



GWS ParkForum 2025: A Conservation Solutions Workshop— Summary, Program, and Abstracts

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GWS ParkForum 2025

A conservation solutions workshop

University of Montana, Missoula
October 20–23, 2025

georgewrightociety.org/parkforum-2025



In partnership with the University of Montana, in 2025 the George Wright Society organized the inaugural GWS ParkForum conservation solutions workshop. It was the first in an annual series of interdisciplinary meetings that share innovations, answers, and training related to the challenges facing parks, protected/conserved areas, historic and cultural sites, and other forms of place-based conservation. **GWS ParkForum 2025** was held October 20–23 on the campus in Missoula, and was attended by 200 people.

The new GWS ParkForum workshops pick up on—and re-imagine—the **GWS Biennial Conferences on Parks Protected Areas, and Cultural Sites**, 17 in all, which were held from 1982–2017. Planned by a volunteer Program Team, GWS ParkForums offer integrated session types that provide a range of ways attendees can receive and share information.

Plenary Presentations. Daily opportunities for all attendees to come together to hear about and discuss key issues.

Core Workshop Sessions. Solutions-driven sessions in which participants grapple with real-life issues and develop potential solutions to them. Based on the knowledge and expertise of workshop participants, results-based desired outcomes include proven case study solutions and success stories, good practices, and tailored strategies to address site-specific challenges. The Core Workshop Sessions focus on four recurring themes:

1. Responding to **Climate Change** threats and impacts on parks, protected/conserved areas, cultural sites, and other forms of place-based conservation. Climate change—and the disastrous loss of biodiversity, which go hand in hand—are global emergencies. Climate change is the defining challenge of our time, reshaping not only the planet’s biological diversity but also a wide array of cultural practices that depend upon a stable natural world. Most protected areas have both cultural and natural heritage values. Making these areas more adaptive

and resilient to climate change is an essential part of humanity's overall response. Parks, protected/conserved areas, and cultural sites must also be in the forefront of demonstrating effective and practical climate mitigation measures.

2. **Integrating Natural and Cultural Heritage Conservation** wherever possible. The GWS's hallmark is bringing people from diverse backgrounds and skill sets together. In our experience, conservation outcomes—including landscape-scale conservation—are more effective and long-lasting if “nature” and “culture” are not in separate silos. While not every aspect of place-based conservation can be treated this way, there is much more scope to do this than commonly realized.
3. **Ensuring that Social and Environmental Justice** (more broadly, JEDI: justice, equity, diversity, inclusion) is part and parcel of place-based conservation. This is first and foremost a moral imperative to address past and continuing wrongs related to conservation activities. Beyond that, today JEDI is a prerequisite for conservation success because of larger societal demands for such redress, and to gain the support of a much broader and more representative portion of the public.
4. **Exploring the broad and significant concept of the Economic Value** that parks bring to communities on the local, regional, national and international levels. This value manifests in the direct economic returns parks generate from tourism. Equally if not more important, though harder to quantify, is the value of the ecological or ecosystem services parks provide to humankind for free. Economic value is important to stress because it is critical

to people's livelihoods and to the political context in which all parks operate.

Information-Sharing Sessions. Breakout sessions based on submissions to the workshop's Call for Proposals.

Paper and Poster Presentations on any topic related to parks, protected/conserved areas, cultural sites, and other forms of place-based conservation.

Three-Minute Research (3MR) Competition for Emerging Researchers. Open to current students (undergraduate or graduate) and recent graduates, the 3MR is a supportive competition designed to help emerging researchers develop academic, presentation, and research communication skills—specifically, the ability to effectively explain their research in language appropriate to a non-specialist audience.

Affinity Meetings, Special Events, and Field Trips round out the workshop.

While no Proceedings are planned for the ParkForum workshop series, participants are encouraged to submit their workshop papers to [Parks Stewardship Forum](#); indeed, the theme papers in this issue of *PSF* on “Teaching with National Parks” originated with presentations made at GWS ParkForum 2025. Each workshop also has an online Virtual Workshop Library where attendees can post PowerPoints and other presentation materials.

The Program and Abstracts for GWS ParkForum 2025 follow.

University of Montana, Missoula
October 20–23, 2025

georgewright society.org/parkforum-2025

Program

Welcome to GWS ParkForum 2025

The George Wright Society and the University of Montana are delighted to welcome you to the Missoula campus for the inaugural GWS ParkForum! This is the first in a series of annual conservation solutions workshops that will be held at universities across the country each fall. We are gathering here to share innovations and tested solutions to the challenges facing parks, protected/conserved areas, cultural sites, and other forms of place-based conservation. Our work is more important now than ever before, and GWS ParkForum is designed to help you achieve your goals in the company of supportive peers.

We're glad you're here! If you need assistance, see us at the Registration Desk anytime.

Download this Program and the complete presentation Abstracts at georgewright society.org/parkforum-2025-program
Names and presentations in green are planned as Remote Presentations

Monday, October 20 10:00a–1:30p REGISTRATION, POSTER SET-UP

1:30–5:00p OPENING PLENARY SESSIONS

Plenary Session I

UC Theater, 1:30–3:30p

Format: Invited speakers

Welcome from the George Wright Society and the University of Montana / Introduction to Today's Plenary Sessions

Fred Herling, GWS President; Chad Bishop, Director, Wildlife Biology Program, University of Montana

The Future of Climate Action in the Y2Y Region: Connecting Indigenous Leadership, Western Scholarship, and Community Engagement

Germaine White, Native American Engagement Director at the Mansfield Center at the University of Montana

Whisper Camel-Means, Manager, Division of Fish, Wildlife, Recreation and Conservation, Confederated Salish and Kootenai Tribes

Graham McDowell, Director of Science and Knowledge, Yellowstone to Yukon Conservation Initiative (Y2Y)

Moderator: Jenn Thomsen, University of Montana

We begin GWS ParkForum 2025 with a session that situates us within the place/region we are meeting: the Traditional Territory of the Confederated Salish and Kootenai Tribes (and the Kalispel Nation) and the greater Yellowstone to Yukon Region. We have invited leaders from CSKT and Y2Y to share how they are making connections between Indigenous Traditional Knowledge, Western science, and community aspirations to rise to the challenges of climate change.



Germaine White was born on the Flathead Indian Reservation and raised by the Mission Mountains Tribal Wilderness, and is an enrolled member of the Confederated Salish and Kootenai Tribes. She is the Native American Engagement Director at the Mansfield Center at the University of Montana, and formerly served as the Information and Education Program Manager for the Confederated Salish and Kootenai Tribes' Natural Resource Department. Germaine is passionate about the work of cultural bridge-building and bringing people together to protect the places that sustain us all.



Whisper Camel-Means is the Division Manager of Fish, Wildlife, Recreation, and Conservation within the Natural Resources Department of the Confederated Salish and Kootenai Tribes. An enrolled CSKT member, she is affiliated with the Qlispé people. Trained as a wildlife biologist, Whisper earned her Master of Science degree from Montana State University. In her current role, she oversees a wide range of biological programs and works extensively in collaboration with internal teams, partner organizations, and outside agencies to support conservation and resource management efforts.



Dr. Graham McDowell is the Director of Science and Knowledge at the Yellowstone to Yukon Conservation Initiative (Y2Y), where his work focuses on large-landscape conservation, nature positive climate solutions, and knowledge co-creation with Indigenous Peoples. He has extensive experience related to environmental change in mountain regions, including leading studies in the Nepal Himalaya, Peruvian Andes, Rocky Mountains, Greenland, and the Canadian Arctic; founding and leading the [Canadian Mountain Assessment](#); and serving as an author with UN's [Intergovernmental Panel on Climate Change \(IPCC\)](#).

REFRESHMENT BREAK 3:30–4:00p Cold beverages

Opening Plenary Session II

UC Theater, 4:00–5:00p

Format: Invited speaker

Parks Canada — An integrated approach to conservation

Ernie Gladstone, Executive Director, Indigenous Stewardship and Cultural Heritage Directorate, Parks Canada

Moderator: Michelle Bowden, Director, Conservation Programs Branch, Parks Canada / George Wright Society Board Member

Parks Canada is the federal agency that protects and manages national parks, marine conservation areas, national urban parks and national historic sites in Canada. Parks Canada's approach to conservation integrates key global conservation priorities to halt and reverse biodiversity loss, take climate action and support Indigenous stewardship. Through the effective and equitable management of protected areas, Parks Canada is achieving positive impacts that are inspiring hope for biodiversity and people.



Ernie Gladstone began his Parks Canada career in 1992 and became the agency's first Haida Field Unit Superintendent in 2001. For over 20 years, he co-chaired the Gwaii Haanas Archipelago Management Board, advancing cooperative governance with the Haida Nation and Fisheries and Oceans Canada. In 2008, he received a Public Service Award of Excellence for his contributions to Gwaii Haanas. As Executive Director of the Indigenous Stewardship Branch, Ernie led the development of Parks Canada's first Indigenous Stewardship Policy, created in collaboration with Indigenous leaders across the country. The policy, rooted in reconciliation and supporting the implementation of the UN Declaration on the Rights of Indigenous Peoples, was formally adopted in ceremony by the Indigenous Stewardship Circle in October 2024. Ernie has shared the story of the Haida-Parks Canada partnership nationally and internationally and was recently awarded the King Charles III Coronation Medal.

WELCOMING RECEPTION 5:00–6:00p Light hors d'oeuvres, non-alcoholic beverages

Tuesday, October 21 8:30–9:45a PLENARY SESSION Coffee & tea

<p>Plenary Session III UC Theater</p> <p>Format: Presentations + Audience Participation</p>	<p>Youth Aspirations for Climate Change Action: Building on the <i>Held</i> Decision <i>Moderator:</i> Tom Olliff, GWS Board Member <i>Panelists:</i> Nate Bellinger, Supervising Senior Staff Attorney, Our Children’s Trust; Lander Busse, Student, University of Montana <i>Held v. State of Montana</i> is a landmark 2023 case where 16 young plaintiffs, represented by the organization Our Children’s Trust, sued the state of Montana, arguing that its policies violated their right to a clean and healthful environment under the Montana state constitution. The Montana Supreme Court ultimately affirmed a lower court’s decision, ruling that the state’s actions did indeed violate the plaintiffs’ constitutional rights. In this Plenary session, two participants in this case will discuss how to build on the precedent to support young people in their search for solutions to the climate crisis, followed by a discussion with the audience.</p>
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Nate Bellinger has worked at Our Children’s Trust since its inception, starting as a volunteer in 2010. He has been a part of the organization’s sustained growth over the past 14 years and now supervises staff attorneys and leads cases. He is the lead attorney in *Held v. State of Montana*, the first-ever constitutional climate case to go to trial, and won a historic ruling against the state. The court established that every additional ton of greenhouse gas pollution is causing constitutional, human rights injuries to young people, and made clear that ending the era of fossil fuel energy systems is essential to protecting the life, health, and dignity of every child, everywhere.

Lander Busse, now a student at the University of Montana, is one of the plaintiffs in *Held v. State of Montana*. You can read more about him and some of his fellow plaintiffs in this [article from *The New York Times*](#).

REFRESHMENT BREAK & NETWORKING TIME 9:45–10:30a (45 minutes) Coffee & tea

10:30a–12:00p BREAKOUT SESSIONS

<p>Session #1 UC Ballroom South</p> <p>Core Workshop Session Format: Presentations + Audience Participation</p>	<p>Humanities as a Bridge: Lessons from the ACE Mellon Program <i>Workshop leader:</i> Perri Meldon, National Coordinator, ACE Mellon Humanities Postdoctoral Fellowship Program <i>Presenters:</i> Helen LaCroix, Communications Consultant, ACE Mellon Program; Meagan Harden, ACE Mellon Fellow, Maritime Washington National Heritage Area; Frank Schmitz, ACE Mellon Fellow; Varpu Lotvonen, ACE Mellon Fellow; Ione Quigley, Tribal Historic Preservation Officer, Rosebud Sioux Tribe The American Conservation Experience (ACE) Mellon Humanities Postdoctoral Fellowship Program places recent PhDs with historic sites, museums, and humanities organizations across the nation. ACE Mellon Fellows work with partners to conduct original research and develop new interpretive and educational products and programming. In this session, ACE Mellon participants share their experiences bridging enduring yet illusionary divisions between natural and cultural heritage. Attendees will leave this session with creative, cost-effective methods for telling fuller, place-based stories rooted in public lands history.</p>
<p>Session #2 UC 326–327</p> <p>Core Workshop Session Format: Hands-on Activity</p>	<p>Evaluating Ecological Intervention Proposals in Wilderness <i>Workshop leader:</i> Rob Burrows, NPS Wilderness Training Manager • <i>Co-organizers/co-presenters:</i> Jimmy Gaudry, Director, Arthur Carhart National Wilderness Training Center; Jaclyn Rushing, Social Scientist, Aldo Leopold Wilderness Research Institute An ecological intervention in Wilderness is an action that alters, restricts, controls, or manipulates the earth and its community of life. This session will include an overview of ecological threats, requirements from the Wilderness Act, processes and tools to work through those requirements, and then a hands on activity with a theoretical case study. In small groups, attendees will explore factors to evaluate ecological interventions in wilderness through hands-on activity that helps point to conservation solutions and tradeoffs. Attendees will be able to identify key factors in considering ecological intervention proposals in the National Wilderness Preservation System.</p>
<p>Session #3 UC 330–331</p> <p>Core Workshop Session Format: Informal Discussion</p>	<p>DEI in Environmental Stewardship: Past and Present Challenges <i>Convenor:</i> Yonit Yogev, Retired NPS Seasonal / Unaffiliated Researcher Join an informal open discussion on the evolving challenges facing those who want to promote diversity, equity, and inclusion as essential elements of environmental stewardship. My DEI journey began in 2013 when I began researching the National Park Service’s history of addressing DEI, its dark history, and slowness to mitigate the systemic racism within the service. As we all are aware, today there is a full-on backlash against DEI. Come share your experiences and insights as we talk about ways we can move forward together..</p>
<p>Session #4 UC 332–333</p> <p>Information Sharing Session Format: Sharing Circle</p>	<p>Connecting People and Place <i>Leader:</i> Shawn Johnson, Director, UM Center for Natural Resources & Environmental Policy <i>Co-organizers:</i> Travis Anklam, Richard Forbes, Alexis Gibson, Nick Maya, Heather Stokes, UM Center for Natural Resources and Environmental Policy How do you build trust, foster long-term relationships, and overcome participation barriers? How do you welcome conflict and ensure community input shapes complex decisions? This sharing circle is for those actively engaging the public or seeking to connect with others who are. Through participatory discussion, we’ll explore experiences, challenges, and best practices for impactful, inclusive engagement. Attendees will share insights, build connections, and explore strategies for inclusive, meaningful community engagement.</p>

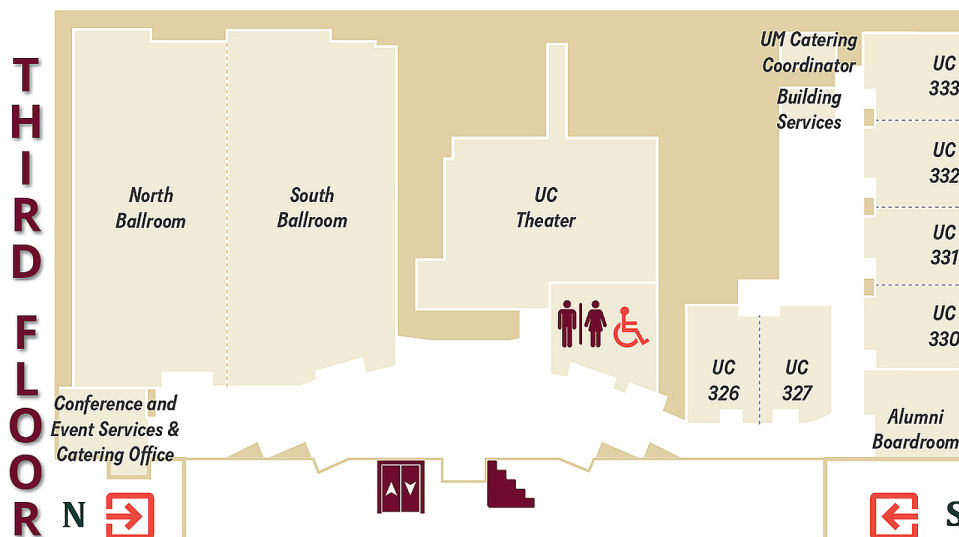
	Session Title & Chair	10:30–10:45a	10:45–11:00a	11:00–11:15a	11:15–11:30a	11:30–11:45a
<p>Session #5 UC Theater</p> <p>Information Sharing Session Format: Contributed Papers</p>	<p>Fees & Economic Value in Parks / Chair: Fred Herling</p>	<p>Recreation Fees in Parks and Protected Areas / Sharon Suiwen Zou</p>	<p>Recreational Value and Park Attributes: A Non-Market Valuation Approach / Clemens Wilson</p>	<p>Assessing the Impact of Idaho House Bill 93 on Idaho State Parks / Chris Zajchowski</p>	<p>Values and ecosystem services shape environmental concern in Alaska, USA / Shi Xue</p>	<p>Exploring Economic Impacts of the Lewis and Clark National Historic Trail / Ryan Sharp</p>
<p><i>The economic value of parks and protected areas is immense, but often difficult to pin down. Presentations in this session explore how to do that.</i></p>						

LUNCH BREAK 12:00–1:30p (90 minutes)

Tuesday, October 21 1:30–3:00p BREAKOUT SESSIONS

<p>Session #6 UC Ballroom South</p> <p>Core Workshop Session Format: Presentations + Audience Participation</p>	<p>National Conservation Lands: Past, present, and future of lands beyond and between National Parks • <i>Leader:</i> Chris Hill, CEO, Conservation Lands Foundation • <i>Panelists:</i> Carrie Hamblen, CEO, Las Cruces Green Chamber of Commerce; John Leshy, DOI Solicitor (retired); John Todd, Wild Montana; Bob Wick, BLM (retired)</p> <p>Beyond and between National Parks lies another conservation jewel: Bureau of Land Management's National Conservation Lands. For 25 years, National Conservation Lands have conserved, protected, and restored nationally significant lands and waters that have outstanding cultural, ecological, and scientific values. This panel brings together retired agency staff, Tribal and conservation leaders, and economic development experts to explore the past, present, and future of this unique and ever-evolving conservation lands system. Attendees will explore how NCLs management may evolve and innovate in concert with increasing development, climate and recreation pressures.</p>					
<p>Session #7 UC 330–331</p> <p>Core Workshop Session Format: Presentations + Audience Participation</p>	<p>Applying Cyclist Behavior and Backgrounds to Inform e-Bike Policy on Public Lands • <i>Leader:</i> Colby Parkinson, PhD Candidate, Penn State University</p> <p><i>Paper Presenters:</i> Colby Parkinson: Recreation Specialization's Influence on Cyclists' Spatial Behaviors in the Age of e-Bikes in Grand Teton National Park; Abigail Fuesler: Identity and Attitudes in Public Comments Regarding e-Bikes on Federal Land; Cait Henry: Trail users' perceptions of recreational E-bike use in Michigan</p> <p>Cycling is one of the most popular outdoor activities in the U.S. Yet, the emergence of e-bike technology has instigated conflict among e-bikers and other park visitors, in part since e-bikers behave differently and have more diverse backgrounds than analog cyclists. This session will present data focused on perceptions, behaviors, and backgrounds of e-bikers to inform recreation planning. Paper presentations followed by audience interactions in the form of breakout groups and a panel composed of all paper presenters and at least one practitioner. Audience members will understand perceptions, behaviors, and backgrounds of e-bikers and gain insight into cyclist science, policy, and planning.</p>					
<p>Session #8 UC Theater</p> <p>Core Workshop Session Format: Presentations + Audience Participation</p>	<p>Protected Areas: Everything Including the Carbon Sink</p> <p><i>Leaders:</i> Alice Yue, Ecosystem Scientist, Parks Canada; Trevor Shiomi, Sustainability Manager, Parks Canada</p> <p>This session will share Parks Canada's ecosystem carbon accounting approaches; policies and directions for conservation and enhancement of carbon sinks and sequestration; and examples of the integration of approaches in park through management planning and restoration activities. Outcomes from the session will help to inform the development of coherent and effective approaches for protected area practitioners. Attendees/audience members will better understand effective ecosystem carbon accounting approaches in protected areas.</p>					
<p>Session #9 UC 332–333</p> <p>Information Sharing Session Format: Sharing Circle</p>	<p>Focus Group for Updates to Digital Wilderness Management Educational Resources</p> <p><i>Leader:</i> Miranda Foster, Graduate Research Assistant, University of Montana • <i>Session Co-Organizers:</i> Jaclyn Rushing, Heidi Blair</p> <p>This sharing session will present Wilderness Connect, an interagency website and an authority for wilderness-related information. The site hosts a variety of toolboxes aimed at supporting practitioners and serves as a virtual repository for information sharing, skills, and practices related to various dimensions of wilderness management such as fire management, cultural resources, soundscapes, and partnerships. Through active audience feedback and guided discussion, this session seeks to identify any needs, limitations, and opportunities to improve the format, content, and breadth of the Wilderness Connect toolboxes. Attendees will learn about Wilderness Connect and its Toolboxes for wilderness management and assist on-going efforts to improve the resource.</p>					
	Session Title & Chair	1:30–1:45p	1:45–2:00p	2:00–2:15p	2:15–2:30p	2:30–2:45p
<p>Session #10 UC 326–327</p> <p>Information Sharing Session Format: Contributed Papers</p>	<p>Reimagining Park Values by Listening to All Voices / <i>Chair:</i> Ashley D'Antonio</p>	<p>Repetitive Compulsions of Trauma: Perpetuating White Masculinity at U.S. Civil War Battlefields / Cait Henry</p>	<p>Visit with Respect: An Indigenous, and distinctively American, Outdoor Recreation Ethic / Levi Tenen</p>	<p>Haints: Ruptures of normality in conservation stories of a forest in the United States' South / Taylor Parker</p>	<p>Adirondacks: We Were Here, We Are Here, We Have Every Right to Be Here / Benita Law-Diao</p>	<p>Inclusive conservation in the Denali region of Alaska / Carena Van Riper</p>
<p><i>It is imperative that parks continue to pursue diversity, equity, and inclusion, both as ideals and as ways to connect with the whole spectrum of the public.</i></p>						

REFRESHMENT BREAK 3:00–3:30p (30 minutes) Cold beverages



3RD FLOOR

Administrative Offices

1. Building Services
2. Conference and Event Services & Catering Office
3. UM Catering Coordinator

Meeting & Event Space

4. Alumni Boardroom
5. North Ballroom
6. South Ballroom
7. UC 326
8. UC 327
9. UC 330
10. UC 331
11. UC 332
12. UC 333
13. UC Theater

Tuesday, October 21 3:30–5:00p BREAKOUT SESSIONS

<p>Session #11 UC Ballroom South</p> <p>Core Workshop Session Format: Presentations + Audience Participation</p>	<p>Transboundary Connectivity Conservation: Experiences in North America and Around the World <i>Leader:</i> Gabriel Oppler, International Policy & Partnerships Specialist, Center for Large Landscape Conservation • Aaron Laur, International Connectivity Program Manager, CLLC</p> <p>Ecological connectivity conservation often requires working at large scales, transcending political borders. Transboundary initiatives require collaboration between institutions and individuals who sit on opposite sides of the border or speak different languages, but have common values and concern for the ecosystems they share. Hear about experiences and lessons learned from advancing connectivity conservation in North America and around the world. Presentations will be followed by discussion on long-standing and newly emerging challenges and opportunities in transboundary cooperation. Attendees/audience members will learn how ecological connectivity can be safeguarded between neighboring countries despite barriers.</p>
<p>Session #12 UC 326–327</p> <p>Core Workshop Session: Presentations + Audience Interaction</p>	<p>Adapting to rapid change – on the ground and in the water • <i>Organizers:</i> Nicholas Fisichelli, President & CEO, Schoodic Institute • <i>Presenters/Panelists:</i> Chris Nadeau, Senior Scientist, Schoodic Institute; Mark J. Biel, Natural Resources Program Manager, Glacier National Park</p> <p>Stewarding park resources in the midst of rapid change is a critical conservation challenge today. There has been a proliferation of decision support tools, frameworks, and associated best practices for responding to rapid change. Yet, empirical evidence for on-the-ground and in-the-water adaptation solutions is sorely lacking, and the pace of change in parks is outpacing the ability of managers and scientists to respond. Come hear from leading scientists and practitioners who are testing the solutions and advancing the leading edge of adaptation. Share your experiences, perspectives, and questions in this interactive session and build your network.</p>
<p>Session #13 UC 330–331</p> <p>Information Sharing Session Format: Invited Papers</p>	<p>National Park and Wildlife Refuge Visitor Perceptions of Climate Change • <i>Leader:</i> Shawn Davis, Associate Professor, Slippery Rock University</p> <p>Based on the theme of responding to climate change, each of the four papers will cover a different aspect of a comprehensive survey effort of 20 different national parks and 12 different national wildlife refuges during the spring and summer of 2025.</p> <p>Paper 1: The Six Americas of National Parks and Wildlife Refuges / Shawn Davis, Associate Professor, Slippery Rock University Paper 2: Climate Change Impacts, Adaptation, and Visitor Behavior / Rosie Mousseau, Graduate Student, Northern Michigan University Paper 3: Climate Change Messaging Strategies for Parks and Refuges / Mackenzie Geary, Northern Michigan University Paper 4: Visitors' Perceptions of Climate Change in National Parks & Wildlife Refuges / Sam Kearney & Carson Piette, Northern Michigan University</p>
<p>Session #14 UC 332–333</p> <p>Information Sharing Session Format: Sharing Circle</p>	<p>Striving for meaningful engagement in climate adaptation planning of ancestral heritage sites <i>Co-organizers:</i> Erin Seekamp, Professor, North Carolina State University; Michael Durglo, Jr., Climate Change Coordinator, Confederated Salish and Kootenai Tribes</p> <p>Hear about our journey toward meaningful engagement and share your stories of setbacks and success. Our journey emerged from a pilot project with members of the Kootenai and Séliš-Qlispé Culture Committees about climate adaptation planning of traditional use areas stewarded located within Glacier National Park. We will also share lessons we learned along the way, such as co-creating shared terminology. Attendees/audience members will learn and share guidance for meaningful engagement in climate adaptation planning efforts.</p>

	3:30–3:35p	3:35–3:40p	3:40–3:45p	3:45–3:50p	3:50–3:55p	3:55–4:00p
<p>Session #15 UC Theater</p> <p>Three-Minute Research (3MR) Competition for Emerging Researchers <i>Chair:</i> Will Rice <i>Judges:</i> Clara-Jane Blye, Wayde Morse, and Carena Van Riper</p>	<p>A Shared Responsibility: The Environmental Political Economy of a Zero-Waste Banff National Park / Audrey Roy</p>	<p>Electrifying Perspectives: Cyclist Perspectives Concerning E-Bikes on Multi-Use Singletrack / Abigail Fuesler</p>	<p>Beyond the Average Visitor: Refining Photo Norms for Crowding Perception on the Water / Adalyn Vergara</p>	<p>Land and the American Dream / Ande Peersen</p>	<p>Insights on Managing Residents and Tourists during a Disaster in a Nature-Based Tourism Destination / Colby Parkinson</p>	<p>Measuring angler intra-site place attachment based on survey responses and GPS tracking / Trevor Ross</p>
	4:00–4:05p	4:05–4:10p	4:10–4:15p	4:15–4:20p	4:20–4:25p	4:25–4:30p
	<p>Caring for Those Who Care for Parks: Exploring Mental Health Resource availability across the NPS / Elizabeth Himschoot</p>	<p>Beyond science and regulations: Hidden factors shaping recreation management decisions / Kika Bradford</p>	<p>Proceeding with Sound Judgment: Applied Sensory Biology and Wilderness Character / Julia Daniell</p>	<p>California's Delta in Motion: the state of the recreation economy and community wellbeing / Isaac Sanchez</p>	<p>Motivations behind social trail usage at Delta Lake in Grand Teton National Park / Emma Keinath-Lopez</p>	<p>Shifting Landscapes: How Recreation-Based Economies Redefine Sense of Place in Trail Communities / Ava Wortbets</p>
	4:30–4:35p	4:35–4:40p	4:40–4:45p	4:45–4:50p	4:50–4:55p	4:55–5:00p
	<p>Visual Semiotics in Parks: Assessing Pictorial Symbol Effectiveness in Outdoor Recreation Settings / Miranda Foster</p>	<p>Pathways to Camping Access in the Rural American West: An Application of Access Theory / Hayley Johnson</p>	<p>Impacts of Aquaculture Policy and Adaptive Capacity in Social-Ecological System of Chilika Lagoon / Adyasha Nayak</p>	<p>What's In a Name? Reimagining the Geography of Naming Designations in the U.S. N.P.S. System / Seth Kannarr</p>	<p>WRAP-UP</p>	
<p><i>Student and early-career researchers have three minutes to convey the key points of their work in a friendly competition designed to hone presentation skills.</i></p>						

Poster Reception & Stand-by Time 5:00–6:00p Dry snacks, non-alcoholic beverages (UC Ballroom North)

AFFINITY MEETING 5:30–6:30p

UC 326–327 • **LGBTQIA2S+: Fostering Community by Sharing Faced Challenges and Successes–Working Group Soft Launch**
Convenors: Cait Henry, Michigan State University, & Brian Forist, Indiana University

We are living through extraordinary and trying times in the U.S. and beyond. A variety of conditions pose significant challenges to LGBTQIA2S+ folks involved in place-based conservation and adjacent fields. By federal executive orders, discriminatory laws, internal policies, and actions taken by states, municipalities, non-governmental organizations, and businesses there has been a calculated and deliberate marginalization and disappearing of LGBTQIA2S+ voices and experience. To counter this, a virtual community for Queer folks in the field is proposed. Participants in this sharing circle will be asked to articulate their needs in the intersecting arenas of learning and support. Initial plans for this virtual community will be shared and thoughts on its future format, content, and individual roles in its design will be discussed by all. LGBTQIA2S+ folks will leave knowing they are part of a potential designer of a supportive community dedicated to ongoing learning and support.

