## **THE EUTURE OF WATER** LESSONS FROM THE COLORADO RIVER BASIN

### SPEAKERS, MODERATORS, AND PANELISTS

#### FRIDAY, MARCH 29

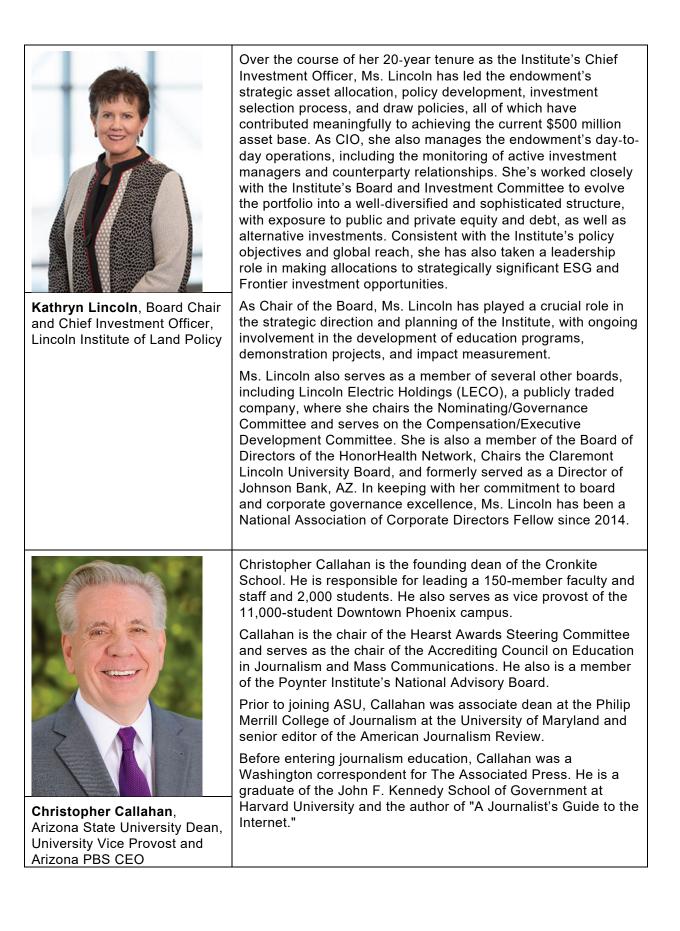
#### Welcome



**George McCarthy**, President and CEO, Lincoln Institute of Land Policy Dr. George "Mac" McCarthy is President and CEO of the Lincoln Institute of Land Policy in Cambridge, Massachusetts. The Lincoln Institute seeks to improve quality of life through the effective use, taxation, and stewardship of land. A nonprofit private operating foundation whose origins date to 1946, the Lincoln Institute researches and recommends creative approaches to land as a solution to economic, social, and environmental challenges.

Before joining the Lincoln Institute in 2014, Mac directed Metropolitan Opportunity at the Ford Foundation which sought to provide disadvantaged people better access to good jobs and other opportunities for advancement by supporting regional planning and coordinated transportation and housing development to alleviate poverty and reduce its concentration in metropolitan areas in the U.S. and developing countries in Asia, Africa, and Latin America.

Mac has worked as Professor of Economics at Bard College, Resident Scholar at the Jerome Levy Economics Institute, Visiting Scholar and Member of the High Table at King's College of Cambridge University, Visiting Scholar at the University of Naples, Italy, and Research Associate at the Centre for Social Research in St. Petersburg, Russia. Mac received a B.A. in Economics and Mathematics at the University of Montana; an M.A. in Economics at Duke University; and, a Ph.D. in Economics at the University of North Carolina at Chapel Hill.



#### **Keynote Address**



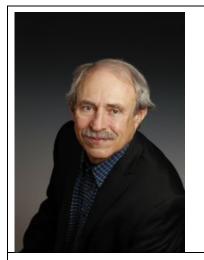
**Bruce Babbitt**, Former U.S. Secretary of the Interior and Governor of Arizona

Bruce Babbitt served as governor of Arizona from 1978 to 1987 and as secretary of the interior from 1993 to 2001. He received a B.A. in geology from the University of Notre Dame, a M.Sc. in geophysics from the University of Newcastle upon Tyne, and a J.D. from Harvard Law School.

As governor of Arizona, he led enactment of the Arizona Groundwater Management Act of 1980, which remains the most comprehensive water regulatory system in the United States, and he established the Department of Water Resources and the Department of Environmental Quality.

As secretary of the interior he oversaw regulatory reforms in the Bureau of Reclamation, the nation's largest water provider, and he initiated water management programs in the Florida Everglades, the Platte River Basin and the Lower Colorado River Basin. He led negotiations for the California Bay Delta accord of 1994 and just completed working with former California Governor Jerry Brown to manage statewide negotiations to revise stream flow standards in the Sacramento and San Joaquin river basins.

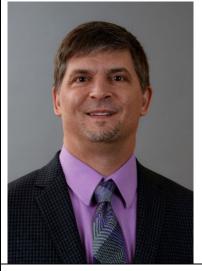
#### Session 1: Framing the Context/History of the Colorado River



Allen Best, who wrote "Hydraulic Empire: Sharing a Legacy, Carving a Future for the Colorado River" in the January 2019 issue of the Lincoln Institute's *Land Lines*, writes about water in the Southwest and the Great Plains.

