



CLIMATE 2020



*seven generations
for Arizona*

*November 15-16, 2019
High Country
Conference Center
Flagstaff, Arizona*



WELCOME

Greetings,

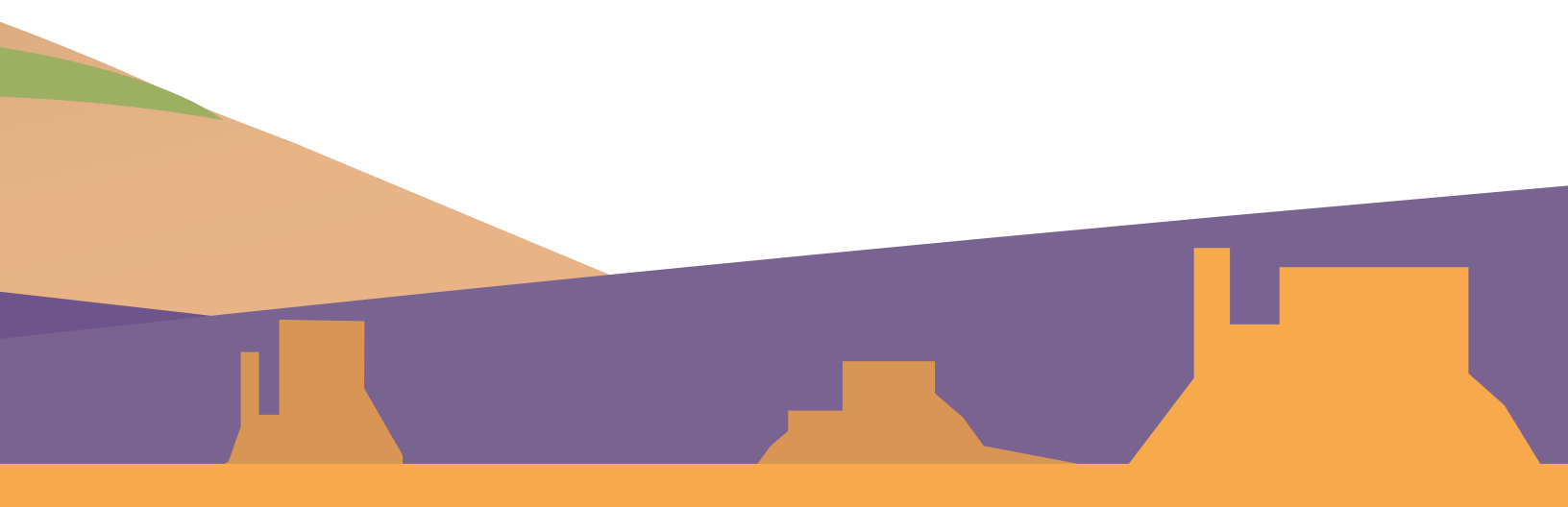
Welcome to *Climate 2020: Seven Generations for Arizona*, the first statewide summit of its kind in Arizona. This event is the product of the ideas, efforts, and enthusiasm of wonderful people too numerous to list here.

The idea for the summit was sparked by the *UN Intergovernmental Panel on Climate Change's Special Report on Global Warming of 1.5 °C*, released in October 2018. That report outlined in stark terms the urgent challenge of holding global warming to 1.5 °C and the great benefits to health, livelihoods, food security, water supply, economic growth, and natural systems of doing so. It prompted many of us to ask, again and with stronger voices: What can we do to help meet this challenge? How can we move beyond isolated individual efforts and engage a broader community, listening to voices of those who are most vulnerable to climate change's impacts?

We began to talk to our neighbors on campuses and in communities around Arizona, and found they were asking these same questions. The program grew, conversation by conversation, as students, practitioners, researchers, and artists offered to share their own solutions and visions for Arizona's future. As record-high temperatures, drought, and wildfire become the new normal throughout our state, we are inspired by the readiness of Arizonans to come together to talk about what we can do.

We hope these two days help shift the conversation in our state to a new level, where anxiety is replaced by action, politics by purpose, and conflicts by coalitions. Our hope is that the conversations and connections made here will spark new efforts and commitments toward the goal of keeping Arizona healthy and habitable for generations to come. Thank you for joining us.

The Climate 2020: Seven Generations for Arizona Steering Committee



Climate 2020: Seven Generations for Arizona

Friday, November 15, 2019: How Climate is Changing Arizona

8:00 - 8:45		Continental Breakfast and Registration
8:45 - 8:50 <i>Livestreamed</i>		President's Welcome Rita Hartung Cheng, President, Northern Arizona University
8:50 - 8:55 <i>Livestreamed</i>		Opening remarks (Video) The Honorable Martha McSally, Senator of the State of Arizona
8:55 - 9:25 <i>Livestreamed</i>	Humphreys/Doyle/Rees	Welcome Bruce Hungate, Center for Ecosystem Science and Society, Northern Arizona University Nikki Cooley, Institute for Tribal Environmental Professionals Mia Armstrong, Arizona State University
9:25 - 9:30		Break
9:30 - 10:30 <i>Livestreamed</i>		Keynote Address: Arizona's Climate, Past and Future Katharine Hayhoe, Texas Tech Nancy Selover, Arizona State Climatologist
10:30 - 10:35		Break
10:35 - 11:45 <i>Livestreamed</i>		Climate Change in Arizona: Global Connections and Cause for Concern Gregg Garfin, Institute of the Environment, University of Arizona Jenni Vanos, Arizona State University Ann Marie Chischilly, Institute for Tribal Environmental Professionals Moderators: Emery Cowan, Rafe Pomerance
11:45 - 12:00		Break
12:00 - 12:45 <i>Livestreamed</i>		Keynote Address: Imaginary Borders Xiuhtezcatl Martinez
12:45 - 1:30		Lunch Provided
1:30 - 2:30	Humphreys	Panel Discussion: Beyond Deadpool & Drought: The Future of Water in Arizona Cynthia Campbell, Water Services, City of Phoenix Karletta Chief, University of Arizona Rabi Gyawali, Arizona Dept. of Water Resources Ashley Hullinger, Water Resources Research Center Chris Kuzdas, Environmental Defense Fund Moderator: Jane Marks, Northern Arizona University
	Doyle/Rees	Panel Discussion: Preparing for a Hotter, Drier World: Wildfire, Infrastructure, & Emergency Management Oscar Chavez, Dept. of Health Services, Sonoma County Peter Fulé, School of Forestry, Northern Arizona University Aaron Green, Arizona Dept. of Forestry and Fire Management Ron Sauntman, Yavapai County Emergency Management
2:30 - 2:45		Break
2:45 - 3:45	Humphreys	Panel Discussion: Is Climate Still One of the "5 Cs?" How Arizona's Urban Centers are Contending with Climate Change Nicole Antonopoulos, Sustainability Program, City of Flagstaff Nancy Grimm, Arizona State University Braden Kay, City of Tempe Masavi Perea, Chispa AZ
	Doyle/Rees	Panel Discussion: Human Health Costs of Climate Change: Migration, Labor and Agriculture Nicolas I Lopez-Galvez, Zuckerman College of Public Health, University of Arizona Samantha Sabo, Center for Health Equity Research, Northern Arizona University Rietta Wagoner, University of Arizona
3:45 - 5:00	Humphreys/ Agassiz/ Fremont	Impacts of Climate Change on Arizona's Health Vjollca Berisha, Maricopa County Dept. of Public Health Kacey Ernst, Zuckerman College of Public Health, University of Arizona Matthew Roach, Arizona Department of Health Services Moderator: Julie Baldwin, Center for Health Equity Research, Northern Arizona University
7:30 Doors open at 6:00		Join Us at the Orpheum Theater Performance by Hip-Hop Artist Xiuhtezcatl Martinez Followed by a Screening of HBO's Ice on Fire Directed by Leila Conners with Cinematography by Harun Mehmedinovic