Wednesday, October 22 8:30–10:00a PLENARY SESSION Coffee & tea

GWS Awards Ceremony
(8:30–8:45a)

Plenary Session IV
UC Theater
Format: Panel Discussion
(8:45–10:00a)

Presentation of George Wright Society Achievement Awards in Natural Resources, Cultural Resources, and Social Science • Lydia Kiewra & Linda Mazzu, GWS Board Members

Ways of Knowing: The Intersection of National Park Advocacy and Indigenous rights

Organizer: Alan Spears, Senior Director for Cultural Resources, National Parks Conservation Association • Additional NPCA Panelists: **Michael Jamison**, Crown of the Continent Campaign Director; **Katie Shea**, Tribal Policy Fellow; **Ahwahnee Williams**, Western Indigenous Fellow

This panel will feature three NPCA staffers who have spent years promoting Indigenous rights and the protection of our public lands and national parks. Through personal and professional reflections, and an examination of policies and laws, the “Ways of Knowing” panel will examine how NPCA has succeeded in this work, where the organization has fallen short, and what’s been learned in the process.



Alan Spears (Moderator) serves as the senior director for cultural resources for the National Parks Conservation Association (NPCA). He is based in Washington, DC. Alan also serves a board member for the George Wright Society.



Michael Jamison (panelist) is a writer and conservationist based in Whitefish, MT. He has worked for NPCA since 2010, and currently serves as Northern Rockies campaigns director. His work centers on partnership with First Nations in the United States and Canada, protecting, connecting and restoring cultural landscapes throughout the traditional territories of the transboundary Blackfoot Confederacy and Ktunaxa Nations.



Katie Shea (panelist), a member of the Citizen Potawatomi Nation, is the Tribal Policy Fellow at the National Parks Conservation Association. Where she leads efforts to strengthen understandings of Tribal engagement in public land stewardship. Her work includes developing co-management guidance in partnership with the Native American Rights Fund and fostering long-term relationships between Tribal Nations and the National Park Service.



Ahwahnee Williams (panelist), is an enrolled citizen of the Bishop Paiute Tribe where she was born and raised on her tribal homelands in California. Ahwahnee is the Senior Western Indigenous Engagement Fellow for NPCA Northern Rockies region. Ahwahnee is active in engaging and connecting tribal partners throughout the region. Ahwahnee is a graduate of Salish Kootenai College and holds a Bachelor of Arts in Tribal Historic Preservation. She currently resides in Northwestern Montana with her children.

REFRESHMENT BREAK & NETWORKING TIME 10:00–10:30a (30 minutes) Coffee & tea

10:30a–12:00p BREAKOUT SESSIONS

Session #16
UC Ballroom South

Information Sharing Session
Format: Invited Papers

Taking Stock During a Watershed Moment in Recreation Allocation

Workshop leader: Hayley Johnson, Research Assistant University of Montana • *Co-organizers:* William L. Rice, Abigail Fuesler, University of Montana

This session will include four complementary paper presentations focused on recreation allocation.

1. Assessing the efficacy of reservation systems and effects of climate extremes on recreational access presented by Jeffrey Jenkins, University of California, Merced; et al
2. Diversity in the rationing outcomes of U.S. recreation resources: A decision tree analysis presented by Bing Pan, Pennsylvania State University; et al.
3. Investigating recreation rationing and camping access through the lens of access theory: A case study in the rural American West presented by Hayley A. Johnson, UM; et al.
4. Visitor preferences regarding allocation of day-use wilderness permits in two national forests presented by Abigail Fuesler, UM

Session #17
UC 332–333

Core Workshop Session
Format: Presentations + Audience Participation

GenAI for conservation: Exploring opportunities and challenges in parks and recreation

Leader: Kika Bradford, Social Scientist and Research Associate, UM Institute for Tourism and Recreation Research

This interactive workshop explores how generative AI (GenAI) can support research and practice in conservation and outdoor recreation. We'll break down what GenAI is, where it can help—from literature reviews and study design to data analysis and outreach—and where it falls short. Using examples from the Institute for Tourism and Recreation Research, this workshop will feature live demos, real-world case studies, and hands-on activities to explore GenAI's potential, limitations, and ethical dimensions. Attendees will explore GenAI's opportunities and challenges, gain hands-on experience, and reflect on its ethical use in recreation and conservation. Attendees are asked to bring their laptop to the session.

Session Title & Chair	10:30–10:45a	10:45–11:00a	11:00–11:15a	11:15–11:30a	11:30–11:45a
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Session #18
UC Theater

Information Sharing Session
Format: Contributed Papers

Wildlife & Biodiversity /
Chair: David Reynolds

Reducing Bear Conflicts
Through Attractant Prioritization / Anna Baize

Scaling up and scaling out:
engaging wildlife managers
in system-wide visitor use
thinking / Lydia Kiewra

Transdisciplinary Research
for Biodiversity Conserva-
tion in Protected Areas of
the Chihuahuan Desert /
Xochizeltzin Castaneda-
Camacho

Climate-driven factors and
mountain goat declines
in Glacier National Park/
William Janousek

Human visitation limits the
utility of protected areas
as ecological baselines /
Wesley Sarmiento

The breadth of issues related to wildlife management and the protection of biodiversity are represented by the presentations in this session..

Session #19
UC 326–327

Information Sharing Session
Format: Contributed Papers

Monitoring Park Resources: Persistence and Partnerships / *Chair:* Linda Mazzu

A Tale of Two Rivers: A
decadal comparison of
visitor use at Sleeping Bear
Dunes National Lakeshore /
Shelby Marocco

Protecting the waters of
Montana through a Pesticide
Stewardship Partnership
Program / Chloe Czachor

Learning From Burning:
Connecting Fire Managers
and Fire Scientists / Taylor
Parker (presenting on behalf
of Elizabeth Baldwin)

Lessons from the Summits:
Evaluating Vegetation
Management Effectiveness
Using Remote Sensing / Min
Kook Kim

Q&A

Monitoring: not flashy, but always essential – it's the backbone of park resource management.

Session #20
UC 330–331

Information Sharing Session
Format: Contributed Papers

**Lessons from Conserva-
tion History** / *Chair:*
Eleanor Mahoney

Making a Difference: Na-
thaniel Langford and George
Wright—National Park
Creation and Transformation
/ Bill Youngs

Planting the Seeds: The
Roots of Modern Forest Con-
servation in Colonial America
/ Greta Helfenstein

What's In a Name? Reimagin-
ing the Geography of Naming
Designations in the U.S.
/ N.P.S. System / Seth Kannarr

The Monsters We Create: A
Discussion about Misinter-
pretations of Wilderness /
Michelle Reilly

*The Social and Political Im-
pacts of Zoning in Protected
Areas - Case Study, Corbett
Tiger Reserve / Rajiv Bhartari*

Like any other endeavor, the field of conservation is filled with successes and failures – a trove of lessons that can help us navigate today's challenges..

LUNCH BREAK 12:00–1:30p (90 minutes)

Wednesday, October 22 1:30–3:00p BREAKOUT SESSIONS

Session #21 UC Ballroom South Information Sharing Session Format: Invited Papers	CANCELED					
Session #22 UC 326–327 Core Workshop Session Format: Presentations + Audience Participation	Accessibility for All on Forest Preserve Lands? <i>Leader: Benita Law-Diao, Commissioner, Adirondack Park Agency</i> The NYS Adirondack Park Agency (APA) develops long-range land use plans for both public and private lands, within the boundary of the Adirondack Park. We are currently working on updating the NY State Land Master Plan (SLMP). The APA and NYS Department of Environmental Conservation (DEC) have a policy limiting the number of roads in the park's wild forest lands. The policy states that there should be no "material increase" in the number of miles of roads in the wild forest land. People with disabilities are pushing for accessibility to our forest preserve lands, while environmental groups are voicing concerns about wilderness preservation. Stakeholders concerned about "unprecedented changes" proposed to policies governing forest preserve lands will cause great harm. Attendees will learn about the issues associated with granting people with disabilities access to Adirondack Park's forever preserve.					
Session #23 UC 330–331 Information Sharing Session Format: Panel Discussion	Disaster Preparedness and Emergency Evacuation for National and State Parks <i>Leader: Bing Pan, Professor, Penn State University • Panelists: Haizhong Wang, Professor, Clemson University; Colby Parkinson, Doctoral Candidate, Penn State University</i> Climate change increases natural disasters, posing risks to national and state parks in the increasingly populated Wildland-Urban Interface. Our workshop synthesizes research on emergency evacuation and disaster preparedness from Rocky Mountain National Park (RMNP), Wrangell-St. Elias National Park and Preserve (WRST), and South Beach State Park (SBSP). We explore how agent-based modeling and participatory research improve disaster preparedness and evacuation. RMNP used microsimulations to analyze evacuation times and traffic conditions to identify prominent bottlenecks. WRST assessed risks and evacuation challenges along McCarthy Road to identify unique disaster response processes in a remote tourism destination. SBSP conducted tsunami evacuation drills to validate models and test efficacy of signage.					
Session #24 UC 332–333 Core Workshop Session Format: Presentations + Audience Participation	Economy, Community, Policy, and Promise: The Past, Present and Future of National Conservation Lands <i>Leader: Bob Wick, Bureau of Land Management (retired)</i> A recent Backpacker Magazine article sums up the importance of images in building recognition of the once underappreciated lands managed by our nation's largest public land steward, the Bureau of Land Management. While the article profiled me – I served for decades as BLM's unofficial photographer – what I primarily want to share with workshop attendees are my experiences in documenting these special places and some techniques anyone can use to take better photos of their special places. First, I will share background on the emergence and growth of the BLM's National Conservation Lands with examples of the integral role of image use in the protection and management of these special places. I will then share tips and techniques for making a good image (including post processing) and making them available & easy for media use. This will be a discussion where participants can bring questions and share their own ideas.					
	Session Title & Chair	1:30–1:45p	1:45–2:00p	2:00–2:15p	2:15–2:30p	2:30–2:45p
Session #25 UC Theater Information Sharing Session Format: Contributed Papers	Spatial Analysis: People and Parks / <i>Chair: Ashley D'Antonio</i>	Getting fishy: Using animal-movement theory to predict angler movement on a reservoir / <i>Adalyn Vergara</i>	Friend or Foe? Understanding the Spatial Distribution of Benefits and Burdens Provided by Urban Birds / <i>Devin Goodson</i>	Drivers of Residential Development around U.S. Protected Areas / <i>Rachel Layko</i>	Geospatial tools for collaborative climate adaptation planning at NPS mid-Atlantic battlefield parks / <i>Kate Jones</i>	Q&A
	<i>Hear how spatial analysis uses location-based data to improve planning and resource management at parks, protected/conserved areas, and historic sites.</i>					

REFRESHMENT BREAK 3:00–3:30p (30 minutes) Cold beverages

FIELD TRIPS 1:00–5:00p

- Gather outside main entrance to Conference Center at 1:00p (for the Walking Tour, gather at 3:30p; Bike Tour TBA) • Except for Butterfly House, must sign up in advance and pay fee (if any)**
- **Departing 1:30** • Marshall Mountain Park (*Leader: Abi Fuesler*) • Visit Marshall Mountain Park (MMP) for a hike through Missoula County's mountain adventure park. Along the way, learn the story of the park's acquisition and its management in partnership with the City of Missoula, explore the adaptive mountain bike trail, and take in views from a scenic overlook while hearing about the forest management plan. (fee for transport via mini-van)
 - **Departing 1:30** • Blackfoot Watershed (*Leader: Jenn Thomsen*) • Learn about how broad-scale collaboration is leading a comprehensive effort to protect and restore this iconic watershed east of Missoula (fee for transport via mini-van)
 - **Departing 1:30** • Rattlesnake Dam Removal Restoration Project and Universal Trail (*Leader: Will Rice*) • Come see the impressive ecological results from the nationally recognized removal of a dam on Rattlesnake Creek and the development of a new universal trail on the site (fee for transport via mini-van)
 - **Departure time TBA** • Bike Tour (*Leader: Jaclyn Rushing*) • Explore bike trails near Clark Fork River. (bike rental fee)
 - **Departing 3:30** • Walking Tour (*Leader: Adalyn Vergara*) • Get to know Missoula better on this walk to the downtown where we will stop at various points of interest along the Clark Fork River. (no fee)
 - **On your own – depart anytime** • Missoula Butterfly House and Insectarium • With a tropical greenhouse filled with butterflies from around the world and an exhibit area featuring a wide array of insects, arachnids, millipedes, centipedes, and crustaceans, this is a place that celebrates "the little things that run the world" (transport via Mountain Ride, Missoula's free public bus system; \$10 admission fee)



Wednesday, October 22 3:30–5:00p BREAKOUT SESSIONS

<p>Session #26 UC Ballroom South</p> <p>Information Sharing Session Format: Invited Papers</p>	<p>Navigating ecological transformations: Social Aspects of Resist-Accept-Direct (RAD) decisions <i>Co-organizers:</i> Amanda Cravens, Research Social Scientist, US Geological Survey; Jaclyn Rushing, Social Scientist, Aldo Leopold Wilderness Research Institute</p> <p>The RAD framework helps managers respond to climate change and navigate transforming ecosystems by defining a broad decision space that includes resisting ecological trajectories, consciously accepting such change, and directing trajectories towards preferred new conditions. RAD is intended to help managers expand their thinking beyond traditional approaches. Recent interdisciplinary and cross-agency research has integrated social sciences to explore how and why managers are making RAD decisions. This session will highlight findings and implications from five papers at the forefront of RAD research. Attendees will better understand the RAD Framework and how it is being used by managers to navigate climatic and ecological change.</p> <p>Paper 1: Setting the stage: Putting RAD in the broader context of agency adaptation / Amanda Cravens • Paper 2: Engaging with RAD across jurisdictions in the Missoula Valley / Caroline Bean, University of Montana and Laurie Yung, University of Montana • Paper 3: RAD in Wilderness / Jaclyn Rushing • Paper 4: Navigating uncertainty and ecological transformation at U.S. National Parks / Amanda Cravens and Natalie Bennett • Paper 5: RAD Ethics / Christopher Preston, University of Montana</p>
<p>Session #27 UC 326–327</p> <p>Information Sharing Session Format: Sharing Circle</p>	<p>Publishing for Beginners <i>Co-organizers:</i> Craig Shafer, NPS Ecologist (retired); Christine Schonewald, Ecologist (retired)</p> <p>Trying to publish an article in an outside venue for the first few times can be an intimidating experience unless you have an experienced co-author or graduate advisor to help you along. Many questions arise. What is the topic? What type of article should I write: original research, review, case study, or essay in a peer-reviewed journal, a book chapter if the opportunity arises, a law article, or a magazine article? Which journal or other venue should I submit to? How to deal with journal gatekeepers (the ones who determine if your submission is good enough to send on to the editor). How to encourage editor's interest so he /she wants to send your article out for review. Dealing with reviewer comments and possible rejection. And so on. There are books on this topic that cover more ground and we plan on recommending one of them.</p>
<p>Session #28 UC 330–331</p> <p>Information Sharing Session Format: Invited Papers</p>	<p>Protected Areas and Environmental Justice • <i>Co-organizers:</i> Isaiah Tuolienuo, Research Assistant, University of Montana; Keith Bosak, Professor, University of Montana</p> <p>This session's presentations explore the intersection of protected areas and environmental justice and ways to promote social and environmental justice.</p> <ol style="list-style-type: none"> 1. The Complementary Role of Justice and Social Capital in Influencing Just Outcomes in Resource Conflicts: The Case of the Atewa Range Forest Reserve, Ghana. Isaiah Tuolienuo 2. Social-Ecological Justice Approach to Ecotourism: Examples from Cockpit Country, Jamaica. Boo Curry, MS Graduate, University of Montana 3. Drivers and Dynamics of Collaborative Environmental Governance in Chilean Patagonia. Zac Hummel, MS Graduate, University of Montana 4. Exploring Ways to Foster Belonging and Connection for Collaborative Landscape Stewardship and Environmental Justice. Shawn Johnson, University of Montana 5. Exploring the Protected Areas, Ecotourism and Environmental Justice Nexus: An Overview and Synthesis of Case Studies. Keith Bosak, University of Montana
<p>Session #29 UC 332–333</p> <p>Information Sharing Session Format: Sharing Circle</p>	<p>Exploring the Benefits of the National Wilderness Preservation System <i>Co-organizers/co-presenters:</i> Rob Burrows, NPS Wilderness Training Manager, Arthur Carhart National Wilderness Training Center; Jimmy Gaudry, Director, Arthur Carhart National Wilderness Training Center; Jaclyn Rushing, Social Scientist, Aldo Leopold Wilderness Research Institute</p> <p>The National Wilderness Preservation System (NWPS) was created in 1964 with the passage of the Wilderness Act, codifying the legal concept of designated wilderness. Today, the NWPS includes over 111.8 million acres in 806 wilderness areas across the US and Puerto Rico. Section 2(a) of the Act states, "it is hereby declared to be the policy of the Congress to secure for the American people of present and future generations the benefits of an enduring resource of wilderness." This session will facilitate exploration of wilderness values and benefits in the context of the wilderness character concept. Attendees will identify personal values and biocentric and anthropocentric benefits offered by wildlands and designated Wilderness in the US.</p>
<p>Session #30 UC Theater</p> <p>Information Sharing Session Format: Panel Discussion</p>	<p>Examining drivers and impacts of subalpine meadow change on wildlife species in three national parks Leader: Rebecca McCaffery, Research Biologist, US Geological Survey; Panelists: Meghan Halabisky, Remote Sensing Ecologist, University of Washington; David Selkowitz, Research Geographer, USGS; Tabitha Graves, Research Ecologist, USGS; T. Roy Sando, Research Physical Scientist, USGS</p> <p>Our understanding of how mountain meadows are changing, how temperature and precipitation relate to those changes, and how this will impact sensitive wildlife species in park landscapes is limited. We examined these questions at Olympic, Mount Rainier, and Glacier National Parks. We will present and discuss the results, uses, and implications of our interdisciplinary research, and how to apply this approach in other systems.</p>

AFFINITY MEETINGS 5:00–6:00p

UC 326–327 • **Strengthening the partnership between GWS and students/young professionals in 2025 and beyond** / Leaders: Fred Herling, Cait Henry & Evelyn Peat

The George Wright Society is re-evaluating its programs aimed at students and people at the beginning of their careers. This listening and discussion session will play an important role in the meaningful refocusing of how the GWS can best support students and young professionals. Developing and taking action on strategies is especially important in light of the many unprecedented, harmful actions of the current US federal administration. GWS and session participants can play a leadership role in this conversation and in developing solutions with a wide range of partners.

EVENING EVENT 5:30–7:00p University Center Gallery

Welcome to Wilderness: Trout and Tradeoffs

An art-in-science approach to understanding public perceptions of wilderness character at the nexus of fisheries management

Join Adalyn, a current PhD student at UM, and her collaborators, to get a sneak peek at her research and explore the dynamics of wilderness character and fisheries management using visual communication to portray science and policy driven concepts. Her study has occurred over the last month, interviewing both users and observers of wilderness and how they value wilderness character using the case of fisheries management. On October 22nd from 5:30–7:00p, there will be a reception in the University Center Gallery to view the art and design that went into this project. There will be no charge and food will be provided. This will be a wonderful opportunity to explore a young researcher's work and dive into great conversation in the world of fisheries and wilderness. Reach out to Adalyn for any questions at adalyn.vergara@umontana.edu or please join her at the reception and ask her questions then!

The UC Gallery is located in the far northwest corner on the 2nd floor of the University Center – in other words, one floor down from where we are meeting.

Thursday, October 23 8:30–10:00α BREAKOUT SESSIONS Coffee & tea

<p>Session #31 UC Ballroom South</p> <p>Information Sharing Session Format: Invited Papers</p>	<p>The valiant effort to collaboratively plan for the Alpine Lakes Wilderness <i>Leader:</i> Chris Armatas, Research Social Scientist, Aldo Leopold Wilderness Research Institute</p> <p>This session introduces the ALW with select portions of a professionally-developed movie, which will be followed by three paper presentations outlining nearly four years of effort focused on collaboratively planning for the integration of natural and cultural heritage of the ALW.</p> <ol style="list-style-type: none"> 1. The arc of the Alpine Lakes Collaborative / Chris Armatas 2. The Alpine Lakes Collaborative experience: A qualitative study of participating members / Lauren Redmore, Research Social Scientist, Aldo Leopold Wilderness Research Institute 3. Collaboration, consultation, and tribal involvement in wilderness planning / Stephanie Barron, ORISE research fellow, Aldo Leopold Wilderness Research Institute 					
<p>Session #32 UC 326–327</p> <p>Information Sharing Session Format: Invited Papers</p>	<p>Teaching About National Parks: National and International Experiences • <i>Co-leaders:</i> Randall Wilson, Gettysburg College; Michael Pretes, University of North Alabama</p> <p>This session centers on strategies for teaching about national parks and protected areas in both the undergraduate classroom and to the public writ large.</p> <ol style="list-style-type: none"> 1. National Parks and “Mission Essential”: Teaching About Protected Areas at the U.S. Air Force Academy / Michael Pretes, University of North Alabama; Jason Lackey, US Air Force Academy 2. What is the Purpose of the National Parks?: Teaching History of America’s National Parks / Michael Childers, Colorado State University 3. Teaching Protected-Area Conservation to “Africa’s Potential Leaders” / Terence Young, California State Polytechnic University, Pomona 4. Teaching Experiential Learning and Field Data Collection in U.S. National Parks and UNESCO Sites / Yolonda Youngs, California State University, San Bernardino 5. Frameworks and Ladders – National Parks and Protected Areas in the College Classroom / Randall Wilson 					
	Session Title & Chair	8:30–8:45α	8:45–9:00α	9:00–9:15α	9:15–9:30α	9:30–9:45α
<p>Session #33 UC Theater</p> <p>Information Sharing Session Format: Contributed Papers</p>	<p>Climate Impacts and Responses / <i>Chair:</i> Jenn Thomsen</p>	<p>Co-Creating an Integrated Climate Impact Assessment in the Little Rocky Mountains / Jennifer Thomsen</p>	<p>Co-creating Climate Adaptation Strategies for Indigenous Communities in Western Canada / David Sauchyn</p>	<p>Profit and Pollution: Evaluating Cap-and-Trade’s Impact on Global Warming and the Environment / Brian O’Riley</p>	<p>Climate change and fire alter biotic interactions and tree growth in wilderness treeline forests / Josh Beisel</p>	<p>Prescribed Fire Decision-Making: Implications for Parks and Protected Areas / Jazzelle Elias</p>
<p><i>Climate change is arguably the overarching issue of our time; presentations in this session tackle, assessment, adaptation, management, and more.</i></p>						
<p>Session #34 UC 330–331</p> <p>Information Sharing Session Format: Contributed Papers</p>	<p>Managing the Visitor Experience—Virtually and On the Ground / <i>Chair:</i> Ashley D’Antonio</p>	<p>Managing the Great Divide Trail / Regan Coyne</p>	<p>Hyper Reality in Wall-E and Modern Life: Outdoor Recreation Management Implications / Mark Douglas</p>	<p>Fear of a Digital Planet: Wireless Politics in U.S. National Parks / Sam Kellogg</p>	<p>An Updated Model of Park Experience and Spiritual Outcomes / Paul Heintzman</p>	<p>Do Themes Improve Visitor Outcomes In Interpretive Programs? / Amber Hawes, University of Idaho</p>
<p><i>Visitors now routinely experience parks in two parallel – and sometimes conflicting – realms: on the ground and online. Managers are rethinking things in order to respond.</i></p>						
<p>Session #35 UC 332–333</p> <p>Information Sharing Session Format: Contributed Papers</p>	<p>Human Dimensions of Wildlife Management / <i>Chair:</i> David Reynolds</p>	<p>A systematic scoping literature review of social identity in wildlife research / Brianna Lipp</p>	<p>Social identity activation contributes to unnecessary polarization of attitudes toward wolves / Alexander Metcalf</p>	<p>Visitor Impacts and Experiences Related to Roadside Wildlife Viewing in Yellowstone National Park / Morgan Crump</p>	<p>Impacts of Coastal Aquaculture Act and Adaptive Capacity in Chilika’s Social-Ecological System / Adyasha Nayak</p>	<p>Q&A</p>
<p><i>Presentations in this session explore the complexities of understanding how humans interact with wildlife.</i></p>						

REFRESHMENT BREAK 10:00–10:30α (30 minutes) Coffee & tea

Please upload your presentation to the ParkForum Workshop Virtual Library

As you probably know, there are a number of colleagues who were planning to join us in Missoula but now cannot because of agency policy changes, funding constraints, and so on. To share your learnings, experiences, and solutions with these folks, and, more widely, with the general public, please upload your presentation(s) to the GWS ParkForum 2025 Virtual Workshop Library (VWL)

The VWL is a shared folder on Box where you, as a registrant, can upload a PDF of your presentation. The VWL will be curated by Program Team Member Dr. Ashley D’Antonio of Oregon State University. Ashley will organize the uploads into subfolders corresponding to the workshop sessions. Only Registrants will get the upload link; the download link will be advertised to the public after the workshop once the VWL is populated.