Best began writing about water while editing newspapers for more than 20 years in mountain towns located in the Colorado River headwaters. Now working from a base in metropolitan Denver, he reports that 78 percent of his water still comes from the Colorado River Basin. In the last two years, he has walked along ditches where the Colorado River, at its origin, gets diverted across the Continental Divide and seen its denouement at just inside the U.S-Mexican border at Los Algodones, well short of the Gulf of California. He has contributed frequently to *Planning, Headwaters*, and other magazines.

*Moderator:* **Allen Best**, Energy News Network



Panelist: Daniel Bunk, Deputy Chief, Boulder Canyon Operations Office, Lower Colorado Region, U.S. Bureau of Reclamation

Dan Bunk is the Deputy Chief of the Boulder Canyon Operations Office (BCOO) which is part of the U.S. Bureau of Reclamation's Lower Colorado Region in Boulder City, Nevada. BCOO's primary function is to assist the Secretary of the Interior in fulfilling the role of water master in lower Colorado River basin. Prior to his current position, Dan was the River Operations Manager for BCOO, whose team helps to determine the annual and monthly reservoir operations for Lake Mead, conducts longterm modeling and planning studies, and provides stakeholders with analysis on hydrologic conditions and drought impacts in the Colorado River Basin. Dan has 17 years of experience in water resources in the western United States, including 13 years with his current office in Boulder City.



Panelist: Anne Castle, Senior Fellow, Getches-Wilkinson Center for Natural Resources, University of Colorado, Boulder

Anne Castle is a senior fellow at the Getches-Wilkinson Center for Natural Resources, Energy, and the Environment at the University of Colorado, focusing on western water policy issues. From 2009 to 2014, she was Assistant Secretary for Water and Science at the U.S. Department of the Interior where she oversaw water and science policy for the Department and had responsibility for the U.S. Bureau of Reclamation and the U.S. Geological Survey.

While at Interior, Castle spearheaded the Department's WaterSMART program, which provides federal leadership on the path toward sustainable water supplies and was the driving force behind the 2010 federal MOU addressing sustainable hydropower. Castle also provided hands-on leadership on Colorado River issues and was the Chair of the Glen Canyon Dam Adaptive Management Work Group and a champion of Minute 319 between the US and Mexico. Castle is a recovering lawyer, having practiced water law for 28 years with the Rocky Mountain law firm of Holland & Hart.

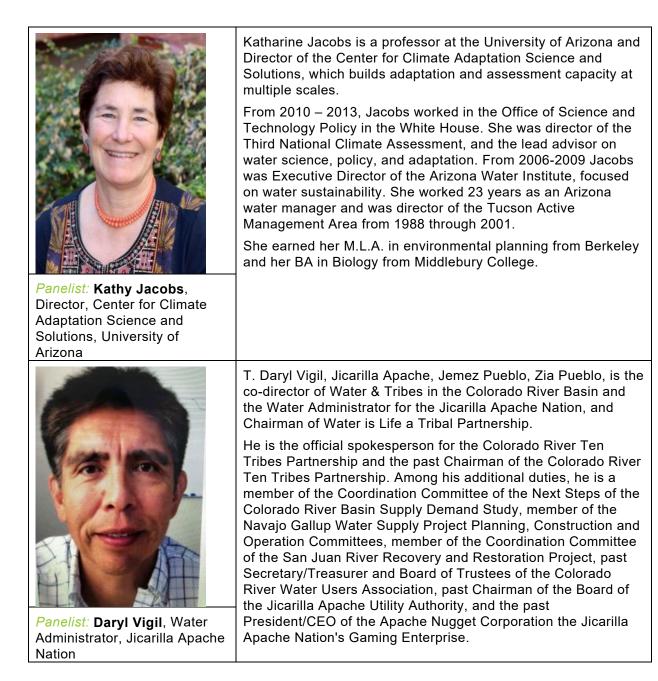


Panelist: Sara Porterfield, Founder, Tributaries Consulting LLC

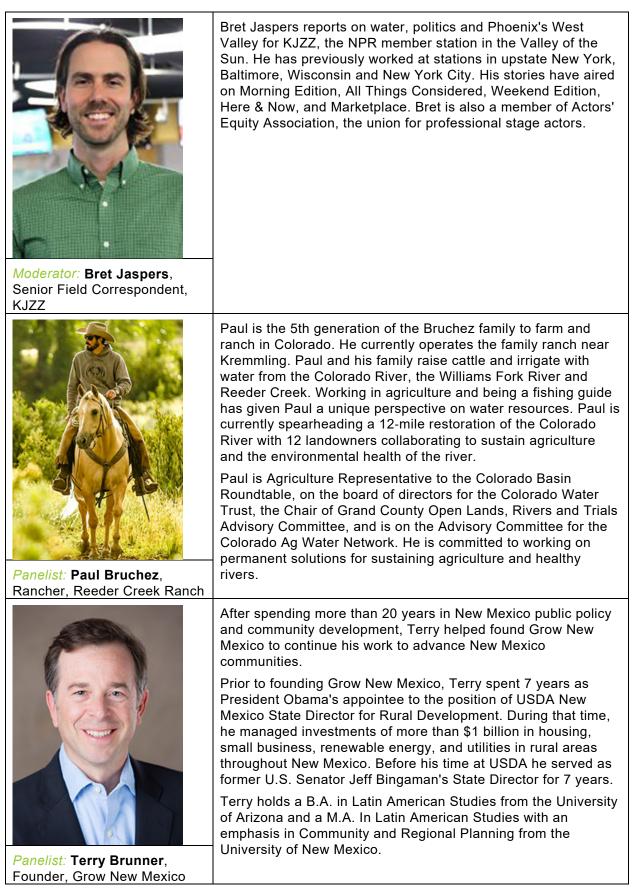
Sara Porterfield is the founder and principal of Tributaries Consulting, a historical consulting firm that provides research, writing, education, and public outreach for the water community. She holds a PhD in History from the University of Colorado Boulder and is currently at work on a book about the transnational history of the Colorado River. Her research explores how the Colorado has historically been connected to rivers around the world through policy, infrastructure, and recreation and how this history changes our understanding of Western water. Her goal is to expand understanding of and narratives about the American West's water and bring fresh, innovative perspectives to present and future challenges facing water in our region. When not writing and researching, you can find Sara on the trails and rivers of the American West or trying (usually in vain) to wear out her border collie mix, Japhy Ryder.