8:00 - 8:45

Continental Breakfast and Registration

8:45 - 9:00

All
Rooms

Opening remarks (Video)

The Honorable Bruce Babbitt, former Governor of Arizona
Followed by a screening of *Vanishing River*

9:00 - 10:00

Humphreys

Higher Education's Role in Climate Action

Tammy Nguyen, School of Sustainability, Arizona State University
Deanna Kulbeth, Cooper Center for Environmental Education, University of Arizona
Anthony Mirabito, Green Fund, Northern Arizona University
Corey Hawkey, Sustainability, Arizona State University

Doyle/Rees

Protecting Arizona's Future, The Role of Conservation and Education

Kris Haskins, The Arboretum at Flagstaff
Kevin Hultine, Desert Botanical Garden
Audrey Kruse, Grand Canyon Trust
Moderator: Matthew Bowker, Northern Arizona University

Agassiz/Fremont

Building Climate Resilience in Rural Arizona

Ann Marie Chischilly, Institute of Tribal Environmental Professionals
Gaither Martin, AZ Cattle Grower's Association
Sen. Jamescita Peshlakai, Arizona's Seventh District
Stefanie Smallhouse, Arizona Farm Bureau
Moderator: Billy Cordasco

10:00 - 10:05

Break

10:05 - 10:55

Humphreys

Breakout Session A: Climate Ready Tribes: National Indian Health Board

Shasta Gaughen, Pala Band of Mission Indians

Doyle/Rees

Breakout Session B: Learning and Teaching Climate Science

Mindy Bell
Mansel Nelson, Institute of Tribal Environmental Professionals

Agassiz/Fremont

Breakout Session C: Building Community-Based Fire Resilience

Michelle Medley-Daniel, The Watershed Research Center

10:55 - 11:00

Break

11:00 - 11:50

Humphreys

Breakout Session E: Developing Climate Action Plans: What to consider and where to start

Ladd Keith, CLIMAS, University of Arizona

Doyle/Rees

Breakout Session F: How to Talk to Your Neighbors about Climate Change

Doug Bland, Arizona Interfaith Power and Light

Agassiz/Fremont

Breakout Session G: When the Village Gets Hotter: How to Achieve Broader Community Climate Action

Jenny Niemann, Sustainability Program, City of Flagstaff

11:55 - 12:35

Lunch Provided

12:35 - 12:40

All
Rooms

Remarks by Capt. Mark Kelly (Video)

Afternoon Concurrent Sessions

12:45 - 3:00

Humphreys/Doyle/Rees

Youth Town Hall & Climate Action Session

Jaime Butler, Our Children's Trust
Daniel Casanova, AZ Youth Climate Strike
Kyle Kline, AZ Youth Climate Strike
Sara Kubisty, Sunrise Movement
Lyrica Maldonado, Uplift
Gabrielle Neilson, High School Student Leader
Lauren Pacheco, High School Student Leader
Marlee Stephans, High School Student Leader
Penny Trunzo, Uplift
Advisor: Gen Conley, Northern Arizona University

12:45 - 1:30

Informal Networking

1:30 - 2:45

299 Days of Sun: Practice and Potential in Arizona's Renewable Energy Markets

Brandon Cheshire, Arizona Solar Energy Industry Association
Wahleah Johns, Native Renewables
Amanda Ormond
Moderator: Karin Wadsack, National Renewable Energy Lab

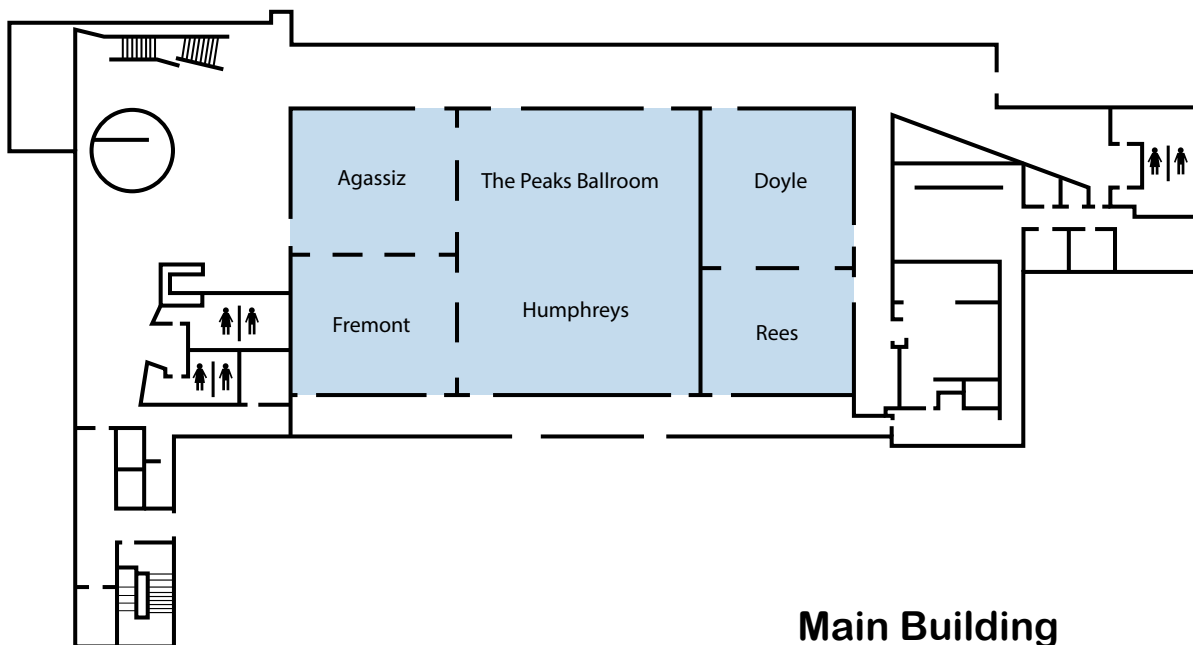
3:00 - 4:00

Humphreys/Doyle/Rees

"Meditations in an Emergency:" Telling Stories about Our Changing Climate

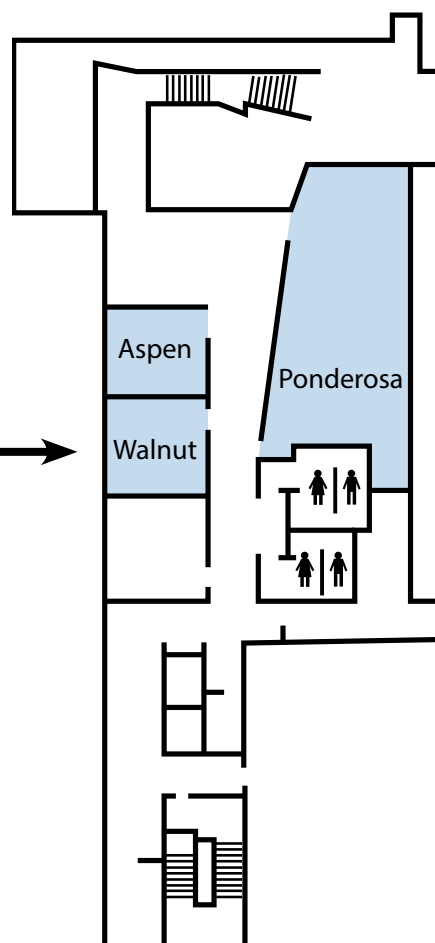
Deb Krol, Journalist, *High Country News* and *AZ Central*
Harun Mehmedinovic, Filmmaker, *Ice on Fire*
Liz Smith, Producer, Barrelmaker Productions, *Youth v Gov*
Moderator: Peter Friederici, Northern Arizona University