We are looking for any and all types of presentations to be uploaded to the VWL, such as:

- PowerPoint presentations in any session
- Speaking notes for oral presentations that don’t involve PowerPoints
- Plans/materials used in hands-on workshop sessions
- Notes by Session Leaders documenting key points made in Sharing Circles and other workshop sessions
- 3MR presentations
- Posters

Please save your file (including Word .docx and PowerPoint .pptx files) as a PDF and name it this way: Last name, short topic, type_of_presentation.pdf. For example: mylastname_humanities_contributed_paper.pdf • mylastname_wilderness_poster.pdf • mylastname_visitor_use_workshop_plan.pdf mylastname_climate_change_speaking_notes.pdf • mylastname_dei_sharing_circle_notes.pdf • etc.

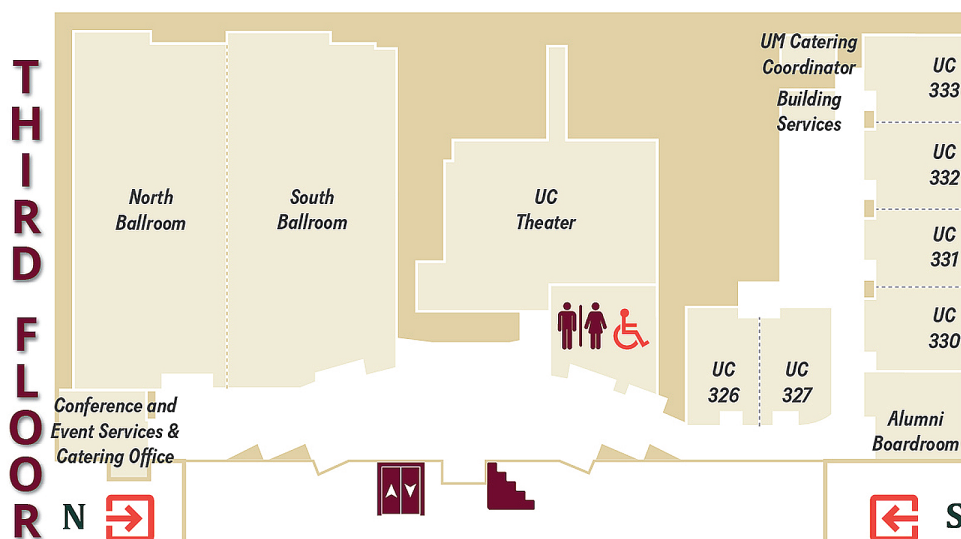
The link for you to upload your file to the VWL is: <https://oregonstate.app.box.com/f/f746032a7c4649e2a581ffb58af43fef>
The public link to view the files in the VWL is: <https://oregonstate.box.com/s/z5dzhe7ymecfieii7btzhxjczqn67m>

Thanks in advance for sharing!

Thursday, October 23 10:30a– 12:00p BREAKOUT SESSIONS

Session #36 UC Ballroom South Information Sharing Session Format: Invited Papers	Wild, Bright, and Noisy: Exploring subtle “footprints” of recreation • <i>Leader:</i> Julia Daniell, Master’s Student, University of Montana Through a mixture of methodologies and disciplines this session examines the effects of sensory pollutants and spatiotemporal recreation fluctuations on humans and wildlife. 1. Proceeding with Sound Judgment: Applied Sensory Biology and Wilderness Character / Julia Daniell 2. Sensory Pollutants in U.S. Parks and Protected Areas: A synthesis of visitor use management in relation to natural sounds and night skies / Peter Newman, University of Vermont 3. Exploring visitor support for management of artificial light and behavioral spillover in Acadia National Park and related ecological impacts / Morgan Crump, University of Vermont 4. Exploring NPS staff perceptions of artificial light in Great Smoky Mountains National Park- Functionality, Safety, and Conservation/ Morgan Crump, University of Vermont 5. Managing Human Disturbance: Mandatory Closures and Loon Nest Success in the GYE / Kelsey Cronin, University of Montana																																																					
Session #37 UC 326–327 Information Sharing Session Format: Panel Discussion	Indigenous Stewardship: Conservation Through Relationships • <i>Moderator:</i> Michelle Bowden, Director, Conservation Programs Branch, Parks Canada <i>Presenters:</i> Ernie Gladstone, Executive Director, Indigenous Stewardship, Parks Canada; Cindy Boyko, Co-Chair, Indigenous Stewardship Circle, Parks Canada; Carla Morse, Manager of Indigenous Engagement on Collections, Parks Canada Parks Canada has embarked on a process of organization-wide renewal, centered around a vision of protected heritage area management and governance that is respectfully aligned with Indigenous ways of stewarding lands, water, and ice. At its core is the Indigenous Stewardship Framework and Policy, which respectfully advances reconciliation and support implementation of the UNDRIP. Done in collaboration with Indigenous Leaders, the Indigenous Stewardship Policy (ISP) seeks to support the continuity of Indigenous cultures and advance how the priorities of First Nations, Métis, and Inuit peoples alongside Parks Canada’s mandate can be accomplished together to advance environmental, economic and community well-being. This session will share both Parks Canada and Indigenous perspectives of the ISP, key lessons learned and next steps.																																																					
<table border="1"> <thead> <tr> <th>Session Title & Chair</th> <th>10:30–10:45a</th> <th>10:45–11:00a</th> <th>11:00–11:15a</th> <th>11:15–11:30a</th> <th>11:30–11:45a</th> </tr> </thead> <tbody> <tr> <td> Session #38 UC Theater Information Sharing Session Format: </td> <td> Planning Strategies for Natural and Cultural Heritage Sites and Protected Areas / <i>Chair:</i> Tom Olliff </td> <td> Assessment of Conservation Planning in South Dakota: Challenges and Opportunities / Vivian Hulugh </td> <td> Environmental Assessments and Strategic Sustainability Planning for Historic Sites / Jeremy Linden </td> <td> Global Biodiversity Data for Place-Based Conservation / Hilary Faxon </td> <td> Balancing Prairie Stewardship and Recreation Access / Chris Zajchowski </td> <td> Getting Managed Access Right: Planning for Equitable Design of Visitor Use Management Systems / Adam Auerbach </td> </tr> <tr> <td colspan="7"> <i>Planning for parks, protected/conserved areas, cultural sites, and other forms of place-based conservation has never been more important – or challenging. Learn why in this session.</i> </td> </tr> <tr> <td> Session #39 UC 330–331 Information Sharing Session Format: </td> <td> Are You “In” or “Out”? Inclusivity & Exclusivity / <i>Chair:</i> Lydia Kiewra </td> <td> Building a Community of Conservation: Inviting the Public to Participate in Wildlife Research / Taylor Parker (presenting on behalf of Seth Gibbons) </td> <td> “It’s a different culture here”: Fostering inclusive recreation through affinity safe spaces / Jaclyn Fox Rushing </td> <td> Trophy Hunting and Ecological Colonialism in Botswana / Joseph Mbaiwa </td> <td> Parks and citizenship, access, and identity / Clara-Jane Blye </td> <td> Gendered Barriers to Working in Conservation: A Comparative Case Study in South Korea and Mongolia / Nari Lee </td> </tr> <tr> <td colspan="7"> <i>With the world seemingly awash in polarization, it’s critical for the parks community to grapple with how and why some people feel included and others do not.</i> </td> </tr> <tr> <td> Session #40 UC 332–333 Information Sharing Session Format: </td> <td> Recreation: Assessing Impacts, Managing for Sustainability / <i>Chair:</i> Cait Henry </td> <td> The cleanup crew: valuing camp host litter interventions in Northern Idaho recreation areas / Mary Engels </td> <td> Outfitter perceptions of workforce development on the Middle Fork of the Salmon River / Nate Moody </td> <td> Informing human waste management strategies in parks & protected areas: Lessons learned / B. Derrick Taff </td> <td> Companion displacement as a novel social dimension of recreation adaptation coping mechanisms / Cait Henry </td> <td> Urban Trails, Wild Spaces: A Model for Sustainable Recreation in Redmond, Oregon / Curt Davidson </td> </tr> <tr> <td colspan="7"> <i>Recreation activities in parks continue to evolve and expand, calling for a continual re-evaluation of management strategies.</i> </td> </tr> </tbody> </table>							Session Title & Chair	10:30–10:45a	10:45–11:00a	11:00–11:15a	11:15–11:30a	11:30–11:45a	Session #38 UC Theater Information Sharing Session Format:	Planning Strategies for Natural and Cultural Heritage Sites and Protected Areas / <i>Chair:</i> Tom Olliff	Assessment of Conservation Planning in South Dakota: Challenges and Opportunities / Vivian Hulugh	Environmental Assessments and Strategic Sustainability Planning for Historic Sites / Jeremy Linden	Global Biodiversity Data for Place-Based Conservation / Hilary Faxon	Balancing Prairie Stewardship and Recreation Access / Chris Zajchowski	Getting Managed Access Right: Planning for Equitable Design of Visitor Use Management Systems / Adam Auerbach	<i>Planning for parks, protected/conserved areas, cultural sites, and other forms of place-based conservation has never been more important – or challenging. 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LUNCH BREAK, POSTER TEAR-DOWN 12:00– 1:30p (90 minutes)



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5. North Ballroom
6. South Ballroom
7. UC 326
8. UC 327
9. UC 330
10. UC 331
11. UC 332
12. UC 333
13. UC Theater

Thursday, October 23 1:30–3:00p BREAKOUT SESSIONS

Session #41
UC Ballroom South

Core Workshop Session
Format: Presentations + Audience Participation

Engagement Best Practices for Place-Based Conservation, Adaptation, and Inclusion • *Co-organizers/presenters:* Shawn Johnson, Director, UM Center for Natural Resources and Environmental Policy; Travis Anklam, Collaborative Learning Program Director, UM Center for Natural Resources and Environmental Policy; Heather Stokes, Director of Practice, UM Center for Natural Resources and Environmental Policy; Jennifer Thomsen, Program Director, UM Parks, Tourism, and Recreation Management; Alexis Gibson, Sr., Project Manager, UM Center for Natural Resources and Environmental Policy

This interactive workshop will equip participants with best practices for weaving cultural, economic, and ecological viewpoints into engagement strategies that enhance resilience, equity, and connection to place. Case studies at local, regional, and national scales will showcase approaches for fostering inclusive, informed dialogue. Participants will then explore strategies for engaging diverse stakeholders in co-developing conservation solutions and leave with practical tools to overcome barriers and build more inclusive initiatives.

Session #42
UC 326–327

Information-Sharing Session
Format: Presentation + Audience Interaction

The Monsters We Create: Misconceptions about Wilderness in the US
Leader: Michelle Reilly, Wilderness Liaison, USFWS, Arthur Carhart National Wilderness Training Center

The history of the Wilderness Act is not without struggle and despite the growth of the system, criticisms have persisted for decades, arguing that the Act is “dualistic, ethnocentric, and static.” One critic states the definition of wilderness offered in the Wilderness Act of 1964, “assumes, indeed it enshrines, a bifurcation of man and nature. This session investigates two criticisms: that the Wilderness Act perpetuate a dichotomy between man and nature and that Wilderness intimates a purity of the land and people. Where do these criticism stem from and are they warranted? Throughout the session, participants can interact via questions in a gaming platform on their phones (BravoZone) and 2 short video/audios will be played and asked for comment.

Session #43
UC 330–331

Information Sharing Session
Format: Panel Discussion

The Wild Next Door: Between City Limits and Sacred Lands
Leader: Lauren Redmore, Research Social Scientist, Aldo Leopold Wilderness Research Institute • *Panelists:* Mitchell Clark, Society for Wilderness Stewardship Fellow, filmmaker and CEO of Destroy Collective; Chris Armatas, ALWRI Research Social Scientist; Olga Helmy, ALWRI science communications specialist

This session will show a 45-min film (currently in edit) followed by a Q&A with movie directors, producers, and experts. The film is about the Alpine Lakes Wilderness (ALW) located outside of Seattle, WA. As recreational use increases, the Forest Service grapples with declining budgets to ensure wilderness character is preserved, though much on-the-ground work gets picked up by NGO partners. Tribal rights-holders grapple with the impacts of recreational use and the growing need to work with diverse NGO partners to influence visitor behavior. This film addresses questions of: what is wilderness, what is the ALW, what are the challenges facing urban proximate wilderness, and what are potential solutions.

Session #44
UC Theater

Information-Sharing Session: Presentations + Audience Interaction

Homelessness and nature across landscapes and disciplines
Leaders: Seamus Land, Adjunct Professor, University of Montana; Monika Derrien, Pacific Northwest Research Station, USDA

The social-ecological dynamics of homelessness in parks and protected areas have become increasingly apparent to land managers, conservationists, social workers, scholars, and members of many communities across the US. To help connect a fragmented dialogue across the academic literature, we present findings from a literature review we conducted across a broad range of disciplines. We observed an increasing focus on understanding homelessness drivers, impacts, and solutions through a coupled social-ecological systems lens. To help mobilize around needs and opportunities, we propose the development of a research agenda to identify priorities for better attending to the complex and contested challenges of homelessness across landscapes, and we invite audience insights on how to ensure social and environmental justice in this endeavor.

Session #45
UC 332–333

Core Workshop Session
Format: Hands-on Activity

The Art and Science of Signage: Two examples and a design charrette
Presenters: Jeremy Shellhorn, University of Kansas; Miranda Foster, Will Rice, Adalyn Vergara, all University of Montana; Marilee Movius, The League to Save Lake Tahoe

This session will introduce a new way of thinking about how we design effective signs in parks and protected areas. We'll begin with two presentations, which will serve to demonstrate a data-driven approach to signage design and testing. The first presentation will share findings from a signage experiment conducted on a beach in Lake Tahoe in summer 2025, in collaboration with the League to Save Lake Tahoe. The second presentation will share findings from a two-part study conducted in 2024 and 2025 on the effectiveness of universal symbol signs used in campgrounds, and proposes a set of redesigned symbols for improved communication. The latter half of the session will consist of a design charrette, wherein participants will team up to apply the findings of these studies to applied park signage challenges, including redesigning universal symbols.

REFRESHMENT BREAK 3:00–3:30p (30 minutes) Cold beverages

Thursday, October 23 3:30–4:45p CLOSING PLENARY SESSION

Closing Plenary Session V
UC Theater

Format: Invited speaker

The Fight to Keep America’s Public Lands in Public Hands
Land Tawney, Co-Chair, American Hunters and Anglers Action Network
Moderator: Will Rice, University of Montana

Public lands advocate Land Tawney will share his thoughts on his new organization, the American Hunters and Anglers Action Network, which is positioned on “The Front Line in the War on Public Lands.” Mobilizing the hunting, fishing, and outdoor recreation communities, the Network fights against any effort to sell off public lands. “We have a simple mission: to deliver accountability to all elected and unelected policymakers and special interests who threaten our hunting, fishing and outdoor heritage.”



Land Tawney is a 5th generation Montanan who grew up hunting, fishing, berry picking, skiing and hiking on public lands and waters. He learned his conservation ethic from his parents, and earned a bachelors degree in Wildlife Biology from the University of Montana. Land’s 25 year career in conservation policy and grassroots engagement has led to building multifaceted constituencies across North American and testifying in Congress. Today, Land is the proud father of two future conservation leaders and Co-Chair of American Hunters & Anglers.

Friday, October 24 9:00a–2:30p Field Trip, National Bison Range
Gather outside main entrance to Conference Center at 8:45a • Box lunch provided

POSTER SESSION Monday, October 20, 1:30p through Thursday, October 23, 12:00p

Poster Session

UC Ballroom North

Set-up: Monday, October 20,
10:00a–1:30p

Posters available for continuous
viewing between Set-up and
Tear-Down

Poster Reception and time for pre-
senter to stand by their posters:
Tuesday, October 21, 5:00–6:00p

Tear-down: Thursday, October 23,
12:00–1:30p

- Having Reservations? The Impact of Recreation.Gov on Visitor Experiences at Acadia National Park / Isabelle Kostelnick, Oregon State University
- Connections to Nature and Knowledge: An Ecofeminist Analysis of Fly-Fishing Guiding / Paige Fery, University of Utah
- Alternative Parking Management Strategies: Implications for Visitor Use Management in Gatineau Park / Ashley Padvaiskas, University of Ottawa
- The influence of novel communication interventions on overnight park visitors / Clara-Jane Blye, University of Utah
- A Rapid Review of Participatory GIS Scholarship Centering Tribal Sovereignty / Brey Weygandt, University of Idaho
- Lessons from the Summits: Evaluating Vegetation Management Effectiveness Using Remote Sensing / Min Kook Kim, Stockton University
- Conservation Behind the Scenes: Stress, Interpersonal Relationships, and Job Satisfaction in the NPS / Elizabeth Himschoot, Penn State University
- The Role of Educational Programming in Indigenous Peoples' Experiences in Protected Areas / Kole Lundstrom, University of Alberta
- Harnessing Remote Sensing Technologies to Monitor Tourism Impacts in the Antarctic Peninsula / Natalia Jaramillo, University of Idaho
- Addressing the Funding Gap in Private Lands Conservation in Global Biodiversity Hotspots / Susan Pierce, Hotspot Patrons
- Multiple Use and Sustained Yield and the BLM's National Landscape Conservation System / Tom Heinlein, Bureau of Land Management
- The National Landscape Conservation System: An Overview / Sean MacDougall, Bureau of Land Management
- Optimizing Vegetation Indices for Enhanced Management of Parks and Protected Areas / Min Kook Kim, Stockton University
- Co-Producing the Department of Interior's Bison Shared Stewardship Strategy / Travis Anklam, University of Montana
- Predicting Park Conservation Support via Livelihood Security and Human-Wildlife Conflict Assessment / Mercy Chepkwony, The Pennsylvania State University
- National Park Studies at Eastern Washington University / Bill Youngs, Eastern Washington University
- What is the interagency Arthur Carhart National Wilderness Training Center? / Michelle Reilly, US Fish & Wildlife Service
- Recreating Together: Displacement Types and How they Vary in Multigenerational Households / Sarah Krzemien, Michigan State University
- Assessing pollinator communities in national parks / Tabitha Graves, US Geological Survey
- Who should own public lands—Individual states, the Feds, or Tribes? / Levi Tenen, Virginia Wesleyan University
- Responding to ecological transformation: Comparing protected areas in the US and Australia / Ruby Olsson
- Identifying recreation participation patterns and trends using the ORAPS / Wayne Morse, Auburn University
- A citizen science approach to early detection and monitoring / Kyle Lima, The Schoodic Institute at Acadia National Park
- Valuing Ecosystem Services to improve Place-based Conservation: A Study of Sagebrush Steppe in U.S. National Parks / Tori Bugni, NPS Scientist in Parks Post Doc Fellow
- Data-driven design for more effective Wilderness trailhead signage / Will Rice, University of Montana
- The Blue Mesa Timeline: A Data Dashboard / Trevor Ross, University of Montana
- JTLab and Parks Modern / Rebecca Lowry (set of 4 Posters), Joshua Tree Creative Lab
- U.S. Biosphere Network / David Reynolds, U.S. Biosphere Network & George Wright Society
- Roles of Art in Science Communication and Outreach / Ashelee Rasmussen
- Misinterpretations of Wilderness in the US Public Lands System / Michelle Reilly, US Fish & Wildlife Service
- Beyond Secretaries, Hostesses, and Cooks: The Women Who Battled to Save Wilderness / Michelle Reilly, US Fish & Wildlife Service
- Exploring Visitor Perceptions of Summit Vegetation Restoration in Acadia National Park / Margaret Bogner, University of Maine/Friends of Acadia
- Loved to Death: Evaluating degraded areas along the Manistee River Trail / Cait Henry, Michigan State University
- A Road Runs Through It: Assessing Road Mitigation Options for Wildlife in Kafue National Park and Greater Kafue Ecosystem, Zambia / Katie Deuel, Ctr for Large Landscapes Cons
- Whose Parks? How to Meaningfully Consult Interest Holders in Managing National Parks / Audrey Roy, University of Ottawa
- Building the path forward: USFS partnership enables post-fire restoration of SoCal multi-use trails / Lynne Cherchia, USC & Mount Wilson Bicycling Association
- North American Marine Protected Areas Network / Lauren Wenzel, IUCN World Commission on Protected Areas
- Getting Managed Access Right: Equitable Design of Visitor Use Management Systems / Adam Auerbach, Next Interior

POSTERS WILL BE ARRANGED IN ALPHABETICAL ORDER BY LEAD AUTHOR'S LAST NAME

Gratitude

First and foremost, the George Wright Society thanks the Confederated Salish and Kootenai Tribes, and the Kalispel Nation, on whose Traditional Territory we are meeting, for taking care of these lands and waters down the centuries. GWS also thanks our host institution, the University of Montana, for welcoming us to the campus for the inaugural GWS ParkForum conservation solutions workshop.

GWS ParkForum 2025 was planned by a Program Team convened by the GWS. We are deeply grateful to the following Team members, who spent many hours over the past year putting the program together, including evaluating submissions, arranging field trips, and much more:

Suzanne Copping • Ashley D'Antonio • Abigail Fuesler • Cait Henry • Fred Herling • Lydia Kiewra • Sean MacDougall
Linda Mazzu • Dave Reynolds • Will Rice • Jaclyn Rushing • Alan Spears • Jenn Thomsen • Adalyn Vergara

About the George Wright Society

GWS honors the legacy of [George Meléndez Wright](#), who founded the science program of the US National Park Service and was the first person of Hispanic heritage to hold a professional position in the agency. GWS supports parks, protected/conserved areas, cultural sites, and other kinds of place-based conservation by encouraging communication among and convenings of researchers, managers, educators, practitioners, and the public to facilitate informed decisions and actions that embrace our values. Founded in 1980, we strive to be the premier organization connecting peoples, places, knowledge, and ideas to foster excellence in cultural and natural resource management, research, protection, and interpretation in place-based conservation. Drawing on core values of integrity, respect, inclusion, and collaborative curiosity, we unite diverse communities around a common passion for protecting Earth's natural and cultural heritage. If you aren't already a GWS member, please consider joining! Visit us at georgewrightssociety.org.

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Abstracts

George Wright Society ParkForum 2025: A Conservation Solutions Workshop

October 20–23, 2025 • University of Montana, Missoula

Present a Poster

Travis

Anklam

Center For Natural Resources & Environmental Policy, University of Montana

travis.anklam@umt.edu

Co-Producing the Department of Interior's Bison Shared Stewardship Strategy

The Department of the Interior (DOI) has made a commitment to shared stewardship of wild bison in cooperation with states, Tribes, and other stakeholders. In 2023, the DOI assembled a group of Federal and Tribe-nominated co-authors to co-produce a Bison Shared Stewardship Strategy, establishing a comprehensive framework and strategic directions to advance partnerships key to ecocultural restoration of bison across the country. This innovative co-production process strengthened relationships among Federal agencies and Tribes, established a broadly applicable strategy for bison restoration partnerships and actions to support place-based efforts, and yielded valuable lessons that can inform efforts by Tribes, agencies, and others working together to advance wildlife restoration through collaboration across scales.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Invited Papers

Chris

Armatas

Aldo Leopold Wilderness Research Institute

christopher.armatas@usda.gov

The valiant effort to collaboratively plan for the Alpine Lakes Wilderness

Alpine Lakes Wilderness (ALW) is a highly visited wilderness (150,000 people annually), located outside of Seattle, WA. As with other urban-proximate wildernesses, people are increasingly accessing the ALW for recreation, leading diverse rightsholders and stakeholders to be variously concerned about the impacts of recreation, fair and reasonable opportunities for access, preserving wilderness character within the administrative boundaries of the wilderness area, and ensuring the wilderness area is managed as part of the broader surrounding landscape.

This session proposes to introduce the ALW with select portions of a professionally-developed movie, which will be followed by three paper presentations outlining nearly four years of effort focused on collaboratively planning for the integration of natural and cultural heritage of the ALW.

Additional people involved in the proposal, if any

Chris Armatas, Research Social Scientist, Aldo Leopold Wilderness Research Institute – paper title: The arc of the Alpine Lakes Collaborative

Lauren Redmore, Research Social Scientist, Aldo Leopold Wilderness Research Institute – paper title: The Alpine Lakes Collaborative experience: A qualitative study of participating members

Stephanie Barron, ORISE research fellow, Aldo Leopold Wilderness Research Institute – paper title: Collaboration, consultation, and tribal involvement in wilderness planning

Present a Paper

Adam

Auerbach

Next Interior

adam.r.auerbach@gmail.com

Getting Managed Access Right: Planning for Equitable Design of Visitor Use Management Systems

Managed access systems are becoming more popular to modulate visitation to our parks. Associated planning documents tend to conclude that managed access will not impact social equity outcomes regarding visitation. However, existing research is inadequate to support this conclusion across contexts. In particular, managed access systems may have differential social equity outcomes in remote versus urban-proximate parks, which is a consideration that should inform planning processes and future research. Otherwise, managed access systems may inadvertently change the demographics of park visitors and in turn supporters, which could lead to unacceptable advocacy and political outcomes around support for parks. This presentation will conclude with an overview of design features that promote equity in managed access systems.

Additional people involved in the proposal, if any

Cassidy Jones, Senior Visitation Program Manager, National Parks Conservation Association

Present a Poster

Adam

Auerbach

Next Interior

adam.r.auerbach@gmail.com

Getting Managed Access Right: Equitable Design of Visitor Use Management Systems

Managed access systems are becoming more popular to modulate visitation to our parks. Associated planning documents tend to conclude that managed access will not impact social equity outcomes regarding visitation. However, existing research is inadequate to support this conclusion across contexts. In particular, managed access systems may have differential social equity outcomes in remote versus urban-proximate parks, which is a consideration that should inform planning processes and future research. Otherwise, managed access systems may inadvertently change the demographics of park visitors and in turn supporters, which could lead to unacceptable advocacy and political outcomes around support for parks. This poster will also share design features that promote equity in managed access systems.