#### Session 2: Hydrology, Climate, Land and Water: How Warming has Changed Everything





#### Session 3: Around the Water Table: Connecting with Stakeholders





*Panelist:* **Kirsten James**, Director of California Policy, Ceres, Inc.

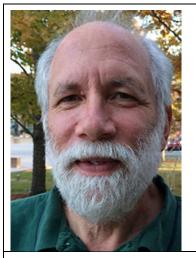
Kirsten James is the director of California policy and partnerships at Ceres. She leads strategy development for Ceres's California-focused policy work. She engages companies and investors in support of public policies that call for sustainable water management, clean energy and greenhouse gas emissions reductions in California. Kirsten manages the Ceres Connect the Drops campaign, which showcases the strong leadership of California companies and policymakers to advance resilient water solutions that ensure better management of the state's water supplies. She also works to expand Ceres' visibility and partnerships in California.

Kirsten is a regular blogger, providing commentary on California water policy and corporate water stewardship. In her personal capacity, she serves as a board member on the Los Angeles League of Conservation Voters. Prior to Ceres, Kirsten worked for nine years at the Santa Monica-based environmental group, Heal the Bay. She served as their Science and Policy Director, leading the organization's efforts related to statewide and regional water quality and water supply policy and regulation.

She graduated with a bachelor's degree from Northwestern University and a master's degree in environmental science and management from the Bren School at University of California Santa Barbara.

#### Session 4: Linking Land and Water in the Colorado Basin





Panelist: Stu Feinglas, Retired Water Resources Specialist, City of Westminster, Colorado



*Panelist:* **Jim Holway**, Director, Babbitt Center for Land and Water Policy Stu Feinglas has been working with utilities and municipalities in conservation, planning, and finance since 1982. Stu started working for the City of Westminster, Colorado in 2001, as was most recently the city's Senior Water Resources Analyst.

In Westminster, Stu's responsibilities included developing water demand projections based on the City's comprehensive plan, managing the water and sewer development fee program as well as the most recent rate and fee study, developing and implementing conservation programs, drought management, and participating in the City's development process.

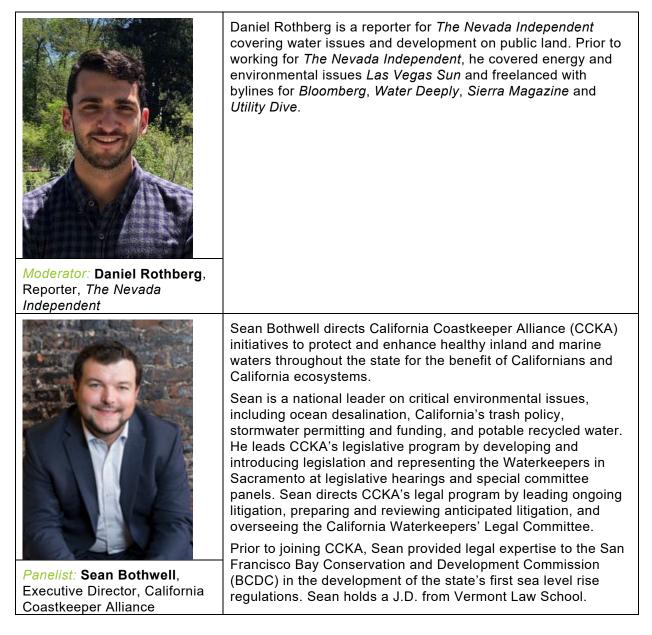
Stu retired from the City in 2018 but has a passion for water and land use on the front range and throughout the west.

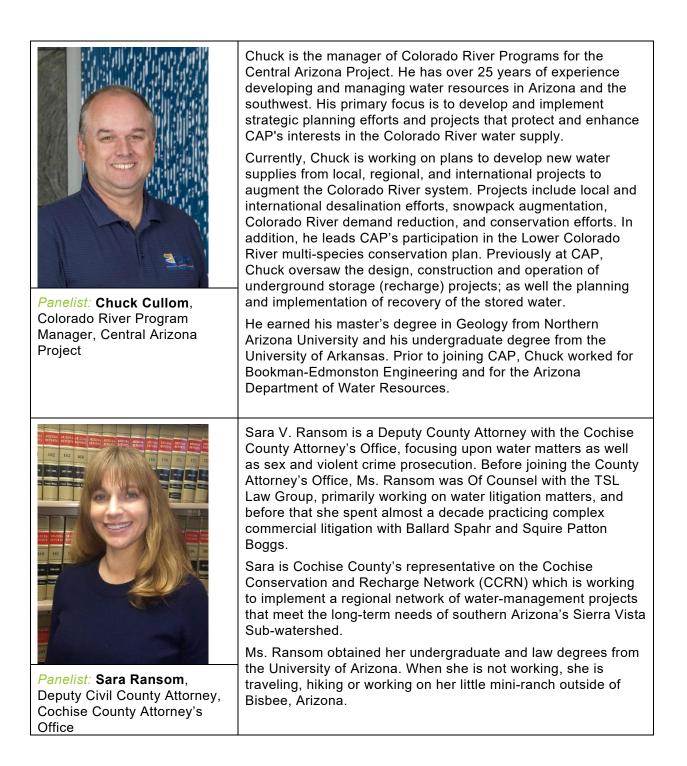
Jim Holway is director of the Babbitt Center for Land and Water Policy at the Lincoln Institute of Land Policy. He has 35 years of experience on water and natural resources management. In November 2016, Jim was re-elected to represent Maricopa County on the Board of the Central Arizona Water Conservation District. Jim previously directed the Western Lands and Communities program for the Sonoran Institute and the Lincoln Institute of Land Policy.

