Session: Establishing a Climate Ready Workforce

Meeting Room 5&6

Imagine widespread resilience, renewable energy, and systemic equity in every community of our nation. Presenters will describe resilience-related workforce development efforts that are underway across the federal government toward that vision. We will also present an assessment of governmental (federal to local) and private sector climate resilience workforce capabilities and needs.



### Those presentations will explore important questions.

- Why isn't our current workforce Climate Ready?
- What is needed to establish a workforce that is able to respond and adapt to climate-related challenges and opportunities
- How would we know if our workforce were capable of promoting resilience throughout civil society?
- Join this working group for table-by-table conversations focused on these questions. Conveners will crowdsource and visualize participants' ideas through interactive surveys and use that feedback to inform ongoing monitoring and evaluation of NOAA climate resilience programs and their funded partners' efforts. These federal programs are an essential ingredient to establishing a Climate-Ready Workforce, across all sectors and throughout the United States, to address the climate crisis.

**Participants should pick up lunch from the main buffet line and bring it to Meeting Room 3.**

### Speakers

- **Ned Gardiner**, National Oceanic and Atmospheric Administration, Program Manager, Climate Smart Communities Initiative (CSCI)
- **Frank Niepold**, NOAA Climate Program Office, Climate Ready Workforce Program Manager
- **Nicole Rucker**, NOAA Climate Program Office, Climate Ready Workforce Program Coordinator
- **Adam Parris**, ICF, Senior Consultant, Climate Planning & ICF Climate Center Senior Fellow
- **Molly Rickles**, ICF, Climate Change and Sustainability Specialist



1:30 pm - 3:00 pm Session Block #7

## Bridging the Resource Divide: Centering Equity in Community Led Coastal Adaptation

Meeting Rooms 1 & 2

Environmental Justice is frequently acknowledged as an important consideration for allocation of climate adaptation resources, but equity based criteria are inconsistently applied across government and non-profit grant programs to meet the unique needs of coastal communities facing the first and most extreme impacts of climate change.

The working group, hosted by the Ocean Justice Advocacy Group (OJAG) and The Nature Conservancy (TNC), a partnership that formed at NAF 2022, will explore the vital concept of “bridging the resource divide” between coastal communities, NGOs, and government entities to achieve community climate adaptation goals. The session will be led by members of working groups convened by OJAG and TNC over the last few years, which have resulted in the development of equity based recommendations aimed at decisionmakers to transform the way we distribute climate adaptation resources, from financial support to technical assistance.

Panelists will share insights regarding barriers that coastal communities face across every step of the government and non-profit funding systems and they will share examples illustrating “how to” center equity in decision making. Our equitable resource allocation work is ongoing, we are looking forward to refining our approach by sharing it with the broader community of adaptation professionals at NAF.

### Speakers

- **Liana Quinones**, Equival Partners/Ocean Justice Advisory Group, Project Lead/Facilitator
- **Kate Vogel**, Maryland Department of Natural Resources, Flood Adaptation Planner
- **Astrid Caldas**, Union of Concerned Scientists, Senior Climate Scientist for Community Resilience
- **Bruna Attila**, B&D Consulting Services, Consultant, and Coastal Community Member
- **Queen Quet**, Gullah/Geechee Region, Chiefess of the Gullah/Geechee Nation, and Member of Ocean Justice Advisory Group
- **Jackie Specht**, Maryland Dept. of Natural Resources, Resilient Systems Officer

### Session Organizer

- **Humna Sharif**, The Nature Conservancy, Climate Adaptation Manager for Resilient Coasts

## Adaptation and contaminated sites: compounding vulnerabilities in the toxic flood nexus *Meeting Room 4*

Sixty percent of Superfund sites in the US, which are designated by the EPA for the presence of hazardous toxic materials, face exposure to climate risks like flooding. For example, during Hurricane Harvey in 2017, inundated petrochemical facilities spread a “toxic, industrial soup” throughout Houston, Texas, the ramifications of which are yet to be seen. Flood risks are expected to grow with climate change due to increasing frequency and intensity of extreme weather events as well as sea level rise. Industrial contaminants found on Superfund and brownfield sites have well-documented detrimental impacts on human health and are spread during flood events via surface overflow but also through groundwater rise, threatening the utility of traditional “capping” strategies. This toxic flood nexus and the environmental justice implications it raises are a legacy of discriminatory housing and land practices, waterfront development, and limited regulation. Despite the catastrophic cascading impacts on humans and ecosystems, no federal program exists to address flood adaptation and remediation simultaneously. This panel will feature a compilation of research and practice from practitioners and academics raising awareness on the threats of contaminated flood waters and what will be needed to address this growing environmental threat.

### Speaker

- **Kelly Main**, Buy-In Community Planning, Executive Director

## Queer and Preventing Danger: Recognizing 2SLGBTQQIA Vulnerabilities and Leveraging Strengths in a Changing Climate *Meeting Rooms 5 & 6*

Join Two Spirit, Lesbian, Gay, Bisexual, Transgender, Queer, Questioning, Intersex and Asexual (2SLGBTQQIA) people and allies to learn about key issues related to 2SLGBTQQIA lived experiences and climate adaptation and resilience work.

The unique vulnerabilities that 2SLGBTQQIA communities and individuals face often goes overlooked in climate resilience planning efforts, as do intensified risks and barriers for those facing intersecting oppressions. As a community whose diversity spans across all identities, abilities, and histories, 2SLGBTQQIA people bring critically valuable perspectives to these fields. When organizations, teams, and processes value and incorporate them, it results in more equitable, intersectional, representational, and broadly inclusive outcomes.

In this session, panelists will speak to key issues affecting 2SLGBTQQIA communities, showcasing exemplary projects, practices, and intersectional strategies. Facilitators will lead breakout discussions focused on advancing inclusion. Participants will share impacts, barriers, successes, and potential pathways in their own work and lives. We will conclude by sharing takeaways and opportunities to extend lessons into workplaces, communities and the field at large.

By ensuring 2SLGBTQIA leaders are included and supported at NAF, this session creates an opportunity to collectively explore the implications, benefits, and possibilities of integrating 2SLGBTQIA leadership, vision and equity needs into climate adaptation work.

#### Speakers

- **Kanyon "Coyote Woman" Sayers-Roods**, Indian Canyon Nation, Tribal Chairwoman; Indian Canyon Two-Spirit Society, Founder; Kanyon Consulting, CEO; Costanoan Indian Research, President
- **Ari Simon**, Grief at Work, Founder
- **Hannah Doress**, Hannah Doress Consulting | Operationalizing equity through resilience partnerships and projects, Principal
- **James Muller**, San Francisco Estuary Partnership, Principal Program Manager

### Applications of Traditional Ecological Knowledge in Climate Crisis *Meeting Rooms 8 & 9*

This session will focus on applications of traditional ecological knowledge in pursuit of climate adaptation within Indigenous communities in the United States and Canada. In particular, presenters will focus on TEK/adaptation strategies that are rooted in Indigenous cultural knowledge and lifeways.

Additionally, session participants will bring forth through their experiences and stories the diversity of different forms of adaptation, including ecological practices, tribal cultural resource preservation, intergenerational sharing of knowledge, and tribal-state/Federal collaborations.

Although TEK is becoming a widespread concept within academia and policymaking, defining TEK can be difficult due to the specificity of place-based knowledge. Session participants will lean into the importance of place-based/situated knowledge, demonstrating that TEK is a powerful concept and tool for climate adaptation when used with the environments it is situated within in mind.

Bringing together Indigenous scientists and non-Indigenous allies, this session aims to provide valuable takeaways for participants who are looking to develop or further hone adaptation strategies within their own communities, or in collaboration with Indigenous communities.

#### Speakers

- **Niiyokamigaabaw Deondre Smiles**, University of Victoria, Assistant Professor of Geography
- **Joseph Gazing Wolf**, Arizona State University, Senior Global Futures Scientist
- **Danielle Ignace**, University of British Columbia, Assistant Professor, Indigenous Natural Sciences
- **Robert Newman**, University of North Dakota, Professor

### Building and Maintaining Cross-Sector Collaborations Special Session *Meeting Rooms 10 & 11*

Connection, partnership, and collaboration across sectors increases intentionality, innovation, and efficacy of climate adaptation work. Our session will showcase informative examples of cross-sector collaboration in practice, cultivated impact networks, frameworks, and sustained partnership across sectors.

We will start this session by having brief introductions to give an overview of three projects:

- **Managing Urban Heat: The Southern Nevada Heat Resilience Lab (SNHRL)**
  - **Operationalizing Roadmap Strategies for Regional Consensus Building, Elevating Action-Oriented Strategies, and Driving Implementation: San Diego Regional Climate Collaborative**
  - **Resilience Hubs: A cross-sectoral partnership approach to enhance community resilience in Minneapolis: City of Minneapolis**
- Presenters from these projects will offer insights on the process on what strategies were used to develop collaborations, types of partners involved, and key challenges in these collaborations. Following these introductions, attendees will move to breakout tables based on the subject area of each project, as well as focusing the discussion on challenges around those topics. After spending time at breakout tables, groups will report back what they learned, and any take home lessons they had. This will be done via Mentimeter and verbal reporting, with opportunities for presenters to answer questions that may have come up during discussions.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

#### Speakers

- **Derek Kauneckis**, Desert Research Institute
- **Darbi Berry**, University of San Diego, Director of Climate & Environmental Programs, The Nonprofit Institute
- **Meagan Openshaw**, City of Imperial Beach, Community Development Director
- **Audrey Peral**, Chispa Nevada
- **Jen Fleischmann Willoughby**, Make The Road Nevada, Development Director
- **Janet Brown**, Sabathani Community Center, Independent Consultant
- **Scott Redd**, Sabathani Community Center, CEO
- **Jamez Staples**, Renewable Energy Partners, CEO
- **Nick Martin**, Xcel Energy, Director of Strategic Outreach & Advocacy
- **Ariel Choinard**, Desert Research Institute, CNAP Project Coordinator

#### Session Organizers

- **Bharat Balyan**, City of Minneapolis, Resilience Hub Project Coordinator
- **Lindsay Brugger**, Urban Land Institute, Vice President, Resilience

### Resilience at the Regional Scale *Meeting Room 12*

Regional collaboration is essential to effective climate adaptation. In this two-part session, we will highlight stories of collaborations that build on regional interconnections to deliver adaptation responses that create co-benefits for people and nature. We will address regions, partnerships, and collaborations at varying scales from across the country.

Regions are areas that share similar climate challenges, characteristics, needs, and opportunities. Participants will learn about efforts to build climate resilience and economic prosperity by coordinating regional leaders, connecting to federal agencies, addressing existing inequities and community stressors, and integrating private businesses in key sectors that will be impacted by climate risks and have a role to play in developing solutions.

Watersheds provide meaningful ecological boundaries, especially to effectively respond to flooding and drought. Our session will explore the importance and work of watershed-scale collaboratives in response to climate challenges in local communities.

Counties are key actors when it comes to climate change and resilience planning, yet they are often overlooked. In the second part of the session, four counties spread across Oregon, Washington, Texas, and Florida will share how they've established regional collaborations, moved policy into implementation, and promoted equitable distribution of co-benefits.

#### Speakers

- **Shelley Jiang**, AECOM, Senior Climate Resilience Planner
- **Josh Bradt**, Bay Area Regional Collaborative, BARC Program Coordinator
- **Sebastian Shetty**, Southern California Association of Governments, Associate Regional Planner
- **Melissa Ocana**, UMass Extension, Climate Adaptation Coordinator
- **Damian Shapes Padilla**, Georgetown Climate Center, Institute Associate
- **Libby Zemaitis**, Center for Climate and Energy Solutions (C2ES), Senior Manager, Resilience Programs and Policy
- **Lara Whitely Binder**, Executive Climate Office, King County, Climate Preparedness Manager
- **Ryan Slattery**, Harris Flood Control District, Resilience Division Manager
- **Brendon Haggerty**, Multnomah County Health Department, Healthy Homes and Communities Manager
- **Christian Kamrath**, Miami-Dade Office of Resilience, Climate Adaptation Lead

#### Moderator

- **Vicky Raya**, Executive Climate Office, King County, Climate Equity Manager

### Building Climate Resilience in Community and with Community *Meeting Rooms 13 & 14*

This interactive session will introduce models of inclusive community engagement for climate planning, centering those at the frontline of climate and fossil fuel impacts. Speakers will provide short presentations on models of inclusive, effective, and authentic community partnership, sharing examples from metro Boston, metro Louisville, and Vermont. They will discuss how these models can help drive the transformational change needed in our energy, economic, and cultural systems.

Participants will leave with a greater understanding of Climate Access's "Prepare," a community engagement model designed for local and state government to partner with community members in climate action planning and co-creation, with equity and inclusion as central components. They will also learn how the Resilient Mystic Collaborative (RMC), a voluntary partnership amongst 21 cities and towns in the Mystic River watershed working towards on-the-ground climate resilience solutions, is integrating equity into its decision-making processes. The session will conclude with small group

discussions in which participants will have an ideate on community engagement activities to further procedural equity, distributional equity, and structural equity in local and regional climate planning.

#### Speakers

- **Violeta Duncan**, Duncan Núñez Consulting, Principal
- **Meredith Herr**, Climate Access, Deputy Director

### Climate Change: The Affordable Housing Threat *Multiplier Meeting Room 15*

With an aging affordable housing stock, a housing crisis, growing impacts from climate hazards, and rising insurance costs, most of the country's affordable housing stock cannot withstand our changing climate. In addition to concerns about the quality of affordable housing stock due to its age, physical conditions, and maintenance needs, changing climate conditions are also exacerbating energy burden, health and economic burden, and poor indoor and outdoor air quality, disproportionately affecting residents of affordable housing developments. Addressing climate change impacts, the need to decarbonize, and the already high capital needs of an aging housing stock means many are at risk of losing affordability. We will examine how affordable housing providers can further facilitate a just transition towards a carbon-neutral economy, resilient communities, and strengthened equity frameworks.

We will highlight examples from three communities: New York City, Miami-Dade County, FL, and San Rafael, CA, as well as HUD's recently launched Resilience Assessment tool, demonstrating how local planning and policy tools can help renters and owners improve their recovery and resilience and can help local leaders and developers increase the long-term resiliency and affordability of housing.

#### Speaker/Panelist

- **Katie Wholey**, Arup, Associate, Boston Resilience Leader
- **Kate Hagemann**, City of San Rafael, Climate Adaptation & Resilience Planner
- **Kate Boicourt**, Environmental Defense Fund, Director, Climate Resilient Coasts and Watersheds, New York - New Jersey

### Federal partnerships in adaptation *Grand Ballroom D*

This session will include professionals associated with FEMA, the Department of Defense (DoD), the Department of Energy National Labs (DOE NLs), and the USGS Climate Adaptation Science Centers (CASCs). Each of these agencies is actively engaging communities and relevant stakeholders across a spectrum of climate adaptation activities.

The session will start with short introductions from each group where they will provide a brief overview of their organization's approach to adaptation and current projects.

**Attendees will then be able to rotate through two breakout sessions of their choice:**

- **FEMA:** In this breakout, participants will explore and provide feedback on FEMA's transformation of its Flood Mapping program and prototype flood risk information products. Participants will learn how these products can be incorporated into their own work and help inform how products should be designed and disseminated to meet their decision making needs.