Main Building



Main Building 2nd Floor

Lactation Room



About the Speakers



Nicole Antonopoulos

Nicole currently serves as the Sustainability Manager for the City of Flagstaff, Arizona. As the Sustainability Manager, Nicole focuses on the development of effective programs and policies that catalyze long-term community and organizational sustainability. Nicole is responsible for growing the City's sustainability initiatives from the ground up. Her focus areas include energy efficiency, renewable energy, climate adaptation and resiliency, land conservation, waste minimization, food systems, and community empowerment. Currently, she is leading the charge to implement the City's community-wide Climate Action and Adaptation Plan, Rethink Waste Plan, and Legally Designated Open Space Management Plan. Most recently she has been working to bring the City's energy portfolio to 100% renewable energy and introduce bike share to Flagstaff. Prior to joining the City of Flagstaff as the Sustainability Manager, Nicole served as the Program Manager for the Coconino County Sustainable Economic Development Initiative and the Outreach Director for the Texas Unit of Recording for the Blind & Dyslexic. Nicole holds a bachelor's degree in Anthropology from the University of Kansas, a Graduate Certificate in Geographic Information Systems and master's degree in Cultural Geography from Northern Arizona University. Nicole co-founded the Western Adaptation Alliance and currently sits on the Urban Sustainability Directors Network Planning and Advisory Committee, Sustainable Cities Network Steering Committee, and Northern Arizona University's Climate Science and Solutions Advisory Board. When not at work, Nicole can be found with her backpack on exploring the great outdoors.



Mia Armstrong

Mia, born and raised in Flagstaff, is a journalist, researcher and teacher whose work focuses largely on migration, U.S.-Mexico relations, and criminal justice. She graduated with degrees in journalism and international relations from Arizona State University, where she was a Flinn Scholar. In 2019, she won Nick Kristof's annual "Win-a-Trip" contest with *The New York Times*, and the two traveled to Guatemala and Paraguay to report on women's health, development, poverty, and migration. In addition to *The New York Times*, Mia's work has been published in English and Spanish in outlets including *The Marshall Project*, *Slate Magazine*, *Longreads*, *Letras Libres*, and *Cronkite Noticias*. She is currently a Fulbright García Robles grantee teaching English at the Universidad Autónoma del Carmen in Ciudad del Carmen, Campeche, Mexico.



Mindy Bell

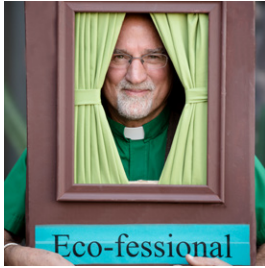
Mindy's passion for science education builds on her 30-year science and math teaching career. She earned her B.A. in Biology from Carleton College and an M.A.T in Biology Teaching from the University of Washington. She taught 5th grade to college in five different states before moving to Flagstaff in 1998 with her husband and daughter. She taught at the Center for Science Teaching and Learning at NAU, at Flagstaff Arts and Leadership Academy, and most recently was the coordinator for Flagstaff STEM City.



Dr. Vjollca Berisha

Dr. Vjollca Berisha joined the Maricopa County Department of Public Health in 2004 as a Senior Epidemiologist. She leads a multidisciplinary team in the areas of communicable disease and heat-related illness. She also leads the Maricopa County Climate Change and Public Health Coalition. This partnership engages external community partners and academic institutions to co-lead the effort on climate and health moving forward. Vjollca's work has been presented at several professional conferences including CSTE, APHA, IDSA, and ICEID. Dr. Berisha has a Medical Doctor degree and a Master's degree in Medical Sciences from the University of Prishtina, Kosovo.

About the Speakers cont.



Doug Bland

Doug Bland is Executive Director for Arizona Interfaith Power and Light---a spiritual response to climate change. He is adjunct faculty at the South Mountain Community College Storytelling Institute, where he teaches "The Art of Storytelling," "Telling Sacred Stories," "Using Storytelling in Businesses and Organizations," "Storytelling & Advocacy," and "Storytelling & Healing."



Jaime Lynn Butler

Jaime is Navajo of the Tangle People Clan, born for the Bitterwater Clan, maternal Grandfathers are the Redhouse Clan, and paternal Grandfathers are the Toweringhouse Clan. She grew up in Cameron, Arizona, on the Navajo Nation Reservation. Jaime and her extended family on the Reservation remember times when there was enough water on the Reservation for agriculture and farm animals, but now the springs they once depended on year-round are drying up. Jaime also sees firsthand the cultural and spiritual impacts of climate change, as participating in sacred Navajo ceremonies on the Reservation is an important part of Jaime's life, and climate impacts are starting to harm the ability for Jaime and her tribe to participate in their traditional ceremonies. Since she was four years old, Jaime has been working to protect the earth. Beginning in elementary school, Jaime wrote letters to President Obama about her concerns for the environment. In 2011, she filed a lawsuit against the Arizona Department of Environmental Quality, also supported by Our Children's Trust. In 2015, Jaime became a plaintiff in *Juliana v. United States*. Jaime is one of 21 youth plaintiffs suing the United States and several of its executive branch positions and officers, formerly including President Donald Trump.



Cynthia Campbell

Cynthia Campbell is the Water Resource Management Advisor for the City of Phoenix, Arizona. She is responsible for policy development and management of the City's water resource portfolio. Ms. Campbell also serves as the City's representative with the Salt River Project, the Central Arizona Project and the Arizona Department of Water Resources (ADWR). She represented Phoenix on the Drought Contingency Plan Steering Committee, the Arizona Water Bank Recovery Planning Advisory Group, the Salt-Verde Alliance, and the Northern Arizona Forest Fund. Previously, Cynthia served Phoenix as an Assistant City Attorney, representing the City's interests in water matters, including adjudication of the City's water rights claims. Prior to her tenure with Phoenix, Cynthia served the State of Arizona as Water Quality Compliance Manager at the Arizona Department of Environmental Quality. She also represented the State as an Assistant Attorney General in the Environmental Enforcement Section. She has over two decades of experience in water resource and environmental matters and has practiced law in both Arizona and Illinois. Cynthia is a graduate of Northwestern University School of Law and has a Bachelor's Degree in Political Science from the University of Illinois at Champaign-Urbana.



Daniel Casanova

Daniel Casanova has been involved in environmentalism since third grade. He was born in Mexico City and moved to the U.S. when he was two years old. By the time he was eight, Daniel was awakened by science-backed calls for action to save the environment. In high school, Daniel became president of his school's Club Green focused on spreading environmental consciousness. Today, he is a student at the University of Arizona majoring in Environmental Studies. As a Tucson co-lead, Daniel represents the Arizona Youth Climate Strike and helped organize one of the largest environmental rallies in southern Arizona.