Prior to joining the Sonoran Institute in 2009, Jim taught as a professor of practice in sustainability and served as the Arizona State University Coordinator for the Arizona Water Institute. He previously served as Assistant Director of the Arizona Department of Water Resources where he directed the implementation of Arizona's groundwater management programs.

Jim earned his bachelor's degree in political science from Cornell University and both a Ph.D. and Master's in Regional Planning from the University of North Carolina. Jim was also inducted into the College of Fellows of the American Institute of Certified Planners in 2012.

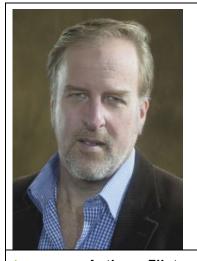
#### Session 5: Future Water Supplies, Technology, and Conservation





#### **Special Guest Interview**





*Interview et*: **Anthony Flint**, Senior Fellow, Office of the President, Lincoln Institute of Land Policy

Anthony Flint is Senior Fellow in the Office of the President at the Lincoln Institute of Land Policy. He is engaged in writing and research on a variety of topics related to sustainable cities, including infrastructure financing, climate resilience, affordable housing, and the regeneration of post-industrial cities.

A contributor to the Lincoln Institute's magazine Land Lines and author of the feature Mayor's Desk, he is also a correspondent at The Atlantic's CityLab and The Boston Globe, and writes for The New Republic, Metropolis, Next City, Architect magazine, Planning magazine, Planetizen, and many other publications. He is author of Modern Man: The Life of Le Corbusier, Architect of Tomorrow (New Harvest); Wrestling with Moses: How Jane Jacobs Took on New York's Master Builder and Transformed the American City (Random House); and This Land: The Battle over Sprawl and the Future of America (Johns Hopkins University Press); as well as co-editor of Smart Growth Policies: An Evaluation of Programs and Outcomes (Lincoln Institute).

He has been a journalist for over 30 years, primarily at *The Boston Globe*, a policy advisor on smart growth for Massachusetts state government, a visiting scholar and Loeb Fellow at Harvard University's Graduate School of Design, a writer in residence at The American Library in Paris, a practitioners fellow at The Rockefeller Foundation Bellagio Center, and a curator and speaker at TEDxBeaconStreet. He earned his B.A. from Middlebury College and an M.S. from Columbia University's Graduate School of Journalism, and attended the University of St. Andrews and the Bread Loaf Writers Conference. *Wrestling with Moses* won a Christopher Award in 2010.

### **SATURDAY, MARCH 30**

#### Session 6: Innovations in Water Data and Decision Support Tools



*Moderator:* **Mitch Tobin**, Director, Water Desk, University of Colorado

Mitch Tobin is director of the Water Desk, a new journalism initiative at the University of Colorado in Boulder that focuses on Western water issues and the Colorado River.

From 1998 to 2006, Mitch covered water, environmental, and other issues for the Napa Valley Register, Tucson Citizen, and Arizona Daily Star. His 2010 book, Endangered: Biodiversity on the Brink, analyzes the impact of the Endangered Species Act and won a gold medal in the Independent Book Publisher Awards. After leaving the newspaper business, Mitch worked at California Environmental Associates and was a lead writer of the Design to Win report that helped inspire foundations to commit \$1 billion to create the ClimateWorks Foundation. As a consultant, he also evaluated foundations' grantmaking on environmental issues. With support from philanthropy, he created EcoWest.org to track environmental trends in the American West and WaterPolls.org to analyze public opinion on water issues.

Mitch has a B.A. in ethics, politics, and economics from Yale and an M.A. in political science from the University of California at Berkeley.