Additional people involved in the proposal, if any

Cassidy Jones, Senior Visitation Program Manager, National Parks Conservation Association

Present a Paper

Anna

Baize

Human Dimensions Lab, Montana Cooperative Wildlife Research Unit, Wildlife Biology Program, University of Montana

anna1.baize@umconnect.umt.edu

Reducing Bear Conflicts Through Attractant Prioritization

Black and grizzly bear encounters with people raise the risk of conflict. Unsecured attractants like garbage, fruit trees, and poultry are key drivers. Communities often rely on informal observations to guide attractant securing efforts or attempt to address all attractants, stretching resources and reducing efficacy. We adapted a Community-Based Social Marketing model to identify attractants with the greatest potential to reduce conflicts. Using expert elicitation in Montana's Bitterroot Valley, we assessed characteristics of different attractants and prioritized using our adapted model. Our findings highlight key attractants that, if secured, could most significantly reduce conflicts. More broadly, this framework offers a widely applicable tool to efficiently allocate limited resources for reducing human-wildlife conflicts.

Additional people involved in the proposal, if any

Co-authors:

- Brianna P. Lipp, Human Dimensions Lab, Wildlife Biology Program, University of Montana, Missoula MT 59812

- Alexander L. Metcalf, Human Dimensions Lab, Wildlife Biology Program, University of Montana, Missoula MT 59812

- Sarah N. Sells, U.S. Geological Survey, Montana Cooperative Wildlife Research Unit, Wildlife Biology Program, Ecology & Evolution Program, University of Montana, Missoula MT 59812

Present a Paper

Elizabeth

Baldwin

Clemson University

ebaldwn@clemson.edu

Learning From Burning: Connecting Fire Managers and Fire Scientists

The fire community is one of transparency and learning, and embedded in its culture is an openness of sharing successes and failures in order to learn and adapt. United by a shared desire to effectively understand and utilize controlled burns to successfully extinguish wildfires and research their lasting effects, fire managers and fire scientists coexist in partnerships commonly referred to as knowledge exchange networks. This research examines one such network, the Consortium of Appalachian Fire Managers and Scientists (CAFMS). Interviews with CAFMS members were analyzed, and the coding of salient statements. The effectiveness of this consortium is due to virtual connections but mainly stems from face-to-face engagement.

Additional people involved in the proposal, if any

Taylor Parker will present for Dr. Baldwin, who cannot attend.
Coleman Little, co-author
Helen Mohr, co-author
Jen Bunty, co-author
Matt Brownlee, co-author
Bob Brookover, co-author

Present a Paper

Josh

Beisel

University of Montana (College of Forestry and Conservation)

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Climate change and fire alter biotic interactions and tree growth in wilderness treeline forests

Climate change and shifting fire regimes are reshaping high-elevation forests, yet the role of biotic interactions in modulating these changes remains unclear. Many of these ecosystems in the western US fall within federally designated Wilderness areas, offering a unique opportunity to study treeline forest dynamics with minimal confounding factors. To investigate how global change affects climate-fire-vegetation interactions, we sampled tree growth and forest structure across treeline sites in the Selway-Bitterroot Wilderness. Our results indicate that current trends are rapidly altering both the structure and biotic interactions formerly characteristic of treeline forests. These findings underscore the value of Wilderness as a “natural laboratory” and will help guide future management of high-elevation forest ecosystems.

Additional people involved in the proposal, if any

Present a Paper

Rajiv

Bhartari

n/a

rajivbhartari@gmail.com

The Social and Political Impacts of Zoning in Protected Areas - Case Study, Corbett Tiger Reserve

Zoning has become the sine qua non in protected areas and wilderness management worldwide. Yet zoning, as an assemblage of policies, practices, and especially politics, is poorly understood, particularly through a critical geographical and political ecology lens. In this qualitative study, I employed the concepts of territorialization, reterritorialization, and enclavization as a framework for examining the creation and impacts of zoning in the Corbett Tiger Reserve (CTR) landscape over the past five decades (1973-2023). This framework facilitated understanding successive phases of core, buffer, and tourism zone-making, as well as the proliferation of resort tourism and its negative implications for local communities. The politics of zoning in wilderness areas, with their uneven social and ecological impacts, requires further study.

Additional people involved in the proposal, if any

Present a Poster

Clara-Jane

Blye

University of Alberta

clara-jane.blye@utah.edu

The influence of novel communication interventions on overnight park visitors

The Camper's Code Pledge, developed by a coalition of British Columbia organizations, promotes responsible recreation in parks and campgrounds. This two-phase quasi-experimental study tested the effects of communication tools—written messages, multimedia, and pledges—on visitor behavior. Phase one surveyed 769 overnight visitors, showing that multimedia messaging (video) followed by a pledge significantly increased pro-environmental behavioural intentions. Phase two follow-up surveys are ongoing to assess long-term behavior change. Results indicate that written communication is not the most effective tool in shifting behaviours, in addition pledges as a singular act of commitment do not appear as influential as pairing persuasive multi-media communication with public commitment.

Additional people involved in the proposal, if any

Elizabeth Halpenny, University of Alberta
Mu He, University of Alberta

Present a Paper

Clara-Jane

Blye

University of Alberta

clara-jane.blye@utah.edu

Parks and citizenship, access, and identity

This presentation explores the transformative potential of parks as inclusive leisure spaces for New Canadians navigating the intersection of cultural heritage and environmental engagement. As place-based conservation sites, parks are not only ecological preserves but also evolving cultural landscapes where questions of belonging, identity, and justice unfold. Drawing on interviews with 14 New Canadians from diverse backgrounds this study examines how nature-based leisure functions as both a site of reconnection, with nature and cultural memory and a space of Canadian identity formation. Participants shared narratives of healing, community building, and emotional well-being through park visits, while also confronting challenges related to accessibility, cultural norms, and feelings of exclusion.

Additional people involved in the proposal, if any

Elizabeth Halpenny, University of Alberta

Present a Poster

Margaret

Bogner

University of Maine / Friends of Acadia

margaret.bogner@maine.edu

Exploring Visitor Perceptions of Summit Vegetation Restoration in Acadia National Park

Acadia National Park (ANP), a federally protected area with a variety of tourism opportunities, is in the process of restoring lost vegetation on Cadillac and Sargent Mountains due to trampling from high recreational use. This exploratory research study investigates how to best support the restoration efforts through the use of various social science methods. The research aims to (1) analyze differences in motivations, behavioral intent, and demographics between different summit visitors, (2) examine spatial patterns of visitor movement, and (3) determine visitors' willingness to support restoration efforts. The results of this research will help guide ANP's staff and team partners for the next phase of restoration. Likewise, the results are applicable to other land management agencies looking to engage in summit restoration.

Additional people involved in the proposal, if any

Dr. Sandra De Urioste-Stone, Advisor, University of Maine
Dr. John Daigle, Committee Member, University of Maine
Dr. Adam Gibson, Committee Member, Acadia National Park
Becca Stanley, Committee Member, Friends of Acadia

Organize an Information-Sharing Session: Panel Discussion

Michelle

Bowden

Parks Canada

michelle.bowden@pc.gc.ca

Indigenous Stewardship: Conservation Through Relationships

Parks Canada has embarked on a process of organization-wide renewal, centered around a vision of protected heritage area management and governance that is respectfully aligned with Indigenous ways of stewarding lands, water, and ice. At its core is the Indigenous Stewardship Framework and Policy, which respectfully advances reconciliation and support implementation of the UNDRIP. Done in collaboration with Indigenous Leaders, the Indigenous Stewardship Policy (ISP) seeks to support the continuity of Indigenous cultures and advance how the priorities of First Nations, Métis, and Inuit peoples alongside Parks Canada's mandate can be accomplished together to advance environmental, economic and community well-being. This session will share both Parks Canada and Indigenous perspectives of the ISP, key lessons learned and next steps.

Additional people involved in the proposal, if any

Presenters are still to be determined, but if a placeholder is required, the following names can be added:

Ernie Gladstone, Executive Director, Indigenous Stewardship, Parks Canada
Cindy Boyko, Co-Chair, Indigenous Stewardship Circle, Parks Canada
Carla Morse, Manager of Indigenous Engagement on Collections, Parks Canada

Participate in the 3MR (Three-Minute Research Competition)

Kika

Bradford

Institute for Tourism and Recreation Research

kika1.bradford@umontana.edu

Beyond science and regulations: Hidden factors shaping recreation management decisions

As demand for outdoor recreation grows, land managers must balance visitor access with conservation; yet little is known about the factors shaping their decisions. This study explores how beliefs, organizational climate, and past behaviors shape recreation decisions within Brazil's federal protected areas agency. Findings show that managers are more likely to embrace recreation when they see it as a conservation tool, perceive a supportive work environment, and have prior experience implementing it. Psychological and organizational enablers and barriers to Brazilian recreation may also apply to other areas and issues (e.g., climate change and JEDI efforts). These findings can inform conservation solutions by identifying pathways to bridge policy and practice gaps, improving capacity and readiness to meet rising challenges in conservation.

Additional people involved in the proposal, if any

Organize a Core Workshop Session: Presentations + Audience Interaction

Kika

Bradford

Institute for Tourism and Recreation Research

kika1.bradford@umontana.edu

GenAI for conservation: Exploring opportunities and challenges in parks and recreation

This interactive workshop explores how generative AI (GenAI) can support research and practice in conservation and outdoor recreation. We'll break down what GenAI is, where it can help—from literature reviews and study design to data analysis and outreach—and where it falls short. Using examples from the Institute for Tourism and Recreation Research, this workshop will feature live demos, real-world case studies, and hands-on activities to explore GenAI's potential, limitations, and ethical dimensions—such as its power to advance or hinder social and environmental justice. Whether you're curious, cautious, or already experimenting, this is a space to ask questions, try things out, and shape how AI is thoughtfully and responsibly used in our field.

Additional people involved in the proposal, if any

Present a Poster

Victoria

Bugni

National Park Foundation

tori.bugni@gmail.com

Valuing Ecosystem Services to improve Place-based Conservation: A Study of Sagebrush Steppe in U.S. National Parks

As national parks face mounting pressures from budgetary constraints and competing land uses, ecosystem service valuation has the potential to inform planning decisions. Quantifying services like wildlife habitat, watershed protection, and carbon storage helps park managers achieve their management priorities and justify their conservation investments. We examine the specific case of Sagebrush Steppe Ecosystem across several national parks, Craters of the Moon, Curecanti, Black Canyon of the Gunnison, and Grand Teton. Our on-going work will document ecosystem services provided by Sagebrush Steppe, value services that have been understudied, and demonstrate that ecosystem service valuation can complement and bolster traditional conservation goals.

Additional people involved in the proposal, if any

Would like to present as a Paper. This is a poster from the NPS/NPF/Scientists in Parks Fellow collaborative team.

Organize an Information-Sharing Session: Sharing Circle

Rob

Burrows

Arthur Carhart National Wilderness Training Center

rob_burrows@nps.gov

Exploring the Benefits of the National Wilderness Preservation System

The National Wilderness Preservation System (NWPS) was created in 1964 with the passage of the Wilderness Act, codifying the legal concept of designated wilderness that reflects places to preserve undeveloped and natural conditions, untrammelled ecosystems; provide outstanding opportunities for solitude and primitive and unconfined recreation; and protect cultural, ecological, and historical values. Today, the NWPS includes over 111.8 million acres in 806 wilderness areas across the US and Puerto Rico. Section 2(a) of the Act states, "it is hereby declared to be the policy of the Congress to secure for the American people of present and future generations the benefits of an enduring resource of wilderness." This session will facilitate exploration of wilderness values and benefits in the context of the wilderness character concept.

Additional people involved in the proposal, if any

Session co-organizers/co-presenters:

Jimmy Gaudry, Director, Arthur Carhart National Wilderness Training Center
Jaclyn Rushing, Social Scientist, Aldo Leopold Wilderness Research Institute

Organize a Core Workshop Session: Hands-on Activity

Rob

Burrows

Arthur Carhart National Wilderness Training Center

rob_burrows@nps.gov

Evaluating Ecological Intervention Proposals in Wilderness

Climate change and expanding development causing landscape scale fragmentation pushes the perceived need for ecological interventions in Wilderness areas of the US. The Wilderness Act of 1964 mandates federal agencies preserve wilderness character, a holistic concept composed of 5 qualities. Across many landscapes the protected status and size of wilderness allows these areas to be the last and best refuge for many species and habitats. Interventions pose a conundrum because the untrammelled quality directly contributes to this refuge function of wilderness, yet interventions are a trammeling. Interventions are usually taken to preserve the natural quality. In small groups, attendees will explore factors to evaluate ecological interventions in wilderness through hands-on activity that helps point to conservation solutions and tradeoffs.

Additional people involved in the proposal, if any

Session co-organizers/co-presenters:

Jimmy Gaudry, Director, Arthur Carhart National Wilderness Training Center
Jaclyn Rushing, Social Scientist, Aldo Leopold Wilderness Research Institute

Present a Paper

Xochizeltzin

Castaneda-Camacho

St. Olaf College

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Transdisciplinary Research for Biodiversity Conservation in Protected Areas of the Chihuahuan Desert

Climate change is accelerating and diminishing the resilience of arid lands where flora and animal species are highly vulnerable to anthropogenic disturbance. This study undertaken from the perspective of landcover change examines three Protected Areas (PAs) in the Chihuahuan Desert of northern Mexico: 1) The Mapimi Biosphere Reserve, 2) The Reserve of Real de Guadalcazar, and 3) The Reserve of the Sacred Site of Huiricuta. These three PAs are designated as biodiversity hotspots in the world and align with migratory bird corridors between North and South America. The goal is to identify the critical zones of habitat loss and their potential level for restoration. This work applies transdisciplinary research, mixed methods, geospatial technologies, and fieldwork. It fits in the workshop theme Responding to Climate Change.

Additional people involved in the proposal, if any

Present a Poster

Mercy

Chepkwony

The Pennsylvania State University

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Predicting Park Conservation Support via Livelihood Security and Human-Wildlife Conflict Assessment

Park conservation in the context of Africa presents complex challenges that require addressing conservation goals alongside local development needs. However, prevailing challenges such as human-wildlife conflict continue to threaten both conservation and local livelihoods. This cross-sectional quantitative study uses the case of Maasai Mara National Reserve in Kenya, to assess how livelihood security dynamics and human wildlife conflict influence local conservation support. Structured survey data was gathered from 411 households. Findings indicate moderate livelihood security, high incidences of human-wildlife conflict (HWC), and moderate-to-high conservation support. These factors are crucial to explore as they hold potential to inform policy that addresses both biodiversity conservation and local community wellbeing.

Additional people involved in the proposal, if any

Gasto Lyakurwa, PhD Student, The Pennsylvania State University

Edwin Sabuhoro, Assistant Professor, The Pennsylvania State University

Present a Poster

Lynne

Cherchia

University of Southern California; Mount Wilson Bicycling Association

lcherchi@usc.edu

Building the path forward: USFS partnership enables post-fire restoration of SoCal multi-use trails

Mount Wilson Bicycling Association (MWBA) has been advocating for, building, and stewarding multi-use trails on the Angeles National Forest (ANF) since 1986. The ANF spans over 700,000 acres and, as an urban national forest, provides backcountry access to the millions of diverse inhabitants of Los Angeles. As one of two non-profit, volunteer-led organizations primarily responsible for stewarding ANF front- and backcountry trails, MWBA partners with the USDA Forest Service to fund trail work. Here we present a case study of completed restoration on Valley Forge Trail following the 2020 Bobcat Fire. The restoration project utilized a Challenge Cost Share Agreement with the USFS and successfully restored the 3 miles of trail over a 27-month period, and this model is currently being deployed to restore trails impacted by the 2025 Eaton Fire.

Additional people involved in the proposal, if any

Carson Blaker, Board Director, Mount Wilson Bicycling Association
Bart Bombay, Board Director, Mount Wilson Bicycling Association
Andrew Hunter, Board Director, Mount Wilson Bicycling Association
Alex Keller, Board Secretary, Mount Wilson Bicycling Association
Daniel Lichtenstein, Board Director, Mount Wilson Bicycling Association
Ester Song, Board Vice President, Mount Wilson Bicycling Association
Jay Marion, Board President, Mount Wilson Bicycling Association

Present a Paper

Michael

Childers

Colorado State University

michael.childers@colostate.edu

What is the Purpose of the National Parks? Teaching History of America's National Parks

I begin my History of America's National Parks course with the deceptively simple question: What is the purpose of national parks? Students usually respond with answers centered around conservation or the preservation of natural resources. In my class I guide them through a diverse set of historical reports, articles, and other sources that present a range of perspectives on the purpose and management of the parks. This broadens and complicates student's understanding, and ultimately challenging and refining their response to the course's central question.

Additional people involved in the proposal, if any

This paper is a part of the panel proposal organized by Michael Pretes and Randal Wilson entitled "Teaching About National Parks."

Present a Paper

Madaline

Cochrane

University of Montana

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NPS-led amphibian monitoring evaluates responses to climate and identifies refugia

Amphibians have declined dramatically in the last few decades. To better understand the drivers of this decline and identify key refugia to conserve amphibian biodiversity, we are synthesizing long-term amphibian monitoring data from across the NPS Inventory and Monitoring Division. Using multi-species occupancy models and 20+ year datasets, we can make forecasts about future amphibian distributions and identify key NPS refugia given increasing drought intensity and frequency. This synthesis will also provide recommendations for how to improve efficiency and effectiveness across monitoring programs, with the goal to facilitate future continental-scale analyses.

Additional people involved in the proposal, if any

Andrew Ray, project manager/researcher (NCCN I&M Network Program Manager)
Blake Hossack, project manager/researcher (USGS Research Zoologist)
Lisa Eby, project manager/researcher (University of Montana Professor)

Present a Paper

Regan

Coyne

University of Alberta

coyne.r@hotmail.com

Managing the Great Divide Trail

Land managers face significant challenges in balancing ecological integrity with recreational access. This is particularly evident along the Great Divide Trail (GDT), a long-distance backcountry hiking path that spans 24 jurisdictions across two provinces in Canada. Each agency involved has its own approach to managing ecological health and recreational use. Examining their strategies for conserving land, wildlife, and waterways along the Trail reveals how they navigate the dual goals of ecological protection and recreational support. Understanding these approaches can provide valuable lessons for optimizing both recreation and ecological outcomes, ultimately guiding efforts to harmonize the often competing demands of recreation and ecology in linear backcountry environments.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Invited Papers

Amanda

Cravens

U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center

aecravens@usgs.gov

Navigating ecological transformations: Social Aspects of Resist-Accept-Direct (RAD) decisions

The RAD framework helps managers respond to climate change and navigate transforming ecosystems by defining a broad decision space that includes resisting ecological trajectories, consciously accepting such change, and directing trajectories towards preferred new conditions. RAD is intended to help managers intentionally expand their thinking beyond traditional approaches. Recent interdisciplinary and cross-agency research has integrated social sciences to explore how and why managers are making RAD decisions. This session will highlight findings and implications from five papers at the forefront of RAD research, including how RAD: 1) fits within broader agency adaptation planning, 2) can inform wilderness management, 3) is being used by managers within and across jurisdictions, and 4) raises ethical questions.

Additional people involved in the proposal, if any

Session co-organizers:

Jaclyn Rushing, Social Scientist, Aldo Leopold Wilderness Research Institute, Rocky Mountain Research Station, USDA Forest Service

Papers and Presenters:

Paper 1: Setting the stage: Putting RAD in the broader context of agency adaptation (based on paper under review at *Frontiers in Ecology and the Environment*) / Presenter TBA

Paper 2: Engaging with RAD across jurisdictions in the Missoula Valley

o Presenter(s): Caroline Bean, Ph.D. candidate, University of Montana and Laurie Yung, Professor of Natural Resource Social Science, University of Montana

Paper 3: RAD in Wilderness

o Presenter(s): Jaclyn Rushing and/or Kira Hefty (session co-organizers)

Paper 4: Psychological factors and emotions in RAD decision making

o Presenter(s): Amanda Cravens (session organizer) and Julia Goolsby, Ph.D. student, Cornell University

Paper 5: RAD Ethics (currently under review at *People and Nature*)

o Presenter(s): Christopher Preston, Professor of Philosophy, University of Montana

Present a Paper

Morgan

Crump

University of Vermont

mccrump97@gmail.com

Visitor Impacts and Experiences Related to Roadside Wildlife Viewing in Yellowstone National Park

As visitation to national parks increases, so does interest in viewing wildlife, particularly in high-profile destinations like Yellowstone National Park. Encounters with charismatic megafauna are sought after and serve as motivators for visitors. This trend has brought increased attention to how visitor interactions impact wildlife behaviors and visitor experiences. As visitors flock to PPAs, the need to understand the effects of wildlife encounters on animal behavior and ecosystem health grows. This study draws on a 2025 roadside visitor study conducted at official and unofficial vehicle pull-offs in the Lamar Valley. We examine the perceptions and behaviors of visitors actively viewing wildlife. Findings aim to inform management strategies that support both wildlife protection and high-quality visitor experiences.

Additional people involved in the proposal, if any

Morgan Crump^{1,2}, Derrick Taff², Stephanie Freeman³, Lauren Miller⁴, and Peter Newman¹
1 Rubenstein School of the Environment and Natural Resources, University of Vermont
2 Department of Recreation, Park, and Tourism Management, Pennsylvania State University
3 South Dakota Game, Fish, and Parks
4 U.S. Fish and Wildlife Services

Present a Paper

Chloe

Czachor

Flathead Lake Biological Station

chloe.czachor@flbs.umt.edu

Protecting the waters of Montana through a Pesticide Stewardship Partnership Program

Water quality monitoring is essential for assessing ecosystem health, detecting environmental changes, and keeping Montana's waters clean and clear for all. Pesticide pollution of surface and groundwaters from populated areas, agriculture, and other human sources is a threat to water quality and can have far reaching impacts on human and ecosystem health. However, there is very little existing baseline data on pesticide concentrations in Montana's waters, so the magnitude of the problem is unknowable. The Montana Pesticide Stewardship Partnership Program (MT PSPP) aims to address that gap and reduce pesticide pollution through water quality monitoring, community education and engagement, and activities that improve water quality in the upper Columbia River Basin (CRB). We will share our program goals, progress and opportunities to engage.

Additional people involved in the proposal, if any

Dr. Rachel Malison, Assistant Research Professor, Principal Investigator for the Pesticide Stewardship Partnership Program, Flathead Lake Biological Station

Janelle Groff, Research Coordinator for the Montana Pesticide Stewardship Partnership Program, Flathead Lake Biological Station

Participate in the 3MR (Three-Minute Research Competition)

Juia

Daniell

University of Montana

julia.daniell@umontana.edu

Proceeding with Sound Judgment: Applied Sensory Biology and Wilderness Character

This presentation explores the impacts of recreational sound on wildlife behavior and movement. Soundscapes provide vital information for wildlife and humans alike: every known vertebrate species utilizes sound to survey its surroundings. Despite the growing number of visitors to U.S. parks and protected areas, the importance of soundscapes to wildlife and to visitors remains understudied. This thesis examines how mammals may habituate to these sounds through experimental fieldwork conducted in Bridger-Teton National Forest utilizing sound-simulated “trails” and building on the methodology of Zeller et al. (2024). The findings of this study may aid land managers in making informed decisions on trail use, area closures, and permissions for motorized travel to help maintain the integrity and safety of the ecosystems they oversee.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Invited Papers

Juia

Daniell

University of Montana

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Wild, Bright, and Noisy: Exploring subtle "footprints" of recreation

This organized session explores the less obvious impacts of outdoor recreation on ecosystems, wildlife, and visitor experiences in the U.S. parks and protected areas. Through a mixture of methodologies and disciplines this session examines the effects of sensory pollutants—such as noise and light—and spatiotemporal recreation fluctuations on humans and wildlife. Dr. Newman will provide a synthesis of twenty years of research on sensory pollution in protected areas, while Dr. Taff and Dr. Crump focus on specific park units, Great Smoky Mountains and Acadia National Parks, respectively. Both Cronin and Daniell's work was conducted in the Greater Yellowstone Ecosystem. Together, these studies underscore the importance of developing effective strategies for balancing recreation with conservation.

Additional people involved in the proposal, if any

Julia Daniell, University of Montana. "Proceeding with Sound Judgment: Applied Sensory Biology and Wilderness Character." This study builds on previous research to examine how large mammals in Bridger-Teton National Forest may habituate to recreational sounds, offering insights for land management decisions to protect ecosystem integrity and visitor experiences.

Dr. Peter Newman, Pennsylvania State University, University of Vermont. "Sensory Pollutants in U.S. Parks and Protected Areas: A synthesis of visitor use management in relation to natural sounds and night skies." This presentation will be a review of research conducted in U.S. parks and protected areas over the last two decades with a focus on work conducted in collaboration with the National Park Service- Natural Sounds and Night Skies Division.

Morgan Crump, Pennsylvania State University, University of Vermont. "Exploring visitor support for management of artificial light and behavioral spillover in Acadia National Park and related ecological impacts." This project examines visitor perceptions, expectations, and support for natural night skies in Acadia National Park.

Dr. Derrick Taff, Pennsylvania State University. "Exploring NPS staff perceptions of artificial light in Great Smoky Mountains National Park- Functionality, Safety, and Conservation." This project focused on understanding National Park Service staff perceptions of artificial light at night in maintenance yards of Great Smoky Mountains National Park. (Presented by Morgan Crump)

Kelsey Cronin, University of Montana. "Managing Human Disturbance: Mandatory Closures and Loon Nest Success in the GYE. This presentation outlines preliminary investigation into recreational closures and loon nest success in the GYE.

Katherine Zeller, USFS

Present a Paper

Curt

Davidson

Utah State University

Curt.Davidson@usu.edu

Urban Trails, Wild Spaces: A Model for Sustainable Recreation in Redmond, Oregon

This paper presents findings from a mixed-methods study of the Dry Canyon Park and Trail System in Redmond, Oregon—a unique linear greenway integrating natural and urban environments. As Redmond experiences rapid growth, this trail system is critical in supporting active transportation, ecological preservation, and community well-being. Through 338 user surveys and interviews, the study identifies user preferences, safety concerns, and infrastructure needs. Results directly informed Redmond’s 2024 Parks Master Plan, demonstrating how participatory research can shape inclusive, sustainable conservation strategies for urban green spaces.

Additional people involved in the proposal, if any

Alan Ewert Ph.D. Professor Emeritus, Indiana University

Maria Ramirez. Special Projects and Natural Resource Program Manager. City of Redmond, OR

Organize an Information-Sharing Session: Invited Papers

Shawn

Davis

Slippery Rock University

shawn.davis@sru.edu

National Park and Wildlife Refuge Visitor Perceptions of Climate Change

National Park and Wildlife Refuge Visitor Perceptions of Climate Change will be an information sharing session based off of four related invited paper presentations. Based on the theme of responding to climate change, each of the four papers will cover a different aspect of a comprehensive survey effort of 20 different national parks and 12 different national wildlife refuges during the spring and summer of 2025. The survey investigated visitor's perceptions of climate change for use in designing interpretive/educational programs within these protected areas. Messaging and educational strategies, along with potential changes in visitation due to climate change, will be shared at both agency and regional levels.