About the Speakers cont.



Oscar Chavez

Since 2013, Oscar has led the department's planning, research and evaluation team as well as community and client engagement. He also leads the County's Upstream Investments Initiative, a policy framework designed to encourage community organizations use of evidence-informed practices and prevention-focused programs. He is a former Director of Sonoma County Community Action Partnership.



Brandon Cheshire

Brandon Cheshire is the current Board President of Arizona Solar Energy Industries Association (AriSEIA) and founder of Sun Harvest Solar. He is a licensed electrician with over 19 years of experience. With over 10 years in the solar industry, he has worked on both residential and commercial solar projects across the Southwest. Mr. Cheshire is a passionate advocate of renewable energy and has an 11.8KW solar system on his home.



Ann Marie Chischilly, Esq.

Ms. Chischilly is the Executive Director at the Institute for Tribal Environmental Professionals (ITEP). She is responsible for managing ITEP's work with Northern Arizona University, state and federal agencies, tribes and Alaska Native villages. In 2017, ITEP celebrated 25 years serving over 95% of all the 573 Tribes and Alaskan Native Villages nation wide. Ms. Chischilly currently serves on two federal advisory committees: the Environmental Protection Agency's (EPA) National Drinking Water Advisory Council and EPA's National Advisory Committee. Ms. Chischilly also served on

the Department of the Interior's Advisory on Climate Change and Natural Resource Science and the Advisory Committee for the Sustained National Climate Assessment which transitioned to the Independent Advisory Committee for Applied Climate Assessment. Ms. Chischilly speaks both nationally and internationally on topics of Indian Law, Environmental Law, Climate Change, Traditional Knowledges, Water Law, and Tribes/Indigenous Peoples. She works with the United Nations on issues of the Protection of Traditional Knowledge and co-wrote "Guidelines for the Use of Traditional Knowledge in Climate Change Initiatives" and "Evaluating Knowledge to Support Climate Action: A Framework for Sustained Assessment." Before coming to ITEP, she served for over ten years as Senior Assistant General Counsel to the Gila River Indian Community (Community), where she assisted the Community in implementing the historic "Arizona Water Settlement Act" and founded the Community's Renewable Energy Team. Ms. Chischilly is an enrolled member of the Navajo Nation (Diné). She earned her Juris Doctorate degree from St. Mary's University School of Law and a Masters in Environmental Law (LL.M) from Vermont Law School. She is licensed in Arizona and has practiced in state, district, and federal courts. She is also a member of the International Bar Association.



Genevieve Conley

Genevieve Conley is a 5th year student pursuing a dual-degree in Environmental Studies and Spanish. She returned in June from a year-long study abroad and internship program in Argentina. She is the founder and co-chair of Girls Teaching Girls, an on-campus organization focusing on the empowerment of young women through the implementation of STEM based projects. Genevieve is passionate about sustainability and climate activism. She is the co-chair of the NAU Green Fund, where she manages a budget for innovative sustainability projects on campus. She was born

and raised in Santa Fe, New Mexico where she first discovered her passion for the environment. In her free time, she enjoys hiking, running, and cuddling her cats Artemis and Willy. Genevieve plans to pursue a career focusing on advancing women's rights and environmental education, as well as developing environmental policy, after she graduates in May 2020.

About the Speakers cont.



Nikki Cooley

Nikki is the co-manager for the Institute for Tribal Environmental Professionals' Tribes & Climate Change Program. She is of the Diné Nation by way of Shonto and Blue Gap, AZ, and is of the Towering House Clan, born for the Reed People Clan, maternal grandfathers are of the Water that Flows Together Clan, and paternal grandfathers are of the Manygoats Clan. Her undergraduate and Masters studies included extensive work with the Eastern Band of Cherokee Indians of North Carolina, and she has since worked with tribes across the country. Nikki's current work takes her all over the United

States working with regional, national, tribal, and federal partners to address climate change impacts on the tribe's culture and natural resources.



Dr. Kacey Ernst

Dr. Kacey Ernst is an Associate Professor and Program Director of Epidemiology at the University of Arizona College of Public Health. Her work as an infectious disease epidemiologist is focused on understanding the dynamics of mosquito-borne diseases and factors that influence their emergence and control, particularly in arid regions. Her work in the Arizona-Sonora desert region assessed how relationships among weather, *Ae. aegypti* age-structure and the extrinsic incubation period of the virus influence differential emergence of dengue in the region. Her work has examined how the built

environment shapes patterns of mosquito abundance and how micro-climates may provide opportunities for continued mosquito proliferation even as average temperatures exceed mortality thresholds. Identifying solutions to enhance community capacity to identify and respond to changing mosquito-borne disease threats led her to develop Kidenga, a community-based participatory application to inform and detect potential viral transmission. Her engagement with communities to build capacity and resilience has also focused on improving the use of bed nets for malaria control and developing strategies to engage women in vector control in Kenya and Indonesia. Currently, she is co-lead of the Bridging Biodiversity and Conservation Science initiative at the University of Arizona that explores interdisciplinary questions about the impact of climate change on biodiversity and how these dynamics shape public health and food security. She is a strong proponent of communicating science to the public and stakeholders and is a 2017 AAAS Leshner Fellow for Public Engagement.



Pete Fulé

Dr. Fulé's research interests are fire ecology, ecological restoration, and climate/fire interactions in the southwestern USA, Mexico, the Mediterranean, and other areas of the world. His work focuses on application of tree-ring analysis and simulation modeling to study long-term patterns of the relationships among fire regimes, climate patterns, and forest dynamics.



Shasta Gaughen

Shasta Gaughen is the Environmental Director and the Tribal Historic Preservation Officer for the Pala Band of Mission Indians in Pala, California. She has worked for Pala since January 2005, and established Pala's Tribal Historic Preservation Office in 2008. She is also an adjunct professor in the Anthropology Department at California State University San Marcos. Dr. Gaughen received her B.A. in Anthropology and B.S. in Natural Resources at Humboldt State University in 1996, her M.A. in Anthropology from San Diego State University in 2001, and her PhD in Anthropology from the University of

New Mexico in 2011. She is Chair of the National Association of Tribal Historic Preservation Officers, a member of the Advisory Council on Historic Preservation, Secretary of the Board for the Native American Environmental Protection Coalition, lead of the Tribal Working Group for the Climate Science Alliance-South Coast, a member of the Institute of Tribal Environmental Professionals' Climate Advisory Group, and Vice President of the board for the Upper San Luis Rey Resource Conservation District. Dr. Gaughen oversees the Tribal Climate Health Project, a grant-funded education and outreach project that includes a website, resource clearinghouse, webinars, videos, and in-person presentations on climate change and health adaptation in Tribal communities.

About the Speakers cont.



Gregg Garfin

Gregg Garfin is Associate Professor and Associate Extension Specialist in the University of Arizona's School of Natural Resources and the Environment, and University Director of the Southwest Climate Science Center—a partnership between the USGS and a consortium of research institutions in the Southwest. He has worked extensively with water and natural resource managers, planners, and concerned citizens in the southwestern United States and northern Mexico to examine resource and community resilience and to improve preparedness for drought and other climate-related hazards. He is chapter lead for the Southwest chapter in the Fourth National Climate Assessment.