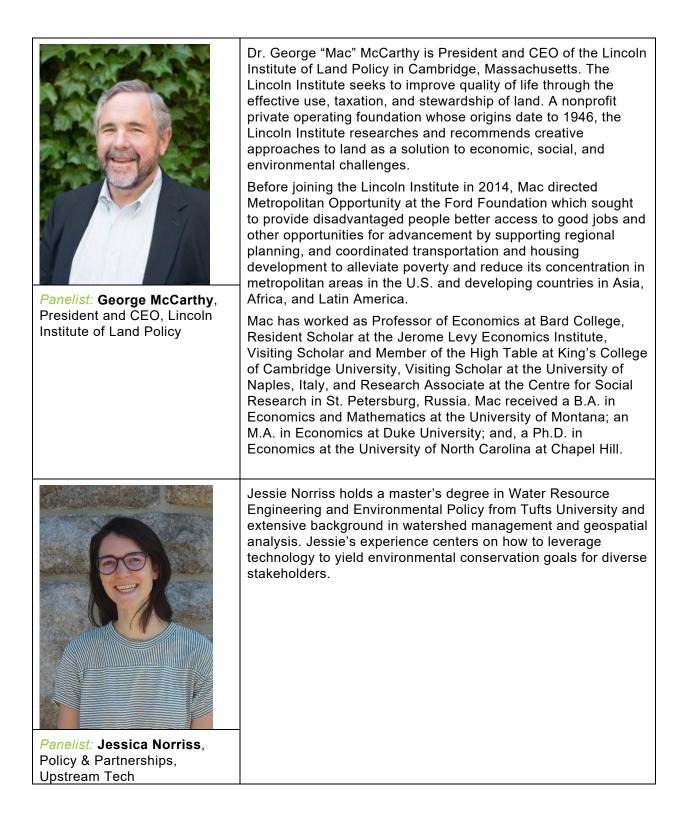


Panelist: Jeffrey Allenby, Director of Conservation Technology, Chesapeake Conservancy

Jeffrey Allenby is the Director of Conservation Technology at Chesapeake Conservancy. His team explores new methods to improve the effectiveness and efficiency of the Conservancy's conservation and restoration programs and focuses on developing ways to empower partner organizations.

Before joining the Conservancy, Jeff worked with the University of Maryland Center for Environmental Science and the Maryland Department of Natural Resources, managing a grant program focused on local governments' response to climate change and coastal hazards, and at the Chesapeake Bay Foundation.

Jeff has a master's in environmental management and Certificate in Geospatial Analysis from Duke University and a BS from University of Richmond.



#### Session 7: Preparing for Potential Shortages: Colorado River Drought Contingency Planning



*Moderator:* **Ian James**, Reporter, *The Arizona Republic* 

Ian James is a reporter with *The Arizona Republic* who focuses on water and the environment. He has written extensively about climate change and water scarcity in the West. He wrote an award-winning series about the problem of groundwater depletion and how it's affecting farming communities in the United States, India, Peru and Morocco. He has also written about how climate change is shrinking the mountain snowpack across the West and putting growing strains on the Colorado River.

Before joining *The Arizona Republic* in 2018, Ian worked for five years for *The Desert Sun* in Palm Springs, where he developed a specialty in explanatory and investigative reporting on water and environmental issues. He reported on air pollution, drought and local water policy in California, and helped produce a series on the shrinking Salton Sea. In one series of investigations, his reporting revealed that the U.S. Forest Service had for years allowed the bottled water maker Nestlé to pipe water out of a national forest using a permit that listed 1988 as the expiration date. In response to the stories, the Forest Service initiated a review of the company's permit.

Ian's work has won honors including an APME storytelling award, a Best of the West award for environmental reporting, three CNPA awards for environmental reporting, an American Meteorological Society science journalism award, and the Knight-Risser Prize for Western Environmental Journalism.



*Panelist:* **Sandy Bahr**, Grand Canyon Chapter Director, Sierra Club

Sandy Bahr is the Chapter Director for the Grand Canyon (Arizona) Chapter of Sierra Club, where her responsibilities include advocating for environmental protection, including climate action, with various state and federal agencies, conducting research, developing and evaluating policies, conducting grassroots outreach and organizing, developing and implementing priority projects, fundraising and budget development, and supervising staff, among others. She has worked actively on environmental protection issues in Arizona for the past twenty-eight years, both as a volunteer and as staff for various organizations.

Sandy monitors and advocates on environmental and energy matters at the Arizona Legislature, the Arizona Corporation Commission, and various state and federal agencies. She has received several awards for her work, including the 2016 Scrapping Bear Award from the Arizona Chapter of the Wildlife Society for her advocacy work relative to wildlife and the Arizona Interfaith Power and Light 2017 SAGE award.

Sandy has an associates in applied science in civil engineering, a bachelors in environmental studies, and a masters in legal studies.



Panelist: Clint Chandler, Assistant Director, Arizona Department of Water Resources

Clint Chandler is the Assistant Director for the Water Planning & Permitting Division of the Arizona Department of Water Resources. The Division is comprised of seven sections: Colorado River Management; Groundwater Permitting and Wells; Surface Water Permitting; Active Management Areas; Active Management Area Planning and Data Management; Assured and Adequate Water Supply and Recharge Permitting; and Statewide Planning and Tribal Liaison. These are the Department's primary planning and policy functions for the management of the State's water supplies.

Clint was U.S. Senator Jeff Flake's Metro Phoenix and Greater Arizona Regional Director. The role included outreach and issue-specific responsibilities for an area that encompasses the entirety of Arizona, except for Cochise, Pima and Santa Cruz Counties. The issue-related tasks included resource and energy policy, transportation topics, border matters, Tribal issues, and, occasionally, banking, labor, and other economic subjects.

He was employed as the field director in the Office of U.S. Senator Jon Kyl, the Republican Whip, for the final four years of the senator's third, and last, term. Prior to his tenure in Senator Kyl's office, Clint's senate experience consisted of three stints with the Office of U.S. Senator Pete V. Domenici of New Mexico. He initially served on Senator Domenici's Capitol Hill staff, attending to budget and tax matters.

Clint is an honors graduate of the University of New Mexico with a triple major in economics, history, and political science.



Panelist: Lorelei Cloud, Treasurer, Tribal Council, Southern Ute Indian Tribe

Council Member Lorelei Cloud is a member of the Southern Ute Indian Tribe and proudly serves the Tribal Membership on the Southern Ute Indian Tribal Council. Born and raised on the Southern Ute Reservation, Cloud was elected to Tribal Council in December 2015. During her first term on Tribal Council, she welcomed the opportunity to serve as Vice-Chairman and Treasurer. After being re-elected in December 2018, Cloud continues her service to the Tribal Membership as a member of Council and Treasurer.