- DoD: In this breakout, participants will discuss how DoD partners with communities to promote climate adaptation, nature-based solutions and conservation that builds climate resilience, and provide feedback about how DoD could better meet community needs.
- National Renewable Energy Laboratory and DOE National Labs: In this breakout, participants will take part in a World Cafe style discussion that allows them to learn about, provide constructive input, and identify potential partnerships with NREL and possibly other National Laboratories
- USGS CASC: In this breakout, participants will learn more about the climate adaptation products, programs, and services offered through the CASCs and how they can access these resources in their own region.

#### Speakers

- **Michelle Covi**, University of Georgia Marine Extension and Georgia Sea Grant, Coastal Resilience DOD Liaison
- **Mindy Clarke**, Center for Environmental Management of Military Lands (CEMML), Colorado State University, Assistant Director
- **Johanna Greenspan-Johnston**, Dewberry/STARR II, Senior Resilience Planner
- **Liz Doris**, The National Renewable Energy Laboratory and Joint Institute for Strategic Energy Analysis, Institute Director
- **Olivia LeDee**, USGS, Regional Administrator
- **David Bascom**, FEMA, Chief, Engineering Resources

**3:00 pm - 3:30 pm Break and Snack**

**3:30 pm - 5:00 pm Session Block #8**

### Beacons of Hope and Justice: Trends and Examples of Transformative Adaptation *Meeting Rooms 1 & 2*

At every NAF since 2017, attendees are invited to collectively help assess the state of US adaptation; to make sense together of changes that are unfolding in the field, and in so doing, to learn important lessons about how to make change happen. Traditionally, this involved a look at the purpose, the people, the practices and the pillars of support (policy and funding) for adaptation.

The session will identify, highlight and explore examples of where human systems are becoming truly equitable; where healing has occurred and justice is being restored; where ecosystems are reestablished and thriving despite change and strain; where economies are in service to wellbeing without sacrificing nature; where minds change, wounds and rifts are healed, and differences are being bridged and embraced as sources of strength.

#### Outcomes:

- A sense of continued evolution and positive progress in the US adaptation field (building on the 2017 Kresge-supported Rising to the Challenge, Together state of the field assessment)
- Concrete examples ("beacons of hope") of transformative adaptation to counter frustration and despair about adaptation not advancing fast or well enough

- A set of lessons learned of key "ingredients" of how to move toward, support and navigate transformational adaptation

#### Session Organizer

- **Joyce Coffee**, Climate Resilience Consulting, President

#### Speakers

- **Susanne Moser**, Susanne Moser Research Consulting, President
- **Jacqueline Patterson**, Chisholm Legacy Project, Founder and Executive Director
- **Suzanne Burnes**, Partnership for Southern Equity, Director, Just Growth Portfolio
- **Jalisa Mauldin**, Faith in Place, Indiana Outreach Coordinator
- **Rev. Brendolyn Jenkins Boseman**, The Imani Group Inc, Executive Director
- **Katherine Egland**, Co-founder, Education, Economics, Environmental, Climate and Health Organization (EEECHO)

### Ethical Space for Indigenous-led Climate Adaptation of Natural Resources *Meeting Room 4*

Indigenous Peoples are key leaders and partners for successful climate adaptation to reduce the vulnerability of natural resources to climate change. Federal and other agencies have recognized that their ability to adapt to climate change depends on building trust and developing strong collaborations with Tribal Nations and other Indigenous Peoples. The United States Forest Service for example, identified Tribal engagement as a key foundation for successful adaptation, and has co-developed pathways for Tribal-led climate adaptation, including the Tribal Forest Protection Act and Tribal Adaptation Menus. Pathways such as these will be most successful when western adaptation practitioners first understand how to collaborate with Indigenous partners in a spirit of respect and reciprocity. The practice of Ethical Space expands western practitioner's understanding of Indigenous worldviews, societal structures, and legislative frameworks to create the space where worldviews can overlap to advance relationships and collaborations with Indigenous partners. This symposium will explore the Ethical Space of collaborative projects between Tribes and other agencies and projects solicited from the audience. Participants will learn about resources to help incorporate Ethical Space into collaborative work between non-Indigenous and Indigenous Peoples and meet others who are active in advancing co-development of climate adaptation actions.

#### Speakers

- **Shelley Crausbay**, US Forest Service, Climate Adaptation Specialist
- **Gwen Bridge**, Indigenous Engagement Institute, Co-founder
- **James Rattling Leaf**, Indigenous Engagement Institute, Co-founder
- **Conception Flores**, US Forest Service, Climate Adaptation Specialist
- **Stephen Handler**, USDA Northern Forests Climate Hub, US Forest Service, and Northern Institute of Applied Climate Science, Acting Deputy Director
- **Kristen Schmitt**, US Forest Service, Climate Adaptation Specialist
- **Sara Smith**, College of Menominee Nation; Midwest CASC, Midwest Tribal Resilience Liaison
- **Stefan Tangen**, USGS North Central Climate Adaptation Science Center, Research Coordinator

## Response and Recovery to Build Resilience in Underserved Communities *Meeting Rooms 5 & 6*

Our session will focus on building resilience to climate impacts in underserved communities to help them thrive not merely survive. By leveraging the power of community and nature, we can create a foundation to help all communities withstand the challenges coming their way. During our discussion and collaboration session, we will share successful examples of resilience building including how to secure funding, use local data, prioritize public and community health approaches, and build resilience before and after disasters. Our collective efforts can build a stronger and more sustainable future for all.

### Speakers

- **Janan Reilly**, Community Infrastructure Resilience Branch, Hazard Mitigation Assistance Division, FEMA HQ, Acting Chief
- **Stevie Adams**, The Nature Conservancy in New York, Senior Climate Adaptation Specialist
- **Jennifer Pepson Elwood**, STARR II/Dewberry, Senior Resilience Planner
- **Deborah Glaser**, The Nature Conservancy CA, Disaster Risk Reduction Project Director
- **Michael McCormick**, Farallon Strategies, President
- **Natalie Kruse Daniels**, Professor, Ohio University
- **Natalie Larsson**, Virginia Tech, Master's Student

## Climate Adaptation: Cost, Equity, and the Impact of Litigation on Funding *Meeting Room 7*

Adaptation covers a broad range of sectors from infrastructure to public health. Each of these sectors comes with a price tag that will cost public entities hundreds of millions over the next two decades. This session provides attendees with key considerations to address adaptation costs from a neighborhood level to a state government level. Building on state-level examples in Pennsylvania, Minnesota, and Wisconsin and county-level examples in Colorado and California, the session provides attendees with the considerations required to develop a true cost of climate change and how to approach determining who will pay for the impacts of climate change. The panel format will provide attendees with perspectives from a local non-profit addressing climate equity and grassroots organizing, a national nonprofit focused on how to pay for adaptation, a young professional addressing adaptation for future generations, and a global consultant working with clients to calculate adaptation costs. The panelists will provide attendees with a toolset of questions and approaches they can utilize after the session to develop cost-effective, actionable approaches to adaptation. Included in this toolkit will be equity considerations across multiple sectors, generational considerations, localization impacts, and an evaluation of whether climate litigation is an appropriate approach for consideration.

### Speakers

- **Iyla Shornstein**, Center for Climate Integrity, Political Director, State and Local Programs
- **Tee McClenty**, MN350 & MN350 Action, Executive Director
- **Anna Poulton**, Resilient Analytics, Inc, Data Analyst

## Implementing the National Resilience Framework: Recommendations from the Practitioner Community *Meeting Rooms 8 & 9*

In September 2023 the U.S. Government released its first ever National Climate Resilience Framework, establishing a vision for a climate resilient nation and guidance for resilience-related activities and investments by the federal government and its partners. The Framework will be presented in more detail in a NAF session earlier the same day (8:30-10am). To make this framework actionable, coordination needs to occur between all levels of government as well as with non-governmental partners from many different sectors. This session will focus on how implementation of the National Resilience Framework is taking shape, and will source recommendations from participants on priority areas and activities. It will include an overview of the Framework by some of its authors from the White House Council on Environmental Quality, followed by a panel of representatives from nonprofits that have worked with Tribes and agencies to provide insight into building stronger cross-sector partnerships to implement the National Resilience Framework and scale adaptation impact. Panelists will be drawn from the Wildlife Conservation Society's Climate Adaptation Fund (CAF) grantees that have successfully implemented adaptation projects in partnership with government agencies. The session will close with breakouts where participants will share their experience and offer recommendations on how to make the Framework actionable. Recommendations from the breakouts will contribute to an effort to compile and propose priorities for the implementation of the Framework.

### Speakers

- **Lydia Olander**, Duke University, Program Director
- **Liz Tully**, Climate Resilience Fund, Program Officer
- **Maria Janowiak**, US Forest Service, Acting Director, USDA Northern Forests Climate Hub and Northern Institute of Applied Climate Science
- **Rebecca Quiñonez-Piñón**, National Wildlife Federation, Climate-Resilient Habitats, Program Director; Monarch Recovery Strategist
- **Karen Solas**, Mississippi Parks Connection, Stewardship Director

## Gaming for Justice: How Dungeons & Dragons Supports Youth Freedom Dreaming Environmental Justice into Reality *Meeting Rooms 10 & 11*

Storytelling is an essential method of communication that encodes knowledge, histories, ways of being, and hopes and visions for the future. In this time of climate anxiety, we need narratives of joy and ways to express ourselves, explore identity, and imagine new worlds together. Mycelium Youth Network's Gaming for Justice program creates that space by gamifying racial, environmental, and social justice topics to build an intergenerational collaboration that sparks awareness and emboldens youth to demand and make a more just world. Gaming for Justice is grounded in the fantasy realm but empowers youth to take what they've developed and learned into reality.

Our games envision a world where youth are freedom dreamers, visionaries, and activists through a culturally-responsive and artistically rich gaming experience. In each session, youth engage

with different adventures, narrated, illustrated and soundtracked by local artists, that address Bay Area-centered racial, environmental, and social topics like the deforestation of oak trees, electrification, pollution and water quality, gentrification and redlining, homelessness, and others.

For our conference presentation, we will discuss how the Gaming for Justice program was formed, share the importance of radical imagination to the climate justice movement, and lead participants through the process of character creation.

#### Speakers

- **Marcy Brown**, Mycelium Youth Network, Gaming for Justice Coordinator & Lead Storyteller
- **Lil Milagro Henriquez**, Mycelium Youth Network, Executive Director

### The Role of Trees and Forests as Multi-Benefit Adaptation Solutions *Meeting Rooms 13 & 14*

Organized by Mississippi Park Connection, UN Environment Programme (UNEP), the USDA National Agroforestry Center, and Trust for Public Land, this session aims to strengthen awareness of the opportunities and challenges associated with harnessing the power of forests for climate change adaptation and resilience.

Join us to explore insights from diverse forestry projects that highlight best practices, methodologies, funding sources, and approaches for enhancing climate resilience across urban and natural settings, while also highlighting community engagement and generating benefits beyond adaptation.

The session will feature four distinct presentations followed by an interactive breakout session. The presentations will explore 1) collaborative efforts in creating an experimental forest to test climate adaptation and assisted migration, with preliminary results; 2) best practices of forestry ecosystem-based adaptation (EbA), showcasing examples to reduce communities' vulnerability to climate change; 3) an urban forestry fund that will support tree planting at elementary schools; and 4) community agroforestry, illustrating its potential to enhance resilience in urban and suburban areas

The session is designed to be interactive, and presenters are seeking valuable input from the audience members, tapping into the collective brain trust in the room while generating further insights and sharing lessons and best practices.

#### Speakers

- **Marielle Mateo**, Mississippi Park Connection
- **Emma Vanhdy**, Mississippi Park Connection, Volunteer Coordinator
- **Katherine Favor**, USDA National Agroforestry Center, Agroforestry Climate Hubs Fellow
- **Brendan Shane**, Trust for Public Land, Climate Director, Land and People Lab

### Innovations in Federal Climate Research Funding for Frontline Communities *Meeting Room 15*

It remains challenging for communities and organizations with limited capacity to access, apply for and manage federal funding. Nevertheless, as many smaller community-based organizations (CBOs) have deep trusted relationships and comprehensive understanding of their community's interests they are uniquely

positioned to lead community-centered climate adaptation. The Climate Adaptation Partnerships (CAP) program has experimented with a new funding and partnership model that disburses small grants to front-line CBOs through its network of regionally based teams in order to support their climate adaptation efforts. CAP advances climate adaptation in multi-state regions, bringing together climate expertise from research institutions, nonprofits, state/local/Tribal governments and community partners. The intent for small grants is to unite the climate capacity of CAP with the expertise of CBOs and facilitate accessibility of federal funding to frontline communities. This session will share insights from the first wave of CAP small grant programs across four regions. We will host a panel that brings together regional CAP members and their frontline community partners to describe the process and early outcomes, including challenges and opportunities. The session will be discussion-based allowing for thoughtful reflection on the experiences of the panelists and will offer an opportunity for interaction with the audience.

#### Speakers

- **Sean Bath**, NOAA, CAP/RISA Program Manager
- **Adelheid Hermann**, Alaska Center for Climate Assessment and Policy / University of Alaska Fairbanks, Co-Investigator
- **Zack Thill**, Northwest Climate Resilience Collaborative / University of Washington, Program Manager / Research Scientist
- **Katherine Cann**, Consortium for Climate Risk in the Urban Northeast / Rutgers University, Community Climate Resilience Grant Coordinator
- **Corrie Knapp**, Western Water Assessment / University of Wyoming, Associate Professor
- **Oded Holzinger**, Groundwork Hudson Valley, Executive Director and Climate Resilience Planner
- **Chelsea Combest-Friedman**, NOAA CAP/RISA, Director
- **Courtney Osolnik**, Yukon River Inter-Tribal Watershed Council, Environmental Program Coordinator
- **Wes Martel**, Greater Yellowstone Coalition, Senior Wind River Conservation Associate
- **Amasai Jeke**, UTOPIA Washington

#### Session Organizer

- **Genie Bey**, UCAR / NOAA, Program Specialist

### BIL and IRA: How Are Federal Resources Supporting Equitable Place-Based Climate Adaptation?

#### *Grand Ballroom D*

The Bipartisan Infrastructure Law (BIL) and the Inflation Reduction Act (IRA) have unlocked trillions of dollars to support climate adaptation at all scales. It is critical that local governments, tribal governments, and community-based organizations can effectively access and leverage these federal funds and programs to support transformative, customized, and equitable climate adaptation and resilience solutions.

This session provides a collaborative platform for federal agency representatives and on-the-ground implementers to discuss the opportunities and challenges presented by these federal funding sources. In dialogue with each other, panelists will share their personal experiences, institutional knowledge, and unique perspectives particularly focused on how this funding is already and



can continue to support customizable and equitable climate adaptation solutions.

We have three goals for the session: sharing the latest information from federal agencies on BIL and IRA funding; discussing the experience for local communities (including new opportunities and remaining gaps); and discussing what comes next for climate adaptation funding, with a focus on how federal funding can best address the true needs of vulnerable frontline communities.