Aaron Green

Aaron Green is the District Manager and Fire Management Officer for Northern Arizona for the Arizona Department of Forestry and Fire Management. From Type I Incident Management Teams to on the ground fire fighting, Aaron has been heavily involved with wildland fire for the past 20 years. Aaron studied Forestry and Ecological Restoration at Northern Arizona University and Fire Ecology at Colorado State University. For the past 15 years, Aaron has been representing the State of Arizona by working with private landowners and federal, state, and local agencies to protect Arizona's forests and communities from catastrophic wildfire. Aaron is a strong proponent of creating resilient forests through proactive forest management and the reintroduction of prescribed and natural fire into fire-adapted ecosystems.



Nancy B. Grimm

Nancy B. Grimm is an ecosystem ecologist and interdisciplinary sustainability scientist who studies interactions of climate change, human activities, resilience, and biogeochemical processes in urban and stream ecosystems. From 1997-2016 Grimm directed the Central Arizona–Phoenix LTER (CAP LTER), a pioneering interdisciplinary study of a complex metropolitan region whose conceptual models of social-ecological-technological systems expanded ecology. She now co-directs the Urban Resilience to Extremes Sustainability Research Network (URExSRN), working with cities to co-produce visions of resilient and sustainable futures, and the new NATURA network of international networks that focuses on nature-based solutions to urban resilience challenges in the Anthropocene. Grimm is a Member of the US National Academy of Sciences, Past President of the Ecological Society of America (ESA) and the Society for Freshwater Science (SFS), and a Fellow of American Association for the Advancement of Science, ESA, SFS, and the American Geophysical Union. She is an editor for *Earth's Future*, an editorial advisor for *Ecohydrology* and the *Journal of Urban Ecology*, and associate editor for *Sustainability and Frontiers in the Built Environment: Urban Science*. She is the Virginia M. Ullman Professor of Ecology in the School of Life Sciences and distinguished Sustainability Scientist in the Julie Ann Wrigley Global Institute of Sustainability at Arizona State University.



Rabi Gyawali

Rabi Gyawali is a Water Resources Engineer with the Colorado River Management Section of Arizona Department of Water Resources (ADWR) since August 2017. Rabi previously (2013-2017) worked for Climate and Hydrology Division, ARS, USDA as a Research Agriculture Engineer and as a Research Hydrologist for Wisconsin Department of Natural Resources. Rabi has authored over 10 peer-reviewed articles in the area of Climate and Hydrology. His area of expertise is hydro-climate modeling. He has a Masters' and a Doctoral degree in Environmental Engineering from Michigan Technological University.

About the Speakers cont.



Dr. Kristin Haskins

Dr. Kristin Haskins received her B.S. and M.S. in Biology at the University of Kentucky in 1993 and 1995, respectively, and completed her Ph.D. in plant ecology at Northern Arizona University in 2003. Since 2006, Dr. Haskins has been with The Arboretum at Flagstaff serving as the Director of Research until recently when she became the Interim Executive Director. She has 13 years of experience preparing, administering, and managing federal, state, and foundation funded projects on conservation issues. The foci of these projects range from rare plant monitoring and demography studies,

to climate change public education, to invasive species management. The Research Department currently participates in three areas of work: recovery of rare plant species, restoration of disturbed habitats, and research in native plant ecology and horticultural practices. Much of the work that Dr. Haskins has conducted since joining The Arboretum culminated in the publication of a co-edited volume in 2012, entitled “Plant Reintroduction in a Changing Climate: Promises and Perils.” In addition to performing peer reviews for over a dozen professional journals, Dr. Haskins actively participates in mentoring for a middle school science program and coordinating NAU student internships at The Arboretum.



Corey Hawkey

Corey is Assistant Director for University Sustainability Practices. In his role, Corey supports the University Sustainability Practices team in implementing a variety of sustainability programs and projects including: ASU Carbon Project, Urban Forestry Program, Community Offset Bundles Project (planting trees for carbon offsets), Carbon Sink at ASU West, Air Travel Price on Carbon Neutral New Buildings Policy (in development), Comprehensive Sustainability Survey (knowledge, culture, behavior, transportation, and opinions), Sustainability Metrics and Reporting (AASHE STARS /

GHG Inventory), ASU Resilience Commitment, Strategic Initiatives, Fleet Electrification, Policy and Program Development. Corey has over 14 years of professional experience, a Master of Public Administration from The Ohio State University, and a Bachelor of Arts in Political Science from Bowling Green State University. Prior to joining ASU, he spent four years as the Sustainability Coordinator at The Ohio State University (led effort to achieve zero waste at Ohio Stadium). Corey has also spent time in a variety of roles including Sustainability Coordinator at the Ohio Board of Regents and has conducted community and political organizing in Pittsburgh, New York City, and Boston. Corey is also a publicly elected Board Member of the Salt River Project.



Katharine Hayhoe

Katharine Hayhoe is an accomplished atmospheric scientist who studies climate change and why it matters to us here and now. She is also a remarkable communicator who has received the American Geophysical Union’s climate communication prize, the Stephen Schneider Climate Communication award, and been named to a number of lists including Time Magazine’s 100 Most Influential People, Foreign Policy’s 100 Leading Thinkers, and FORTUNE magazine’s World’s Greatest Leaders. Katharine is currently a professor and directs the Climate Science Center at Texas Tech University. She has served as a lead author for the Second, Third, and Fourth U.S. National Climate Assessments. She has a B.Sc. in Physics from the University of Toronto and an M.S. and Ph.D. in Atmospheric Science from the University of Illinois.

Keynote



Ashley Hullinger

Ashley Hullinger is a Research Analyst at the University of Arizona Water Resources Research Center, with the primary role of managing the Water RAPIDS Program (Water Research and Planning Innovations for Dry land Systems). Much of Ms. Hullinger’s work revolves around developing effective means of stakeholder engagement to promote sustainable water management throughout Arizona, especially in rural watersheds. As part of the Cooperative Extension unit of the University of Arizona, she has been able to work directly with communities looking at issues that span beyond physical

About the Speakers cont.

water resources to consider the people and history that have contributed to current conditions. Ms. Hullinger has coordinated and led processes in stakeholder-driven scenario planning, the development of water budgets for local communities and natural systems, and implementation of water conservation programs. Engaging stakeholders in meaningful conversations around action-oriented planning for resilient water supplies is of paramount importance to Ms. Hullinger's work. Building on the work of colleagues and existing networks, she concluded a multi-year watershed planning effort in 2017 for the rural Upper Gila River Watershed in eastern Arizona, which engaged hundreds of stakeholders and resulted in a portfolio of planning resources for the area. She used many of the lessons and methods developed in the Upper Gila to begin and guide on going watershed planning efforts in Cobre Valley, located in central Arizona. Originally from Kansas, living in the Sonoran Desert has anchored Ms. Hullinger's strong commitment to cultivating unique solutions to address the complex issues surrounding water in the West. Ashley holds a M.S. in Urban Planning with a concentration in Water Resources from the University of Arizona and B.A. degrees in History and Geography from the University of Kansas.



Kevin Hultine

Kevin Hultine has been a Research Ecologist with the Department of Research, Conservation and Collections at the Desert Botanical Garden in Phoenix, AZ since 2011. He also holds adjunct faculty appointments in the School of Life Sciences at Arizona State University and the School of Earth Sciences and Environmental Sustainability at Northern Arizona University. He holds a BS in Forest Resources from the University of Idaho (1997), a MS in Renewable Resources from the University of Arizona (2001), a PhD in Renewable Resources from the University of Arizona (2004),

and worked as an Assistant Research Professor in the Department of Biology at the University of Utah from 2004 to 2010. Hultine has over 20 years of experience in stable isotope ecology, plant-water relations, desert plant ecology and conservation, ecohydrology and plant ecophysiology. He is currently the Plant Science Editor for the *Oxford University Press Journal, Conservation Physiology*.