Prior to her election, Council Member Cloud worked 5 years as the Land Assistant Supervisor for the Southern Ute Growth Fund's Red Willow Production Company. While employed at the Growth Fund, she was a member of the Southern Ute Growth Fund Art Committee, the Southern Ute Growth Fund Traveling Team, and the Tribal Member Employment Advisory Committee. Council Member Cloud has also gained valuable work experience at Sky Ute Sand and Gravel, Southern Ute Housing Authority, and at the Bank of Colorado.

Council Member Cloud has also served as the Chairman for the Ten Tribes Partnership from 2017-2018. She also has a seat on the Budget Committee, Pension Committee, and the Southern Ute Indian Montessori Academy Parent Advisory Group.

Council Member Cloud is a true advocate for the Ute language, traditions, and culture; actively participating in cultural events and traditional gatherings. She is very passionate about helping the Southern Ute youth, women, and elders.



*Panelist:* **Michael Cohen**, Senior Associate, Pacific Institute

Michael Cohen is a Senior Associate at the Pacific Institute, an Oakland-based non-profit organization, where he works on Salton Sea and Colorado River challenges. He has been a leading Salton Sea advocate for more than 21 years, developing revitalization proposals, promoting timely intervention, and writing articles, reports, and opinion pieces.

He served on the Natural Resources Agency's Salton Sea Advisory Committee from 2004-2007 and is a member of the Salton Sea Task Force's Agency Stakeholder Committee and several of its workgroups. He is the author of the June 2011 Municipal Deliveries of Colorado River Basin Water, detailing changes in population and municipal water deliveries for cities relying at least in part on water from the basin and is the lead author of the May 2013 Water to Supply the Land: Irrigated Agriculture in the Colorado River Basin.

He is the lead author of several other Institute reports, including Missing Water: The Uses and Flows of Water in the Colorado River Delta Region (2001). He is also the co-author of several journal articles on water and the environment in the border region.

Mr. Cohen has a master's degree in Geography, with a concentration in Resources and Environmental Quality, from San Diego State University, and a B.A. in Government from Cornell University.



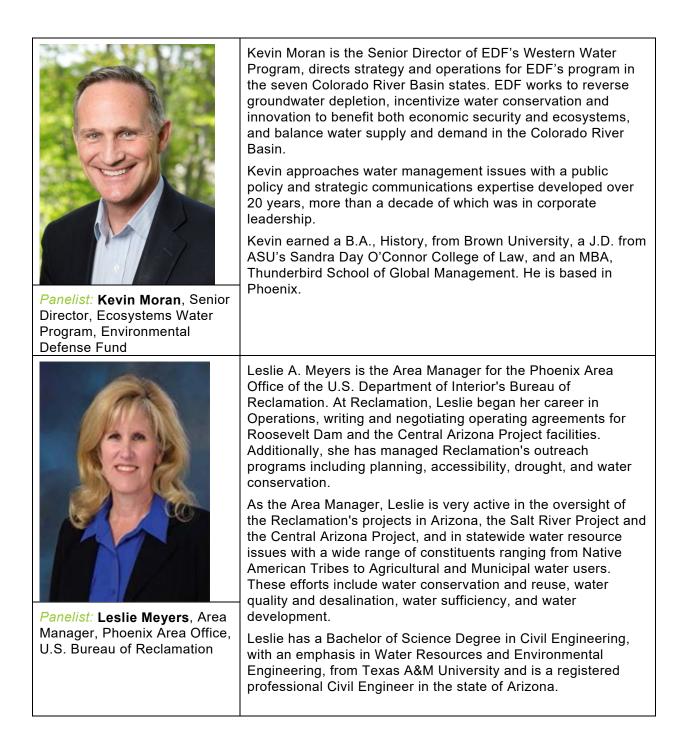
*Panelist:* **Jim Lochhead**, CEO/Manager, Denver Water

Jim Lochhead was appointed Denver Water's CEO/Manager in 2010. Lochhead leads nearly 1,100 employees at Denver Water overseeing work to provide a reliable water supply to the City of Denver and surrounding suburbs where Denver Water has service contracts. Lochhead also oversees the stewardship of a resilient collection, treatment and distribution system that includes 4,000 miles of watershed land, 20 reservoirs, four treatment plants and 3,000 miles of pipe.

Lochhead currently serves on the boards of the Association of Metropolitan Water Agencies, the Water Research Foundation, the Water Utility Climate Alliance, the Water Foundation and the Denver Botanic Gardens.

Prior to Denver Water, Jim was in private law practice, dealing with natural resource issues throughout the United States and internationally. He was also executive director of the Colorado Department of Natural Resources. He was the Colorado governor's representative on interstate Colorado River operations, and served on the Colorado Water Conservation Board, Great Outdoors Colorado, The Nature Conservancy and Colorado Conservation Trust.

Lochhead received the 2014 Wayne N. Aspinall "Water Leader of the Year" award from the Colorado Water Congress and the 2015 President's Award from the Colorado Foundation for Water Education, given to a person with a history of doing meaningful work in the field of water.





Panelist: Roberto Salmón, Mexican Commissioner, Mexico-United States International Boundary and Water Commission

Roberto Salmón Castelo, Mexican Commissioner, for the International Boundary and Water Commission (Comisión Internacional de Limites y Aguas, CILA), has a wide range of experience in hydraulic projects. He was Northwest Regional Manager of the National Water Commission (CONAGUA) from 2002 to 2006 and from then until 2008 he served as General Manager of the Northwest Basin Unit based in Hermosillo, Sonora.