#### Moderator

- **Kevin Bush**, Principal, The Cadmus Group

#### Speakers

- **Joel Scheraga**, US EPA, Senior Advisor for Climate Adaptation
- **Forbes Tompkins**, White House Council on Environmental Quality, Director for Adaptation and Resilience
- **Mihir Parikh**, U.S. Department of Energy, Building Energy Expert & TA
- **Krystal Laymon**, Federal Emergency Management Agency, Senior Advisor
- **Casi (kc) Callaway**, City of Mobile, Chief Resilience Officer
- **Brian Ambrette**, State of Maine, Governor's Office of Policy Innovation & the Future, Senior Climate Resilience Coordinator
- **Ashby Worley**, The Nature Conservancy, Coastal Climate Adaptation Director

#### Session Organizer

- **Anna McGinn**, Environmental and Energy Study Institute, Policy Manager
- **Cameron Adams**, The Nature Conservancy, Policy Advisor, Climate Adaptation
- **Shana Udvardy**, Union of Concerned Scientists, Senior Climate Resilience Policy Analyst
- **Mihir Parikh**, Enterprise Community Partners, Sr Program Director, Resilience

**5:00 pm - 5:15 pm Break**

**5:15 pm - 6:45 pm Session Block #9**

### Movement and Resilience: Experience Murmurations of Joy *Meeting Room 3*

Dare to restore your spirit. At the end of the day, build adaptation and resilience in your body with a movement session, led by Marcus Young 楊墨. This participatory session is an easy way to connect with community and place. It includes warm-up, liberatory collective movement, and a discussion. We will explore this prompt: Adaptation is a response to changing conditions, more a set of skills put into collective action than a code of knowledge. How does that show up in our bodies and emotions?

Everyone can do it. To join, bring your earbuds and pocket music (phone) with a few awesome songs. We'll have a extra earbuds for those who don't have them.

Through the public movement art work Don't You Feel It Too? (since 2008) we practice liberation in the body as a collective murmuration. We create wild flow and moments of great self-acceptance to remind ourselves: We belong here. With joy, home in our bodies.

#### Speakers

- **Marcus Young**, Ananya Dance Theatre and University of Minnesota and Creative Leadership at Minneapolis College of Art and Design

### Featured Session: Extreme Weather Events: How Marginalized Communities of Color Are Responding *Meeting Rooms 5 & 6*

Join us for an interactive networking event centered around I-DIEM's new documentary, "Muted: Climate Marginalization in America." "Muted" takes viewers on an extraordinary journey through the Deep South, where generations of local knowledge, history, and culture are threatened by climate change. During this session, attendees will hear from the I-DIEM team about the making of the documentary and then will take part in an interactive networking session that includes clips from the film. Participants will explore topics related to the frequency and intensity of extreme weather events and how marginalized communities bear a disproportionate amount of the impact of these events. In this session, participants will be able to:

- Gain a deeper understanding of some of the political and bureaucratic challenges local communities face in implementing climate action to protect their communities.
- Examine the innovative ways communities have been resilient to the damaging effects of extreme weather events.
- Comprehend the historical effects of racialization in the Deep South and how this poses problems for marginalized communities of color to respond.

Participants will learn and forge new connections with those working in the extreme weather resilience space. Light food and non-alcoholic drinks will be served.

*We thank the CO2 Foundation for their support of this session.*

- **Facilitator: Kathryn Braddock**, Scientist, EcoAdapt
- **Facilitator: Daniella Rolle**, CivicSpark Fellow, EcoAdapt
- **Speaker: Antoine B. Richards**, Chief of Staff, I-DIEM

### Grief is Resilience: How Justice-driven Climate Work Starts With Recognizing Loss *Meeting Room 7*

Encountering loss is unavoidable and deeply challenging, especially at work. Leaders working in climate adaptation and environmental planning experience this particularly often – from serving communities facing ecological loss and systemic injustice, to grim outlooks in our research and reporting. When grief & loss faced in workplaces and communities is met with skillfulness and support, we see increases in wellbeing, program effectiveness, and resilience. But to do so, we must equip leaders and workforces with training, tools, and resources to navigate loss confidently.

In this session, participants will recognize how normalizing loss and centering grief are essential components of equitable and transformational climate adaptation and planning work. Presenters will demonstrate tools taught through programs such as Grief at Work and the Good Grief Network (GGN)'s Resilience & Empowerment in a Chaotic Climate and discuss emerging projects that offer key takeaways. Gaining a deeper understanding of grief & loss impacts, attendees will learn tools for transforming climate trauma and leave

with practices to share with colleagues and the communities they serve. This session will also provide attendees an opportunity to pause, reflect, and tend to their own wellbeing amidst a high-energy conference setting.

#### Speaker

- **Ari Simon**, Grief at Work, Founder
- **Anna Weber**, NRDC, Senior Policy Analyst, Environmental Health
- **Makena Wong**, San Mateo County Flood and Sea Level Rise Resiliency District (OneShoreline), Project Manager
- **David Southgate**, Robert Schalkenbach Foundation, Senior Research Associate

### Don't Water it Down: Climate Conversations through Cocktails, Culture, and Hip-Hop *Meeting Room 12*

Since 2019, The Water Collaborative of Greater New Orleans has been exploring innovative ways to discuss climate change and environmental justice in Louisiana. As an organization, we have a vested interest in reaching marginalized and vulnerable communities, yet we also know that we can't reach these groups through typical academic modes of communication. Through Brackish, our Artist Residency Program, we bring musicians, writers, illustrators, and cultural bearers together on an interactive educational journey around the climate crisis and its direct impact on their communities. As a result of the program, we created "Don't Water It Down," combining education, culture, and cocktails to create an engaging and honest space targeting young people. We're taking a unique approach to a working group by doing a live recording of "Don't Water It Down" with our first audience! Typically filmed in a bar, we'll bring the bar to the conference, exploring lessons learned, surprising impacts, and challenges while asking the audience to bring us their most provocative questions while vibing to hip-hop and a cocktail...or two. Participants will walk away with a fresh take on climate communications and storytelling through this experience, and see these pressing topics through the eyes of the creators.

#### Speakers

- **Jessica Dandridge**, The Water Collaborative of Greater New Orleans, Executive Director
- **Deniseea Taylor**, CocktailsbyPop, Owner
- **Josh Owen**, Comftystone, Owner
- **Virginia Hanusik**, Board Member of The Water Collaborative, Self-Employed/Photographer
- **Nesby Phips**, Self-Employed, Owner:Rapper/Visual Artist/DJ

### Featured Session: EPA Networking Session: Connecting with peers on the art and science of adaptation *Grand Ballroom D*

This special session, open to anyone and hosted by the U.S. Environmental Protection Agency's newly-launched Integrated Climate Sciences Division, will provide an opportunity for attendees to network with colleagues, reflect on collective climate adaptation practices, and learn how the U.S. EPA is collaboratively addressing climate adaptation across the nation. Light hors d'oeuvres and a cash bar will be available for participants, as well as raffle prizes.



*Food and beverages covered by EcoAdapt.*

#### Speakers

- **Britta Bierwagen**, U.S. Environmental Protection Agency, Associate Division Director: Integrated Climate Sciences Division
- **Jenna Hartley**, U.S. Environmental Protection Agency, Research Outreach and Communications Specialist
- **Jordan West**, U.S. Environmental Protection Agency, Senior Ecologist
- **Chris Weaver**, U.S. Environmental Protection Agency, Division Director: Integrated Climate Sciences Division

*\*No endorsement of the National Adaptation Forum by EPA is intended or implied*







## DAY 3: Thursday, May 16

### Schedule At-A-Glance

7:30 am - 8:30 am	Registration and Breakfast
8:30 am - 10:00 am	Session Block #10
10:00 am - 10:30 am	Break and Snack
10:30 am - 12:00 pm	Session Block #11
12:00 pm - 12:15 pm	Break and Snack
12:15 pm - 1:15 pm	Closing Plenary and Activity
2:30 pm - 5:00 pm	Crosby Farms field trip (pre-registration required)

7:30 am - 8:30 am: **Registration and Breakfast**

7:30 am - 8:00 am

#### **Guided Meditation and Gentle Movement: Holding Space for Processing NAF, Climate Grief** *Meeting Room 3*

This informal 30-minute session will offer space to pause near the end of a fast-paced conference. Many options will be offered for practicing guided meditation, pranayama (regulating breath) practice, and asana (yoga postures). These transformational healing yoga practices, especially in community, can offer support for resourcing ourselves as climate resilience practitioners. This session will meet you where you are: You will be encouraged to exercise your own agency in discerning what you need in the moment. The intention for this time is to provide a quieter moment among presentations and networking events to slow down, remember you have a body, and to integrate information. Special attention will be given to experiences of climate grief and anxiety that might be present.

No prior experience necessary. A full description of the session can be found on Whova.

#### **Session Organizer**

• Kate Skaggs

8:30 am - 10:00 am **Session Block #10**

#### **Building a more coherent and effective framework for climate services** *Meeting Rooms 1 & 2*

The Federal Government continues to take important steps towards improving the provision of "climate services," supporting a diverse range of partners in taking climate action across the country. From planning, to the financing and ultimate design of specific projects, climate data, tools, and information are foundational inputs to the success of local climate mitigation and adaptation activities. But they only work if they are readily available and usable for their intended audience. This session will highlight key recommendations for federal interagency work in climate services, and how community partnerships and engagement are critical steps in turning climate services into community action. The session will also allow for participants to collaboratively discuss ideas for how the Federal government can best meet the diversity of end user needs, build a framework for coordinating with federal and non-Federal partners, and ensure that users, including disadvantaged and underserved communities, are centered in this work. The discussion from this session will be used to help identify specific actions that can be taken to build a more effective system of climate services for the Nation.

#### **Moderator**

• Sarah Abdelrahim, FEMA, Interagency Policy Lead

#### **Speakers**

- Julian Reyes, US Global Change Research Program, Deputy Director for Services
- Stephanie Santelli, US EPA, Senior Climate Advisor



- **Chris Clavin**, Office of Management and Budget, Senior Policy Advisor for Climate Adaptation and Infrastructure Resilience
- **Bradley Dean**, Council on Environmental Quality, Director for Flood & Resilience Policy

### Sharing our Journeys of Deliberative Science, the Process of Science Co-Production *Meeting Room 4*

This session is dedicated to our individual and shared journeys of the process of science co-production, which we conceptualize as deliberative science. This session will begin with a brief description of what is (and what is not) deliberative science, focusing on relational accountability with partners in scientific endeavors and acknowledging harmful relationships of the past and those that are ongoing. Then, paired or grouped session speakers will share their collective deliberative science journeys from different efforts to co-create knowledge about climate adaptation of heritage places and beings. One example will highlight the journey of a Tribal Historic Preservation Department Head, a national park service cultural resources manager, and a university faculty member in an ongoing effort to develop a process for climate adaptation planning of traditional use areas stewarded by the National Park Service. Another example will highlight the journey of a tribal Wild Rice Cultural Enhancement Program Director in partnership with university faculty members and students learning about climate adaptation from being in relationship with Manoomin (wild rice), a cultural keystone being. The session aims to be open and inclusive, allowing for additional co-learning opportunities to arise through the sharing of audience journeys.

#### Speakers

- **Erin Seekamp**, NC State University, Professor
- **Michael Durglo, Jr.**, Confederated Salish and Kootenai Tribes, Department Head, Tribal Historic Preservation Department
- **William "Joe" Graveen**, Lac du Flambeau Band of Lake Superior Chippewa Indians, Program Manager, Wild Rice Cultural Enhancement Program
- **Mae Davenport**, University of Minnesota, Professor
- **Kathleen Chosa Smith**, Great Lakes Indian Fish and Wildlife Commission and Keweenaw Bay Indian Community, Manoomin Ganawandang

### Satisfying the Appetite for Nature-Based Solutions: Shifting Strategies to Meet Public Demand *Meeting Room 7*

As communities across the country face increasing impacts from a changing climate, there is a growing appetite for using nature and nature-based solutions to adapt and minimize risks to people and ecosystems. However, this relatively new approach to risk reduction requires a coordinated effort and effective communication among researchers, practitioners, and communities to advance nature-based solutions over more traditional, hardened infrastructure. In this session, we will share work from across the country that is advancing nature-based solutions, from quantifying risk mitigation strategies and the multiple ecosystem services benefits of these projects to working with practitioners on building the capacity for design and engineering, to intentional, community-led nature-based adaptation and resilience planning. Speakers will share lessons learned throughout their work, including the most effective community engagement strategies, their measures of success, and

### Featured Session: Building Resilient Coastal Communities: From Actionable Adaptation Plans to Successful Implementation *Meeting Rooms 5 & 6*

As communities work to address the increasing impacts from rising sea levels and flooding, they are planning for an uncertain future and working to implement solutions that will meaningfully reduce risk. With long term investments and recent historic levels of funding from the Bipartisan Infrastructure Law (BIL) and the Inflation Reduction Act (IRA), NOAA and our partners are supporting work to help build capacity, engage communities in resilience planning and projects, and implement adaptation solutions. In this session, NOAA partners will discuss their experiences in planning for adaptation including meaningful community involvement and then implementation of these plans. NOAA and other funding partners will facilitate this discussion with practitioners to discuss how they are using NOAA resources and funding to advance adaptation work through the pipeline from planning to implementation, including integrating nature-based solutions. Lessons and best practices will be shared from practitioners on how to assess risk including uncertainty, how to center equity and meaningfully engage communities, and how to design and implement effective adaptation work. Participants will also have the opportunity to discuss challenges and gaps and share ideas on what more is needed to help communities advance from planning to action.



#### Speakers

- **Jackie Quataliña Schaeffer**, Alaska Native Tribal Health Consortium (ANTHC), Director of Climate for Climate Initiatives
- **Mackenzie Todd**, North Carolina Department of Environmental Quality, Coastal Resiliency Coordinator
- **Henry Bell**, Washington State Department of Ecology, Coastal Planner
- **Gini Breidenbach**, Minnesota Land Trust, Restoration Program Manager

#### Facilitators

- **Lori Cary-Kothera**, Office of Coastal Management, National Oceanic and Atmospheric Administration, Science and Geospatial Operations Manager
- **Mirjam Kuzee**, National Fish and Wildlife Foundation (NFWF), Program Director Coastal Resilience
- **Melis Miura Ökter**, NOAA Office for Coastal Management, Resilience Specialist

#### Session Organizer

- **Becky Smyth**, NOAA Office for Coastal Management, West Coast Regional Director

key barriers to the implementation of nature-based solutions. We will highlight the shared commonalities across the country as well as localized differences to better understand how we can increase the pace and scale of this work while staying true to the local communities and conditions.

### Speakers

- **Dr. Nfamara K Dampha**, The Institute on the Environment University of Minnesota, Lead Scientist and Natural Capital Project Director
- **Elizabeth Fly**, The Nature Conservancy, South Carolina, Director of Resilience & Ocean Conservation
- **Robert Colón**, Miami-Dade County, Resiliency Coordinator
- **Heidi Nutters**, San Francisco Estuary Partnership, Senior Program Manager
- **Dane Lazarus**, University of Southern California Sea Grant, Science, Research, and Policy Specialist

## Planning, Implementing, and Evaluating Successful Adaptation and Resilience Projects Special Session

*Meeting Rooms 8 & 9*

Regardless of where we are in the adaptation and resilience planning process, how do we support successful adaptation projects that are effective and provide the intended benefits? How can we build in metrics, track progress, and assess how we've been successful?

Evaluation is a key component in every climate adaptation and resilience project but can be challenging to build into a project's lifecycle. This session creates an intentional space for discussing strategies and challenges in incorporating evaluation into adaptation and resilience planning and implementation. A mix of presentations and training will explore best practices and case studies for evaluation within vulnerability assessments, prioritizing risks and selecting indicators to measure progress, identifying equitable adaptation alternatives, as well as selecting and evaluating strategies and measuring outcomes.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

### Speakers

- **AnnaClaire Marley**, ERG, Climate Resilience and Data Specialist
- **Tess Sprague**, Brown and Caldwell, Water Resources Climate & Resilience Lead, Planning and Policy
- **Lindsay Willson**, CDM Smith, Environmental Scientist
- **Maité Duquela**, Climate Resilience Consultant

### Session Organizer

- **Alec Appelbaum**, AllBeforeUs, LLC, Storycatcher
- **Matthew Lettrich**, ECS in support of NOAA Fisheries Office of Science and Technology, Protected Species Climate Vulnerability Assessment Lead
- **Rachel Johnson**, Herrera Environmental Consultants, Water Resources Engineer

## Heeding the Call: Health Professionals' Approach to Community Climate Adaptation, Resilience, and Equity

*Meeting Rooms 10 & 11*

Climate change is a global health crisis. As some of the most abundant and most trusted global professions, health professionals are critical partners in climate adaptation efforts. Minnesota health professionals recognize the interconnectedness between people's health and the health of the environment and are acting to improve these systems. This symposium exemplifies how climate adaptation

specialists, environmentalists, and health professionals can partner to address community needs, health, and climate change/environmental issues.