Additional people involved in the proposal, if any

Co-organizer: Jessica Thompson, Professor, Northern Michigan University

Paper 1: The Six Americas of National Parks and Wildlife Refuges / Shawn Davis, Associate Professor, Slippery Rock University

Paper 2: Climate Change Impacts, Adaptation, and Visitor Behavior / Rosie Mousseau, Graduate Student, Northern Michigan University

Paper 3: Climate Change Messaging Strategies for Parks and Refuges / Mackenzie Geary, Northern Michigan University

Paper 4: Visitors' Perceptions of Climate Change in National Parks & Wildlife Refuges / Sam Kearney & Carson Piette, Northern Michigan University

Present a Poster

Katie

Deuel

Center for Large Landscapes Conservation

kdeuel@largelandscapes.org

A Road Runs Through It: Assessing Road Mitigation Options for Wildlife in Kafue National Park and Greater Kafue Ecosystem, Zambia

The M9 highway through Zambia's Kafue National Park is an important and busy roadway for motorists but for many animals, it's also a dangerous barrier. The Center for Large Landscape Conservation partnered with the Zambian Carnivore Programme on a road assessment to understand exactly where and how this road is putting wildlife at risk from collisions and habitat fragmentation. Our poster details the study and the results.

Additional people involved in the proposal, if any

Present a Paper

Mark

Douglas

Davis & Elkins College

douglasm@dewv.edu

Hyper Reality in Wall-E and Modern Life: Outdoor Recreation Management Implications

This paper examines the dynamics depicted in the animated film Wall-E (Stanton, 2008) and their parallels in contemporary society, focusing on implications for outdoor recreation management. By employing existential methodology and cultural touchstones, the study cross-references these dynamics with Albert Borgmann's theories of hyper reality and the device paradigm. Additionally, the paper covers connections between escapism, efforts to colonize space, the role of AI in overriding authority, and the impact of consumerism on meaningful connections. The findings highlight the potential of outdoor recreation to counteract these negative dynamics and suggest strategies for leveraging cultural touchstones in messaging and outreach to promote outdoor activities.

Additional people involved in the proposal, if any

The lead author for this paper is myself, Mark L. Douglas. The second author is Winifred Mayes, Undergraduate student at Davis & Elkins College.

Present a Paper

Jazzelle

Elias

University of Montana

jazzelle.elias@umontana.edu

Prescribed Fire Decision-Making: Implications for Parks and Protected Areas

Wildfire research in parks and protected areas has focused on negative impacts to people, recreation, and local economies. Emerging work calls for a shift from wildfire magnitude (size/intensity) to perceptions of mitigation strategies like prescribed fire. Prescribed fire is a key tool to reduce wildfire encroachment and protect lives and valued places. To understand how to increase prescribed fire use in and around protected areas, more research is needed on how decisions are made about when and where to burn. In-depth interviews with fire managers in western Montana explored what constrains and supports decision-making. Over 20 interviews were transcribed, coded, and analyzed. Findings show a desire and need for cross-boundary decision-making among organizations and agencies to increase the use and effectiveness of prescribed fire.

Additional people involved in the proposal, if any

Present a Paper

Mary

Engels

University of Idaho

engels@uidaho.edu

The cleanup crew: valuing camp host litter interventions in Northern Idaho recreation areas

Litter cleanup poses a financial burden for recreation management organizations. The increased demand for outdoor recreation opportunities, especially since the COVID-19 pandemic, exacerbates litter management problems. Here we present a study that characterized litter from four State Parks and one National Forest in Northern Idaho during the summer of 2021. Litter data collected with the help of volunteer camp hosts indicates that, at a minimum, >50% of all litter generated in the campgrounds is controlled by camp hosts. We estimate that across 12 of the campgrounds in our study, camp hosts saved management more than \$50,000 in litter collection costs. Since this litter is dominantly composed of plastic (>75%), controlling this litter not only improves camper experience but reduces environmental impact from this long-lived pollutant.

Additional people involved in the proposal, if any

Present a Paper

Hilary

Faxon

University of Montana

hilary.faxon@umontana.edu

Global Biodiversity Data for Place-Based Conservation

With over 2 billion species observations, the Global Biodiversity Information Facility (GBIF) increasingly influences understanding of the natural world and guides conservation planning. But the data in this repository reveal more than biodiversity distributions: they reflect the legacies of colonial collecting, the infrastructures of international development, and contemporary cultures of political freedom. This paper draws on ongoing mixed methods research, including quantitative and spatial analysis of GBIF data and interviews with staff and data publishers around the world, to highlight key findings with relevance to parks stewardship. These include the drivers and consequences of private companies as contributors of open-source biodiversity data and the challenges and opportunities of GBIF data for subnational conservation planning.

Additional people involved in the proposal, if any

Ande Peersen, Masters's student, University of Montana
Kyle Barbian, Undergraduate student, University of Montana
Melissa Chapman, Assistant Professor of Environmental Policy, ETH Zurich

Present a Poster

Paige

Fery

University of Utah

paige.fery@utah.edu

Connections to Nature and Knowledge: An Ecofeminist Analysis of Fly-Fishing Guiding

Nature is political. The ways in which we have conceptualized nature and outdoor recreation are rooted in systems of power such as capitalism, colonialism, and patriarchy. To explore how power structures shape outdoor recreation experiences, a feminist embodied approach to narrative inquiry was utilized to explore the subjective experiences of fly-fishing guides (n=6) and their connections with nature and knowledge. Data were analyzed through a two-phased approach including the application of thematic analysis and an a priori coding scheme developed from ecofeminism. Initial findings reveal that knowledge sharing is a critical component for how guides gain knowledge and connect with others and nature. This research provides insights into the ways in which societal power structures are mirrored in nature-society relations.

Additional people involved in the proposal, if any

Jeff Rose, University of Utah

Organize a Core Workshop Session: Presentations + Audience Interaction

Nicholas

Fisichelli

Schoodic Institute

NFisichelli@SchoodicInstitute.org

Adapting to rapid change – on the ground and in the water

Stewarding park resources in the midst of rapid change is a critical conservation challenge today. There has been a proliferation of decision support tools, frameworks, and associated best practices for responding to rapid change. Yet, empirical evidence for on-the-ground and in-the-water adaptation solutions is sorely lacking, and the pace of change in parks is outpacing the ability of managers and scientists to respond. Come hear from leading scientists and practitioners who are testing the solutions and advancing the leading edge of adaptation. Share your experiences, perspectives, and questions in this interactive session and build your network.

Additional people involved in the proposal, if any

Presenters/Panelists:

Chris Nadeau, PhD
Senior Scientist
Schoodic Institute

Mark J. Biel
Natural Resources Program Manager
National Park Service, Glacier National Park

Organize an Information-Sharing Session: Sharing Circle

Brian

Forist

Indiana University

bforist@iu.edu

LGBTQIA2S+ Stories and Experiences in Place: Creating a Virtual Community for Learning & Support

We are living through extraordinary and trying times in the U. S. and beyond. A variety of conditions pose significant challenges to LGBTQIA2S+ folks involved in place-based conservation and adjacent fields. By federal executive orders, discriminatory laws, internal policies, and actions taken by states, municipalities, non-governmental organizations, and businesses there has been a calculated and deliberate marginalization and disappearing of LGBTQIA2S+ voices and experience. To counter this, a virtual community for Queer folks in the field is proposed. Participants in this sharing circle will be asked to articulate their needs in the intersecting arenas of learning and support. Initial plans for this virtual community will be shared and thoughts on its future format, content, and individual roles in its design will be discussed by all.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Sharing Circle

Miranda

Foster

University of Montana

miranda.foster@umconnect.umt.edu

Focus Group for Updates to Digital Wilderness Management Educational Resources

This sharing session will present Wilderness Connect, an interagency website and an authority for wilderness-related information. The site hosts a variety of toolboxes aimed at supporting practitioners and serves as a virtual repository for information sharing, skills, and practices related to various dimensions of wilderness management such as fire management, cultural resources, soundscapes, and partnerships. Through active audience feedback and guided discussion, this session seeks to identify any needs, limitations, and opportunities to improve the format, content, and breadth of the Wilderness Connect toolboxes. The insight gained will inform further applied research aimed to improve the existing toolboxes to best serve interagency wilderness managers and stewards amidst the evolving dynamics of federal land administration.

Additional people involved in the proposal, if any

Session Co-Organizers: Jaclyn Rushing, Heidi Blair, Andrew Larson, Miranda Foster

Participate in the 3MR (Three-Minute Research Competition)

Miranda

Foster

University of Montana

miranda.foster@umconnect.umt.edu

Visual Semiotics in Parks: Assessing Pictorial Symbol Effectiveness in Outdoor Recreation Settings

Interest in outdoor recreation continues to grow, bringing new and diverse recreationists to parks and protected areas. With this comes a challenge: how do we ensure the accessibility and safety of these spaces for everyone through clear, effective communication? One path for achieving this is through design. Symbol signs are meant to communicate across language barriers, but their effectiveness in outdoor recreation settings is understudied. Using mixed methodology, this research evaluated the comprehensibility and strength of design characteristics for symbol signs used in campground settings. Results informed an iterative redesign process to improve the effectiveness of symbols with evidenced low comprehension. This project aims to assist land managers in operationalizing access through evidence-based visual communication tools.

Additional people involved in the proposal, if any

Present a Paper

Jaclyn

Fox Rushing

University of Montana

jaclyn.rushing@umontana.edu

"It's a different culture here": Fostering inclusive recreation through affinity safe spaces

This study explores what makes outdoor recreation feel exclusive for underserved communities, and how affinity groups—grassroots organizations created to support outdoor recreation for underserved communities—foster a more inclusive way to engage in outdoor recreation. Data were collected through semi-structured interviews with affinity group participants across the Northwestern U.S. Results indicate that participants perceive the dominant recreation culture as raced, gendered and exclusive. Through some separation from the dominant recreation culture, affinity groups act as safe spaces that support diverse and authentic ways of engaging in community-based recreation. Findings from this research have important implications for recreation providers who seek to foster inclusive spaces in the facilities and lands they manage.

Additional people involved in the proposal, if any

Participate in the 3MR (Three-Minute Research Competition)

Abigail

Fuesler

University of Montana

abigail.fuesler@umontana.edu

Electrifying Perspectives: Cyclist Perspectives Concerning E-Bikes on Multi-Use Singletrack

Electric mountain bikes are increasingly popular among cyclists, yet, given federal and state policy restrictions on these bikes, they are rarely permitted on singletrack trails. Recognizing this opportunity, a multi-use trail network in Missoula, MT conducted a visitor use survey to gauge e-bike sentiment and determine whether to pilot e-bike access. This presentation will contain preliminary results, recommendations to policymakers and land managers, and suggested directions for future research.

Additional people involved in the proposal, if any

Present a Paper

Seth

Gibbons

NC Museums

smgibbons@northcarolinamuseum.org

Building a Community of Conservation: Inviting the Public to Participate in Wildlife Research

Wildlife research may have the potential to build public engagement in wildlife science. In the Spring of 2019, a research project was conducted by a Clemson University graduate student which involved the capturing barred owls and attaching GPS transmitters in order to investigate what features facilitate their presence in developed areas. The project had a public involvement component which consisted of capturing the owls on private property and inviting landowners and other members of the community to observe and interact with the owls. In 2023 semi-structured interviews were performed with participants in the project to understand how their participation affected their feelings of connection to the owls four years later. Results indicated a continued research community operating and deep connections to the owls life.

Additional people involved in the proposal, if any

Elizabeth D. Baldwin, co-author, co-presenter

Kyle Barrett, co-author

Aby Sene-Harper, co-author

Corliss Outley, co-author

Present a Paper

Devin

Goodson

Program in Ecology, Evolution, and Conservation Biology, University of Illinois at Urbana-Champaign

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Friend or Foe? Understanding the Spatial Distribution of Benefits and Burdens Provided by Urban Birds

Managing public urban greenspaces to foster coexistence between people and birds is challenging, requiring decision-makers to understand nature's diverse benefits and burdens. Therefore, we aimed to (1) explore the perceived qualities and impacts of urban birds, (2) evaluate the importance of bird-derived benefits and burdens for residents, and (3) identify spatially explicit places for human-bird interactions. Using focus groups and a household survey, we engaged diverse residents across twin cities in the Midwestern USA. Spatial data generated from residents were modeled with landcover, distance to public lands, and bird diversity. From our social-ecological analysis, we identified high and low-priority greenspaces to promote positive coexistence. Our findings aim to guide local management decisions based on social-ecological dynamics.

Additional people involved in the proposal, if any

Carena J. van Riper 1, 2
Henry Pollock 3
Mark E. Hauber 1,4

1 Program in Ecology, Evolution, and Conservation Biology, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA

2 Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA

3 Southern Plains Land Trust, Lamar, Colorado, USA

4 Advanced Science Research Center and Programs in Biology and in Psychology, Graduate Center of the City University of New York, New York, NY 10031, USA

Present a Poster

Tabitha

Graves

U.S. Geological Survey

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Assessing pollinator communities in national parks

Biologists struggle to achieve multiple research goals given limited time and budgets. We evaluated field and analytical tools to improve efficiency of surveys for insect community diversity and species of concern, which would allow managers to meet multiple goals with less field effort. Our team has assessed techniques including using photographs, visual-only surveys, eDNA from flowers, and a range of statistical designs to obtain robust assessments using minimally invasive approaches. Such approaches can be used to provide basic status information, inform ecological questions useful for conservation, and evaluate effects of management actions. These options provide managers with tools suited for engaging community scientists, require limited training, and simultaneously meet multiple goals efficiently.

Additional people involved in the proposal, if any

Eliza Stein, Contractor to the U.S. Geological Survey
Gavin Cotterill, U.S. Geological Survey
Will Janousek, U.S. Geological Survey
Annie Colgan, University of Washington
Erica Gustilo, University of Washington
Michaela Grossklaus, U.S. Geological Survey
Marissa Kaminski, U.S. Geological Survey
Yer Lor, U.S. Geological Survey
Stephen Spear, U.S. Geological Survey
Clint Otto, U.S. Geological Survey
Ralph Grundel, U.S. Geological Survey
Amy Dolan, Xerces Society
Rich Hatfield, Xerces Society
Tara Carolin, Glacier National Park
David Pilliod, U.S. Geological Survey

Present a Paper

Amber

Hawes

University of Idaho

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Do Themes Improve Visitor Outcomes In Interpretive Programs?

Thematic interpretation is widely promoted as being integral to an effective interpretive program. Some studies have suggested it may enhance visitor outcomes; however, park visitor demographics and expectations have changed over the past decade. In this study, we systematically observed live interpretive programs at 331 National Parks across the US, monitored the extent and qualities of theme usage, and collected visitor surveys. The results suggest that programs with a clearly-communicated and well-developed theme enhance satisfaction, appreciation, personal and societal relevance, stewardship intentions, respect for others, and interpersonal relationships. These results have implications for training and how interpreters develop and deliver interpretive programs to maximize visitor outcomes in natural and cultural interpretive spaces.

Additional people involved in the proposal, if any

Robert B. Powell, Ph.D. (Clemson University) - author, but not attending
Marc Stern, Ph.D. (Virginia Tech) - author, but not attending
Kelley Anderson, Ph.D. (Virginia Tech) - author, but not attending

Present a Poster

Tom

Heinlein

Bureau of Land Management

Multiple Use and Sustained Yield and the BLM's National Landscape Conservation System

The Bureau of Land Management's multiple use and sustained yield mission, as defined in the Federal Land Policy and Management Act, was an important consideration when the National Landscape Conservation System was established. These BLM conservation areas that are designated by Congress or the President, allow for a wide range of uses—including recreation, grazing, scientific research, active habitat restoration, and other activities associated with working lands—to continue so long as they are consistent with the specific uses found in the legislation or proclamation establishing the unit. For ranchers, recreationists, and others, the NLCS offers a reimagined approach to collaborative conservation. This poster will highlight examples of how the Bureau melds conservation designations with its multiple use and sustained yield mission.

Additional people involved in the proposal, if any

- Fritz Klasner
- Suzanne Copping
- James Sippel
- Britta Nelson
- Matt Magaletti
- Peter Keller

Present a Paper

Paul

Heintzman

University of Ottawa

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An Updated Model of Park Experience and Spiritual Outcomes

In recent years there has been increasing research on the spiritual outcomes of park experience. This presentation updates a decade-old model that summarizes and synthesizes extant empirical research on these outcomes. Antecedent conditions (personal history, current circumstances, attitude, motivation, socio-demographic characteristics, spiritual tradition), setting components (being in nature, being away to a different environment, place processes such as place attachment and place meanings) and recreation components (activity, free time, solitude, group experiences, facilitation) together lead to outcomes of spiritual experiences, spiritual well-being, and leisure spiritual coping. This up-to-date model describes the complexity of the park experience and spirituality relationship. Implications for park management are discussed.

Additional people involved in the proposal, if any

Present a Paper

Greta

Helfenstein

Historical Projects LLC

gretahelfenstein123@gmail.com

Planting the Seeds: The Roots of Modern Forest Conservation in Colonial America

The beginnings of forest conservation law in the United States are usually associated with the 19th and 20th centuries, around the founding of our first National Parks. However, there is evidence that a wilderness conservation ethic existed much earlier. Contrary to the perceptions of Colonial America as a time when people viewed resources as limitless, many colonies were concerned about protecting the resources they encountered. Plymouth Colony (1626) and Pennsylvania (1681) both wrote laws to protect their forests, preventing excessive cutting and unauthorized burning. These colonial policies set the precedent for modern forest conservation by balancing resource use and preservation.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Affinity Group Meeting

Cait

Henry

Michigan State University

Henryca8@msu.edu

LGBTQIA+: Fostering Community by Sharing Faced Challenges and Successes –Working Group soft launch

The LGBTQIA+ Experiences and Expertise in the Outdoors and in Conservation special issue of the Park Stewardship Forum inspired the creation of both this affinity meeting and a LGBTQIA+ working group within the George Meléndez Wright Society, which will be softly launched at this affinity meeting. There is a growing need for safe spaces for queer folks who are passionate about public lands conservation that is not directly tied to federal institutions. Although the LGBT Outdoor Summit has witnessed five successful events, multiple participants have expressed interest in continued community connections that also offer a wider scope of networking. This is especially critical in a time under the current U.S. administration. The vision for this Affinity Meeting is that it would become a longstanding component within future GWS ParkForums.

Additional people involved in the proposal, if any

Dr. Brian Forist of Indiana University is the co-lead of the GWS LGBTQIA2S+ working group

Present a Paper

Cait

Henry

Michigan State University

Henryca8@msu.edu

Repetitive Compulsions of Trauma: Perpetuating White Masculinity at U.S. Civil War Battlefields

This work aims to critically analyze the confluence between the cultural authority of the NPS and collective memories of the U.S. Civil War through Manassas National Battlefield Park (MANA) interpretation. Operationalizing trauma as repeated violent acts within public spaces, we posit that the normalization of violence partially stems from the glorification of heroic white masculinity at Civil War battlefield sites—especially those which celebrate the Confederacy. International battlefields are utilized as examples for expanding interpretation at MANA to foster narratives of empathy and responsibility within an increasingly contentious political landscape. Visitors do not leave MANA with answers about the social and moral implications of the U.S. Civil War, but the tools for championing their own (predominantly white) heroic masculinity.

Additional people involved in the proposal, if any

Sarah Jackson at Kansas State University is the co-author of this paper presentation.

Present a Poster

Cait

Henry

Michigan State University

Henryca8@msu.edu

Loved to Death: Evaluating degraded areas along the Manistee River Trail

The purpose of this poster is to share findings of the onsite recreation ecology impacts to the Manistee River Trail within the Huron-Manistee National Forest Trail System. Findings include myriad areas of high degradation like informal campsites and trails, eroded trail sections, and other general problem areas. This project is in its final stages of technical report writing and will provide an outside audience with site-specific insights that can be applied to other highly degraded trail sections.

Additional people involved in the proposal, if any

Drs. Dan McCole and Elizabeth Perry, Michigan State University

Madison Jones, University of Tennessee (M.S.)

Present a Paper

Cait M.

Henry

Michigan State University

henryca8@msu.edu

Companion displacement as a novel social dimension of recreation adaptation coping mechanisms

Encountering undesirable site conditions may impede a recreationist's ability to attain desired outcomes, leading to coping behaviors including displacement. Displacement has been studied in relation to influential site social conditions yet in notably asocial terms: spatial, temporal, activity, and total displacement. We present evidence across multiple, diverse protected areas studies for a fifth type of displacement speaking to social adaptations: companion displacement or changing group composition in response to site conditions. There is opportunity to examine how group composition may change or otherwise influence displacement types and correspondingly influence decisions about providing site information, understanding displacement characteristics (who, where, when, what, and with whom), and considering shifts in recreation demand.

Additional people involved in the proposal, if any

Elizabeth Perry, Michigan State University

Organize a Core Workshop Session: Presentations + Audience Interaction

Fred

Herling

George Wright Society

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Strengthening the partnership between GWS and students/young professionals in 2025 and beyond

The George Wright Society is re-evaluating its programs aimed at students and people at the beginning of their careers. This listening and discussion session will play an important role in the meaningful refocusing of how the GWS can best support students and young professionals. Developing and taking action on strategies is especially important in light of the many unprecedented, harmful actions of the current US federal administration. GWS and session participants can play a leadership role in this conversation and in developing solutions with a wide range of partners.

Additional people involved in the proposal, if any

Session Leaders:

Fred Herling, GWS

Caitlin Henry, GWS Board Member and Michigan State University

Evelyn Peat, MS Student, Kansas State University

Present a Poster

Elizabeth

Himschoot

Penn State

eah5993@psu.edu

Conservation Behind the Scenes: Stress, Interpersonal Relationships, and Job Satisfaction in the NPS

National Park Rangers have a variety of different roles and responsibilities. Research into the working conditions and stress experienced by rangers has increased significantly over the last five years. Internationally rangers face precarious working conditions, including “income inadequacy” and “lack of rights and protection.” Calls have been made to help better understand mental health, well-being, and working conditions for rangers. This survey examines how workplace culture, defined by interpersonal relationships with supervisors and co-workers, influences stress levels, access to mental health resources, and job satisfaction across different roles in the National Park Service. The results of this study can be used to evaluate the health and well-being of individuals responsible for preserving natural and cultural resources.

Additional people involved in the proposal, if any

Participate in the 3MR (Three-Minute Research Competition)

Elizabeth

Himschoot

Penn State

eah5993@psu.edu

Caring for Those Who Care for Parks: Exploring Mental Health Resource availability across the NPS

There are not enough park rangers to meet global conservation goals and most existing rangers are underappreciated and under-equipped. In the United States we have seen increasing rates of crime and suicide in National Parks, among rangers, as they are continually asked to “do more with less”. This study looks at access and awareness of mental health resources across park ranger roles in comparison with stigma. Surveys of current and retired rangers allow for an exploration of trends and will be connected to the implementation of national and park specific program development. Improving the mental health of National Park rangers comes from looking beyond what is provided to examine the level of awareness and perceived accessibility of these resources and how that varies across roles and experience.

Additional people involved in the proposal, if any

Present a Paper

Vivian

Hulugh

South Dakota State University

vivian.hulugh@jacks.sdstate.edu

Assessment of Conservation Planning in South Dakota: Challenges and Opportunities

Natural resource managers are expected to make sound management decisions and balance competing social-ecological interests. However, they face challenges related to effective collaboration, representation in public participation, and the application of climate information. We used an inductive, qualitative research approach, including 35 expert interviews and content analysis of 53 conservation plans. Our study identified the absence of complementary goals between federal, state, and nonprofit organizations; inadequate public engagement methods often resulting in low engagement; and limited understanding and application of climate data. Conservation outcomes can be more sustainable when collaborative efforts are complementary, public perspectives are incorporated, and clear guidance exists for using climate data.

Additional people involved in the proposal, if any

1. Jennifer Zavaleta-Cheek

Assistant Professor, South Dakota State University

2. Lauren Redmore

Research Social Scientist, Aldo Leopold Wilderness Research Institute

Present a Paper

William

Janousek

U.S. Geological Survey

wjanousek@usgs.gov

Climate-driven factors and mountain goat declines in Glacier National Park

Mountain goats are an iconic species of Glacier National Park's rich wildlife community and a cherished memory of the millions of visitors to the park each year. However, a shifting climate threatens alpine-adapted species like mountain goats. We used a 12-year citizen science dataset to estimate population trend of mountain goats in Glacier National Park. Median goats per site declined by 45% (95% CRI = 32%, 57%) from 77.8 (95% CRI = 64.4, 95.1) in 2008 to 42.3 (95% CRI = 34.3, 52.2) in 2019, exceeding IUCN criteria for classifying a population as vulnerable (>30% declines over only 2 generations). We will discuss the mechanisms of declines and ongoing research to estimate population size and genetic structure - crucial knowledge for conserving this species at the southern edge of its native range in North America.

Additional people involved in the proposal, if any

Co-authors

Tabitha A. Graves - U.S. Geological Survey, Northern Rocky Mountain Science Center, Glacier Field Station, West Glacier, Montana, 59936.

Michael J. Yarnall, Montana Fish, Wildlife, and Parks, Livingston, MT, 59047

Jami Belt - National Park Service, Glacier National Park, West Glacier, Montana 59936.

Present a Poster

Natalia

Jaramillo

UNiversity of Idaho

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Harnessing Remote Sensing Technologies to Monitor Tourism Impacts in the Antarctic Peninsula

The rapid expansion of tourism in the Antarctic Peninsula raises environmental concerns, yet current monitoring strategies remain insufficient. This research explores the application of remote sensing technologies to evaluate tourism-related changes in the Antarctic landscape. Using drones equipped with hyperspectral and multispectral sensors, it aims to develop a methodology for detecting changes in vegetation health, distribution, and composition in key tourism "hotspots." Remote sensing offers a non-invasive, scalable approach to studying sparse Antarctic vegetation and broader landscape dynamics. By analyzing vegetation indices like NDVI, this study will assess the feasibility of using high-resolution spectral data to track environmental changes linked to seasonal human activity, informing long-term conservation strategies.

Additional people involved in the proposal, if any

Paul Gessler, PhD, Professor of Remote Sensing, GeoEcology, and Environmental Science
College of Natural Resources, University of Idaho.

Chris Zajchowski, PhD, Assistant Professor; Parks, Tourism, and Recreation Ecology
College of Natural Resources, University of Idaho.

Present a Paper

Jeffrey

Jenkins

University of California, Merced

jjenkins8@ucmerced.edu

Assessing the efficacy of reservation systems and effects of climate extremes on recreational access

Reservations systems can have varying effects on day and overnight patterns as visitors become displaced and adjust their trip planning. Climate change extremes and associated hazards limit and enable access in different ways. Managerial and climatic systems exhibit different influences on visitor access, however few studies have attempted to compare the effects among a population of visitors. In 2023, the combination of no day-use reservation system in place at Yosemite with record wet conditions and road closures preventing access to higher elevations, led to higher use, but spatially constrained mobility, resulting in more crowded conditions and traffic congestion. We compare 2023 with other years to assess the influence of managed access status and climate conditions on park visitation, overnight use types, and vehicle counts.