He also served as Treasurer of the University of Sonora, as well as Administrative Chairman of the Department of Business Administration of the same university. Additionally, Mr. Salmón Castelo was Planning and Special Projects Director for the Sonora Center for Research and Development in Natural Resources and has remained a partner in a variety of companies that carry out basin management projects and environmental studies.

He has a Bachelor of Science in Agriculture from the University of Arizona, where he also received a Master of Science degree in the same field. Additionally, he is doing advanced studies in Water Resource Administration at the University of Arizona and is currently a candidate for a doctoral degree there.

#### Lunch Keynote Addresses



**Terry Fulp**, Lower Colorado Regional Director, U.S. Bureau of Reclamation

Dr. Terrance (Terry) Fulp, Ph.D., is the Regional Director of the Bureau of Reclamation's Lower Colorado Region. Headquartered in Boulder City, Nevada. The Region encompasses the last 700 miles of the Colorado River to the Mexican border, which includes most of Arizona, southern Nevada, and southern California.

A Reclamation employee since 1989, Terry is responsible for implementing the Secretary of the Interior's water master functions in the Lower Basin, including water delivery, accounting, and contracting. Terry oversees hydropower operations and maintenance for Regional facilities including Hoover Dam, as well as the implementation of the Lower Colorado River Multi-Species Conservation Program, a multiagency effort to conserve and work towards the recovery of endangered species and to protect and maintain wildlife habitat on the lower Colorado River.

Terry has been instrumental in the negotiation and execution of several major water policy initiatives in his career. These include guidelines for the coordinated operation of Lake Powell and Lake Mead, in place through 2026, and binational agreements pursuant to the 1944 Treaty with Mexico for Colorado River management, also in place through 2026.



**Roberto Salmón**, Mexican Commissioner, Mexico-United States International Boundary and Water Commission

Roberto Salmón Castelo, Mexican Commissioner, for the International Boundary and Water Commission (Comisión Internacional de Limites y Aguas, CILA), has a wide range of experience in hydraulic projects. He was Northwest Regional Manager of the National Water Commission (CONAGUA) from 2002 to 2006 and from then until 2008 he served as General Manager of the Northwest Basin Unit based in Hermosillo, Sonora.

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**Governor Stephen R. Lewis**, Governor, Gila River Indian Community

Stephen Roe Lewis was raised in Sacaton, "Gu-u-Ki", on the Gila River Indian Community. His parents are Rodney and Willardene Lewis. His paternal grandparents are the late Rev. Roe Blaine and Sally Lewis. His maternal grandparents are the late Willard and Catherine Pratt.

He graduated from Arizona State University with a Bachelors of Science and pursued graduate studies at John F. Kennedy School of Government at Harvard University.

Governor Lewis has served the Community as a Gaming Commissioner for the Gila River Gaming Commission, as a member of the Board of Directors for the Gila River Telecommunications, Inc., and as a member of the Board of Directors for the Gila River Healthcare Corporation.

Governor Lewis has worked on numerous political campaigns and organizing projects throughout Indian Country including Native voter organizing and Native voter protection in 2002 and selected as an Arizona delegate and Co-Chairing the Native American Caucus for the 2012 Democratic National Convention in Charlotte, North Carolina.

Governor Lewis currently oversees the implementation of the Community's Water Settlement of 2004 (the largest water settlement of its kind in United States history). Governor Lewis advocates for renewable and green technologies guided by O'otham agricultural history and cultural teachings. Governor Lewis's vision is to support a new generation of Community member agriculturalists with the goal of promoting and protecting the Community's shudag (water) and agricultural development for future generations.

#### Session 8: Toward Sustainable Futures for the Colorado River





Panelist: Pat Mulroy, Senior Fellow, William S Boyd School of Law, University of Nevada, Las Vegas



*Panelist:* **Jennifer Pitt**, Colorado River Program Director, Audubon

Pat Mulroy serves as a Non-resident Senior Fellow for Climate Adaptation and Environmental Policy for The Brookings Institution and as a Practitioner in Residence for the Saltman Center for Conflict Resolution at the UNLV William S. Boyd School of Law. Mulroy also serves on the Wynn Resorts Ltd Board of Directors. Between 1989 and early 2014, Pat served as General Manager of both the Las Vegas Valley Water District and the Southern Nevada Water Authority (SNWA).

Mulroy was a principal architect of the SNWA, helping to guide Southern Nevada through one of the worst droughts in the history of the Colorado River. At UNLV's Boyd School of Law, Mulroy's focus is on helping communities in water-stressed areas throughout both the American Southwest and the world develop strategies to address increased water resource volatility and identify solutions that balance the needs of all stakeholders.

Jennifer Pitt joined Audubon in December 2015 to advise the organization's strategies to protect and restore rivers throughout the Colorado River Basin. At Audubon she continues to lead the United States-Mexico collaboration to restore the long-desiccated Colorado River Delta. She serves as the U.S. co-chair of the bi-national work group whose partners will, through 2026, implement existing treaty commitments providing environmental flows and habitat creation.

Prior to joining Audubon, Jennifer spent 17 years working to protect and restore freshwater ecosystems in the Colorado River Basin at the Environmental Defense Fund. With partners, she led the conservation community's efforts to prioritize and implement restoration of the Colorado River Delta, and she worked with Colorado River stakeholders to produce the unprecedented Colorado River Basin Supply and Demand Study, the first federal assessment of climate change impacts in the basin and the first basin-wide evaluation of the impacts of river system operation on water supply reliability and river health.