Dr. Bruce Hungate

Dr. Bruce Hungate directs the Center for Ecosystem Science & Society at Northern Arizona University, where he is Regents' Professor of Biological Sciences and the Frances B. McAllister Endowed Chair in Community, Culture, and the Environment. He has bachelor's degrees in Music, English, and Biology from Stanford University and a PhD in Integrative Biology from the University of California at Berkeley. Dr. Hungate's science focuses on the ecology of global change from the cell to the planet. He has particular interests in the imprint of the diversity of life on the cycling of elements, how ecosystems respond to

and shape environmental change, and microbial ecology of the biosphere, from soils to hot springs to humans. Dr. Hungate also writes narrative non-fiction at the intersection of science, the environment, family, and people. Through science, writing, and speaking, Dr. Hungate hopes to share the science of the earth system and to find humor and connection in the face of global environmental change.



Braden Kay

Braden Kay is the director of sustainability for the City of Tempe. He was recently the Sustainability Project Manager for the City of Orlando, where he led sustainability implementation in waste diversion, urban forestry, and urban agriculture programs. He received a PhD from Arizona State University's School of Sustainability for his dissertation work on stakeholder engagement and strategy building within the City of Phoenix. Previously, Braden managed community engagement, sustainability assessment, and strategy building for the City of Phoenix's Reinvent Phoenix grant,

which is funded by the U.S. Department of Housing and Urban Development's Sustainable Communities program. Braden's academic and professional experience in urban planning, sustainability assessment, and sustainability implementation make him an asset for innovative urban sustainability efforts.

About the Speakers cont.



Kyle Kline

Kyle Kline's impetus for diving into climate change activism was the ultimatum given by the IPCC. More or less, we have eleven years. Eleven years to save our world from irreparable damage and eventual destruction. There was no option but to act. Since Kyle began his educational journey, he's always known his career path would be one of service. Combining his passion for theatre and sustainability, Kyle currently serves as a Tucson Co-Lead for Arizona Youth Climate Strike, utilizing the skills of storytelling and political activism to sew the seeds of change. Kyle works to advocate for the youth generation

that, under the status quo, would become the first mass victims of a warming planet. Kyle continues to build his arsenal for change as a student of Environmental Studies and Political Science at the University of Arizona.



Debra Krol

Debra Krol is an environmental reporter for the *Arizona Republic* who has also written for other publications such as *High Country News* and *Indian Country Today*. She is an enrolled member of the Xolon (also known as Jolon) Salinan Tribe from the Central California coastal ranges. In addition to more than a dozen other awards, Krol was named Best Beat Environmental Reporter by the Native American Journalists' Association.



Audrey Kruse

Audrey first fell in love with the canyons of the Colorado Plateau during a semester-long wilderness trip in college and knew that one day, she'd return to work in this amazing landscape. She has a background in anthropology and education and has worked as a high school science teacher and wilderness expedition leader in the Rockies and on the Colorado Plateau and with citizen science programs throughout the Colorado River and Rio Grande watersheds. She has an M.S. in Environmental Sciences and Policy from Northern Arizona University. Audrey joined the Grand Canyon Trust in 2019 as

the Community Engagement Director to help create meaningful experiences for others who want to protect and restore the gems of the plateau.



Nicolas Lopez-Galvez

Nicolas is a doctoral student in Environmental Health Sciences at the University of Arizona Mel and Enid Zuckerman College of Public Health. Nicolas has been working as research assistant for Dr. Paloma Beamer in several projects related to environmental health, and exposure sciences. Nicolas has assisted on the sampling procedure of a traffic air pollutants study in Tucson and a microbiome project in the border of Nogales. He is currently working on his dissertation project about the environmental and occupational factors associated with migrant farmworkers' health.

The purpose of this project is to better understand the health effects associated with the exposure to pesticides and extreme heat experienced by under served migrant grape workers in Sonora, Mexico.



Lyrica Maldonado

Lyrica Maldonado lives in Flagstaff, Arizona and is a Fellow Organizer at Uplift, a youth-oriented space that brings together young people from all over the Colorado Plateau to train, learn, and develop relationships in the face of climate change. Lyrica has supported Uplift in developing the theme, speakers, and content of the conference to include marginalized, frontline, and fence line communities. Now, she is working to create the DNA of her movement at Uplift, including a structure and strategy to mobilize thousands of young people in grassroots action for climate justice and to foster an accessible year-

About the Speakers cont.

round training program for rising climate justice leaders across the Southwest. Just graduated with her degrees in Political Science and International Affairs, she is passionate about showing up for her migrant and Indigenous family and community of Guatemala. She is proud to belong to the Maya Mam people of western Guatemala and believes in the inter-connectivity of Indigenous sovereignty, migrant justice and climate justice. Her previous work has included migrant aid, Indigenous feminism, and community coalition building.



Keynote

Xiuhtezcatl Martinez

Earth Guardians' Youth Director Xiuhtezcatl Martinez is a 19-year-old indigenous climate activist, hip-hop artist, and powerful voice on the front lines of the global youth-led environmental movement. Xiuhtezcatl began speaking internationally on these issues at the age of 6, including at the United Nations Summit in Rio de Janeiro and the UN General Assembly in New York. Since then, he has worked at the local level to get pesticides out of parks, to reduce coal ash pollution, and to initiate fracking moratoriums in his home state of Colorado. He is currently a plaintiff in *Juliana v U.S.*, a youth-led lawsuit against the federal government for its inaction around the climate crisis and its failure to protect their essential public trust resources. Xiuhtezcatl has traveled around

the world educating his generation about the climate and environmental crisis, and has launched Earth Guardians youth crews in 60+ countries. His work has been featured on PBS, Showtime, National Geographic, Rolling Stone, Upworthy, The Guardian, Vogue, Bill Maher, The Daily Show, Nickelodeon, Comedy Central, CNN, MSNBC, HBO, VICE, and elsewhere. Xiuhtezcatl's book "We Rise" was published by Rodale in 2017, and he has just finished writing *Imaginary Borders*, to be published and released by Penguin in the spring of 2020. His first EP, "Broken," and album, "Break Free," were released in 2018. Xiuhtezcatl's work has received wide recognition, including a 2015 Peace First Prize, the 2015 Nickelodeon Halo Award, 2016 Captain Planet Award, Sweden's 2016 Children's Climate Prize, and 2017 Univision Premio's Ajente de Cambio Award. In 2013, he received the United States Community Service Award from President Obama, and was the youngest of 24 national change-makers chosen to serve on the President's Youth Council.