The panel will highlight the work of five health professionals in this space, including an approach to addressing climate adaptation literacy, community resilience strategies, disaster preparedness, decarbonizing the health sector, and equitable movement building.

Attendees can expect to come away with an understanding of the advantages of using a transdisciplinary approach to address the effects of climate change through adaptation; be able to describe reasons health professionals should be partners in the implementation of adaptation and resilience strategies; identify where health professionals may be valuable partners in their work; and realize the importance of community-centered design in adaptation, resilience, and mitigation projects.

### Speakers

- **Nathan Meyer PhD**, University of Minnesota Climate Adaptation Partnership, Associate Director and Extension Program Leader
- **Teddie Potter**, University of Minnesota, School of Nursing, PhD Transformational Studies; Clinical Professor; Director of the Center for Planetary Health and Environmental Justice;
- **Jo Bjorgaard**, University of Minnesota, School of Nursing; M Health Fairview, Doctor of Nursing Practice student, Registered Nurse
- **Catherine Harrison**, University of Minnesota, Health Emergency Response Office, Deputy Director of Health Emergency Response Office
- **Kent Boyd**, University of Minnesota, School of Nursing; Minnesota Climate Adaptation Partnership, Doctor of Nursing Practice student, Registered Nurse
- **Kristi White PhD**, University of Minnesota, School of Medicine, Board Certified Clinical Health Psychologist, Assistant Professor

## Future Conditions Meets the Frontlines *Meeting Room 12*

The future conditions that many thought to be unlikely in our lifetime are here. Climate change is increasing risk for people and communities. Changes in population patterns, land use, and design all affect risk. Most importantly, frontline communities bear the worst effects of climate change. As storms and other climate impacts grow more dynamic, communities need access to scientific information to make risk-informed decisions.

This session will be a panel discussion between representatives from the Menominee Indian Tribe of Wisconsin the Bureau of Indian Affairs (BIA), FEMA, NOAA's Great Lakes Integrated Sciences and Assessments (GLISA), the Institute for Tribal Environmental Professionals (ITEP) and the American Planning Association (APA). The panel will share their experiences and how they and their organizations will prepare for future conditions in frontline communities. Topics will include climate migration, coordination, Tribal climate planning, place-based climate adaptation, and voluntary community-driven relocation. Participants will be able to share their experiences, collaborate, and pose questions to the panel. This will let them drive the conversation.

Participants will learn how frontline and Tribal communities are adapting to future conditions. They will also receive a list of tools, information, and data they can bring back to their communities.

### Moderator

- **Peter Herrick, Jr.**, FEMA, Communications Strategy Branch Chief

**Speakers**

- **Kimberly Calloway**, Detroit Water & Sewerage Department, Operations Program Manager
- **Dakota Fisher**, Federal Emergency Management Agency, Interagency Project Manager
- **Robert Blake**, Solar Bear, CEO and Founder
- **Joseph DeAngelis**, American Planning Association (APA), Research Manager, Grant-Funded Projects

**Doing things differently: Adaptive adaptation for natural resource management** *Meeting Rooms 13 & 14*

Natural resource managers are responsible for stewarding fish, wildlife, lands, and waters to benefit our communities while preserving our natural heritage. Yet the world is changing – ecosystems look different than they did 20 years ago, communities have different needs, and temperature and precipitation patterns are shifting. As old approaches become less effective, the management and scientific communities have needed to develop new strategies for addressing the growing threats of climate change and human development.

In this session, we will share stories of on-the-ground climate adaptation – the tools people use, the challenges they face, and the lessons they've learned. Speakers from federal and state agencies, funding organizations and universities will share their experiences in developing new approaches to management, planning, and funding. They will provide behind-the-scenes looks at how new climate adaptation strategies are developed, improved upon, and mainstreamed, and will share actionable tips to ensure innovation is effective. After the presentations, audience members will get to meet with speakers in small groups through World Café-style discussions to further explore the presented topics. We hope audiences will walk away with an appreciation for the new adaptation approaches being undertaken across the Nation, and gain insights into solutions for their own challenges.

**Speakers**

- **Suzi Clark**, University of Minnesota Climate Adaptation Partnership, Climate Adaptation & Resilience Extension Educator
- **Chris Hoving**, Michigan DNR, Wildlife
- **Sarah David**, Wildlife Conservation Society Climate Adaptation Fund, Program Manager
- **Holly Embke**, U.S. Geological Survey Midwest Climate Adaptation Science Center

**Inclusive walk audits: Adapting a transportation planning tool to enable walking in a warming world** *Meeting Room 15*

We need more people to walk for transportation to fight climate change, but climate change is increasingly making walking less comfortable, resulting in a vicious cycle. People walking are suffering the impact of the heat, poor air quality, and extreme weather associated with climate change, leading many to drive rather than walk, even relatively short distances, thereby further contributing to climate change. Those who do not have the option to drive are disproportionately people with disabilities and people with low incomes. We can break the cycle and make walking a more comfortable and safe option. The field of transportation planning already has a proven (and fun!) tool for bringing together government decision makers and the most impacted members of the public to

focus attention on the needs of people walking: the walk audit. Adaptation practitioners, advocates, and community members can use this tool to build awareness and support for adaptation actions on public streets. Join us for an interactive training to learn how to lead an inclusive walk audit. This session will include a half-mile walk roundtrip from the RiverCentre. We'll share best practices and welcome your ideas on ways to leverage walk audits as a tool for adaptation.

**Speakers**

- **Maria Wardoku**, Alta Planning + Design, Planning Associate
- **Matthew Dyr Dahl**, Alta Planning + Design, Senior Planning Associate
- **Ellen Pillsbury**, Minnesota Department of Health, Active Transportation Coordinator

**Neighbouring for Climate: A Toolkit to Support Climate Action on Your Street** *Grand Ballroom D*

When disaster strikes, who better to call upon than your neighbours? When the City of Edmonton (Alberta, Canada) was developing its Adaptation strategy in 2017, staff became inspired by community programs designed to connect neighbours with neighbours. Co-created with community members in the fall of 2022, Neighbouring for Climate ([edmonton.ca/climateneighbours](http://edmonton.ca/climateneighbours)) is a toolkit of action cards to help make climate resilience in a neighbourhood as easy as possible, where neighbours select actions that work best for their local assets, skills and ideas. Inclusive and accessible, the program includes actions that anyone can do, regardless of age, ability, resources or comfort – an entry point to climate adaptation for everyone interested. This participatory session will provide an overview of the program, the co-design process to develop it, future plans for expansion, and an opportunity to test out the program toolkit. Working together, communities can be strengthened, neighborhoods can adapt and citizens can build confidence in their ability to be resilient to climate change.

**Speaker**

- **Sarah Danahy**, O2 Planning and Design Inc., Engagement & Communication Design Lead

**10:00 am - 10:30 am: Break and Snack**

**10:30 am - 12:00 pm: Session Block #11**

**All Roads Lead to Climate Adaptation in the Transportation Sector** *Meeting Rooms 1 & 2*

Transportation networks – from state highways to bike paths to light rail – serve as connective tissue for communities. They help us get to work, visit friends or relatives, deliver goods, and serve as emergency access routes. Climate change poses threats to the many different physical components of the transportation system and threatens this network's key roles in and across communities: access and connection. Transportation systems impacts are felt across an entire community, even far away from the impacted location.

Through a moderated panel discussion, we will explore how transportation agencies at the local, regional, and state scale, are working to understand their network's vulnerability to climate change and how to adapt their systems to prepare for the future. This



will include work by: The Santa Clara Valley Transportation Authority, which recently completed a Climate Action and Adaptation Plan including strategies to adapt infrastructure and operations for bus, light rail, and paratransit services; the Transportation Authority of Marin, a congestion management agency developing a countywide implementation plan; the California DOT, working with District engineers to ensure uptake of climate vulnerability assessment findings; and the Minnesota DOT, which grapples with warming winters and wildfires through development of a Resilience Improvement Plan.

### Speakers

- **Juliette Finzi Hart**, Pathways Climate Institute, Director, Science Policy and Engagement
- **Lani Ho**, Santa Clara Valley Transportation Authority, Senior Environmental Planner
- **Sierra Ramer**, Pathways Climate Institute, Environmental Scientist and Anthropologist
- **Odemi Ibrahim**, Caltrans, Division of Transportation Planning, Climate Change Planner
- **Jack Hogan**, Arup, Associate Climate Risk and Resilience Engineer
- **Brian Shekilton**, Minnesota Department of Transportation, Principal Climate & Resilience Planner
- **Mikaela Hiatt**, Transportation Authority of Marin, Associate Transportation Planner
- **Mike Mak**, Pathways Climate Institute, Director, Innovation, Flood Risk and Climate Adaptation

### Supporting states, territories, and Tribal Nations integrate climate change adaptation into conservation action planning *Meeting Room 4*

Climate resilience and adaptation planning is crucial for conserving the fish and wildlife of US states, territories, and Tribal Nations, but the extent to which climate change is addressed in conservation and wildlife action plans varies considerably. Multiple climate tools and resources have been developed to assist conservation coordinators incorporate climate change and adaptive management into their action plans. The upcoming federally mandated 2025 revisions to state wildlife action plans (SWAPs) provide motivation and a framework for analysis for conservation and wildlife planning. This interactive session will cover state, territory and Tribal Nation perspectives on the challenges and successes of incorporation of climate change adaptation into their conservation and wildlife action planning, as well as the various tools, approaches and information offered by federal government agencies to assist in this effort. Examples of these tools and services include visualization of climate projections, summarization of vulnerability indices and niche models, and assessment of threats to ecosystem and species conservation. There will also be a discussion on opportunities for other organizations active in wildlife action planning to benefit from these tools and resources, and will provide insight into how these have already been used to or will advance climate adaptation practice.

### Speakers

- **Steph Courtney**, United South and Eastern Tribes, Inc, Assistant Climate Science Liaison
- **Hailey Shanovich**, Southeast Climate Adaptation Science Center, Postdoctoral Fellow

- **Dolly Na-Yemeh**, South Central Climate Adaptation Science Center, Climate Adaptation Specialist
- **Hugh Ratcliffe**, Midwest Climate Adaptation Science Center, Climate Adaptation Associate
- **Caleb Hickman**, Eastern Band of Cherokee Indians, Supervisory Fish and Wildlife Biologist
- **Chris Hoving**, Michigan DNR, Adaptation Specialist
- **Jacob Blandford**, Association of Fish and Wildlife Agencies, Climate Adaptation Program Manager

### Session Organizers

- **Katherine Smith**, U.S. Geological Survey - Southeast Climate Adaptation Science Center, Federal Director
- **Marta Lyons**, USGS Midwest Climate Adaptation Science Center, Ecologist
- **Paul Armsworth**, University of Tennessee - Knoxville, Professor

### Ensure Equity in Climate Action: How to leverage Public Health to support your adaptation work *Meeting Rooms 5 & 6*

This interactive session is intended for any climate adaptation practitioner who wants to learn how to make adaptation initiatives more equitable with the help of local health departments (LHDs). After a series of lightning talks with LHD officials from around the country on their successful collaborations with other agencies on climate adaptation initiatives, the room will break into small groups to brainstorm barriers, facilitators, and best practices for integrating local public health considerations and practitioners within climate change adaptation plans and projects. By the end of the session, participants will have an increased awareness of the climate adaptation support available from LHDs, as well as the opportunity to discuss how LHDs could support their own climate adaptation initiatives with peers and public health practitioners during the small group discussions. Group discussions will contribute to research conducted by the University of Washington and the National Association of City and County Health Officials (NACCHO) on factors that influence the involvement of LHDs and the incorporation of public health considerations in local climate change initiatives.

### Speakers

- **Abigail Phillips**, Saint Paul Ramsey County Public Health, Climate and Health Planner
- **Ashley Hawes**, Austin Public Health, Disaster Epidemiologist
- **Bradley Kramer**, Public Health - Seattle & King County, Climate + Health Equity Initiative Program Manager
- **Carolyn Olson**, NYC Department of Health and Mental Hygiene, Assistant Commissioner
- **Kyle Fliflet**, Stanislaus County Health Services Agency, Emergency Preparedness Manager
- **Kathleen Moloney**, University of Washington, Research Scientist
- **Mary Hannah Smith**, University of Washington, Research Coordinator

### Fund, Plan, and Build More Equitable Water Infrastructure and Water Utilities *Meeting Room 7*

Communities around the country are experiencing more frequent severe storms and flooding as a result of climate change. These flood risks, when paired with degraded water quality from urbanization, represent one of the greatest adaptation challenges facing communities today. Participants will come away from this session with an understanding of how to: request technical assistance and

funding from the EPA and the EFC program; implement inclusive, community-driven stormwater management planning and green infrastructure implementation; and build a stormwater utility to address flooding or other climate hazards. This session will be made up of the following four oral presentations with time for audience Q&A at the end:

- Building Capacity for Funding and Finance for Climate-Resilient Water Infrastructure - Bill Schleizer
- One Block at a Time: equitable adaptation through green infrastructure - Madison Rodman
- The New Orleans Water Justice Fund: Building The First Community Led and Developed Stormwater Utility - Jessica Dandridge

#### Speakers

- **Bill Schleizer**, Delta Institute, CEO
- **Jessica Dandridge**, The Water Collaborative of Greater New Orleans, Executive Director
- **Madison Rodman**, University of Minnesota Sea Grant Program, Resilience Extension Educator

### Appreciative Inquiry Workshop: Hands On Learning from the Strengths-Based Approach of Tucson Resilient Together *Meeting Rooms 13 & 14*

Join us for an engaging and interactive session that delves into the innovative and inclusive approach taken by the City of Tucson in addressing climate change while centering equity and building community partnerships, which is represented in the climate action and adaptation plan known as "Tucson Resilient Together."

Our session will spotlight the groundbreaking community engagement strategy, emphasizing targeted universalism and a commitment to reaching those often left out of conventional engagement processes. We will explore how this approach leverages the strengths and experiences of frontline communities to create a climate action and adaptation plan that genuinely represents the voices of residents who are most vulnerable to climate impacts.

The heart of our workshop lies in the application of Appreciative Inquiry, an approach centered on highlighting strengths, successes, and collective vision. Through hands-on activities and discussions, attendees will gain practical insights into fostering relationships, ensuring equitable decision-making, and mobilizing networks of trusted community partners. It is similar to the World Café format, and will allow you to share best practices in multiple focus areas.

Be prepared to participate actively, share ideas, and leave inspired to take a strengths-based approach in your own endeavors.