Additional people involved in the proposal, if any

Managed access/reservation systems as additional theme

Organize an Information-Sharing Session: Invited Papers

Hayley

Johnson

University of Montana

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Taking Stock During a Watershed Moment in Recreation Allocation

This session will include four complementary paper presentations focused on recreation allocation. The first assesses the influence of managed access and climate conditions on overall Yosemite NP visitation, overnight use types, and vehicle counts in 2023. The second assesses the effects of allocation mechanisms and use types on racial and income diversity using 2022 RIDB reservation records and U.S. census data. The third focuses on a 2024 study that examined access to front-country camping in rural western US and compares enabling pathways of camping access across campsite allocation methods. The final focuses on a study to be undertaken in 2025 in two urban-proximate national forests to understand visitor allocation system preferences towards fees, permit distributions, and communication strategies.

Additional people involved in the proposal, if any

Session co-organizers: Hayley A. Johnson, William L. Rice, Abigail Fuesler

1. Assessing the efficacy of reservation systems and effects of climate extremes on recreational access presented by Jeffrey Jenkins, University of California, Merced; Adrienne Marshall, CO School of Mines; Sheri Shiflett & Rachel Mattos, National Park Service; Isaac Sanchez, University of California, Merced; Nicole Athearn, National Park Service
2. Diversity in the rationing outcomes of U.S. recreation resources: A decision tree analysis presented by Yaqi Gong, Pennsylvania State University; Haiyan Wang, Hainan Normal University; Bing Pan, Pennsylvania State University; William L. Rice, University of Montana
3. Investigating recreation rationing and camping access through the lens of access theory: A case study in the rural American West presented by Hayley A. Johnson, William L. Rice, Hilary O. Faxon, & Ethan S. Walker, University of Montana
4. Visitor preferences regarding allocation of day-use wilderness permits in two national forests presented by Abigail Fuesler, William L. Rice, & Kelsey E. Phillips, University of Montana; Christopher A. Armatas, Aldo Leopold Wilderness Research Institute

Participate in the 3MR (Three-Minute Research Competition)

Hayley

Johnson

University of Montana

hayley.johnson@umconnect.umt.edu

Pathways to Camping Access in the Rural American West: An Application of Access Theory

On public lands, everyone has equal rights to participate and enjoy the benefits of recreational activities like camping. Access to camping in North America, however, has historically been preferential to those who are White and relatively wealthy. Through a unique approach, this study applied access theory rather than traditional leisure constraints theory to further examine who has access to camping and how campers gain access to camping in rural the American West. Results identified technology, social relations, social identity, capital, knowledge, and rights-based access as six important pathways to accessing camping. In light of social and environmental justice, this study is key for public land managers striving serve the greatest good by facilitating inclusive and equitable access to camping among the American public.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Sharing Circle

Shawn

Johnson

UM Center for Natural Resources and Environmental Policy

shawn.johnson@mso.umt.edu

Connecting People and Place

Public engagement is vital for conservation, climate resilience, and the success of parks and protected areas. Yet, implementing meaningful initiatives can feel daunting. How do you build trust, foster long-term relationships, and overcome participation barriers? How do you welcome conflict and ensure community input shapes complex decisions? This sharing circle is for those actively engaging the public or seeking to connect with others who are. Through participatory discussion, we'll explore experiences, challenges, and best practices for impactful, inclusive engagement. Attendees are encouraged to bring their own experiences, questions, and ideas.

Additional people involved in the proposal, if any

- * Travis Anklam - co-organizer - UM Center for Natural Resources and Environmental Policy
- * Richard Forbes - co-organizer - UM Center for Natural Resources and Environmental Policy
- * Alexis Gibson - co-organizer - UM Center for Natural Resources and Environmental Policy
- * Nick Maya - co-organizer - UM Center for Natural Resources and Environmental Policy
- * Heather Stokes - co-organizer - UM Center for Natural Resources and Environmental Policy

Organize a Core Workshop Session: Presentations + Audience Interaction

Shawn

Johnson

UM Center for Natural Resources and Environmental Policy

shawn.johnson@mso.umt.edu

Engagement Best Practices for Place-Based Conservation, Adaptation, and Inclusion

Effective engagement is key to conservation success, especially in addressing climate change, stewarding heritage, fostering economic development, and integrating diverse perspectives into management decisions. This interactive workshop will equip participants with best practices for weaving cultural, economic, and ecological viewpoints into engagement strategies that enhance resilience, equity, and connection to place. Case studies at local, regional, and national scales will showcase approaches for fostering inclusive, informed dialogue. Participants will then explore strategies for engaging diverse stakeholders in co-developing conservation solutions and leave with practical tools to overcome barriers and build more inclusive initiatives.

Additional people involved in the proposal, if any

- * Travis Anklam, Collaborative Learning Program Director, UM Center for Natural Resources and Environmental Policy - co-organizer/co-presenter
- * Heather Stokes, Director of Practice, UM Center for Natural Resources and Environmental Policy, co-organizer/co-presenter
- * Jennifer Thomsen, Program Director, UM Parks, Tourism, and Recreation Management - co-presenter
- * Alexis Gibson, Sr. Project Manager, UM Center for Natural Resources and Environmental Policy - co-organizer

Present a Paper

Glenys

Jones

n/a

glenys.jones@outlook.com

Demonstrated success stories in protected area and conservation management from Tasmania (Australia)

This paper showcases selected case studies of effective protected area and conservation management from Tasmania (Australia). The case studies are [to be] featured in an open-access online training resource [currently being produced and expected to be completed by May 2025] that will serve as model and inspiration to protected area managers, practitioners, stewards, educators, students and everyone with an interest and/or responsibility in effective protected areas management.

Additional people involved in the proposal, if any

Title: "Case studies in effective parks management from Tasmania Australia"

This proposal is for a paper/presentation describing a collaborative project undertaken under the banner of the Protected Areas Collaboration. Partners in the project are the Tasmanian Land Conservancy, University of Tasmania, Parks and Wildlife Service Tasmania, and Conservation Management.

I represent PWS on the project team; however I would be attending and presenting at the Parks Forum in my personal capacity.

Present a Paper

Kate

Jones

North Carolina State University

kejones8@ncsu.edu

Geospatial tools for collaborative climate adaptation planning at NPS mid-Atlantic battlefield parks

We are developing a cultural landscape climate change vulnerability assessment (CCVA) with a team composed of NPS Climate Response Program staff, resource managers from NPS park units, the Olmsted Center for Landscape Preservation, and a multidisciplinary team from North Carolina State University. Together we are 1) compiling geospatial databases that address data gaps and inform cultural landscape conditions, and 2) developing a geospatial interface that allows the CCVA to be assessed under multiple climate change scenarios and guide place-based adaptation strategies. The geospatial tools and the CCVA framework are designed to be scalable to parks across the region. Our paper presentation connects with the "Responding to Climate Change" and "Integrating Natural and Cultural Heritage Conservation" themes.

Additional people involved in the proposal, if any

Kate Jones, Jelena Vukomanovic, Rachel Layko, Kofi Boone, John Millhauser, Erin Seekamp, Garrett Silliman, Kate Dean-McKinney

Present a Paper

Seth

Kannarr

University of Tennessee

stjkannarr@gmail.com

What's In a Name? Reimagining the Geography of Naming Designations in the U.S. N.P.S. System

The U.S. National Park Service (NPS) manages 433 units across 19 naming designations, including the well-known and highly visited 'National Parks'. The criteria for these naming designations are vague at best, and many NPS units have naming designations that do not align with their characteristics. This disconnect provides many visitors with unfulfilled expectations that diminish their experiences. As part of my dissertation work, I intend to address this issue by collaborating with key stakeholders to create a new set of descriptive, objective-oriented criteria to better classify these NPS sites. This work will carry out a systematic reclassification of all 433 NPS units with the new criteria, explore the geographic context of each potentially redesignated site, and provide a critical opportunity for policy intervention.

Additional people involved in the proposal, if any

Participate in the 3MR (Three-Minute Research Competition)

Seth

Kannarr

University of Tennessee

stjkannarr@gmail.com

What's In a Name? Reimagining the Geography of Naming Designations in the U.S. N.P.S. System

The U.S. National Park Service (NPS) manages 433 units across 19 various naming designations. The criteria provided by the NPS for these naming designations are vague at best, and many NPS units across the system have naming designations that do not align with their characteristics. In my dissertation research, I have begun to unpack the complex history that has led to the current state of NPS system and the importance of naming designations to place naming scholarship. To critically address this systemic issue, I am collaborating with experts/stakeholders to create a new set of descriptive, objective-oriented criteria that integrates geographic parameters, uses legacy NPS terminology, and is aligned with international standards to better classify these NPS sites.

Additional people involved in the proposal, if any

Participate in the 3MR (Three-Minute Research Competition)

Emma

Keinath-Lopez

University of Montana

emma.keinath-lopez@umconnect.umt.edu

Motivations behind social trail usage at Delta Lake in Grand Teton National Park

With increased visitation to National Parks combined with digital exposure, social trail usage has increased, leading to the “destination social trail.” Social trails have been found to have environmental and safety concerns, while also highlighting a unique way in which visitors interact with parks. This study aims to understand the “why” behind social trail usage to help park management understand visitor needs, ensure safety, preserve and protect park resources, and adapt their management strategies. Through a qualitative approach of digital media discourse analysis, interviews with social trail users and informed park staff, and supplemental participant observation - data will be collected and analyzed to help park management gain insight into understanding their visitors, which offers significant advances for sustainable tourism.

Additional people involved in the proposal, if any

N/A

Present a Paper

Sam

Kellogg

University of Montana

sam.kellogg@umontana.edu

Fear of a Digital Planet: Wireless Politics in U.S. National Parks

Recent years have seen a rash of controversies surrounding digital network expansion in protected public lands, particularly in U.S. National Parks. Digital connectivity is experienced by some as intrusive and polluting—a digital blight eroding wilderness character or disquieting nature’s solitude—while others argue in favor of expanding coverage as an element of safety, a driver of rural economic growth, a solution to labor shortages and budget cuts, or as a method to improve accessibility. This presentation maps the contours of these debates, identifies some of the political, economic, and ideological stakes which underpin them, and assesses the ways that battles over digital infrastructures both reflect and complicate long-standing land management strategies and forms of environmental relation.

Additional people involved in the proposal, if any

Present a Paper

Lydia

Kiewra

Michigan State University

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Scaling up and scaling out: engaging wildlife managers in system-wide visitor use thinking

Across the U.S., public land managers must balance natural resource protection with visitor experiences. This challenge necessitates the use of recreation frameworks and collaboration to uphold agency goals. However, frameworks require prior site knowledge and are often applied to individual or similar sites. Increasingly, managers must assess entire public land systems, a complex task given agency constraints. Social scientists can help by analyzing visitor patterns across systems. Our research enhances site selection for visitor studies, highlighting a Michigan case where wildlife managers and social scientists used the Delphi method and Integrated Recreation Amenities Framework to select 10 sites representing a 200+ site wildlife area system.

Additional people involved in the proposal, if any

Other authors: Elizabeth E. Perry (Department of Community Sustainability, Michigan State University, East Lansing, USA), Emily F. Pomeranz (Department of Fisheries and Wildlife, Michigan State University, East Lansing, USA), and Melissa J. Nichols (Michigan Department of Natural Resources, Fisheries Division, Lansing, USA)

Present a Poster

Min Kook

Kim

Stockton University

mkkim2@gmail.com

Optimizing Vegetation Indices for Enhanced Management of Parks and Protected Areas

This study compares top-of-atmosphere radiance (TOAR) and atmospherically corrected surface reflectance (SR) data for detecting vegetation cover changes in Acadia National Park. SR data typically requires more preprocessing and atmospheric correction, which can lead to over-correction and loss of key information. Using PlanetScope data, we applied pre-classification change detection with NDVI and ARVI indices to assess vegetation dynamics. Results show that modified ARVI indices from SR data, with controlled red or blue bands, achieved the highest accuracy (87.58% and 89.44%) compared to other combinations. These findings suggest SR data could offer better insights for monitoring vegetation changes, enhancing management strategies and improving monitoring techniques with new indices.

Additional people involved in the proposal, if any

John Daigle, co-author, University of Maine

Present a Poster

Min Kook

Kim

Stockton University

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Lessons from the Summits: Evaluating Vegetation Management Effectiveness Using Remote Sensing

Effective management strategies to mitigate visitor impacts on vegetation are crucial for long-term conservation in recreational areas. This study evaluates management approaches at Cadillac, Penobscot, and Sargent Mountain Summits in Acadia National Park, utilizing remote sensing data from 2010-2018 and 2001-2021 to assess changes in vegetation cover. Findings show that intensive management, such as physical barriers and ecological restoration at Cadillac, improved vegetation cover, whereas less intensive strategies at Penobscot and Sargent led to declines in vegetation. The study highlights the importance of effective management in promoting vegetation health and demonstrates how remote sensing can inform sustainable decision-making in recreation ecology.

Additional people involved in the proposal, if any

John Daigle, co-author

Present a Paper

Min Kook

Kim

Stockton University

mkkim2@gmail.com

Lessons from the Summits: Evaluating Vegetation Management Effectiveness Using Remote Sensing

Effective management strategies to mitigate visitor impacts on vegetation are crucial for long-term conservation in recreational areas. This study evaluates management approaches at Cadillac, Penobscot, and Sargent Mountain Summits in Acadia National Park, utilizing remote sensing data from 2010-2018 and 2001-2021 to assess changes in vegetation cover. Findings show that intensive management, such as physical barriers and ecological restoration at Cadillac, improved vegetation cover, whereas less intensive strategies at Penobscot and Sargent led to declines in vegetation. The study highlights the importance of effective management in promoting vegetation health and demonstrates how remote sensing can inform sustainable decision-making in recreation ecology.

Additional people involved in the proposal, if any

John Daigle, co-author

Present a Poster

Isabelle

Kostelnick

Oregon State University

izzykostelnick@gmail.com

Having Reservations? The Impact of Recreation.Gov on Visitor Experiences at Acadia National Park

Recreation.gov is an essential tool for National Park Service visitor use management, but visitor impressions to the platform are mixed. This study examined perceptions of Recreation.gov at Acadia National Park, focusing on how attitudes toward the platform relate to place attachment, trip intentions, and broader use limit preferences. Surveys were distributed via QR codes at reservation-required sites (Blackwoods Campground and Cadillac Mountain). Findings suggest visitors were generally neutral to somewhat favorable of the platform, with trends indicating that increased implementation was desired in certain areas of the park. Generally, stronger place attachment was linked to greater platform support. Results provide key insights aiding in efforts to improve Recreation.gov for both park managers and visitor stakeholders.

Additional people involved in the proposal, if any

Dr. Jessica Leahy, Professor in School of Forest Resources, University of Maine

Present a Poster

Sarah

Krzemien

Michigan State University

krzemie8@msu.edu

Recreating Together: Displacement Types and How they Vary in Multigenerational Households

Displacement is a coping mechanism or adjustment people can make when they encounter barriers to engagement, where they choose alternative experience conditions to still attain the outcomes they seek from their recreation pursuit. Displacement can occur spatially (site) and temporally (time), but it may also differ across demographics. Little is known about displacement across social identities based in race/ethnicity, household composition, and recency of family structure in the U.S. This research examines causes and types of displacement and how these may vary based on social identity. We surveyed Southern California residents who visited four national forests, on their visitor use patterns and displacement. Results imply that multigenerational households are more likely to have experienced and be impacted by displacement drivers.

Additional people involved in the proposal, if any

Erin Budzyn, Michigan State University
Elizabeth Perry, Michigan State University
Alyssa Thomas, U.S. Forest Service
José J. Sánchez, U.S. Forest Service
Brian A. Peterson, Kansas State University

Organize an Information-Sharing Session: Presentations + Audience Interaction

Seamus

Land

University of Montana

Seamus.Land@umont.edu

Homelessness and nature across landscapes and disciplines

The social-ecological dynamics of homelessness in parks and protected areas have become increasingly apparent to land managers, conservationists, social workers, scholars, and members of many communities across the US. To help connect a fragmented dialogue across the academic literature, we present findings from a literature review we conducted across a broad range of disciplines. We observed an increasing focus on understanding homelessness drivers, impacts, and solutions through a coupled social-ecological systems lens. To help mobilize around needs and opportunities, we propose the development of a research agenda to identify priorities for better attending to the complex and contested challenges of homelessness across landscapes, and we invite audience insights on how to ensure social and environmental justice in this endeavor.

Additional people involved in the proposal, if any

Monika Derrien, PhD - Pacific Northwest Research Station, USDA

Organize a Core Workshop Session: Presentations + Audience Interaction

Benita

Law-Diao

Adirondack Park Agency

cheinee@aol.com

Accessibility for All on Forest Preserve Lands?

The NYS Adirondack Park Agency (APA) develops long-range land use plans for both public and private lands, within the boundary of the Adirondack Park. We are currently working on updating the NY State Land Master Plan (SLMP). The APA and NYS Department of Environmental Conservation (DEC) have a policy limiting the number of roads in the park's wild forest lands. The policy states that there should be no "material increase" in the number of miles of roads in the wild forest land. People with disabilities are pushing for accessibility to our forest preserve lands, while environmental groups are voicing concerns about wilderness preservation. Stakeholders concerned about "unprecedented changes" proposed to policies governing forest preserve lands will cause great harm.

Additional people involved in the proposal, if any

Not applicable

Present a Paper

Benita

Law-Diao

John Brown Lives!, Adirondack Park Agency and the Adirondack Experience Museum

cheinee@aol.com

Adirondacks: We Were Here, We Are Here, We Have Every Right to Be Here

Black and Latino people often associate the Adirondack (ADK) State Park region with prisons, white people, wild animals, cold snowy weather, and harassment and injustice. They have been made to feel that they have no right to be in the Adirondacks, and they believe that no BIPOC exists there, other than in prisons. Black people have lived in the ADK since the 1800s, live and work there now, and have every right to live and recreate there. In order to protect and preserve the ADKs, everyone needs to understand the value the park and have access to this important 6.1+ million acre carbon sink, which is larger than 5 national parks (Yellowstone, Yosemite, Grand Canyon, Everglades, and Great Smoky National Parks combined).

Additional people involved in the proposal, if any

Not applicable

Present a Paper

Rachel

Layko

North Carolina State University

rblayko@ncsu.edu

Drivers of Residential Development around U.S. Protected Areas

Increasing low-density residential development around parks and protected areas poses threats to ecosystem function within park boundaries. While rates and impacts of development around parks have been studied, the drivers of development and their spatial variation are not well understood. Therefore, this study 1) identifies drivers of near-park development in the U.S. (2000-2020) and 2) determines how drivers differ at regional and national scales. We examine the relationship between development (quantified as change in housing density and impervious surface) and a suite of economic, social, and biophysical drivers within census block groups. Our paper contributes to the theme, “Integrating Natural and Cultural Heritage Conservation” by taking a social-ecological systems approach to investigating land use change around parks.

Additional people involved in the proposal, if any

Co-authors: Rachel Layko (PhD Student, North Carolina State University), Jelena Vukomanovic (Associate Professor, North Carolina State University Center for Geospatial Analytics), John Vogler (Research Scholar, North Carolina State University Center for Geospatial Analytics), Alexander Yoshizumi (PhD Candidate, North Carolina State University), Ross Meentemeyer (Director, North Carolina State University Center for Geospatial Analytics)

Present a Paper

Nari

Lee

University of Montana

nari.lee@umontana.edu

Gendered Barriers to Working in Conservation: A Comparative Case Study in South Korea and Mongolia

This research examines how gender inequity in conservation leadership in Mongolia and South Korea limits effectiveness and inclusivity. Patriarchal norms create systemic barriers, sidelining women from decision-making roles. Using mixed ethnographic methods, including interviews and photovoice, this study explores both personal experiences and structural challenges. Findings will inform policy and organizational strategies to promote gender equity, aligning with the Social and Environmental Justice theme. By addressing these barriers, the research contributes to more inclusive conservation efforts, ensuring diverse leadership for sustainable environmental solutions.

Additional people involved in the proposal, if any

Present a Poster

Kyle

Lima

Schoodic Institute at Acadia National Park

klima@schoodicinstitute.org

A citizen science approach to early detection and monitoring

This poster aims to convey 2 years of work in developing a citizen science approach to augment monitoring in National Parks. We've developed a program that pulls recent observations submitted to two of the most popular citizen science platforms: iNaturalist and eBird. Working with park managers and natural resource staff, we compile lists of species of management interest (i.e., rare species in decline or thought to be locally extirpated, invasive plants, forest insect pests, species on the state and federal threatened and endangered lists). Each week, park staff and partners receive an email communicating the observations of species of interest. Staff can then take appropriate action if necessary (e.g., a new observation of an invasive plant that needs immediate control), or continue collecting data on species they're monitoring.

Additional people involved in the proposal, if any

Chris Nadeau, Schoodic Institute
Abraham Miller-Rushing, National Park Service
Jesse Wheeler, National Park Service
Nicholas Fisichelli, Schoodic Institute

Present a Paper

Jeremy

Linden

Linden Preservation Services, Inc.

jeremy@lindenpreservation.com

Environmental Assessments and Strategic Sustainability Planning for Historic Sites

In 2024, Linden Preservation Services completed work with the Richmond National Battlefield Park on a holistic Environmental Assessment, focused on analyzing existing building infrastructure and performance at Shelton House at Rural Plains. A key concern was whether the house, only capable of winter heating, required further mechanical intervention to create an appropriate preservation environment. This paper presents the study results, which recommended against increased mechanization and provided strategic guidance for responding to climate change through non-mechanical strategies for environmental management, including groundwater control, light control and interior heat gain reduction, and changes in programmatic usage based on outdoor conditions, allowing for continued interpretation and preservation without added energy consumption.

Additional people involved in the proposal, if any

Present a Paper

Brianna

Lipp

University of Montana

brianna1.lipp@umontana.edu

A systematic scoping literature review of social identity in wildlife research

Social identity theory explores how individuals form identities based on group membership, influencing their cognitions, emotions, and behavior. Existing scholarship in human dimensions of wildlife has predominately focused on attitude differences among static identity groups. However, social identity effects are multifaceted and dynamic, distorting perceptions, influencing preferences, and fostering in-group favoritism, out-group derogation, and intergroup conflict or cooperation. Here, we present a systematic scoping review across ~260 refereed articles to examine how social identity has been used to understand human relationships with wildlife. We also draw inspiration from social psychological research in other fields to suggest new approaches to integrate social identity perspectives into wildlife related research.

Additional people involved in the proposal, if any

Dr. Alexander L. Metcalf (Human Dimensions Lab, College of Forestry and Conservation, University of Montana)

Present a Poster 1

Rebecca

Lowry

Joshua Tree Creative Lab

r.lowry@jtlab.info

JTLab and Parks Modern

We propose presenting a set of four posters that introduce the work of Joshua Tree Creative Laboratory (JTLab) and its Parks Modern (PMod) archive. We anticipate offering takeaway flyers for attendees, to be presented with the poster set. The posters will be visually engaging, saying as much as possible with images, using words to supplement and clarify. JTLab is a 501c3 nonprofit whose purpose is to be a creative resource for national parks and affiliate organizations nationwide. The Lab provides creative services; bridges the gap between the public lands +culture and creative communities; and, through Parks Modern, protects NPS's own significant design legacy with context. The Posters will describe the work of the Lab and the Archive, and will present specific projects and collections items as examples of their work.

Additional people involved in the proposal, if any

Present a Poster 2

Rebecca

Lowry

Joshua Tree Creative Lab

r.lowry@jtlab.info

JTLab and Parks Modern

We propose presenting a set of four posters that introduce the work of Joshua Tree Creative Laboratory (JTLab) and its Parks Modern (PMod) archive. We anticipate offering takeaway flyers for attendees, to be presented with the poster set. The posters will be visually engaging, saying as much as possible with images, using words to supplement and clarify. JTLab is a 501c3 nonprofit whose purpose is to be a creative resource for national parks and affiliate organizations nationwide. The Lab provides creative services; bridges the gap between the public lands +culture and creative communities; and, through Parks Modern, protects NPS's own significant design legacy with context. The Posters will describe the work of the Lab and the Archive, and will present specific projects and collections items as examples of their work.

Additional people involved in the proposal, if any

Present a Poster 3

Rebecca

Lowry

Joshua Tree Creative Lab

r.lowry@jtlab.info

JTLab and Parks Modern

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Additional people involved in the proposal, if any

Present a Poster 4

Rebecca

Lowry

Joshua Tree Creative Lab

r.lowry@jtlab.info

JTLab and Parks Modern

We propose presenting a set of four posters that introduce the work of Joshua Tree Creative Laboratory (JTLab) and its Parks Modern (PMod) archive. We anticipate offering takeaway flyers for attendees, to be presented with the poster set. The posters will be visually engaging, saying as much as possible with images, using words to supplement and clarify. JTLab is a 501c3 nonprofit whose purpose is to be a creative resource for national parks and affiliate organizations nationwide. The Lab provides creative services; bridges the gap between the public lands +culture and creative communities; and, through Parks Modern, protects NPS's own significant design legacy with context. The Posters will describe the work of the Lab and the Archive, and will present specific projects and collections items as examples of their work.

Additional people involved in the proposal, if any

Present a Poster

Kole

Lundstrom

University of Alberta

klundstr@ualberta.ca

The Role of Educational Programming in Indigenous Peoples' Experiences in Protected Areas

Protected area management agencies are faced with the challenge of addressing Indigenous peoples' histories and relationships with land that is now under park management. Interpretation programs are one of the ways park agencies are attempting to include Indigenous perspectives and histories in park spaces. However, little to no research has attempted to understand how Indigenous individuals' experiences in protected areas are influenced by interpretation programs. This research will include interviews with Indigenous park visitors to ask how their experiences in parks are influenced by interpretation programming. Indigenous methods and methodologies will be used to uphold social and environmental justice by enhancing Indigenous peoples' experiences and visibility, and contribute to overall reconciliation in outdoor spaces.

Additional people involved in the proposal, if any

Present a Poster

Sean

MacDougall

Bureau of Land Management

The National Landscape Conservation System: An Overview

The National Landscape Conservation System, also referred to as National Conservation Lands or NLCS, was established by administrative order under the Bureau of Land Management in 2000 and codified by Congress in 2009. The NLCS conserves, protects, and restores nationally significant landscapes that have outstanding cultural, ecological, and scientific values for the benefit of current and future generations. It includes national monuments, national conservation areas, wilderness areas, wilderness study areas, national scenic trails or national historic trails, wild and scenic rivers, and any area designated by Congress to be administered for conservation purposes in the BLM. As the system celebrates 25 years since its creation, this poster provides an overview of the system, the values it stewards, and the types of uses allowed.

Additional people involved in the proposal, if any

- Suzanne Copping & Fritz Klasner
- James Sippel
- Barb Keleher
- Robin Lewis
- Karla Rogers

Organize an Information-Sharing Session: Sharing Circle

Sarah

Marks

Rutgers University - Newark, School of Criminal Justice

SM2478@scarletmail.rutgers.edu

Crime and Public Safety on Public Lands

Crime and safety on public lands is a long-standing yet evolving concern among stakeholders. Crimes occurring on public lands are unique as they impact the environment, wildlife, cultural heritage, property, and people. This information-sharing session will probe 1) what types of crimes are occurring on public lands; 2) the impacts of crime on public lands, including social and environmental justice, economic value, and perceptions of safety; and 3) successful strategies and ideas for reducing crime and increasing public safety. The session is particularly salient in the context of federal land management agencies experiencing mass firings and hiring freezes amid record levels of visitors in recent years. Moreover, federal shifts in policy and funding will undoubtedly have ripple effects among state and local land management agencies.