Michelle Medley-Daniel

We need a new approach to fire management in the US. Michelle, as the Director of the Fire Adapted Communities Learning Network (FAC Net), is working with leaders across the country to develop and implement new ways of relating to and managing fire. Together, FAC Net members are investing in place-based solutions to build community resilience and reduce fire risk, expanding who uses fire to restore landscapes, and addressing the systemic barriers to this decentralized approach. FAC Net is stewarded by The Nature Conservancy and the Watershed Center and supported by the US

Forest Service and Departments of Interior. Michelle has been working with FAC Net since its launch in 2013. She is inspired by the work that communities are doing to redefine their relationships with fire, and is excited to be working in support of these efforts. Michelle manages the operations of the FAC Net and works with her colleagues and network members to set strategic direction for fire adaptation efforts across the US. Michelle has expertise in network design and workshop facilitation; one of her favorite parts of working with FAC Net is supporting state and regional leaders in launching network-based approaches to wildfire resilience. Michelle has a background in studio art and English, and over fifteen years of experience coordinating networks and providing communications and development services to non-profits. She enjoys backpacking, kayaking, local history and connecting with people who are passionate about place.



Mansel A. Nelson

For the past twenty-one (21) years Mansel A. Nelson has served with the Institute for Tribal Environmental Professionals (ITEP) at Northern Arizona University. He is the Project Director for the Environmental Education Outreach Program (EEOP). Prior to his service with Northern Arizona University, Mansel served in the US Army Chemical Corps for 14 years and taught chemistry on the Navajo Nation for 6 years. Mansel focuses on helping youth understand how to apply science and engineering to local environmental issues. Mansel's formal education includes a BS in chemistry and a MS in Chemical Engineering.

About the Speakers cont.



Gabrielle Neilson

Gabrielle Neilson is a high school senior at Flagstaff Arts and Leadership Academy (FALA) who has received training on various environmental and justice issues at Al Gore's Climate Reality Leadership Conference, Grand Canyon Trust's LEADERShift, and the Uplift Climate Conference. She is a board member and social media manager of FALA's Environmental Coalition. Gabrielle is also a filmmaker, dancer, and artist.



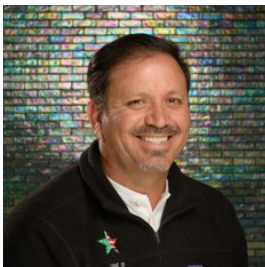
Jenny Niemann

Jenny Niemann is the Climate and Energy Specialist for the City of Flagstaff's Sustainability Section. Jenny manages the implementation of the City's first Climate Action and Adaptation Plan. As part of this process, Jenny engages community members in climate action, builds capacity in neighborhoods, and furthers municipal climate planning. Jenny has a background in green building, along with Master's Degrees in Urban planning and public health.



Amanda Ormond

Amanda Ormond has worked in energy and public policy for thirty years in Arizona and the West. For almost two decades she has managed the Ormond Group LLC, a consulting firm that specializes in education, advocacy, and lobbying for clean energy. Prior to starting her consulting firm, Amanda served as Director of the Arizona Energy Office for seven years where she was responsible for developing state policy and promoting energy efficiency, renewable energy, and alternative fueled vehicles. She also held various positions at the state energy office, a division of the Arizona Department of Commerce. Amanda holds a B.S. in Environmental Earth Science.



Masavi Perea

Masavi Joined LCV/Chispa AZ in July of 2016. He is originally from Chihuahua Mexico. He has been living in AZ since 1995. He is a construction worker by trade. He got involved in community organizing in 2001 because of immigration issues and the need for human rights and civic engagement within the immigrant community. Later he joined the "Justice for Roofers Campaign," where he became a member of the Roofers Union. He was initially hired as an organizer for two years and then as the Business Manager for an additional two years. Next, he joined the Painters Union where he worked as an organizer, business representative, trustee and lastly as the Assistant to the Business Manager. He also worked on the project "Pueblo Unido Worker Center" within the Puente Movement that focused on creating a worker center in Phoenix, Arizona. Masavi holds an Associate of the Art from Phoenix College. Masavi believes that community grassroots organizing is the most effective way to empower and positively impact our families, neighborhoods, communities, and our Mother Earth. Masavi's goals are to bring urgency on Environmental Justice issues that affect the Latinx community and create alliances with groups/communities that normally are not part of the decision makers.



Jamescita Peshlakai

Jamescita Mae Peshlakai is currently serving her second term in the Arizona Senate as the state's first Native American woman senator, representing legislative district 7. She formerly served in the state House of Representatives in the Fifty-first Legislature from 2013 to 2015. Sen. Peshlakai is Diné — Navajo, of the Tangle People clan, born for the Red House clan. Her maternal grandfathers are the Bitter Water clan, and her paternal grandfathers are the Cliff Dweller clan. Sen. Peshlakai comes from a line of tribal headmen and officials and values her family's legacy of public service. In 1902, in efforts to protect their Navajo

About the Speakers cont.

homeland from settlers, two of her great-grandfathers, Chíshí Nééz and Béesh Lígaii Atsidii, traveled to Washington, D.C. to meet with President Theodore Roosevelt to negotiate the annexation of the western part of the Navajo Nation. Born, raised, and living in the district, her constituents are family and LD7 is home. She holds a Bachelor's degree in History and a Master's degree in Educational Psychology from Northern Arizona University. As a young woman, she served in the U.S. Army and is a Persian Gulf War veteran. A veterans' advocate, she spearheaded an initiative to create an independent veterans' affairs agency for the Navajo Nation and succeeded. She was recently awarded the "Copper Star Award" by the Unified Arizona Veterans of Arizona for her advocacy. Over the years in her professional career, she served as director of policy and programs for several organizations, such as the Arizona Foundation for Women and Native Americans for Community Action. In previous endeavors, she co-founded the Peshlakai Cultural Foundation and founded the Western Navajo Agency Food Policy Council. Sen. Peshlakai's culturally diverse district spans the seven counties of Apache, Coconino, Gila, Graham, Mohave, Navajo, and Pinal — including the communities of Fredonia, Page, Winslow, Show Low, Eagar, and St. Johns. Nine tribes comprise most of the district's constituents — Hualapai, Havasupai, Kaibab Paiute, San Juan Southern Paiute, Navajo, Hopi, White Mountain Apache, San Carlos Apache and a small portion of Zuni Pueblo. The district is the largest legislative district in the contiguous United States, stretching from near Lake Mead to the Four Corners National Monument and south beyond Globe. It contains some of the most beautiful parks and natural wonders in the world — the Grand Canyon, the San Francisco Peaks, Monument Valley, the White Mountains, and the Colorado River.



Matthew Roach

Matthew Roach is an Epidemiology Program Manager at the Arizona Department of Health Services. He holds an MPH in Epidemiology from the University of South Florida. He has been with the Department since 2012. Mr. Roach leads several programs at ADHS, including the Climate and Health Program which is in charge of implementing interventions for hazards such as extreme heat. He is also in charge of the Environmental Public Health Tracking Program, an environmental health surveillance system that allows users to view environmental and health data as maps,

charts, and graphs for aiding public health decision making. He is also in charge of the private well drinking water education program, which educates well owners on well contaminants and prevention measures. Mr. Roach also holds an Adjunct Lecturer position at the University of Arizona College of Public Health.