#### Speakers

- **Chris Rhie**, Rhie Planning LLC, Founder and Principal
- **Fátima Luna**, City of Tucson, Chief Resilience Officer
- **Kate Saunders**, Living Streets Alliance, Community Engagement Coordinator
- **Jeremiah Dean**, City of Tucson, Lead Planner
- **Louis Spanias**, Cumming Group, Senior Sustainability Manager

### Solve a Climate Adaptation Problem with Behavior Change *Meeting Rooms 10 & 11*

How do you encourage people to respond to climate health messages and reduce their risk? The key is to feel that they can

actually do something and that their action matters—what behavioral scientists call perceived behavioral control and response efficacy, respectively. In this hands-on solutions session, you'll solve two communications adaptation problems as a way to learn and apply behavior change skills. You'll be given a climate health problem such as extreme heat, flooding, or air pollution, learn evidence-based behavior change tools useful in messaging what the public can do to reduce climate health risks, and brainstorm solutions. Presenters from the CDC will discuss how this training was implemented and used by public health officials.

Specifically, you'll be given a problem statement, known barriers and benefits to adaptation action for frontline and other communities, behavior change tools, and a solutions worksheet. Then you'll develop your solution. The goal is to train climate adaptation practitioners in applying behavior change in their work. This trans-disciplinary and interdisciplinary training includes short talks, small-group exercises, and discussion. Expected outcomes are increased understanding of how to apply behavior change to adaptation communication.

#### Speakers

- **Caroly Shumway**, Center for Behavior and Climate, Director
- **Kat Sisler**, CDC, Health Scientist
- **Evan Mallen**, CDC, ORISE Fellow
- **Ana Paula Pohl Duarte**, CDC, CDC Fellow

### Living, Learning, and Leading Practices in Climate Adaptation from the Water Sector *Meeting Room 12*

The Water Utility Climate Alliance (WUCA) and its collaborators at the U.S. Environmental Protection Agency and Aspen Global Change Institute will host a workshop on leading practices in climate adaptation from the water sector which are transferable and scalable to other sectors. Participants will learn about WUCA's Leading Practices adaptation framework of five climate action areas: Engage, Understand, Plan, Implement, and Sustain. WUCA and partners will share stories of leading practices from different action areas to help participants advance their own work using similar approaches. These practices are not "one-and-done" solutions and recognize that adaptation is an iterative process. Attendees will collaborate on case study examples and explore how leading practices should be re-visited to ensure they continue to inform and support ongoing work.

Organizers of this workshop believe there is incredible power in learning from each other. This hands-on workshop featuring case study learning, peer-led breakout groups, and collaborative report outs will showcase real-world examples of climate adaptation practices. Attendees are encouraged to bring their own examples and think outside of the box. Organizers and attendees will tackle these case studies using the leading practices framework in order to learn and grow together as climate adaptation professionals.

#### Speakers

- **Julie Vano**, Aspen Global Change Institute, Research Director
- **Keely Brooks**, Southern Nevada Water Authority, Climate Change Policy Analyst
- **Alan Cohn**, New York City Department of Environmental Protection and Staff Chair, Water Utility Climate Alliance (WUCA), Senior Policy and Science Advisor

- **Julia Rockwell**, Philadelphia Water Department and Staff Vice Chair, Water Utility Climate Alliance (WUCA), Manager, Climate Adaptation and Watershed Protection
- **Allison Lau**, Philadelphia Water Department, Climate Change Adaptation Program (CCAP)
- **Geneva Gray**, EPA Creating Resilient Water Utilities (CRWU), Physical Scientist
- **Steve Fries**, EPA's Creating Resilient Water Utilities (CRWU)

#### Facilitators

- **Nash Keyes**, EPA's Creating Resilient Water Utilities (CRWU), ORISE Fellow
- **Alex King**, US Water Alliance, Climate Action Program Manager

### Holistic Resilience Across Urban-Rural-Natural Landscapes Special Session *Meeting Rooms 8 & 9*

Urban, rural, and natural landscapes are inextricably linked, requiring holistic adaptation responses to build resilience; however, this interrelationship is often not considered in decision making. Cities rely on agricultural systems for food and natural systems for water; rural regions rely on markets in urban centers and ecosystem services from natural systems; and natural system health and functionality is affected by the decisions made in the other two systems. When one system takes an action to build resilience without considering the impacts it could cause to the other systems, there can be devastating consequences. These unintended repercussions can be abated through cross-landscape thinking and decision-making, thus protecting and enhancing the resources that keep societies and natural systems working. In this interactive session, we will take a look at three examples of how cross-landscape thinking and decision making is being used to inform planning and design; develop tools to improve drought risk and vulnerability assessments; and improve equitable access to funding and resources.

*Special sessions are organized by members of the American Society of Adaptation Professionals.*

#### Speakers

- **David Savarese**, Jacobs, Urban Planner (Consultant), ASAP Member
- **Gretel Follingstad**, NOAA- NIDS, Drought Planning Program Lead/ Intermountain West Drought Early Warning System
- **Patty Hernandez**, Headwaters Economics, Executive Director

#### Session Organizers

- **Tara-Sky Woodward**
- **Lela Shepherd**, Harris County Flood Control District, NEPA Compliance Manager
- **Trisha Porter**, Resilient Virginia, Director, Programs and Communications

### Is Adaptation Working? *Meeting Room 15*

As we implement adaptation plans and invest in resilience improvements, it is more important than ever to measure and learn from our successes (and failures). Learning if adaptation is working is essential for better long-term outcomes. However, this needed efficacy testing has not become part of standard adaptation practice and there is not minimal research in this area. This session explores what we don't know about adaptation effectiveness and explores examples of methods to evaluate efficacy so we can know more quickly if the adaptation actions we are taking are working.

**This session will include the following presentations, with time for audience Q&A:**

- **A Good Idea or Just an Idea: Getting to Effective Climate Change Adaptation**; Deb Rudnick, EcoAdapt

- **Adaptation Metrics: A Status Update**; Amanda Vargo, ICF
- **From Maps to Metrics: Using a Vulnerability Assessment to set Resiliency Goals**; Megan Houston, Palm Beach County
- **Developing outcome-based performance measures for climate adaptation from local to national scales**; Leslie Brandt, USDA Forest Service

#### Speakers

- **Deb Rudnick**, EcoAdapt, Senior Scientist
- **Amanda Vargo**, ICF, Managing Consultant, Climate Resilience
- **Leslie Brandt**, The U.S. Forest Service - Office of Sustainability and Climate, Assistant Director, Office of Sustainability and Climate
- **Megan Houston**, Palm Beach County, Resilience Director

#### Moderator

- **Lara Hansen**, EcoAdapt, Chief Scientist and Executive Director

### Building it Better - Documenting our Community of Practice Experience of Climate TA Programs

#### *Grand Ballroom D*

As technical assistance programs blossom across the country communities and climate professionals are challenged to leverage these programs to advance communities' climate priorities, build community capacity, and connect lessons learned across programs and geographies. This session will result in a draft white paper on "What Is Working and What Is Not" that is rooted in the experience of the community of practice - both TA seekers and TA providers as they navigate the myriad public and private TA programs. TA recipients from municipalities and community-based organizations will provide direct feedback on what form of technical assistance has met the mark and where room for improvement remains. The perspectives will be represented by presenters from historically underserved communities, Black, Indigenous, and other People of Color with recent experience of participating in public and privately funded TA programs. TA providers will share how they are challenged to transfer products and lessons across communities and programs and what promising practices they see among their peers and in the design of public and private programs.

#### Speakers

- **Anna Marandi**, HDR, Senior Resilience Planner
- **Carolyn Yvellez**, Farallon Strategies, Project and Strategy Lead
- **Tamila Walker**, Ninth Root, Coastal Quest, BAYcan, Director
- **Michael McCormick**, Farallon Strategies, President
- **Robert Macnee**, Climate Resilience Consulting, Deputy Director, Resilience Services

#### Session Organizer

- **Beth Gibbons**, Farallon Strategies, National Resilience Lead

**12:00 pm - 12:15 pm Break and Snack**

**12:15 pm - 1:15 pm Closing Plenary and Activity**

Join your fellow Forum attendees one last time to reflect upon the last three days, set intentions moving forward, and say goodbye until 2026. We promise to keep it interactive, engaging, and brief!

**2:30 pm - 5:00 pm Crosby Farms field trip**

Pre-registration required. Details on page 5.



# Responding to Climate-Amplified Extreme Weather Events

Extreme weather events can have devastating impacts on human communities, infrastructure, and ecosystems. Yet, these impacts will only worsen as extreme weather event frequency, severity, and duration are made worse by climate change and recovery times are shortened, limiting the ability of already resource-limited communities to prepare for the next event.



Therefore, it is critical that extreme weather event preparedness and response are integrated into our climate adaptation strategies. This track features sessions focused on the impacts of climate change on extreme weather frequency and severity, planning and operational approaches to climate-amplified disasters, and building community resilience to disasters. The presentations in this track represent a variety of sectors, hazards, and perspectives. This track is not an exhaustive list of sessions on these topics - we encourage you to explore sessions beyond this list!

We thank the CO2 Foundation for their generous support of this programming.

## Tuesday, May 14

### Session Block #1

- **Climate Resilience for an Aging Nation** *Meeting Room 7*

### Session Block #2

- **Camping 101 and Emergency Preparedness - Making Climate Adaptive Behaviors Engaging through Outdoor Education** *Meeting Rooms 5 & 6*
- **Measuring and Managing the Complex Costs of Wildfires** *Meeting Room 4*

### Session Block #3

- **The Insurance Transition: Advancing financial protection for low-income households in the near- and mid-term** *Meeting Room 7*
- **Addressing Heat at the State and Regional Level** *Meeting Rooms 8 & 9*

### Poster Session

- 14. Using human health outcomes to forecast and respond to extreme heat
- 21. Community Pre-Disaster Recovery Planning on the Island of Kaua'i, Hawai'i

- 65. Supporting Tribal Drought Resilience: NOAA's National Integrated Drought Information System
- 67. The Importance of Adaptation Practitioners in Hazard Mitigation Planning"
- 68. Equity in Hazard Mitigation Planning

## Wednesday, May 15

### Session Block #6

- **Methods for Measuring Extreme Heat and Resources for Addressing It** *Meeting Room 15*

### Advancing Adaptation Policy & Governance

*Meeting Room 7*

- **CAKE Tools Café** *Grand Ballroom D*

The Climate and Hazard Mitigation Planning (CHaMP) Tool: A Regionally Relevant Hazard Mitigation Planning Portal

CDC's Heat & Health Tracker: A Tool to Inform Community Heat Risk and Adaptation Strategies

Climate Central's New Tools for Analyzing and Communicating Sea Level Rise and Coastal Flood Risk

Where is my risk and how can I mitigate it? Understanding climate risk with ClimateCAST

### Session Block #7

- **Adaptation and contaminated sites: compounding vulnerabilities in the toxic flood nexus** (*Meeting Room 4*)

### Session Block #8

- **Response and Recovery to Build Resilience in Underserved Communities** (*Meeting Rooms 5&6*)

### Session Block #9

- **Featured Session: Extreme Weather Events: How Marginalized Communities of Color Are Responding** *Meeting Rooms 5 & 6*

## Thursday, May 16

### Session Block #10

- **Neighboring for Climate: A Toolkit to Support Climate Action on Your Street** *Grand Ballroom D*

### Session Block #11

- **All Roads Lead to Climate Adaptation in the Transportation Sector** *Meeting Rooms 1 & 2*

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# BUILDING A CLIMATE-READY NATION

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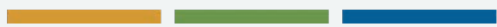


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**USDA Forest Service**

Office of Sustainability and Climate

**Come see us!**

**Tuesday**

- 6:30-8:30 pm: Poster: ASAP and USDA Forest Service Partner to Address Gaps in Workforce Climate Literacy

**Wednesday**

- 10:30-12:00 pm: Tools Café: The USFS Climate Risk Viewer
- 3:30-5:00 pm: Ethical Space for Indigenous-led Climate Adaptation of Natural Resources

**Thursday**

- 10:30-12:00 pm: Is Adaptation Working?
- 2:30-5:00 pm: Crosby Farm Regional Park Field Trip

Or visit our booth!  
[www.fs.usda.gov/managing-land/sustainability-and-climate](http://www.fs.usda.gov/managing-land/sustainability-and-climate)

Connecting to a climate-resilient future

AT&T, FEMA & Argonne National Laboratory created the Climate Risk & Resilience Portal (ClimRR), giving **free access to cutting-edge climate data to anyone who needs it.**

**Learn more at [climrr.anl.gov](http://climrr.anl.gov)**

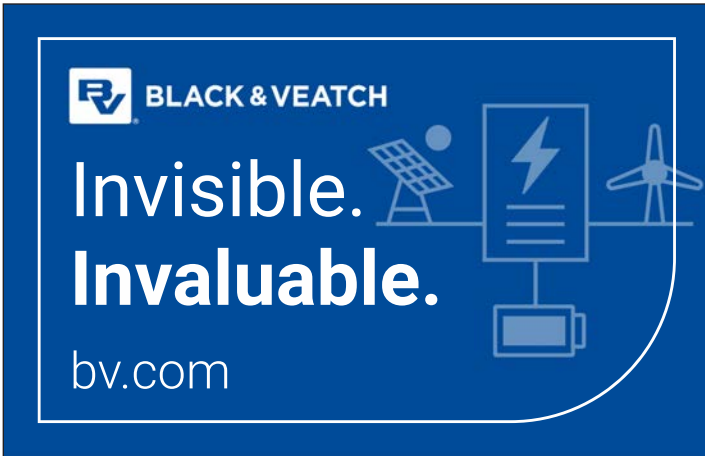
Most of what we know about our changing planet is rooted in NASA's 60+ years of Earth observations. NASA pushes the frontiers of Earth science by inventing and developing new ways to observe our planet and to integrate those observations into a more complete understanding. The science community, decision makers, and citizen scientists worldwide use free and open NASA science data to learn more about climate change and to take local and regional action.

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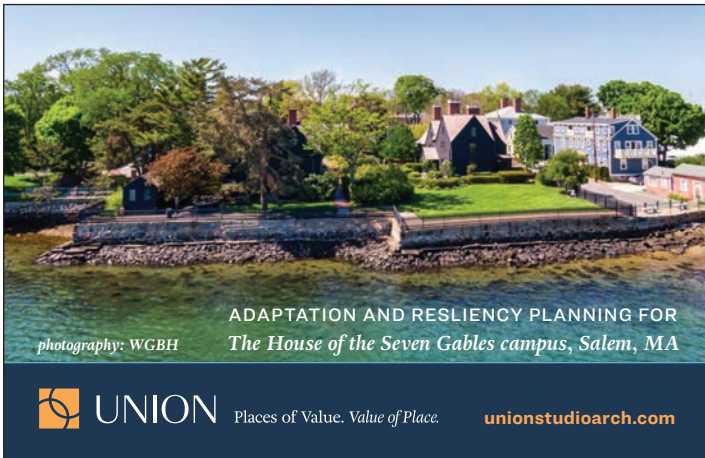
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*The House of the Seven Gables campus, Salem, MA*

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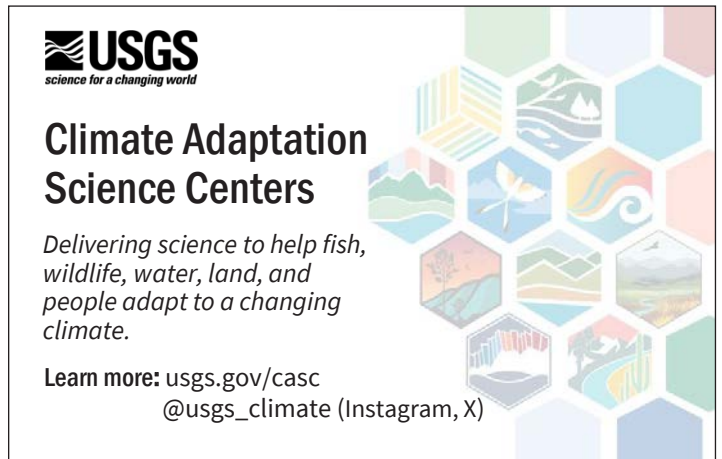


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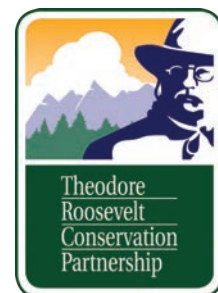
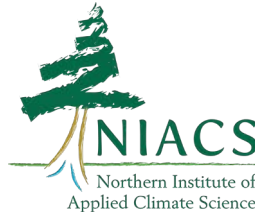
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## Sponsorship Information

### FIELD BUILDER SPONSOR

#### The Kresge Foundation

<https://kresge.org/>

The Kresge Foundation is a private, national foundation that works to expand equity and opportunities in America's cities through grantmaking and social investing in arts and culture, education, environment, health, human services and community development, nationally and in Detroit, Memphis, New Orleans and Fresno. In collaboration with our partners, we help create pathways for people with low incomes to improve their life circumstances and join the economic mainstream.