Additional people involved in the proposal, if any

Present a Paper

Shelby

Marocco

Michigan State University

maroccos@msu.edu

A Tale of Two Rivers: A decadal comparison of visitor use at Sleeping Bear Dunes National Lakeshore

Sleeping Bear Dunes National Lakeshore in Michigan attracts over 1.5 million visitors annually, generating more than \$200 million in tourism revenue (Moore, 2024). A 2014 study with the National Park Service examined visitor patterns and attitudes at the Platte and Crystal Rivers, surveying 1,044 people from May to September 2013. In 2024, a follow-up study was conducted at five locations, including the Platte and Crystal Rivers, over 12 weeks (May to August), with 1,360 surveys collected, over 40% of which were from the Crystal and Platte Rivers. A decadal comparison of visitor use, motivations, and intended use of these rivers, along with a statistical analysis and annual revenue data, was also conducted. Understanding these patterns helps managers support conservation, sustainability, and visitor satisfaction at SLBE.

Additional people involved in the proposal, if any

Dr. Robert Dvorak (Central Michigan University)
Dr. Elizabeth Perry (Michigan State University)

Present a Paper

Joseph

Mbaiwa

University of Botswana, Okavango Research Institute

JMbaiwa@ub.ac.bw

Trophy Hunting and Ecological Colonialism in Botswana

The concept of ecological colonialism is used to analyse trophy hunting and wildlife conservation and associated tensions between the Global North and Global South in Botswana. The analysis is drawn from experiences of rural communities. Rural communities in Botswana prefer both trophy hunting and photographic tourism while citizens in the Global North especially Animal rights group reject trophy hunting citing decreased wildlife populations, increased poaching, illegal wildlife trade and the loss of biodiversity. Agro-pastoralists describe the Global North approach as a form ecological colonialism. This paper argues that photographic tourism and trophy hunting are sustainable land use options that are complementary hence should be undertaken to achieve wildlife conservation and improved rural livelihoods in Botswana.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Panel Discussion

Rebecca

McCaffery

US Geological Survey

rmccaffery@usgs.gov

Examining drivers and impacts of subalpine meadow change on wildlife species in three national parks

Our understanding of how mountain meadows are changing, how temperature and precipitation relate to those changes, and how this will impact sensitive wildlife species in park landscapes is limited. We examined these questions at Olympic, Mount Rainier, and Glacier National Parks. We used remote-sensing and statistical models to quantify loss and change in subalpine meadows and how water and climate relate to those changes. We are linking results of these models to distribution and dynamics of vulnerable wildlife species such as the Olympic marmot and several bumblebee species. We will present and discuss the results, uses, and implications of our interdisciplinary research, and how to apply this approach in other systems. This work can help parks prioritize conservation and management actions in the face of climate change.

Additional people involved in the proposal, if any

Panelists in a Panel Discussion information-sharing session:

Dr. Tabitha Graves (research ecologist, USGS)

Dr. T. Roy Sando (research physical scientist, USGS)

Organize a Core Workshop Session: Presentations + Audience Interaction

Perri

Meldon

NPS Mellon Humanities Postdoctoral Fellowship Program

pmeldon@usaconservation.org

Humanities as a Bridge: Lessons from the NPS Mellon Program

The National Park Service Mellon Humanities Postdoctoral Fellowship Program places recent PhDs with NPS sites and programs across the agency. Over the course of two-year fellowships, Mellon Fellows work with NPS mentors, scholars, and community partners to conduct original research and develop new interpretive and educational products and programming. In this session, NPS Mellon participants share their experiences bridging enduring yet illusionary divisions between natural and cultural heritage. The presenters will underscore the importance of Tribal and community engagement as they explore interpretive approaches to showcase their research. After brief presentations, Mellon participants will lead attendees in an activity to enrich place-based interpretation that addresses social, cultural, and ecological complexity.

Additional people involved in the proposal, if any

Dr. Helen LaCroix, Communications Consultant, NPS Mellon Program;
Dr. Stephen Hausmann, Mellon Fellow, Mount Rushmore National Memorial;
Rylan Sprague, Integrated Resources Program Manager, Mount Rushmore National Memorial;
Dr. Rosie Sprague, Professor, Black Hills State University;
Dr. Meagan Harden, Mellon Fellow, Maritime Washington National Heritage Area
Perri Meldon, National Coordinator, NPS Mellon Program;
Dr. Frank Schmitz, Mellon Fellow, NPS Midwest Regions Rivers Program;
Ione Quigley, Tribal Historic Preservation Officer, Rosebud Sioux Tribe

Present a Paper

Alexander

Metcalf

University of Montana Human Dimensions Lab

alex.metcalf@umontana.edu

Social identity activation contributes to unnecessary polarization of attitudes toward wolves

Polarization between groups can undermine durable conservation outcomes. Social identity activation can exacerbate conflict, especially when people hold inaccurate assumptions of others. The dynamic influence of social identity has been underexplored in conservation contexts. Across two randomly controlled experiments (total $n = 2,296$), we show how social identity activation and inaccurate metaperceptions distort attitudes toward gray wolves (*Canis lupus*) and unnecessarily deepen polarization. We provide evidence of a unique in-group metaperception mechanism for this effect and, promisingly, find a simple in-group metaperception correction can attenuate it. We discuss the pernicious consequences of activating identities people incorrectly assume are polarized and recommend practical guidance for avoiding these tragically ironic outcomes.

Additional people involved in the proposal, if any

Justin W. Angle

Present a Paper

Nate

Moody

Natural Resources and Society Department, University of Idaho

nmoody@uidaho.edu

Outfitter perceptions of workforce development on the Middle Fork of the Salmon River

Commercial outfitting relies on inter-relations between owners/outfitters, clientele, and guides. Currently, limited research exists exploring challenges present in preparing a professional guiding workforce. This qualitative study explores outfitters' perceived challenges and proposed necessities in development of a quality guiding workforce for the Middle Fork of the Salmon River in Idaho. Findings suggest that alongside structured technical skill development, cultural and historical interpretation skills are requisite professional skills contributing to the economic valuation of outfitted services. These findings support potential skill development protocols for guide training within the Salmon River Basin, as well as transferable multi-day river contexts where guided recreational activities occur.

Additional people involved in the proposal, if any

Chris Zajchowski, Assistant Professor, Natural Resources and Society Department, University of Idaho

Present a Poster

Wayde

Morse

Auburn University

morsewc@auburn.edu

Identifying recreation participation patterns and trends using the ORAPS

To effectively plan for visitation to parks and protected areas, we need a system to identify participation patterns and trends and develop forecasts. The Outdoor Recreation Access and Participation Survey (ORAPS) project presents a rigorous standardized national system for collecting and disseminating information on outdoor recreation. It fulfills Statewide Comprehensive Outdoor Recreation Plan requirements with data on recreation access and near and away-from-home participation levels for eighty activities. It's a general public survey that identifies participation constraints and facilitators (programmatic and structural) that moderate participation levels. This data provides a template to forecast demand, broaden participation, address constraints, enhance facilitators, and enable group comparisons critical for long-term planning.

Additional people involved in the proposal, if any

Lee Cervený, PNW, USDA Forest Service lee.cervený@usda.gov

Randy Rosenberger, Professor, Oregon State University r.rosenberger@oregonstate.edu

Lydia Gorrell, Faculty Research Assistant, Oregon State University, lydia.gorrell@oregonstate.edu

Participate in the 3MR (Three-Minute Research Competition)

Adyasha

Nayak

University of Montana

adyasha.nayak@umontana.edu

Impacts of Aquaculture Policy and Adaptive Capacity in Social-Ecological System of Chilika Lagoon

The growing demand for seafood in the global North has driven the shift from capture fisheries to aquaculture. While this has benefited livelihoods, it has negatively impacted small-scale fisheries, as seen in Chilika Lagoon, India. Since the 1980s, aquaculture encroachment and commercial fishing have eroded traditional fishing areas and livelihoods. The 2023 Aquaculture Authority Act amendment decriminalizes aquaculture, potentially destabilizing traditional livelihoods and local institutions. This study uses the adaptive capacity framework to explore the response of Primary Fishermen Cooperative Societies (PFCS) to changing policies, offering insights for more equitable, context-based decision-making in coastal systems.

Additional people involved in the proposal, if any

Present a Paper

Adyasha

Nayak

University of Montana

adyasha.nayak@umontana.edu

Impacts of Coastal Aquaculture Act and Adaptive Capacity in Chilika's Social-Ecological System

The growing demand for seafood in the global North has driven the shift from capture fisheries to aquaculture. While this has benefited livelihoods, it has negatively impacted small-scale fisheries, as seen in Chilika Lagoon, India. Since the 1980s, aquaculture encroachment and commercial fishing have eroded traditional fishing areas and livelihoods. The 2023 Aquaculture Authority Act amendment deregulates aquaculture, potentially destabilizing traditional livelihoods and local institutions. This study uses the adaptive capacity framework to explore the response of Primary Fishermen Cooperative Societies (PFCS) to changing policies, offering insights for more equitable, context-based decision-making in coastal systems.

Additional people involved in the proposal, if any

Present a Paper

Brian

O'Riley

Historical Projects LLC

brian_oriley@yahoo.com

Profit and Pollution: Evaluating Cap-and-Trade's Impact on Global Warming and the Environment

In efforts to mitigate concerns surrounding global warming, the United States began administering cap and trade policies to reduce air pollution as well as greenhouse gas emissions. It has been roughly thirty years since the implementation of Cap-and-trade, and the results have often been unclear, and contentious. Many argue that Cap-and-trade has negatively impacted conservation efforts while contributing to increased environmental injustice for disadvantaged communities. The unfair policy practices, lack of oversight, outright fraud and abuse, and sluggish gains in carbon reduction - all associated with Cap-and-trade policies - call for a reevaluation of its impact on the environment and its efficacy in reducing global warming.

Additional people involved in the proposal, if any

N/A

Present a Poster

Ruby

Olsson

Australian National University

ruby.olsson@anu.edu.au

Responding to ecological transformation: Comparing protected areas in the US and Australia

Natural resource managers and researchers are grappling with climate change driven transformation of protected areas globally. The Resist-Accept-Direct (RAD) framework emerged from the United States as a tool to assist responses to this transformation and has gained momentum in Australia. My research examines the role of futures thinking and RAD in responding to ecological transformation using a comparative case study of whitebark pine in US protected areas and snow gum decline in Australian Alps protected areas. I present initial findings from semi-structured interviews with 22 managers and researchers from the United States, and two multi-day workshops with approximately 40 Australian managers and researchers. Key findings examine how participants envisage the future, and the strengths and challenges of using RAD in these two contexts.

Additional people involved in the proposal, if any

Organize a Core Workshop Session: Presentations + Audience Interaction

Gabriel

Oppler

Center for Large Landscape Conservation

gabe@largelandscapes.org

Transboundary Connectivity Conservation: Experiences in North America and Around the World

Ecological connectivity – including connected habitats, species movement and flow of natural processes – underpins ecosystems everywhere. Sustaining well-connected landscapes is a foremost adaptation strategy for biodiversity in a changing climate. Ecological connectivity conservation often requires working at large scales, transcending political borders.

Transboundary initiatives require collaboration between institutions and individuals who sit on opposite sides of the border or speak different languages, but have common values and concern for the ecosystems they share. Hear about experiences and lessons learned from advancing connectivity conservation in North America and around the world. Presentations will be followed by discussion on long-standing and newly emerging challenges and opportunities in transboundary cooperation.

Additional people involved in the proposal, if any

Katie Deuel, Senior Conservation Director, CLLC
Aaron Laur, International Connectivity Program Manager, CLLC

TBD among:
Deb Davidson, Chief Strategy Officer, CLLC
Phil Huffman, Senior Vice President, Quebec-Labrador Foundation
Mikael Cejtin, Staying Connected Initiative Coordinator, TNC

Present a Poster

Ashley

Padvaiskas

c/o Paul Heintzman, University of Ottawa

pheintzm@uottawa.ca

Alternative Parking Management Strategies: Implications for Visitor Use Management in Gatineau Park

This presentation reviews existing literature and case studies, to identify parking management options and sustainable transportation alternatives that could be implemented in the Meech Lake sector of Gatineau Park to address parking shortages during the busy summer season. Five alternative parking and transportation strategies are considered: variable rate parking fees; time-managed entry reservation systems; active modes of transportation; alternative access routes; and the exploration of a shuttle bus service expansion. Each approach is examined based on its advantages, limitations and public perceptions. The study informs park management of the most efficient means of managing visitor use with minimal pushback from the public to sustain current recreational activities and provide a safe and high-quality visitor experience.

Additional people involved in the proposal, if any

Paul Heintzman, Professor, University of Ottawa

Organize an Information-Sharing Session: Panel Discussion

Bing

Pan

Penn State University

bingpan@psu.edu

Disaster Preparedness and Emergency Evacuation for National and State Parks

Climate change increases natural disasters, posing risks to national and state parks in the increasingly populated Wildland-Urban Interface. Our workshop synthesizes research on emergency evacuation and disaster preparedness from Rocky Mountain National Park (RMNP), Wrangell-St. Elias National Park and Preserve (WRST), and South Beach State Park (SBSP). We explore how agent-based modeling and participatory research improve disaster preparedness and evacuation. RMNP used microsimulations to analyze evacuation times and traffic conditions to identify prominent bottlenecks. WRST assessed risks and evacuation challenges along McCarthy Road to identify unique disaster response processes in a remote tourism destination. SBSP conducted tsunami evacuation drills to validate models and test efficacy of signage.

Additional people involved in the proposal, if any

Haizhong Wang, Ph.D. and Professor, Glenn Department of Civil Engineering, Clemson University

Colby Parkinson, Doctoral Candidate, Department Recreation, Park and Tourism Management, Penn State University

Present a Paper

Taylor

Parker

Sierra Nevada Alliance

taylor@sierranevadaalliance.org

Haints: Ruptures of normativity in conservation stories of a forest in the United States' South

People adjacent to or historically tied to a landscape can often lose the ability to have a meaningful voice in management decision making but often engage with areas nonetheless. When these non-dominant voices and concerns are revealed and/or named, it can create a 'rupture of normativity that can have a destabilizing effect on how we understand a system. Typically, these ruptures are deemed outliers. In this investigation we call them 'haints' to anchor this work in the vernacular of the south. From 2018 to 2021, the authors set out to understand the management of a 18,400-acre New Deal forest, owned and operated by Clemson University (CU), a public land grant university in upstate South Carolina. This research is an examination of unexpected incidents or "outliers" in the dominant story of a place, yet integral to the story.

Additional people involved in the proposal, if any

Elizabeth Baldwin, co -author and co-presenter
Drew Lanham, co-author

Participate in the 3MR (Three-Minute Research Competition)

Colby

Parkinson

Penn State University

cbp5535@psu.edu

Insights on Managing Residents and Tourists during a Disaster in a Nature-Based Tourism Destination

Disasters are increasing and presenting risks for people residing near and visiting wildland areas. However, disaster response processes in remote nature-based tourism destinations are understudied. This presentation details results from a case study using a participatory, mixed methods research design to explore intertwined disaster response processes among land managers, commercial operators, local responders, residents, and tourists along McCarthy Road in Alaska, which runs alongside and within Wrangell St. Elias National Park and Preserve. The study site is a microcosm of the complexities of emergency planning (e.g., multi-jurisdiction governance, limited infrastructure, environmental vulnerability, residents' self-reliance culture) for nature-based tourism communities with insights for disaster response in parks and protected areas.

Additional people involved in the proposal, if any

Dr. Bing Pan - Penn State University Recreation, Park, and Tourism Management Department
Dr. Brian Staes - Oregon State University College of Engineering
Dr. Haizhong Wang - Oregon State University College of Engineering
Dr. Derrick Taff - Penn State University Recreation, Park, and Tourism Management Department
Dr. Peter Newman - University of Vermont Rubenstein School of the Environment and Natural Resources

Organize a Core Workshop Session: Presentations + Audience Interaction

Colby

Parkinson

Penn State University

cbp5535@psu.edu

Applying Cyclist Behavior and Backgrounds to Inform e-Bike Policy on Public Lands

Cycling is one of the most popular outdoor activities in the U.S. Yet, the emergence of e-bike technology has instigated conflict among e-bikers and other park visitors, in part since e-bikers behave differently and have more diverse backgrounds than analog cyclists. This session will present data focused on perceptions, behaviors, and backgrounds of e-bikers to inform recreation planning. Considering the nascent and limited guidance for managing e-bikes on public lands, presenters will then facilitate breakout sessions to discuss presented research, federal guidance, and opportunities to address social and environmental issues relating to cycling.

Additional people involved in the proposal, if any

Co Organizers: Colby Parkinson & Abigail Fuesler

Paper Presenters:

Colby Parkinson - Recreation Specialization's Influence on Cyclists' Spatial Behaviors in the Age of e-Bikes in Grand Teton National Park

Abigail Fuesler - Identity and Attitudes in Public Comments Regarding e-Bikes on Federal Land

Cait M. Henry - Trail Pulse: Trail users' perceptions of recreational E-bike use in Michigan

Paper presentations followed by audience interactions in the form of breakout groups and a panel composed of all paper presenters and at least one practitioner.

Participate in the 3MR (Three-Minute Research Competition)

Ande

Peersen

University of Montana

ande1.peersen@umconnect.umt.edu

Land and the American Dream

The western US is conceptualized in our national imagination as a place of abundant land, where owning and accessing nature is integral and expected. Yet land is increasingly being consolidated across the west, limiting many people's ability to buy property as well as access public lands. This project investigates how both newcomers and old-timers in three communities across Montana are responding to these changes, both materially and affectively. It utilizes a mixed-methods approach, employing both interviews and spatial analyses to document landscape changes and associated responses. Acknowledging that property ownership and access are intertwined with politics, economics, and power, and that conservation can only happen sustainably through equity and empowerment, this project is rooted in questions of social justice.

Additional people involved in the proposal, if any

Present a Poster

Susan

Pierce

Hotspot Patrons

info@hotspotpatrons.com

Addressing the Funding Gap in Private Lands Conservation in Global Biodiversity Hotspots

Our initiative provides a solution to address a critical gap in conservation financing - that of private lands conservation. Because between 70-90 % of the Earth's remaining native species exist on private lands it is imperative to find more ways to support existing private reserves and incentivize their creation. A group of 51 private reserves surrounding an UNESCO World Heritage Site National Park in what should be a buffer zone, are participating in HotSpot Patrons needs-assessment in the Cerrado, with another group of reserves participating in the Atlantic Forest- both biodiversity hotspot biomes in Brazil. Research results will be presented along with a portfolio of funding opportunities on both a reserve level, and a community level. Combining areas of sustainable products marketing with strict nature reserves will be encouraged.

Additional people involved in the proposal, if any

None

Present a Paper

Michael

Pretes

United States Air Force Academy/University of North Alabama

mjpretes@una.edu

National Parks and “Mission Essential”: Teaching About Protected Areas at the U.S. Air Force Academy

Many universities across the United States offer a course in national parks. A newcomer to this list is the U.S. Air Force Academy, where cadets are trained to become Air Force officers as well as receiving an undergraduate degree in their chosen major. Despite its location in Colorado within a short drive of several national parks, it was not until Spring 2025 that the Air Force Academy offered its first course on National Parks and Public Lands, taught by the two authors of this paper. In this presentation we reflect on the particular circumstances of teaching this course at a military academy, how a course on parks fits into the “mission essential” component of military preparedness, and how a course on national parks fits into the larger discourse on creating leaders of character and what it means to be an American.

Additional people involved in the proposal, if any

This paper is co-authored with Jason Lackey, U.S. Air Force Academy.

This paper is part of an Information Sharing Session - Invited Papers, organized by Randall Wilson and Michael Pretes. Other participants in this session are Yolonda Youngs, Leisl Carr-Childers, Michael Childers, Terence Young, and Randall Wilson.

Present a Poster

Ashelee

Rasmussen

NRCC Research Associate

asheleerasmussen@isu.edu

Roles of Art in Science Communication and Outreach

A consideration of natural science research is the increasingly important role that the public plays in the support of conservation. Researchers need to make serious attempts to reach beyond the scientific community and describe the broader benefits of conservation to raise awareness, educate, and gain public support. Art is a tool that bolsters communication. Biological focused artwork supports outreach by bringing conservation topics into the visual realm to be more accessible to a wide audience. As researchers enlist artists in outreach efforts, art acts as a gateway to engage the public by focusing attention and telling visual stories exploring relationships or events. Biological artworks can be informative outreach elements that evoke curiosity and emotions that leave lasting impressions and inspire support for conservation.

Additional people involved in the proposal, if any

Andrew Ray, National Park Service, North Coast and Cascades I&M Network Program Manager

Organize an Information-Sharing Session: Panel Discussion

Lauren

Redmore

ALWRI

lauren.redmore@usda.gov

The Wild Next Door: Between City Limits and Sacred Lands

This session proposes to show a 45-min film (currently in edit) followed by a Q&A with movie directors, producers, and experts. The film is about the Alpine Lakes Wilderness (ALW) located outside of Seattle, WA. As recreational use increases, the Forest Service grapples with declining budgets to ensure wilderness character is preserved, though much on-the-ground work gets picked up by NGO partners who can be more creative in their project approaches. Tribal rightsholders grapple with the impacts of recreational use and the growing need to work with diverse NGO partners to influence visitor behavior. This film addresses questions of: what is wilderness, what is the ALW, what are the challenges facing urban proximate wilderness, and what are potential solutions.

Additional people involved in the proposal, if any

Mitchell Clark, Society for Wilderness Stewardship Fellow, filmmaker and CEO of Destroy Collective

Chris Armatas, ALWRI Research Social Scientist

Olga Helmy, ALWRI science communications specialist

Present a Paper

Michelle

Reilly

USFWS- Arthur Carhart National Wilderness Training Center

Michelle_Reilly@fws.gov

The Monsters We Create: A Discussion about Misinterpretations of Wilderness

Since 1964, roughly 125 pieces of wilderness legislation added over 100 mill. acres of federal lands to the NWPS. But the history of the Act is not without struggle and despite the growth of the system, criticisms have persisted for decades, arguing that the Act is “dualistic, ethnocentric, and static.” One critic states the definition of wilderness offered in the Wilderness Act of 1964, “assumes, indeed it enshrines, a bifurcation of man and nature. This session investigates two criticisms: that the Wilderness Act perpetuate a dichotomy between man and nature and that Wilderness intimates a purity of the land and people. I will search for answers to questions such as: Where do these criticism stem from and are they warranted?

Additional people involved in the proposal, if any

Present a Poster

Michelle

Reilly

Arthur Carhart National Wilderness Training Center

Michelle_Reilly@fws.gov

What is the interagency Arthur Carhart National Wilderness Training Center?

There is one National Wilderness Preservation System in the United States. But, where is it? And who manages it? That's where things get interesting! The Wilderness Act of 1964 created one NWPS comprised of congressionally-designated wilderness on public lands managed by two different departments (Department of Interior and Department of Agriculture) and FOUR different agencies! Although the agencies have their own mission, they must manage designated wilderness under the same mandate, to preserve wilderness character. The interagency Center was created in 1993 and staffed by the four management agencies to provide consistency and collaboration in managing wilderness. This poster will provide participants with a brief history of the Center and aspects of interagency collaboration that can be both rewarding and at times challenging.

Additional people involved in the proposal, if any

Jimmy Gaudry- ACNWTC Director;
Rob Burrows - ACNWTC -NPS;
James Sippel - ACNWTC- BLM.

Present a Poster

Michelle

Reilly

USFWS- Arthur Carhart National Wilderness Training Center

Michelle_Reilly@fws.gov

Misinterpretations of Wilderness in the US Public Lands System

Since 1964, roughly 125 pieces of wilderness legislation added over 100 mill. acres of federal lands to the NWPS. But the history of the Act is not without struggle and despite the growth of the system, criticisms have persisted for decades, arguing that the Act is “dualistic, ethnocentric, and static.” One critic states the definition of wilderness offered in the Wilderness Act of 1964, “assumes, indeed it enshrines, a bifurcation of man and nature. This session investigates two criticisms: that the Wilderness Act perpetuate a dichotomy between man and nature and that Wilderness intimates a purity of the land and people. I will search for answers to questions such as: Where do these criticism stem from and are they warranted?

Additional people involved in the proposal, if any

Present a Poster

Michelle

Reilly

Arthur Carhart National Wilderness Training Center

Michelle_Reilly@fws.gov

Beyond Secretaries, Hostesses, and Cooks: The Women Who Battled to Save Wilderness

In 1964, the 88th Congress passed The Wilderness Act. Many stories are told about the men leading the charge for wilderness preservation. These stories usually include three figures: Aldo Leopold, the well-known wildlife biologist, author, and ecologist; Robert Marshall, the philanthropist, forester, and cofounder and financier of The Wilderness Society; and Howard Zahniser, longtime president of The Wilderness Society and primary author of the Wilderness Act. But there are other figures whose stories are seldom told in wilderness history. Society viewed women as homemakers and housewives. It is no surprise then, that stories of women's role in our wilderness history are seldom told. These stories have a critical place and need to be heard.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Presentation + Audience Interaction

Michelle

Reilly

USFWS- Arthur Carhart National Wilderness Training Center

Michelle_Reilly@fws.gov

The Monsters We Create: Misconceptions about Wilderness in the US

The history of the Wilderness Act is not without struggle and despite the growth of the system, criticisms have persisted for decades, arguing that the Act is “dualistic, ethnocentric, and static.” One critic states the definition of wilderness offered in the Wilderness Act of 1964, “assumes, indeed it enshrines, a bifurcation of man and nature. This session investigates two criticisms: that the Wilderness Act perpetuate a dichotomy between man and nature and that Wilderness intimates a purity of the land and people. Where do these criticism stem from and are they warranted? Throughout the session, participants can interact via questions in a gaming platform on their phones (BravoZone) and 2 short video/audios will be played and asked for comment.

Additional people involved in the proposal, if any

Attendees will be able to use their phone to engage in interactive short questions by scanning a QR code that will be displayed on the projected screen. If possible, audio will be needed to play a historical recording. Please let me know if that's not possible so that I can rework that part of the presentation.

Present a Poster

David

Reynolds

U.S. Biosphere Network

dreynolds@georgewright.org

U.S. Biosphere Network

Twenty-eight biosphere regions in the United States and 761 worldwide connect Parks and protected areas with landscapes where people live and work. These sites are internationally recognized by UNESCO with geographies uniquely designed to achieve conservation and sustainable development through collaboration.

Additional people involved in the proposal, if any

Meredith King, USBN-University of Michigan Graduate Communications Intern

Present a Poster

Will

Rice

University of Montana

will.rice@mso.umt.edu

Data-driven design for more effective Wilderness trailhead signage

This poster presents findings from a study conducted at the Mount Massive Wilderness trailheads in Colorado. Visitors were invited to assemble their ideal trailhead sign using "puzzle pieces" that featured different graphic treatments and categories of information—such as Leave No Trace principles, wilderness regulations, trail condition reports, and maps. We analyzed visitor preferences to inform the design of more engaging, informative, and behaviorally effective trailhead signage. Conference attendees will have the opportunity to participate in the same hands-on activity and compare their preferences with those of wilderness visitors. Our goal is to spark discussion about how participatory design can help improve wilderness communication.