Jennifer has also worked at the National Park Service headquarters and in Mesa Verde and Sequoia National Parks, as a legislative assistant to U.S. Congressman Mike Kopetski, and in the headquarters office of the NYC Department of Parks and Recreation.

Jennifer graduated from Harvard University and received a master's in Environmental Science and Policy from the Yale School of Forestry and Environmental Studies.



*Panelist:* **Dave White**, Director, Decision Center for a Desert City, Arizona State University

Dave D. White is Professor in the Arizona State University School of Community Resources and Development, Director of the ASU Decision Center for a Desert City, and Senior Sustainability Scientist in the Julie Ann Wrigley Global Institute of Sustainability.

White is internationally recognized for his contributions to science in support of sustainable development. He has published more than 50 peer-reviewed scientific journal articles advancing numerous fields including decision science, science and technology studies, sustainability science, and natural resources management. White is a contributing author to the Fourth U.S. National Climate Assessment. His work has been covered in popular media including *The New York Times, Wall Street Journal,* and National Public Radio. White is a recipient of the President's Medal for Social Embeddedness from Arizona State University and the Celebrating Natural Resources Award from the University of Idaho.

# Session 9: Practicing the Craft: Covering Water and Public Awareness about Water and Land Connections

Moderator: Mi-Ai Parrish, Sue   Clark-Johnson Professor in   Media Innovation and   Leadership, Arizona State   University	Mi-Ai Parrish is the Sue Clark-Johnson Professor in Media Innovation and Leadership. She also is the CEO and President of MAP Strategies Group, based in Phoenix. Previously, she was president and publisher of USA TODAY NETWORK Arizona, The Arizona Republic and azcentral.com. She served as president and publisher of the Kansas City Star and kansascity.com for four years and president and publisher of Idaho's largest media company for five years prior to that. She was a journalist for 15 years, ranging from the <i>Chicago</i> <i>Sun-Times, San Francisco Chronicle, The Arizona Republic</i> , (Minneapolis) <i>Star-Tribune</i> and <i>Virginian-Pilot</i> . Parrish is the recipient of the 2017 Athena Businesswoman of the Year, 2017 Asian Corporate and Entrepreneur Leader Champion, 2016 PSA Behavioral Health Champion and winner of Best Opinion Writing for USA TODAY NETWORK. She is an award-winning writer and international speaker. Her commentaries on the First Amendment and leadership have reached millions worldwide and been covered by international media. She serves as secretary of Greater Phoenix Leadership, vice-chairwoman of Banner Health Foundation and on numerous other boards.
	Parrish was the first female publisher of the <i>Kansas City Star</i> , the first Korean-American publisher in mainstream media and the first minority to serve as publisher of <i>The Arizona Republic</i> .
	Elizabeth Hightower Allen is the Features Editor of <i>Outside</i> <i>Magazine</i> . During her 20-year career at <i>Outside</i> , she also wrote the magazine's Natural Intelligence column; about the green movement in the late 2000s.
	She has edited long-form features on the Colorado River, the Dolores River, and Utah's proposed Lake Powell Pipeline. Two features she edited on the benefits of nature on human health have been nominated for National Magazine Awards, including one in 2019.
	She lives on the raging Santa Fe River in Santa Fe, New Mexico, with her husband (a former Colorado River guide), their daughter, two dogs, and a cat.
Panelist: Elizabeth Hightower Allen, Features Editor, <i>Outside Magazine</i>	



*Panelist:* **Cynthia Barnett**, Environmental Journalist in Residence, University of Florida College of Journalism and Communications

Cynthia Barnett is an award-winning environmental journalist who has reported on water and climate change around the world. Her latest book is *Rain: A Natural and Cultural History*, longlisted for the National Book Award and a finalist for the 2016 PEN/E.O. Wilson Literary Science Writing Award. Ms. Barnett is also the author of *Blue Revolution: Unmaking America's Water Crisis*, which articulates a water ethic for America. Ms. Barnett has written for *National Geographic* magazine, the *New York Times, Los Angeles Times, Wall Street Journal*, the *Atlantic, Discover* magazine, *Salon, Politico, Orion, Ensia* and many other publications.

Her numerous journalism awards include a national Sigma Delta Chi prize for investigative magazine reporting and eight Green Eyeshades, which recognize outstanding journalism in 11 southeastern states. She earned her bachelor's degree in journalism and master's in American history with a specialization in environmental history, and was a Knight-Wallace Fellow at the University of Michigan, where she spent a year studying freshwater.

Ms. Barnett teaches environmental journalism and nature and adventure writing at the University of Florida's College of Journalism and Communications in Gainesville, where she lives with her husband and children.



*Panelist:* **Sinjin Eberle**, Communications & Visual Media Director, *American Rivers* 

Sinjin believes that open spaces, wild landscapes, and freeflowing rivers deserve all the respect and reverence we can possibly afford them. With that in mind, he enthusiastically pursues his role with *American Rivers* and strives to raise the profile and prominence of the organization across the country. With a bachelor's degree in Environmental Science from Ball State University, and an extensive background in whitewater rafting, mountain biking, mountaineering, and mountain rescue, exploration of the outdoors is paramount to his life and career.

Primarily a writer, photographer, and creator of short films, he is versed in broad conservation issues of the Colorado Basin and the west, particularly water supply issues and protection of the Colorado River itself. Driving communications and advocacy across the west is a thrilling and consuming adventure, and one met with optimism and gusto. He lives in Durango, Colorado, commonly known as "Paradise".