#### EcoAdapt

**Contact:** Carey Schafer, [carey.schafer@ecoadapt.org](mailto:carey.schafer@ecoadapt.org)

<https://www.ecoadapt.org/>

EcoAdapt, founded by a team of some of the earliest adaptation thinkers and practitioners in the field, has one goal - creating a robust future in the face of climate change. We bring together diverse players to reshape planning and management in response to rapid climate change. EcoAdapt has four programs: 1) Knowledge Exchange, which includes the National Adaptation Forum and the Climate Adaptation Knowledge Exchange (CAKEx.org); 2) Research and Innovation, which focuses on understanding the state of the field, the effectiveness of adaptation solutions, and finding new innovative adaptation approaches; 3) Adaptation Support, where EcoAdapt staff provide customized guidance, tools, and advice, and 4) Training and Workshops, which are designed to build local capacity to develop plans and implement actions that reduce climate vulnerability.

### LEADER SPONSOR

#### NOAA

**Contact:** Paul Taylor, [paul.taylor@noaa.gov](mailto:paul.taylor@noaa.gov)

<https://www.noaa.gov/>

From daily weather forecasts, severe storm warnings, and climate monitoring to fisheries management, coastal restoration and supporting marine commerce, NOAA's products and services support economic vitality and affect more than one-third of America's gross domestic product. NOAA's mission to better understand our natural world and help protect its precious resources extends beyond national borders to monitor global weather and climate, and work with partners around the world.

#### The Packard Foundation

<https://www.packard.org/>

The Packard Foundation works with people and communities to create enduring solutions for just societies and a healthy, resilient natural world.

### CATALYZER SPONSORS

#### CO2 Foundation

**Contact:** Karen Wolfgang, [karen@co2foundation.org](mailto:karen@co2foundation.org)

<https://co2foundation.org>

The mission of the CO2 Foundation is to execute impactful grant-making and communication about the urgent societal risks from extreme weather and the urgent need for evidence-based and effective carbon removal approaches that create a safe, just, and resilient future for all. The Vision of the CO2 Foundation is a near-future of effective climate action, to reduce the risks of catastrophic weather and to catalyze community climate resilience strategies.

#### Walton Family Foundation

<https://www.waltonfamilyfoundation.org/>

The Walton Family Foundation is at its core, a family-led foundation. Three generations of the descendants of our founders, Sam and Helen Walton, and their spouses, work together to lead the foundation and create access to opportunity for people and communities. We work in three areas: improving education, protecting rivers and oceans and the communities they support, and investing in our home region of Northwest Arkansas and the Arkansas-Mississippi Delta. To learn more, visit [waltonfamilyfoundation.org](http://waltonfamilyfoundation.org)

#### The Environmental Protection Agency

**Contact:** Megan Susman, [susman.megan@epa.gov](mailto:susman.megan@epa.gov)

<https://www.epa.gov>

The Center for Public Health and Environmental Assessment (CPHEA), within EPA's Office of Research and Development, provides the science needed to understand the complex interrelationship between people and nature in support of assessments and policies to protect human health and ecological integrity. Within CPHEA sits the Integrated Climate Sciences Division (ICSD). Working with partners nationwide, ICSD's scientists deliver solutions to meet today's most complex environmental and related human health challenges.

## PARTNER SPONSORS

### Bureau of Indian Affairs

**Contact:** John Mosley, John.Mosley@bia.gov  
<https://www.bia.gov/>

The mission of the Branch of Tribal Climate Resilience (TCR) is to support climate preparedness and resilience for all Federally-recognized Tribal Nations and Alaska Native villages through technical and financial assistance, access to scientific resources and educational opportunities. TCR partners with Tribal Nations and Bureau of Indian Affairs (BIA) agencies to incorporate climate considerations into their programs and policies by providing funding, training, technical assistance and organizational support. TCR funding opportunities provide financial support for federally-recognized Tribal Nations and authorized Tribal organizations to build Tribal resilience capacity. Tribes can leverage TCR programs to further support their existing operations, program planning, project design, as well as Indigenous and Traditional Knowledges into their management and protection of Trust resources and Tribal economies. TCR has provided Federally-recognized Tribal leadership, staff, members, and youth to attend and participate in trainings, panels, and networking opportunities offered at the National Adaptation Forum.

### CDM Smith

**Contact:** Lauren Miller, MillerLM@cdmsmith.com  
<http://www.cdmsmith.com>

CDM Smith is a privately owned engineering and construction firm providing legendary client service and smart solutions in environment, water, transportation, energy, and facilities. Passionate about our work and invested in each other, we are inspired to think and driven to solve the world's most complex natural and physical infrastructure challenges. We offer customized and scalable climate risk and adaptive solutions, based on proven research and best practices. Our national climate resilience team includes scientists, planners, economists, and engineers who understand the unique issues of the communities we serve. With a focus on transforming complex climate data into actionable insights, solutions, and tools, we specialize in using climate projections, including sea level rise, rainfall, temperature, and drought and tailor the data to meet specific end-user requirements in various practical applications - climate risk assessments and climate resilient planning, modeling, and design.

### Natural Resources Defense Council

**Contact:** Anna Weber, Aweber@nrdc.org  
<http://www.nrdc.org>

NRDC (the Natural Resources Defense Council) combines the power of more than 3 million members and online activists with the expertise of some 700 scientists, lawyers, and other environmental specialists to confront the climate crisis, protect the planet's wildlife and wild places, and to ensure the rights of all people to clean air, clean water, and healthy communities.

### Pathways Climate Institute

**Contact:** Kris May, kris.may@pathwaysclimate.com  
<https://www.pathwaysclimate.com/>

Pathways Climate Institute was founded in 2016 as a certified woman-owned small business. Our founder, Dr. Kris May, left her job at a large, global engineering company so she could focus her work entirely on climate adaptation and resilience. Our global climate is changing rapidly. Our future will be shaped by increasing temperatures, more intense storm events, larger wildfires, and accelerating sea level rise. The impacts of

climate change are already being felt around the world, with extreme events occurring now that we thought were still decades away. Maintaining viable and livable communities for the next generations requires achieving climate resilience, prioritizing nature-based solutions, accepting the changes that will come, planning for more than one potential future, and increasing our capacity to adapt.

### The Barr Foundation

<https://www.barrfoundation.org/>

The goal of the Barr Foundation's Climate Resilience Program is to increase capacity in Metro Boston to prepare for and adapt to the impacts of climate change. The Climate Resilience Program focuses on three main priorities: 1) building awareness and mobilizing a diverse constituency for action on climate risks, impacts, and resilience strategies, 2) mobilizing key stakeholders to advance equitable policies and resilience plans, and 3) catalyzing momentum through demonstration projects that integrate resilience into the fabric of cities.

### Wilburforce Foundation

<https://wilburforce.org/>

Wilburforce Foundation empowers conservation leaders to protect the irreplaceable lands, waters, and wildlife of western North America. We support and connect organizations and individuals that are committed to protecting wild places and the wildlife that depend on them. We invest in science-based solutions, advocate for responsible policies, and strengthen our grantees' capacities to achieve lasting outcomes.

### The Nature Conservancy

**Contact:** Kim Hall, kimberly.hall@tnc.org  
<https://www.nature.org/en-us/>

Alongside communities, we're urgently clearing obstacles and finding solutions to the climate and biodiversity crises. We are dedicated staff, scientists and members advancing effective, lasting conservation in more than 70 countries and territories. To make the highest possible impact on the climate and biodiversity crises between now and 2030, we're developing breakthrough ideas, amplifying local leaders and influencing policy.

### The McKnight Foundation

<https://www.mcknight.org/>

The Midwest Climate & Energy program at the McKnight Foundation focuses on reducing greenhouse gas emissions, at scale, as quickly as possible in the Midwest. Remaining steadfast to our pursuit of equity and justice bolstered by a healthy democracy, McKnight engages the communities and diverse viewpoints across public and private sectors in the region. We pursue ambitious and equitable climate goals through grants, investments, convenings, and community engagement.

## ADVOCATE SPONSORS

### AT&T

**Contact:** Jessica Filante, jf8360@att.com  
<https://www.att.com/>

At AT&T, we help more than 100 million U.S. families, friends and neighbors, plus nearly 2.5 million businesses, connect to greater possibility. For us, building resilience is about using the best available climate data to help guide decisions about how to protect our telecommunications network and spur adaptation efforts in local communities. We worked with Argonne National Laboratory to model how hazards such as flooding, wildfire risk and drought could change at the



neighborhood level and over the next 30 years under different climate scenarios. These projections are integrated into our systems and processes, allowing AT&T planners and engineers to take climate risk into consideration as they make infrastructure decisions. And we worked with Argonne and FEMA to create the Climate Risk and Resilience Portal (ClimRR), offering free access to granular, forward-looking climate data to anyone who needs it. For more information about AT&T's resilience efforts, please visit [att.com/environment](http://att.com/environment).

### Black & Veatch

**Contact:** Lynne Brockman, [BrockmanLM@BV.com](mailto:BrockmanLM@BV.com)  
<http://www.bv.com>

Black & Veatch is a 100-percent employee-owned global engineering, procurement, consulting and construction company with a more than 100-year track record of innovation in sustainable infrastructure. Since 1915, we have helped our clients improve the lives of people around the world by addressing the resilience and reliability of our most important infrastructure assets. We work with local, state and federal governments, service providers, and private industries to – modernize energy, water and telecommunications infrastructure—protect and restore ecosystems – meet performance and resilience goals – reduce costs and mitigate risk. By partnering closely with clients and their stakeholders we design affordable, practical and resilient climate actions. Our multidisciplinary teams are committed to delivering the outcomes you need and helping you adapt to changing demands and conditions.

### Brown and Caldwell

**Contact:** Tess Sprague, [tsprague@brwnncald.com](mailto:tsprague@brwnncald.com)  
<https://brownandcaldwell.com/>

Headquartered in Walnut Creek, California, Brown and Caldwell is an employee-owned full-service environmental engineering, planning, and construction services firm with 50 offices and over 2,100 professionals across North America and the Pacific. At Brown and Caldwell, we strive to drive positive change in our environment and our world. It's our purpose and our passion. BC helps our clients understand, identify, plan for, and respond to changing climatic conditions. Our approach helps build resilience and a better understanding of the range of potential expected and unexpected impacts for our clients' facilities, operations, and the communities they serve. For more than 75 years, our creative solutions have helped municipalities, private industries, and government agencies successfully overcome their most challenging water and environmental obstacles.

### Cadmus

**Contact:** Victoria Salyers, [Victoria.Salyers@cadmusgroup.com](mailto:Victoria.Salyers@cadmusgroup.com)  
<https://cadmusgroup.com/>

Cadmus is a strategic and technical consultancy compelled to help solve the world's most challenging problems. We assemble outstanding teams of leading experts with an ethos grounded in collaboration and a drive for impact, who work seamlessly across disciplines and leverage transformative technologies to help our clients achieve extraordinary outcomes. Together, we are strengthening society and the natural world. Cadmus' more than 1,000 consultants serve government, commercial, and nongovernmental organizations around the world.

### Climate Resilience Fund

**Contact:** John Nordgren, [john@climateresiliencefund.org](mailto:john@climateresiliencefund.org)  
<https://www.climateresiliencefund.org>

The Climate Resilience Fund (CRF) works with public and private partners to expand investment in adaptation, and leverage resources and expertise

to help society move in a new direction—one where equitable communities, healthy ecosystems, and sustainable economies coexist and thrive.

#### CRF is currently focused on three initiatives:

The Climate Smart Communities Initiative (CSCI), a partnership that advances equitable climate resilience plans and projects through competitive community grants, practitioner training, a Knowledge Sharing Platform, and a comprehensive effort to measure what works.

- The Wildfire Resilience Funders Network, which builds connections and collaboration among philanthropic professionals who are working on wildfire-adapted landscapes and wildfire-resilient communities
- The Resilience Accelerator, a capacity-building program for "Community Champions," the local and regional decision-makers, leaders, and practitioners in at-risk communities who can enable equitable and proactive climate action.

Additional information about CRF can be found at

<http://www.climateresiliencefund.org>

or <https://www.linkedin.com/company/climateresiliencefund>

### ERG

**Contact:** Diana Pietri, [Diana.Pietri@erg.com](mailto:Diana.Pietri@erg.com)  
<http://www.erg.com/>

ERG is an interdisciplinary consulting firm with a mission to build strong and environmentally sustainable communities. We focus on helping clients with a range of projects, including climate resilience and adaptation, risk reduction and mitigation, policy and program development, organizational effectiveness, equity and environmental justice, and participatory engagement. Our multidisciplinary team of climate resilience specialists, planners, environmental and social scientists, economists, geospatial analysts, and communications specialists has helped our clients prepare for climate change for over 15 years. Our team helps develop and implement local, state, national, non-profit, and corporate-level climate change programs. We also design innovative solutions for governance and financing of adaptation projects.

Equity and sustainability are woven into every aspect of ERG's work. Our team designs engaging and participatory processes; provides space for frontline, fence line, disadvantaged and under resourced communities and populations to be heard; and develops responses to reflect a diversity of perspectives.

### Esri

**Contact:** Elena Fetterhoff, [efetterhoff@esri.com](mailto:efetterhoff@esri.com)  
<https://www.esri.com/en-us/home>

Esri, the global market leader in geographic information systems (GIS), provides unparalleled mapping and spatial analytics technology, serving scientific research for over four decades. We are trusted by over 350,000 organizations, including world-renowned agencies. Esri engineers cutting-edge climate solutions, facilitating comprehensive integration and aiding sustainable resource development, climate planning, and risk management. GIS-derived solutions streamline data collection, management, analysis, and sharing, transforming disparate field activities into rich, actionable insights.

### NASA Earth Science Division/Earth Action

**Contact:** Allison Leidner,  
allison.k.leidner@nasa.gov <https://www.nasa.gov/>

Most of what we know about our changing planet is rooted in NASA's 60+ years of Earth observations. NASA pushes the frontiers of Earth science by inventing and developing new ways to observe our planet and to integrate those observations into a more complete understanding. Compelled by the urgency of Earth's rapid change, NASA is applying our understanding of the planet to help people take local and regional action to address societal challenges.

