



Introduction to the 2022 Annual Reporting Meeting Tribal Resources Session

Lucas S. Bair, U.S. Geological Survey, Southwest Biological Science Center,
Grand Canyon Monitoring and Research Center

Glen Canyon Dam Adaptive Management Program Annual Reporting Meeting
January 11-12, 2022

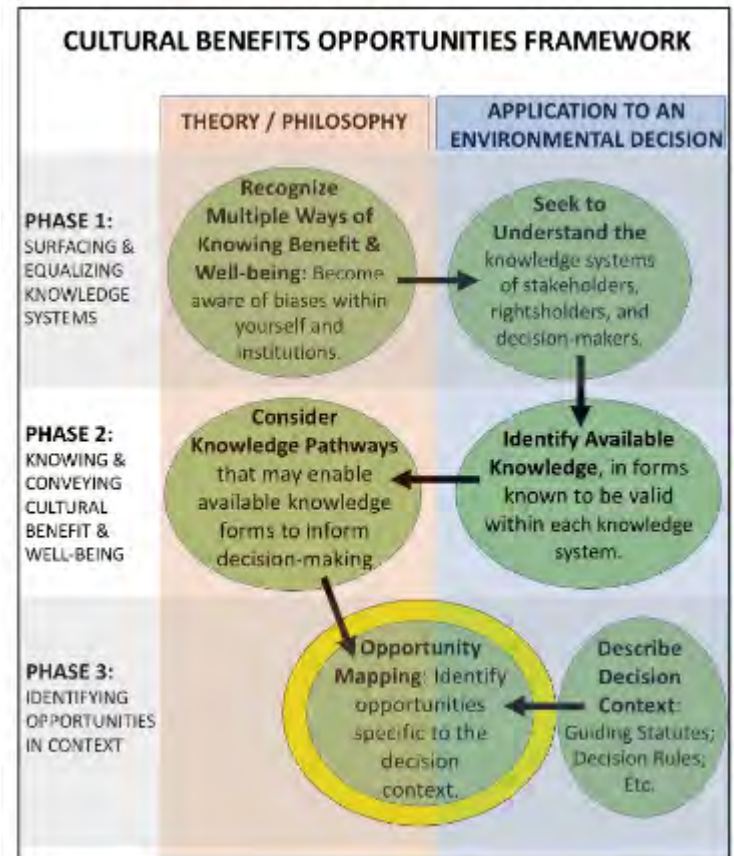
Glen Canyon Dam Adaptive Management Program Annual Reporting Meeting 2021

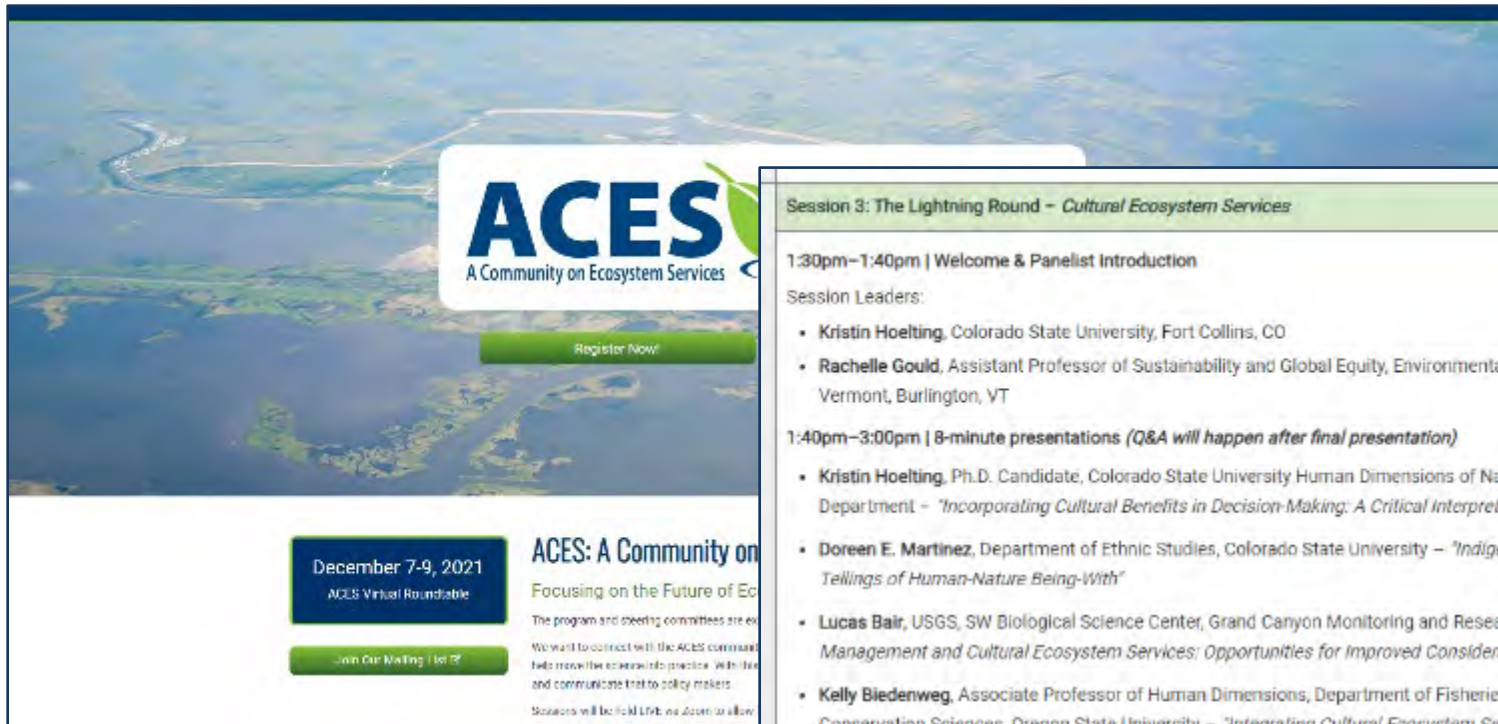
TIME (MST)	Thursday, January 21, 2021
8:30 – 8:40 (:10)	Welcome and Administrative: Seth Shanahan, TWG Chair <ul style="list-style-type: none"> • Introductions: Scott VanderKooi, Chief, USGS, GCMRC
Tribal Resources	
8:40 – 9:00 (:20)	Lucas Bair, USGS GCMRC, Incorporating tribal knowledge and preferences into adaptive management: A survey of the Hualapai Tribe
9:00 – 9:15 (:15)	Kurt Dongoske, Pueblo of Zuni, Place, time, and consciousness in the Glen Canyon Dam Adaptive Management Program (Session organizer), Introduction to session
9:15 – 9:35 (:20)	Giorgio Hadi Curti, San Diego State, What does science do? A disparate dance of states of affairs and cartographic events
9:35 – 9:55 (:20)	Edward Wemytewa, Pueblo of Zuni
9:55 – 10:15 (:20)	Lucas Bair, Emily Palmquist, and Charles Yackulic, USGS GCMRC
10:15 – 10:35 (:20)	Simone Athayde, Amazon Dams Network
10:35 – 10:55 (:20)	Claire Smith, Flinders University, Australia
10:55 – 11:15 (:20)	Rebecca Tsosie, James E. Rogers College of Law, University of Arizona, Discussant
11:15 – 101:45 (:30)	Panel Discussion: Place, time, and consciousness in the Glen Canyon Dam Adaptive Management Program, Kurt Dongoske, Pueblo of Zuni