Ron Sauntman

Ron Sauntman is an emergency management practitioner, and professional educator with more than 20 years of professional experience working as a professional firefighter, tactical paramedic, in higher education institutions, and in local, county, and state level emergency management. He has worked in and led emergency operations centers during complex and dynamic incidents and successful recovery efforts. Over his 20-year career Ron has consistently been called upon by peers and other professional organizations to provide strategic advice, find solutions for challenging problems,

and identify and assemble teams of professionals that have the right blend of managerial talent, functional and program expertise, and commitment to excellence. Throughout his emergency management career Ron has served as an emergency planner, EOC Manager, and Director of Emergency Management; providing process improvement, change management, and preparedness; response, mitigation, recovery, and COOP planning for local, county, and state government, a U.S. Forest Service partner, Yavapai College, and the Arizona Department of Emergency and Military Affairs. Ron has also worked as a lead instructor working for Texas Engineering and Extension Services (TEEX), (Texas A&M University); providing education and certification in Enhanced Incident Management, Jurisdictional Emergency Operations Centers, and Sporting/Special Event Incident Management. Ron's commitment to excellence is evidenced by his history of formal education, continuous career evolution, fostering organizational excellence through servant leadership practices, appointments to world renowned educational organizations, and the desire to empower and develop the future of our nation and the organizations which he serves as an educator, consultant, and professional emergency manager.

About the Speakers cont.



Keynote

Nancy J. Selover

Nancy J. Selover has been the State Climatologist for Arizona since 2007, and serves as co-chair of the Monitoring Technical Committee of the state Drought Task Force, and participates in the statewide Flood Warning Task Force and the state and county Hazard Mitigation Plan updates. She is the state co-chair of the citizen-science precipitation monitoring network, CoCoRaHS (Community Collaborative Rain, Hail and Snow). The State Climate Office is located at Arizona State University and provides climate data and information to researchers, government and non-government agencies, and the public. Her research interests include the climate monitoring, urban heat island, evaporation, drought, monsoon, and climate adaptation.



Stefanie Smallhouse

Stefanie Smallhouse is the current President of the Arizona Farm Bureau Federation, Arizona's largest farm and ranch organization with membership that represents production agriculture throughout the State of Arizona. She has held an elected position within Farm Bureau since 2006 from the county level to state leadership. She is also one of five western region representatives to sit on the American Farm Bureau Federation Board of Directors, serves on the AFBF Trade Committee, and previously Chaired the AFBF Environmental Issues Advisory Committee. Prior to her election to serve as AZFB

President, Stefanie had been the Executive Director of the Arizona Water Protection Fund for the State of Arizona and the Executive Director for the Arizona Association of Conservation Districts. Stefanie received her Bachelor of Science in Agriculture from New Mexico State University and worked as a wildlife biologist for the Bureau of Land Management in Southern Utah until marrying her husband Andy—a fifth generation farmer and rancher in the San Pedro River Valley of Southeastern Arizona. Together they have two children and raise beef cattle, forage crops, mill mesquite lumber, and grow saguaro cactus from seed for wholesale to landscaping and nursery companies. Her research interests include the climate monitoring, urban heat island, evaporation, drought, monsoon and climate adaptation.



Liz Smith

Liz Smith's work focuses on using storytelling and media to create measurable impact and systemic change. She has more than fifteen years of strategic communications and film making experience. She's currently co-producing YOUTH v GOV, the feature documentary about 21 youth plaintiffs who are leading the ground breaking constitutional lawsuit against the U.S. government for willfully acting, over six decades, to create our climate crisis. She's also producing and writing an episode of Changing Seas for South Florida PBS about the upcoming 10th anniversary of

Deep Water Horizon oil spill; and she's consulting with nonpartisan non-profit, Fair Vote Washington, helping to bring ranked-choice voting to Washington state for a fairer, more civil, more representative democracy. Previously, Liz was the Director & COO of Conservation Media Group, where she designed the CMG Catalyst Workshop, a week-long retreat on media impact for filmmakers, activists, and non-profits. She has worked with dozens of filmmakers and organizations on developing media impact projects, including 350.org, The Ocean Foundation, and National Marine Sanctuaries Foundation. She spent six years working in ocean exploration and conservation as a filmmaker, photographer, and communications director aboard research vessels in the Pacific Ocean, the Caribbean, the Gulf of Mexico, and the Mediterranean. With more than a year of sea time, she has visited 2,000-year-old Greek and Roman shipwrecks, participated in the search for Amelia Earhart, and assisted with search and recovery operations off the coast of Syria. As the communications director for ocean explorer and scientist, Dr. Robert Ballard, Liz coordinated a STEM initiative to bring 4,000+ hours of live underwater exploration and 2000+ shipboard interactions via satellite to 50,000+ students in schools & science centers internationally. Prior to working in ocean exploration, Liz produced films and multimedia about astrophysics & earth science at NASA's Goddard Space Flight Center. She produced one of NASA's earliest video podcasts for the FERMI satellite launch, and created NASA's first YouTube page. She also collaborated

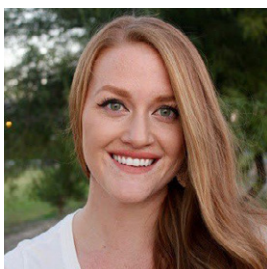
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with Nobel astrophysicist Dr. John Mather on his 2006 Nobel Prize multimedia presentation for the Smithsonian National Air and Space Museum. Liz has been a Fulbright Specialist in science communications, is a member of American MENSA, and holds an MFA in Science and Natural History Filmmaking from Montana State University and a BA in Astronomy from Whitman College.



Jennifer Vanos

Jennifer Vanos holds an interdisciplinary faculty appointment spanning environmental and human health within the School of Sustainability at Arizona State University. Her research within human biometeorology centers around extreme heat and exertional heat illness, air pollution exposure, and children's health in urban areas. Vanos utilizes both empirical measurement and modeling of atmospheric and physiologic parameters to understand links between the ambient environment, bioclimatic design, and human health. She is currently running numerous field projects in Arizona and collaborates with schools, government, and non-profits in community-based research. Dr. Vanos is an active member of the Urban Climate Research Center at ASU and an affiliate faculty in the School of Geographical Sciences and Urban Planning. She is a Scientific Advisor for the Korey Stringer Institute and the National Program for Playground Safety, as well as vice-chair of the Board on Environment and Health for the American Meteorological Society. Vanos recently won the 2017 Tromp Scientific Award from the International Society of Biometeorology. Vanos previously held faculty positions at the University of California San Diego in Climate and Human Health and at Texas Tech University in Atmospheric Sciences. She completed her Postdoctoral training at Health Canada and received her Ph.D. from the University of Guelph in Canada.



Rietta Wagoner

Rietta is a PhD student in the Environmental Health Sciences Program at the University of Arizona College of Public Health and Research Specialist at the Southwest Environmental Health Sciences Center. She has a broad background in public health promotion and prevention with detailed training in environmental and occupational health. She is passionate about addressing environmental health justice in border, rural, and agricultural communities. She is currently involved in several projects including farm worker heat stress and dehydration during the workday, field-worker pesticide exposure, dairy workers' exposure to zoonotic organisms, and water quality in border communities.

Thank You

Partners

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Center for Health Equity Research, Northern Arizona University
Global Futures Laboratories, Arizona State University
Green Fund, Northern Arizona University
Office of Sustainability, Northern Arizona University
Institute for Tribal Environmental Professionals, Northern Arizona University
Sustainability Program, City of Flagstaff
Student Activities Council, Northern Arizona University
Institute of the Environment, University of Arizona
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Volunteers and Advisors

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Program Design by Nikki Escamilla Guardiola and Victor Leshyk.

Climate 2020: Seven Generations for Arizona will offset carbon related to summit travel in January 2020.

As a long-lasting gift to our summit participants, we are planting a tree in North America for each participant. Through reforestation, trees help clean air, capture rainwater, provide habitat for plants and animals, cool the planet, and provide numerous economic benefits. Learn more at onetreeplanted.org