### National Wildlife Federation

**Contact:** Jessie Ritter, [ritterj@nwf.org](mailto:ritterj@nwf.org) <https://www.nwf.org/>

Founded in 1936, the National Wildlife Federation is America's largest and most trusted grassroots conservation organization with 52 state and territorial affiliates and more than seven million members and supporters, including hunters, anglers, gardeners, birders, hikers, campers, paddlers, and outdoor enthusiasts of all stripes. The Federation's mission is to unite all Americans to ensure wildlife thrive in our rapidly changing world through programming focused on conserving wildlife, restoring habitats and waterways, expanding outdoor opportunities, connecting children with nature, and addressing the causes and consequences of climate change.

### Pew Charitable Trusts

**Contact:** Kristiane Huber, [khuber@Pewtrusts.org](mailto:khuber@Pewtrusts.org)  
<https://www.pewtrusts.org/en/>

For more than 75 years, The Pew Charitable Trusts has delved into finding solutions to some of society's most challenging issues. To address the impacts of a changing climate, Pew experts consider multiple policy areas to help lawmakers safeguard their constituents and communities. Pew produces research, identifies best practices, and works alongside state and local leaders to address the fiscal impacts of natural disasters, create resilience plans and policies, implement adaptation strategies, target resources to vulnerable communities, and safeguard habitats that help slow climate change.

### The Trust for Public Land

**Contact:** Taj Schottland, [taj.schottland@tpl.org](mailto:taj.schottland@tpl.org)  
<https://www.tpl.org/>

Trust for Public Land (TPL) is a national nonprofit that works to connect everyone to the benefits and joys of the outdoors. As a leader in equitable access to the outdoors, TPL works with communities to create parks and protect public land where they are needed most. Since 1972, TPL has protected 4 million acres of public land; created 5,420 parks, trails, schoolyards, and iconic outdoor places; raised \$94 billion in public funding for parks and public lands; and brought parks and trails to within a 10-minute walk of home for nearly 9.7 million people. To learn more, visit [tpl.org](http://tpl.org)

### US Forest Service Office of Sustainability and Climate

**Contact:** Leslie Brandt, [Leslie.Brandt@USDA.gov](mailto:Leslie.Brandt@USDA.gov)  
<https://www.fs.usda.gov/managing-land/sc>

The mission of the Forest Service is to sustain the health, diversity, and productivity of the nation's forests and grasslands to meet the needs of present and future generations. The Forest Service manages public lands in the form of national forests and grasslands, provides technical and financial assistance to state, private, and tribal forestry agencies and makes up the largest forestry research organization in the world. The

Forest Service Office of Sustainability and Climate provides information and tools, technical assistance, and policy support on climate change adaptation, carbon stewardship, and sustainable operations for the Forest Service.

### USGS

**Contact:** Olivia LeDee, [oledee@usgs.gov](mailto:oledee@usgs.gov)  
<https://www.usgs.gov>

The U.S. Geological Survey Climate Adaptation Science Centers (CASCs) consist of one national and nine regional centers that cover the United States, the U.S. Caribbean, and the U.S.-Affiliated Pacific Islands. The CASCs bring together scientists, natural resource managers, and Tribal citizens and Indigenous peoples to help fish, wildlife, water, land, and people adapt to changing climate. CASCs use an actionable science model to generate climate science and tools to help partners develop climate adaptation strategies that meet on-the-ground needs.

Regional CASCs serve the unique climate needs of the regions within their footprint. Regional CASCs are federal-consortium partnerships; each CASC is led by one host institution within a larger consortium of universities, research entities, Tribal organizations, and/or non-governmental organizations. Regional CASCs can also host Tribal Resilience Liaisons funded by the Bureau of Indian Affairs Tribal Climate Resilience Program and employed by affiliated Tribal organizations.

### FRIEND SPONSORS

#### Abt Global

**Contact:** Lauren Speer, [Lauren\\_Speer@abtassoc.com](mailto:Lauren_Speer@abtassoc.com)  
<https://www.abtglobal.com>

Abt Global is a consulting and research firm that has combined data and bold thinking to improve the quality of people's lives since 1965. For nearly 60 years, we have partnered with clients and communities to advance equity and innovation—from creating scalable digital solutions and combating infectious diseases, to mitigating climate change and evaluating programs for measurable social impact. Abt collaborates with federal agencies, tribal governments, and foundations on climate change adaptation, resilience support, and research to project and quantify climate impacts. Our global workforce crosses geographies, methods, and disciplines to deliver tailored solutions in health, environmental and social policy, technology, and international development.

#### Adaptation International

**Contact:** Sascha Petersen, [sascha@adaptationinternational.com](mailto:sascha@adaptationinternational.com)  
<https://adaptationinternational.com/>

Founded in 2010, Adaptation International has successfully supported the climate resilience planning efforts with dozens of municipal, Tribal, state, county governments and communities across the country. Our team has more than a decade of experience in climate change science, spatial analysis, public policy, public health, equity, strategic planning, workshop development, and stakeholder engagement and collaboration. We use collaborative approaches to connect the best available science and tools with local and traditional knowledges to empower communities in developing holistic, equitable, and adaptive resilience strategies. Adaptation International believes in the power of communities to look to the future, respond to the challenges of a changing climate, and thrive in the 21st century and beyond.

### Cascadia Consulting Group

**Contact:** P.J. Tillman, [patricia@cascadiaconsulting.com](mailto:patricia@cascadiaconsulting.com)  
<http://www.cascadiaconsulting.com/>

Cascadia Consulting Group is a small, WBE certified consulting firm in business since 1993. We are 65 dedicated experts and administrators working out of main offices in Seattle, Washington and Oakland, California as well as remote stations across the United States. Offering a broad range of interdisciplinary expertise across environmental, health, and community sectors, Cascadia specializes in using science to shape meaningful, defensible, and durable solutions that governments, organizations, and institutions can own now and into the future.

### Antioch's Center for Climate Preparedness and Community Resilience

**Contact:** Nichole Kain, [nkain@antioch.edu](mailto:nkain@antioch.edu)  
<https://www.antioch.edu/centers-institutes/center-climate-preparedness-community-resilience/>

Antioch's Center for Climate Preparedness and Community Resilience delivers applied research, consulting, and education and training. Our approach is solutions oriented, pragmatic, participatory, and inclusive and is based on change leadership best practices and systems thinking. We focus on stakeholder capacity building at the local scale (watershed, municipal, county, region) of preparedness and resilience nationally and internationally, with an explicit awareness of social and climate justice.

### Climate Advisory LLC

**Contact:** Lisa Churchill, [lisa@climateadvisoryllc.com](mailto:lisa@climateadvisoryllc.com)  
<https://climateadvisoryllc.com>

Climate Advisory is a certified woman-owned business that was founded in 2020 by Lisa Churchill. The mission of the firm is to take the mystery out of climate change and make resilience an achievable goal for everyone – no matter where their starting point may be. Lisa has 25+ years of experience in the design field where she served as the VP of Sustainability and Director of Resilience for two large engineering firms before launching her own consultancy. She has an extensive resume of climate change projects within both the public and private sectors and is known for her ability to pair creative thinking with practical solutions. Her training as a paleontologist, with a focus on mass extinctions, has given her a unique perspective on the characteristics of resilient systems.

### Climate Resilience Consulting

**Contact:** Joyce Coffee, [joyce@climateresilienceconsulting.com](mailto:joyce@climateresilienceconsulting.com)  
<https://www.climateresilienceconsulting.com/>

Climate Resilience Consulting's mission is to enable communities, governments and corporations to avoid, prepare for and resist the global and local impacts of climate change. Climate Resilience Consulting envisions a more equitable world with more lives saved and livelihoods enhanced in the face of climate disruption.

### Coastal States Organization

**Contact:** Vidya Balasubramanyam, [vbalasubramanyam@coastalstates.org](mailto:vbalasubramanyam@coastalstates.org)  
<https://www.coastalstates.org>

CSO serves as the collective voice for the nation's coastal States, Commonwealths, and Territories on federal legislative, administrative, and policy issues relating to coastal, Great Lakes, and ocean management. CSO works at the nexus of coastal science research, policy and social science research, outreach, and decision-making — striving to provide coastal communities with tools to inform coastal management and to

improve their capacity to understand, plan for, and respond to changing coasts now and into the future. We use research, outreach, and education to bring the latest science, and policy to coastal managers. By connecting decision-makers with coastal science, social trends, and cutting-edge policy, we help strengthen and preserve ecosystems and communities across the nation.

### Fernleaf

**Contact:** Matt Hutchins, [mhutchins@fernleaf.us](mailto:mhutchins@fernleaf.us)  
<https://fernleaf.us>

Fernleaf is a climate resilience planning firm that specializes in providing communities with accessible, data-informed, and equity-embedded insights. With a team of industry experts, we work directly with all levels of government – from local to federal – to support a deeper understanding of climate vulnerabilities and risks as well as the mitigation and adaptation actions necessary to address them equitably. We bring equity values, decision relevant data, and standards of excellence to every project we work on. Our processes are continually improved, fueled by our values, informed by our clients, and advanced by our best-in-class technology.

### Georgetown Climate Center

**Contact:** Kate Zyla, [zyla@georgetown.edu](mailto:zyla@georgetown.edu)  
<https://www.georgetownclimate.org/>

In the United States, responding to the climate crisis depends on effective partnerships among federal, state, and local governments. When different levels of government collaborate and communicate with each other when they are developing climate and energy policies, they can go farther and faster in achieving durable, equitable, ambitious climate action for the health and welfare of the people across the country.

The Georgetown Climate Center (GCC) was established in 2009 at the request of state leaders who recognized the need to strengthen connections between climate policies and policymakers at all levels of government and to help policymakers develop aligned strategies that work together to address climate change.

We aim to help good ideas make their way into laws and regulations, so we focus on helping federal, state, and local leaders with the messy and complicated business of practical, real world policymaking. GCC serves as a resource to state, federal, and local policymakers who are working to develop policies to reduce greenhouse gas pollution and become more resilient to the effects of climate change, providing legal, policy, and process support to inform policy development.

### H. Gil Peach & Associates, LLC

**Contact:** Hugh Peach, [hgp@adapt.global](mailto:hgp@adapt.global)  
<https://peachandassociates.biz>

We provide research, policy studies and program support, based on our analytic capability and seasoned experience. We are alert to regulatory guidance and relevant legislative direction. Climate informed Verification, Evaluation, Design, Policy, Rate, Low-Income, Decoupling, Organizational, and Planning studies for Government (federal, provincial, state, city) and Utilities (electric, gas, water).

### ICF

**Contact:** Randi Purser, [Randi.Purser@icf.com](mailto:Randi.Purser@icf.com)  
<https://www.icf.com/>

ICF is a global consulting and technology services company with approximately 9,000 employees, but we are not your typical consultants. At ICF, business analysts and policy specialists work together with digital strategists, data scientists and creatives. We combine unmatched



industry expertise with cutting-edge engagement capabilities to help organizations solve their most complex challenges. Since 1969, public and private sector clients have worked with ICF to navigate change and shape the future.

### International Society of Sustainability Professionals

**Contact:** Sarah

Jennings, [sjennings@sustainabilityprofessionals.org](mailto:sjennings@sustainabilityprofessionals.org)

<https://www.sustainabilityprofessionals.org/>

The International Society of Sustainability Professionals (ISSP) is the world's leading network of sustainability professionals. We work together to provide the community, training, and tools needed to meet goals and create sustainable change.

### Land Trust Alliance

**Contact:** Kelly Watkinson, [kwatkinson@lta.org](mailto:kwatkinson@lta.org)

<https://landtrustalliance.org/>

Founded in 1982, the Land Trust Alliance is a national land conservation organization working to save the places people need and love by empowering and mobilizing land trusts in communities across America to conserve land for the benefit of all. The Alliance represents approximately 1,000 member land trusts and affiliates supported by more than 250,000 volunteers and 6.3 million members nationwide. The Alliance is based in Washington, D.C., with staff working in communities across the U.S. Find more information at [www.landtrustalliance.org](http://www.landtrustalliance.org).

### Mathematica

**Tulika Narayan:** [TNarayan@mathematica-mpr.com](mailto:TNarayan@mathematica-mpr.com)

<https://mathematica.org/>

Mathematica strives to bring forth the reliable and precise evidence required to measure impact of climate policies, maximize investments, and improve public well-being. Our innovative analytical tools combined with our policy analysis and evaluation expertise help partners measure progress and enhance the impact of their climate adaptation policies and programs. Mathematica is an employee-owned, mission-driven company with trusted expertise in data science, social science, technology, and advisory services across health, human services, international development, and climate change. We collaborate closely with federal agencies, state and local governments, foundations, businesses, universities, and professional associations to address pressing social issues, improve programs and policy, and drive equitable outcomes.

### Midwest CASC

**Contact:** Jess Del Fiacco, [jdelfiac@umn.edu](mailto:jdelfiac@umn.edu)

<https://mwasc.umn.edu>

The Midwest Climate Adaptation Science Center (MW CASC), is a consortium of research-focused academic, tribal, and non-profit partners working collaboratively with the U.S. Geological Survey (USGS). We team scientists with natural and cultural resource managers to deliver science to help fish, wildlife, water, land, and people adapt to a changing climate.

The MW CASC is hosted by the University of Minnesota and is part of the national USGS Climate Adaptation Science Center network.

### Minnesota Pollution Control Agency

**Contact:** Sharon Stephens, [sharon.stephens@state.mn.us](mailto:sharon.stephens@state.mn.us)

<https://www.pca.state.mn.us/>

The Minnesota Pollution Control Agency is committed to ensuring that every Minnesotan has healthy air, sustainable lands, clean water, and a

better climate. Through the authority of state and federal statutes and guidelines, the agency focuses on preventing and reducing pollution of air, land, and water, and leads Minnesota's efforts to protect against devastating effects of climate change. The MPCA works collaboratively with regulated parties, businesses, governments, organizations, and Minnesota's 11 tribal nations to develop innovative, community-centered approaches that protect our natural resources, improve human health, and foster strong economic growth.

### National League of Cities

**Contact:** Peyton Siler Jones, [siler-jones@nlc.org](mailto:siler-jones@nlc.org)

<https://www.nlc.org/>

The National League of Cities (NLC) is an organization comprised of city, town and village leaders that are focused on improving the quality of life for their current and future constituents.

With nearly 100 years of dedication to the strength and advancement of local governments, NLC has gained the trust and support of more than 2,700 cities across the nation. Our mission is to relentlessly advocate for, and protect the interests of, cities, towns and villages by influencing federal policy, strengthening local leadership and driving innovative solutions.

### National Renewable Energy Laboratory and the NREL Joint Institute for Strategic Energy Analysis

**Contact:** Liz Doris, [Elizabeth.Doris@nrel.gov](mailto:Elizabeth.Doris@nrel.gov)

<https://www.nrel.gov/>

Building on a foundation of robust data and innovative models, NREL uses its energy analysis capabilities and expertise to prepare credible, objective analyses that inform policy and investment decisions as renewable energy and energy efficiency technologies move from innovation through integration.

### Northern Institute of Applied Climate Sciences (NIACS)

**Contact:** Danielle Shannon, [dshannon@mtu.edu](mailto:dshannon@mtu.edu)

<https://www.niacs.org>

The Northern Institute of Applied Climate Science (NIACS) is a collaborative, multi-institutional partnership led by the USDA Forest Service and comprised of Federal, forest sector, conservation, higher education, and tribal organizations. The mission of NIACS is to provide applied ecological, economic, social, and cultural information that can be used in climate adaptation and forest carbon management. The NIACS partnership also provides integral support to the USDA Northern Forests Hub and serves to bring together partners with diverse perspectives to achieve shared goals.