Cultural Benefits Opportunities Framework

Virtual Collaborative Refinement Workshop, October 2021

- Organized by Kristin Hoelting and Doreen Martinez with assistance from Kurt Dongoske and Lucas Bair
- Workshop participants totaled 22. The group included approximately 11 Tribal participants, 10 academics, 6 Federal employees, 3 Tribal government staff, and 1 non-profit employee (categories overlapping). Tribal perspectives included Native Hawaiian, Grande Ronde, Lower Elwha Klallam, Tlingit, Anishinaabe Ojibway, Citizen Potawatomi, Mescalero Apache, Zuni, and Navajo.





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The program and steering committees are ex
We want to connect with the ACES communit
help move the science into practice with the
and communicate that to policy makers.
Sessions will be held LIVE via Zoom to allow

<https://conference.ifas.ufl.edu/aces/virtual/home.php>

Session 3: The Lightning Round – Cultural Ecosystem Services

1:30pm–1:40pm | Welcome & Panelist Introduction

Session Leaders:

- **Kristin Hoelting**, Colorado State University, Fort Collins, CO
- **Rachelle Gould**, Assistant Professor of Sustainability and Global Equity, Environmental Program, University of Vermont, Burlington, VT

1:40pm–3:00pm | 8-minute presentations (Q&A will happen after final presentation)

- **Kristin Hoelting**, Ph.D. Candidate, Colorado State University Human Dimensions of Natural Resources Department – *"Incorporating Cultural Benefits in Decision-Making: A Critical Interpretive Synthesis"*
- **Doreen E. Martinez**, Department of Ethnic Studies, Colorado State University – *"Indigenous Seeings and Tellings of Human-Nature Being-With"*
- **Lucas Bair**, USGS, SW Biological Science Center, Grand Canyon Monitoring and Research Center – *"Adaptive Management and Cultural Ecosystem Services: Opportunities for Improved Consideration of Plural Values"*
- **Kelly Biedenweg**, Associate Professor of Human Dimensions, Department of Fisheries, Wildlife and Conservation Sciences, Oregon State University – *"Integrating Cultural Ecosystem Services Valuation in Puget Sound Restoration Monitoring"*
- **Rachelle Gould**, Assistant Professor, The University of Vermont – *"Recent Developments in Cultural Ecosystem Services as Routes to Greater Equity and Justice in Ecosystem Services Research and Practice"*
- **Chris Armatas**, Aldo Leopold Wilderness Research Institute, Rocky Mountain Research Station, U.S. Forest Service – *"A Public Engagement Approach to Understand Human-nature Relationships: A Focus on Ecosystem Services and Drivers of Change"*
- **Charles M. Ka'ai'ai**, Community and Indigenous Program Coordinator, Western Pacific Regional Fishery Management Council (Retired) – *"Customary Management as a Pathway for More Equitable Integration of Cultural Benefits"*

3:00pm–3:30pm | Q&A with Panel Discussion

Incorporating Cultural Benefits Knowledge into Federal Decision Making

Structured decision making

- Full articulation of resource goals
- Performance metrics
- Tradeoff analysis

Uncertainty, value of information and adaptive management