### Parametrix

**Contact:** John Phillips, [JMPhillips@parametrix.com](mailto:JMPhillips@parametrix.com)

<https://www.parametrix.com/>

Helping clients and partners create vibrant, sustainable communities and restoring the health of the planet for future generations.

### PlaceWorks

**Contact:** Katie Hollenbaugh, [khollenbaugh@placeworks.com](mailto:khollenbaugh@placeworks.com)

<http://placeworks.com/>

PlaceWorks is a 100% employee-owned planning, design, and environmental consulting firm. Founded in 1975, PlaceWorks serves both public- and private-sector clients in the fields of climate action and resiliency, environmental review and analysis, comprehensive planning, urban design, landscape architecture, community outreach, and

Geographic Information Systems (GIS). Our talented, multidisciplinary team thrives on working with communities to tackle complex problems and develop workable solutions.

PlaceWorks is committed to working with communities to address climate change at the local and regional level. We prepare innovative but feasible policies and strategies for local sustainability, climate, and energy action plans; adaptation strategies and vulnerability assessments; and other policy documents that address climate change and energy programs.

### Resilient Analytics, Inc

**Contact:** Paul Chinowsky, PChinowsky@resilient-analytics.com  
<https://resilient-analytics.com/>

Resilient Analytics, Inc (RA) is a global leader in climate impact analytics. RA has over two decades of experience providing risk-based analytics focusing on community and infrastructure vulnerability to climate change. RA answers the operational, financial, equity, and policy questions centered on the risks associated with taking a Business-as-Usual approach to climate impacts versus an Adaptation approach. Utilizing GIS-based and data-focused tools, RA deploys platforms that allow clients to query, map, and analyze localized impacts, costs, and adaptation options. Resilient Analytics works with local, state, national, and international governments and agencies. Local experience includes work in Colorado, Florida, and California. State-level studies include work in New York, Pennsylvania, and Wisconsin. National clients include the EPA and non-profits such as the Center for Climate Integrity. Finally, at the international level, RA has worked in over 50 countries with agencies including the United Nations and the World Bank.

### The Environmental Defense Fund

**Contact:** Matthew Kent, mkent@edf.org  
<https://www.edf.org/issue/coastal-protection>

Environmental Defense Fund (EDF) is one of the world's leading international nonprofit organizations that creates transformational solutions to the most serious environmental problems. Among many initiatives, EDF is working to ensure communities along coasts and rivers are resilient to climate change and are safe, equitable and prosperous places to live. Learn more about EDF's Climate Resilient Coasts & Watersheds program here.

### Theodore Roosevelt Conservation Partnership

**Contact:** Tiffany Turner, tturner@trcp.org  
<https://www.trcp.org>

Established in 2002, the Theodore Roosevelt Conservation Partnership (TRCP) is the largest coalition of conservation groups and individuals working together to advance policies and programs that conserve fish and wildlife habitat; increase funding for conservation programs; and provide sustainable access to the outdoors. Drawing from 63 formal organizational partners, the TRCP coalesces the hunting, fishing, and wildlife professional communities to build and advance shared conservation priorities at the state and federal levels. The TRCP leads the Natural Infrastructure Working Group comprised of 24 partners focused on identifying and advancing natural infrastructure solutions within federal and state policy. Learn more at TRCP.org

### Union

**Contact:** Kara Babcock, Kara@unionstudioarch.com  
<https://unionstudioarch.com/>

Union Studio Architecture & Community Design is an emerging leader in climate action planning as its body of work continues to grow with high-profile projects in historic contexts. These include resiliency efforts to preserve the historically significant House of Seven Gables campus in Salem, MA; develop adaptation strategies and regulations to combat sea level rise in Charleston, SC; provide tactical retreat and redevelopment plans that holistically address climate change while promoting economic redevelopment in Warren, RI; and the exploration of the impacts of sea level rise and recommendations for a historic neighborhood in Newport, RI.

Union is a nationally practicing architecture and community design firm driven by its mission to use the power of design to enrich lives and strengthen communities. Committed to designing sustainable places that will be loved for generations, our work includes urban planning and community design, civic and institutional buildings, mixed-use developments, and housing of all types.

### Union of Concerned Scientists

**Contact:** Astrid Caldas, ACaldas@ucsusa.org  
<https://www.ucsusa.org/>

The Union of Concerned Scientists (UCS) is a national nonprofit organization founded more than 50 years ago by scientists and students at the Massachusetts Institute of Technology. Since our founding, UCS has used rigorous, independent science to help solve the planet's most pressing problems. Joining with people and organizations across the country, we combine technical analysis and effective advocacy to create innovative, practical solutions for a healthy, safe, just, and sustainable future. UCS aims to do this in accordance with our values:

- Science in the service of people and the planet
- Justice and equity for people of all races and incomes—now, and for future generations
- Courage to take principled, science-based stands in the public arena
- Integrity to always examine evidence critically, openly, and honestly
- Democracy to promote a voice for all in government decisions
- Action inspiring and mobilizing people to build a healthier, safer, and more just world

### US Global Change Research Program

**Contact:** Ken Salter, ksalter@usgcrp.gov  
<https://www.globalchange.gov/>

The U.S. Global Change Research Program (USGCRP) was established by Congress in 1990 to coordinate federal research and investments in understanding the forces shaping the global environment, both human and natural, and their impacts on society. USGCRP facilitates collaboration and cooperation across 15 federal member agencies to advance understanding of the changing Earth system. Our mission is to empower the Nation and the world to anticipate and respond to urgent risks of climate and global change by creating and providing accessible, usable knowledge. Our work includes National Climate Assessments and the First National Nature Assessment, supporting U.S. participation in the Intergovernmental Panel on Climate Change, and supporting our Interagency Groups for collaboration across agencies and scientific disciplines. Our vision is a Nation that is globally engaged and guided by science, meeting the challenges of climate and global change for the benefit of all. Check out the Fifth National Climate Assessment.

### Virga Labs

**Contact:** Season Martin, [season@virgalabs.io](mailto:season@virgalabs.io)  
<https://www.virgalabs.io/>

Virga Labs is a mission-driven natural water and natural resource consulting firm, based in Tucson, Arizona. We focus on delivering integrated modeling, analysis, and data visualization tools to drive solutions to complex problems at the intersection of water, climate, and society. We believe that the democratization of data, paired with artful design, inspires creativity and empowers change agents to build a resilient future.

### Voss Signs

**Contact:** Tom Tenerovicz, [tom@vosssigns.com](mailto:tom@vosssigns.com)  
<https://vosssigns.com/>

Since 1965, Voss Signs, LLC has produced custom and stock signs for various customers that include: Forestry Professionals, Land Owners, State and Federal Government Agencies.

## ADDITIONAL CONTRIBUTORS

### CIS (Corvias Infrastructure Solutions)

**Contact:** Sanjiv Sinha, [sanjiv@cisolutions.com](mailto:sanjiv@cisolutions.com)  
<https://www.cisolutions.com>

At Corvias [kore-vee-us], we are engaged citizens and community members with a passion for solving infrastructure problems. For us, infrastructure is not simply about providing housing or preventing flooding. It's about how well we all live and work together in a community. And about how we can make a real difference in the world. That's why at Corvias, we have a vision for a better tomorrow backed up by plans to make that vision a reality. Corvias is rooted in the Latin phrase "by way of the heart." It serves as our daily reminder to lead with our hearts, speak from our conscience, and improve local communities — and society at large — through every one of our partnerships.

### CivicWell/California Adaptation Forum

**Contact:** Julianna DeNike, [jdenike@civicwell.org](mailto:jdenike@civicwell.org)  
<https://civicwell.org/civic-events/california-adaptation-forum/>

CivicWell supports leaders responding to the climate crisis and its impact on their communities. As a nonprofit organization, we inspire, equip, connect, and cultivate leaders working toward a more sustainable and resilient future. We know that innovation happens when communities name their own challenges and define their own visions. Through policy guidance, collaborative partnerships, technical assistance, and capacity building, we support and equip communities to bring those visions to life.

### Defenders of Wildlife

**Contact:** Aimee Delach, [adelach@defenders.org](mailto:adelach@defenders.org)  
<https://defenders.org/>

### Ecological Society of America

**Contact:** Jonathan Miller, [jon@esa.org](mailto:jon@esa.org)  
<https://www.esa.org/>

The Ecological Society of America (ESA) is a nonpartisan, nonprofit organization of scientists founded in 1915 to: promote ecological science by improving communication among ecologists; raise the public's level of awareness of the importance of ecological science;

increase the resources available for the conduct of ecological science; and ensure the appropriate use of ecological science in environmental decision making by enhancing communication between the ecological community and policy-makers. Ecology is the scientific discipline that is concerned with the relationships between organisms and their past, present, and future environments. These relationships include physiological responses of individuals, structure and dynamics of populations, interactions among species, organization of biological communities, and processing of energy and matter in ecosystems.

### HGA

**Contact:** Ariane Laxo, [ALaxo@hga.com](mailto:ALaxo@hga.com)  
<https://hga.com/>

### Southwest Adaptation Forum

**Contact:** Tahnee Robertson, [tahnee@swdresources.com](mailto:tahnee@swdresources.com)  
<https://www.swcasc.arizona.edu/initiatives/southwest-adaptation-forum>

The Southwest Climate Adaptation Science Center (SW CASC) is a collaborative federal-university partnership between the U.S. Geological Survey (USGS) and seven academic institutions from across the U.S. Southwest (see map and list below). The SW CASC is one of eight regional Climate Adaptation Science Centers under the Department of the Interior (DOI) managed by the USGS National Climate Adaptation Science Center (NCASC).

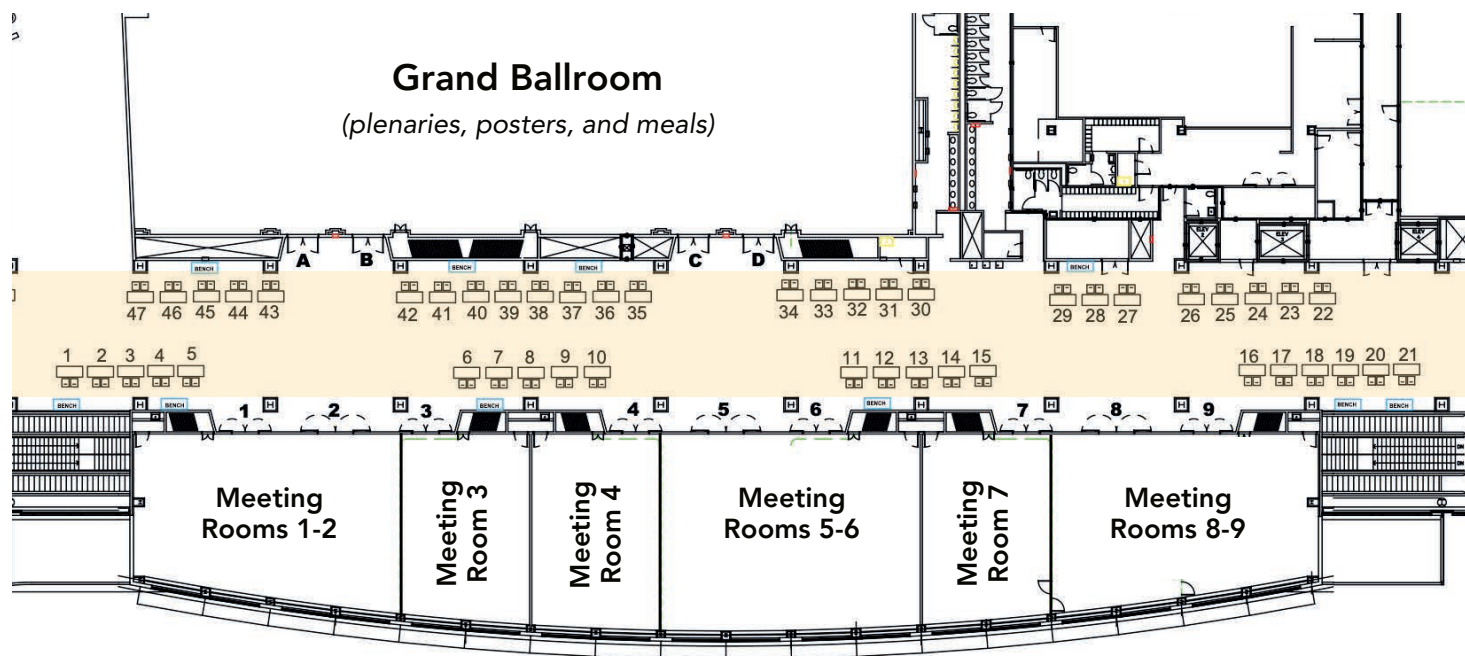
### University of Minnesota Climate Adaptation Partnership

**Contact:** Amanda Farris, [afarris@umn.edu](mailto:afarris@umn.edu)  
<https://climate.umn.edu/>

The University of Minnesota Climate Adaptation Partnership (MCAP) conducts cutting-edge climate and adaptation research, champions climate leadership, develops the next generation of adaptation professionals, and advances implementation of effective, equitable adaptation actions across sectors, communities, and levels of government. We partner to support thriving communities and landscapes through collaboration, capacity-building, and advancing climate-informed decision-making.



# Exhibitor Floor Plan



- |                                                                                 |                                                                                                     |                                                            |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1. EcoAdapt                                                                     | 18. CivicWell/California Adaptation Forum                                                           | 32. H. Gil Peach & Associates, LLC                         |
| 2. NOAA                                                                         | 19. Ecological Society of America                                                                   | 33. Georgetown Climate Center                              |
| 3. Bureau of Indian Affairs                                                     | 20. Southwest Adaptation Forum                                                                      | 34. Fernleaf                                               |
| 4. Natural Resources Defense Council                                            | 21. University of Minnesota Climate Adaptation Partnership                                          | 35. Abt Global                                             |
| 5. Pathways Climate Institute                                                   | 22. US Global Change Research Program                                                               | 36. USGS                                                   |
| 6. Adaptation International                                                     | 23. Union of Concerned Scientists                                                                   | 37. US Forest Service Office of Sustainability and Climate |
| 7. Cascadia Consulting Group                                                    | 24. Theodore Roosevelt Conservation Partnership                                                     | 38. The Trust for Public Land                              |
| 8. Center for Climate Preparedness & Community Resilience at Antioch University | 25. The Environmental Defense Fund                                                                  | 39. National Wildlife Federation                           |
| 9. Climate Resilience Consulting                                                | 26. Resilient Analytics, Inc                                                                        | 40. NASA Earth Science Division/Earth Action               |
| 10. Coastal States Organization                                                 | 27. PlaceWorks                                                                                      | 41. Esri                                                   |
| 11. Land Trust Alliance                                                         | 28. Northern Institute of Applied Climate Sciences (NIACS)                                          | 42. ERG                                                    |
| 12. Mathematica                                                                 | 29. National Renewable Energy Laboratory and the NREL Joint Institute for Strategic Energy Analysis | 43. Cadmus                                                 |
| 13. Midwest CASC                                                                | 30. International Society of Sustainability Professionals                                           | 44. Brown and Caldwell                                     |
| 14. Minnesota Pollution Control Agency                                          | 31. ICF                                                                                             | 45. Black & Veatch                                         |
| 15. National League of Cities                                                   |                                                                                                     | 46. American Society of Adaptation Professionals           |
| 16. Virga Labs                                                                  |                                                                                                     | 47. The Environmental Protection Agency                    |
| 17. The Nature Conservancy                                                      |                                                                                                     |                                                            |

# Venue Floor Plan