Additional people involved in the proposal, if any

Jeremy Shellhorn, University of Kansas
Adalyn Vergara, University of Montana

Participate in the 3MR (Three-Minute Research Competition)

Trevor

Ross

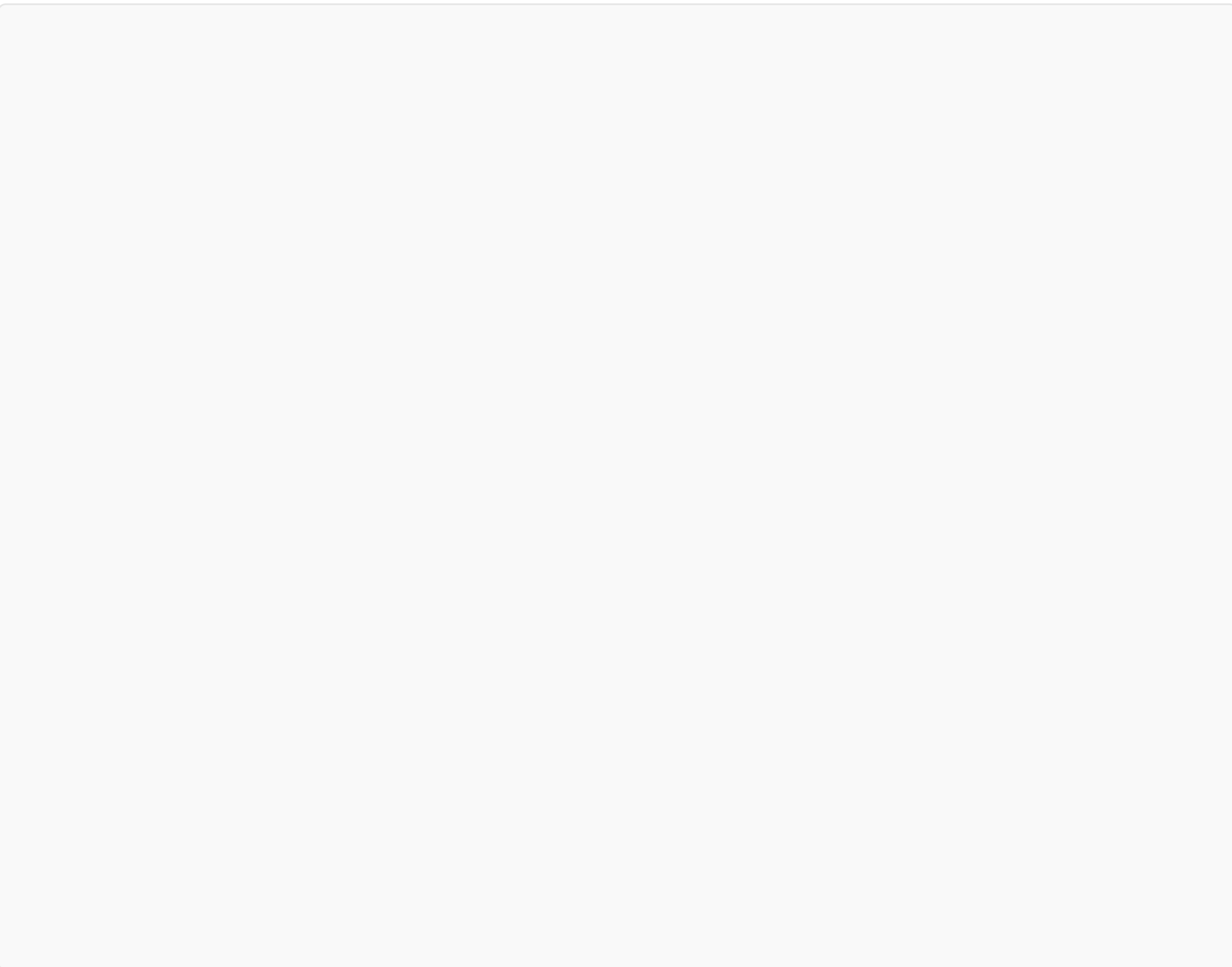
University of Montana, Wilderness and Recreation Management Lab

trevor.ross10@gmail.com

Measuring angler intra-site place attachment based on survey responses and GPS tracking.

How does the species targeted affect where along the reservoir these anglers travel? What could explain the variance in location tendencies between the range of species targeted? Using ArcGIS Pro, I measured qualitative survey data in combination with quantitative GPS data to track location tendencies within Blue Mesa reservoir based on what specific fish species anglers were targeting. I employed the use of analysis tools such as Kernel Density paired with a Quantile Distribution Method of Symbology (of measured point density) to show variance between the five different survey question responses for target species (kokanee, mackinaw, perch, trout, and other species).

Additional people involved in the proposal, if any



Present a Poster

Trevor

Ross

University of Montana

trevor.ross@umontana.edu

The Blue Mesa Timeline: A Data Dashboard

The Blue Mesa Timeline is a data dashboard developed using three ArcGIS Online Applications (Experience Builder, Web Map, StoryMap) along with ArcGIS Pro to visualize recreationist behavior from quantitative GPS data paired with qualitative recreation survey data collected during the 2024 Summer season on Blue Mesa reservoir in Curecanti National Recreation Area. The dashboard allows end users to visualize a "day" or "summer" on the reservoir, with enhanced levels of interaction, zooming, panning, and variable enabling/disabling to view anglers targeting specific fish species, non-anglers, crowding sensitive users, regular and first-time visitors, solos and groups, and many other variables.

Additional people involved in the proposal, if any

Participate in the 3MR (Three-Minute Research Competition)

Audrey

Roy

University of Ottawa

aroy121@uottawa.ca

A Shared Responsibility: The Environmental Political Economy of a Zero-Waste Banff National Park

How can national parks achieve zero waste within their unique political, economic, and social contexts? Using an environmental political economy approach, my research examines waste management in Banff National Park – Canada’s most visited national park – and explores pathways for greater sustainability. As symbols of ecological integrity, national parks present an opportunity to lead by example. Improving sustainability in these highly protected areas could help drive broader adoption of sustainable practices across Canada. Ultimately, reducing waste in national parks can contribute to lowering Canada’s waste-related greenhouse gas emissions, which account for 17% of the nation’s annual methane emissions.

Additional people involved in the proposal, if any

Present a Poster

Audrey

Roy

University of Ottawa

aroy121@uottawa.ca

Whose Parks? How to Meaningfully Consult Interest Holders in Managing National Parks

This poster compares internationally recognized best practices for public consultation in park management with Park Canada's (PCA's) current consultation processes. It is based on a critical review of 29 PCA public and Indigenous consultation documents, identifying both their successes and shortcomings. While PCA aligns with global standards in areas like feedback, education, knowledge sharing, and transparency, significant challenges remain around low engagement, limited empowerment of local leadership, and ineffective Indigenous consultation. These gaps are concerning as national parks face growing visitor-capacity conflicts, reduced funding, and climate change impacts. Experts consistently emphasize the need for meaningful collaboration with interest holders and Indigenous communities to address these complex issues sustainably.

Additional people involved in the proposal, if any

Paul Heintzman (reviewer/supervisor)

Participate in the 3MR (Three-Minute Research Competition)

Isaac

Sanchez

University of California

isanchezterrazas@ucmerced.edu

California's Delta in Motion: the state of the recreation economy and community wellbeing

This presentation is part of a study, which examines the economic and social dimensions of recreation and tourism in California's Sacramento–San Joaquin Delta. Drawing from government and private-sector data, this work analyses employment, wages, infrastructure investment, and participation tied to the outdoor recreation economy. A mixed-methods approach integrates quantitative economic metrics with qualitative assessments of community wellbeing—centered on income, job stability, and climate vulnerability. Drainage from the Sacramento and San Joaquin rivers along with the Palmer Drought Severity Index are used to link economic conditions to drought and salinity stresses. Findings shown reveal how deeply the Delta's recreation economy is intertwined to the lived experiences of people who live, work and visit the Delta region.

Additional people involved in the proposal, if any

Present a Paper

Wesley

Sarmiento

University of Montana

wesley.sarmiento@umontana.edu

Human visitation limits the utility of protected areas as ecological baselines

A key goal of protected areas is the conservation of biodiversity. Increasing visitation, however, can compromise ecological integrity. A fundamental conundrum is that if parks are to serve as our most pristine places, then we must understand how human presence alters biological interactions. Species that redistribute themselves closer to people is of growing management concern because of 1) human safety, 2) animal health, and 3) ecological consequences. We examine redistribution patterns of an iconic species in Glacier National Park. Specifically, we focused on predator-avoidance and resource enhancement to test whether mountain goats mediate their distribution by increasing spatial overlap with humans. Our findings re-enforce the increasing complexities of natural area management because visitation is altering ecological interactions.

Additional people involved in the proposal, if any

Joel Berger, Colorado State University & Wildlife Conservation Society

Present a Paper

David

Sauchyn

Prairie Adaptation Research Collaborative, University of Regina

sauchyn@uregina.ca

Co-creating Climate Adaptation Strategies for Indigenous Communities in Western Canada

This presentation addresses the Core Workshop Sessions related to climate change and social justice. It describes a partnership among our climate adaptation institutes and various Indigenous communities in western Canada. These communities are vulnerable to climate change stemming from socio-economic constraints on their adaptive capacity and climate impacts on their Treaty and ancestral lands. By co-creating community-relevant communication tools and climate services and weaving local knowledge with scientific expertise, we aim to bridge a significant gap in knowledge and capacity, resulting from a colonial system built on western science, void of Indigenous ways of knowing. These partnerships support culturally aligned economic vitality and exemplify strategies that address social justice and reconciliation with Indigenous Peoples.

Additional people involved in the proposal, if any

Jeff Baker, Tina Elliot and Laura Lynes
The Resilience Institute, Canmore, Alberta

Organize an Information-Sharing Session: Sharing Circle

Erin

Seekamp

NC State University

elseekam@ncsu.edu

Striving for meaningful engagement in climate adaptation planning of ancestral heritage sites

Hear about our journey toward meaningful engagement and share your stories of setbacks and success. Our journey emerged from a pilot project with members of the Kootenai and Séliš-Qlispé Culture Committees about climate adaptation planning of traditional use areas stewarded located within Glacier National Park (theme 1). We will also share lessons we learned along the way, such as co-creating shared terminology. For example, we selected the term “traditional use areas” (vs archeological sites) to clearly articulate the association to living people and the spirits of human and non-human ancestors within landscapes (theme 2). The disassociation of people and ancestors from these places can harm those invited to engagement activities by perpetuating historical traumas associated with settler colonialism and forced displacement (theme 3).

Additional people involved in the proposal, if any

Michael Durglo, Jr., Session co-organizer and co-presenter
Climate Change Coordinator, Confederated Salish and Kootenai Tribes

Organize an Information-Sharing Session: Sharing Circle

Craig

Shafer

National Park Service (retired)

cshafer@gmu.edu

Publishing for Beginners

Trying to publish an article in an outside venue for the first few times can be an intimidating experience unless you have an experienced co-author or graduate advisor to help you along. Many questions arise. What is the topic? What type of article should I write: original research, review, case study, or essay in a peer-reviewed journal, a book chapter if the opportunity arises, a law article, or a magazine article? Which journal or other venue should I submit to? How to deal with journal gatekeepers (the ones who determine if your submission is good enough to send on to the editor). How to encourage editor's interest so he /she wants to send your article out for review. Dealing with reviewer comments and possible rejection. And so on. There are books on this topic that cover more ground and I plan on recommending one of them.

Additional people involved in the proposal, if any

I plan to invite a few others besides myself to help introduce certain aspects of this subject and address questions that the group may have. In order to facilitate open discussion, the information sharing format may be the best choice for this event. For example, a bunch of soft couches or chairs arranged in a circle may be a good approach. I am no pro at publishing by any means, but I have learned a lot based on personal experience. If the group is mostly land managers, there are some special challenges they may face and overcome.

Christine Schonewald

Present a Paper

Ryan

Sharp

University of Tennessee

rsharp19@utk.edu

Exploring Economic Impacts of the Lewis and Clark National Historic Trail

Understanding the economic impact of long distance trails such as the Lewis and Clark National Historic Trail (LECL) is a difficult endeavor. The distance of the trail is a challenge, but the diversity of sites along the trail provides an additional obstacle. This was the first attempt to understand the economic impact of LECL. The researchers included different museums, parks, and historical sites. On-site surveys were collected at 5 test locations in 2024, with 425 visitors completing the survey. Visitors at the 5 selected sites generated \$14.5 million in annual expenditures. Visitor expenditures supported an estimated 195 jobs in the Midwest and generated \$7.49 million in labor income for Midwestern families. This study established and demonstrated a methodology for conducting the economic impact of the entire LECL.

Additional people involved in the proposal, if any

Dr. James Maples - Co-PI - NOAA
Taylor Bogucki - Graduate Student - University of Tennessee

Organize a Core Workshop Session: Hands-on Activity

Jeremy

Shellhorn

University of Kansas / CC Co-lab

jeshellh@ku.edu

The Art and Science of Signage: Two examples and a design charrette

This session will introduce a new way of thinking about how we design effective signs in parks and protected areas. We'll begin with two presentations, which will serve to demonstrate a data-driven approach to signage design and testing. The first presentation will share findings from a signage experiment conducted on a beach in Lake Tahoe in summer 2025, in collaboration with the League to Save Lake Tahoe. The second presentation will share findings from a two-part study conducted in 2024 and 2025 on the effectiveness of universal symbol signs used in campgrounds, and proposes a set of redesigned symbols for improved communication. The latter half of the session will consist of a design charrette, wherein participants will team up to apply the findings of these studies to applied park signage challenges, including redesigning universal symbols. Participants are encouraged (but by no means required!) to bring a sign or

Additional people involved in the proposal, if any

Co-Presenters: Dr. Will Rice, University of Montana
Miranda Foster, University of Montana
Adalyn Vergara, University of Montana
Marilee Movius, The League to Save Lake Tahoe

Present a Paper

B. Derrick

Taff

Penn State University

bdt3@psu.edu

Informing human waste management strategies in parks & protected areas: Lessons learned

Human waste disposal by outdoor recreationists is a significant global environmental issue. Despite the extent of this growing issue for human and environmental well-being, the sensitive nature of the topic has resulted in a lack of empirical research to inform management. To-date, this issue has largely been addressed through “Leave No Trace”-based education strategies involving either burying waste onsite, or carrying waste out of the area for later disposal. This presentation will combine findings from recent human waste-focused research from Rocky Mountain, Grand Teton, and Abel Tasman (New Zealand) National Parks and other U.S. Forest Service areas in an effort to inform current management strategies and future research.

Additional people involved in the proposal, if any

I'll be the only presenter, but my co-authors include:

Shari Edelson¹, Jeff Dalley², Chris North³, Lynette McLeod³, Toni Torepe³

¹ Department of Recreation, Park and Tourism Management Department Pennsylvania State University

² Department of Conservation, New Zealand

³ University of Canterbury, New Zealand

Present a Paper

Levi

Tenen

Virginia Wesleyan University

levitenen@gmail.com

Visit with Respect: An Indigenous, and distinctively American, Outdoor Recreation Ethic

“Leave no Trace” has been the dominant outdoor recreation ethic for decades. However, a new ethic is taking shape: “Visit with Respect” is being developed by the Bears Ears Education Center (BEEC), which works with federal agencies and tribes in the Bears Ears region. How does Visit with Respect differ from Leave No Trace? Should one be adopted over the other? I draw from my experience taking part in the BEEC's Visit with Respect training program to answer these questions. I argue that Visit with Respect is more inclusive of different traditions than Leave No Trace, but is limited in its current form. So, I synthesize the two and develop an Indigenous-inspired, distinctively-American, outdoor recreation ethic. The result is a general framework for encouraging visitors to reflect on how someone like them can visit an area with respect.

Additional people involved in the proposal, if any

None

Present a Poster

Levi

Tenen

Virginia Wesleyan University

levitenen@gmail.com

Who should own public lands – Individual states, the Feds, or Tribes?

Critics of federal lands can be found across the political spectrum. Some Republicans argue that federal ownership undermines state sovereignty, while some left-leaning thinkers argue that it undermines tribal sovereignty. These sovereignty-based concerns have not received much discussion, so I consider them. I first defend federal ownership from the Republican challengers by showing public lands promote unique values without unfairly limiting states' sovereignty or destroying their distinctive cultures. However, tribes did suffer serious historical injustices and federal ownership does undermine their cultures. So, I argue that tribes and the federal government ought to co-own today's federal lands. If done well, this would help restore tribal sovereignty while still providing the unique values of federal ownership.

Additional people involved in the proposal, if any

This poster draws from the work I am doing writing my first monograph, titled Public Lands: Who Should Own Them, and How Should They Be Managed? Presenting at the GWS is a great opportunity to test my ideas out with a diverse group of specialists. I am also presenting on the main program a separate project about Visit with Respect, an outdoor recreation ethic.

Present a Paper

Jennifer

Thomsen

University of Montana

jennifer.thomsen@umontana.edu

Co-Creating an Integrated Climate Impact Assessment in the Little Rocky Mountains

In partnership with the Fort Belknap Indian Community, we are adopting a holistic approach to climate change impact assessment in the Little Rocky Mountains that integrates traditional ecological knowledge with climate models. This range is home to numerous food and medicinal species of cultural importance. It is critical to understand how climate change has affected and will affect availability of these species and the cultural implications for the tribe. Adopting a holistic approach to climate change assessment will contribute to understanding the interconnected issues of protecting significant species and culture in their full complexity. Scenarios of future climate change impacts on the plant species and different scenarios for the community will be explored to inform planning and management decisions.

Additional people involved in the proposal, if any

Austin Afterbuffalo
Dennis Longknife
Michael Blackwolf
Dave Sauchyn

Organize a Core Workshop Session: Presentations + Audience Interaction

Jocelyn

Torres

Conservation Lands Foundation

jocelyn@conservationlands.org

National Conservation Lands: Past, present, and future of lands beyond and between National Parks

Beyond and between National Parks lies another conservation jewel: Bureau of Land Management's National Conservation Lands. For 25 years, National Conservation Lands have conserved, protected, and restored nationally significant lands and waters that have outstanding cultural, ecological, and scientific values. This panel brings together retired agency staff, Tribal and conservation leaders, and economic development experts to explore the past, present, and future of this unique and ever-evolving conservation lands system. From Indigenous co-stewardship to rural economic revitalization, the panelists will provide insights as to how National Conservation Lands provide proven solutions for balancing conservation, sustainable recreation, traditional uses, and energy production while delivering local economic value.

Additional people involved in the proposal, if any

Tentative Panelists:

Bob Ratcliffe, BLM and NPS (retired)

Carrie Hamblen, CEO/President, Las Cruces Green Chamber of Commerce

John Leshy, DOI Solicitor (retired) for the BLM and NPS

Hillary Hoffman and/or Charissa Mijessepe-Wilson, Bears Ears Inter-Tribal Coalition

John Todd, Wild Montana

Chris Hill – CEO, Conservation Lands Foundation (facilitating)

Organize an Information-Sharing Session: Invited Papers

Isaiah

Tuolienuo

University of Montana

isaiah.tuolienuo@umontana.edu

Protected Areas and Environmental Justice

This session's presentations explore the intersection of protected areas and environmental justice and ways to promote social and environmental justice. The first three presentations examine local communities' rights over their natural resources, emphasizing the importance of socio-ecological justice, collaborative environmental governance, community agency, ecotourism, and alternative visions as successful strategies for achieving environmental justice. The fourth explores collaborative landscape stewardship and ways to foster inclusion and a sense of belonging among stakeholders. The final presentation provides a synthesis of case studies to illustrate the intricate relationship between protected areas, ecotourism, and environmental justice, and shares lessons for integrating these elements to promote just conservation outcomes

Additional people involved in the proposal, if any

Session co-organizers: Isaiah Tuolienuo and Keith Bosak

1. The Complementary Role of Justice and Social Capital in Influencing Just Outcomes in Resource Conflicts: The Case of the Atewa Range Forest Reserve, Ghana. Presented by Isaiah Tuolienuo, PhD Candidate, W.A. Franke College of Forestry & Conservation, University of Montana
2. Social-Ecological Justice Approach to Ecotourism: Examples from Cockpit Country, Jamaica. Presented by Boo Curry, MS Graduate, International Conservation & Development, W.A Franke College of Forestry & Conservation, University of Montana
3. Drivers and Dynamics of Collaborative Environmental Governance in Chilean Patagonia. Presented by Zac Hummel, MS Graduate, International Conservation & Development, W.A Franke College of Forestry & Conservation, University of Montana
4. Exploring Ways to Foster Belonging and Connection for Collaborative Landscape Stewardship and Environmental Justice. Presented by Shawn Johnson, Director, Center for Natural Resources and Environmental Policy, University of Montana
5. Exploring the Protected Areas, Ecotourism and Environmental Justice Nexus: An Overview and Synthesis of Case Studies. Presented by Keith Bosak, Professor & Chair, Department of Society and Conservation, W.A Franke College of Forestry & Conservation, University of Montana

Present a Paper

Carena

Van Riper

University of Illinois Urbana-Champaign

cvanripe@illinois.edu

Inclusive conservation in the Denali region of Alaska

The success of conservation initiatives often depends on the inclusion of diverse voices in planning and management. However, residents that live around protected areas have not been consistently prioritized in US protected area research and tend to hold relationships with landscapes that differ from tourists and resource managers. This project therefore sought to understand the viewpoints of residents from 10 communities surrounding Denali National Park and Preserve and Denali State Park through a five-year mixed methods project. Our presentation will synthesize results from multiple phases of research including an in-depth discussion forum that revealed multiple values ascribed to Denali landscapes and a longitudinal experiment that documented shifts in preferences for the future as a result of social learning across interest groups.

Additional people involved in the proposal, if any

William Stewart, Emeritus Professor
Department of Recreation, Sport and Tourism, University of Illinois Urbana-Champaign

Devin Goodson, PhD Candidate
Department of Natural Resources and Environmental Sciences
University of Illinois Urbana-Champaign

Riley Andrade, Researcher
US Fish and Wildlife Service

Dana Johnson, PhD Candidate
Institute for Resources, Environment and Sustainability, University British Columbia

Evan Salcido, Postdoctoral Researcher
School of Forest Resources, University of Maine

Rose Keller, Researcher
Norwegian Institute for Nature Research

Participate in the 3MR (Three-Minute Research Competition)

Adalyn

Vergara

University of Montana

av239551@umconnect.umt.edu

Beyond the Average Visitor: Refining Photo Norms for Crowding Perception on the Water

The rising number of visitors to parks and protected areas poses challenges for management in balancing the delivery of high-quality visitor experiences with the preservation of the natural environment. Photo norm evaluations are widely used in outdoor recreation research to assess thresholds and visitor acceptability of experience conditions, yet they often overlook setting-specific and individual characteristics. At Blue Mesa Reservoir in Curecanti National Recreation Area, managers need guidance to adapt to changing visitation and climate. This study refines photo norm models beyond density and the “average” visitor by incorporating 1) setting-specific factors, such as boat amount dispersion, and 2) visitor characteristics that influence perceptions of boater crowding and congestion using a mixed-linear model.

Additional people involved in the proposal, if any

Present a Paper

Adalyn

Vergara

University of Montana

av239551@umconnect.umt.edu

Getting fishy: Using animal-movement theory to predict angler movement on a reservoir

Recreation dynamics in reservoir-based protected areas are growing more complex, requiring adaptive management. While surveys provide insight into visitor experiences, integrating GPS data reveals site-specific patterns, informing strategies for crowding and experience issues during a shifting climate. At Blue Mesa Reservoir in Curecanti National Recreation Area, this study uses surveys, GPS tracks, and animal-movement theory to examine visitor experiences focusing on 1) crowding and congestion, 2) visitor conflicts, and 3) fishery-related impacts. In summer 2024, 308 pre-surveys with GPS-tracked boating routes and 290 post-surveys were collected. Early findings show that commercial use, target species, and angler skill levels shape spatial behavior. Results will further visitor use knowledge to aid data-driven planning for managers.

Additional people involved in the proposal, if any

Adalyn R. Vergara¹, William L. Rice¹, Trevor Ross¹, Jennifer M. Thomsen¹, Hayley Johnson¹, Adyasha Nayak¹, Ashley D'Antonio², Cindy Leary³, and Christopher A. Armatas⁴

¹The University of Montana Department of Parks, Tourism, and Recreation Management

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Present a Poster

Lauren

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North American Marine Protected Areas Network

NAMPAN is a network of resource agencies, Marine Protected Area (MPA) managers, and other relevant experts from Canada, Mexico and the United States. This network aims to strengthen the conservation of biodiversity in critical marine habitats throughout the region and to facilitate transboundary cooperation and information exchange among MPA experts and managers. NAMPAN is coordinated by the Commission for Environmental Cooperation.

Additional people involved in the proposal, if any

NAMPAN Steering Committee members: Jason Boire and Chantal Vis, Parks Canada; Jaime Gonzales Barrera, CONANP; Marisol Hernandez, CONANP; Gonzalo Cid, NOAA; Catherine Boyd Michaud and Lucie Robidoux, CEC

Present a Poster

Brey

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A Rapid Review of Participatory GIS Scholarship Centering Tribal Sovereignty

Participatory Geographic Information Systems (PGIS) offer robust tools for accessing and describing local knowledge with spatial representation. Indigenous perspectives in PGIS are often inconsistently or inadequately represented or entirely absent. We examined literature on Indigenous involvement in PGIS. Included articles (n = 8) highlight data sovereignty protocols, inclusive spatial representation, and the integration of traditional ecological knowledge (TEK) into GIS. Findings suggest Indigenous participation requires methodologies that include oral histories, non-cartographic spatial knowledge, and reciprocal—not extractive—research practices. These insights contribute to a broader understanding of how GIS can identify directions for future scholarship that advance PGIS, research partnerships, and center tribal data sovereignty.

Additional people involved in the proposal, if any

Chris Zajchowski; University of Idaho, Assistant Professor, College of Natural Resources

Nathan Moody; University of Idaho, Instructor, College of Natural Resources

Christopher Armatas; USDA Forest Service, Aldo Leopold Wilderness Research Institute, Social Scientist

Monika Derrien; USDA Forest Service, Pacific Northwest Research Station, Research Social Scientist

Shanny Spang Gion; University of Idaho, Visiting Tribal Scholar, College of Natural Resources

Organize a Core Workshop Session: Presentations + Audience Interaction

Bob

Wick

c/o Conservation Lands Foundation

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The Essential Role of Photographs in Building Support for Conservation: National Conservation Lands Case Study and How-To Discussion

A recent Backpacker Magazine article sums up the importance of images in building recognition of the once underappreciated lands managed by our nation's largest public land steward, the Bureau of Land Management. While the article profiled me — I served for decades as BLM's unofficial photographer — what I primarily want to share with workshop attendees are my experiences in documenting these special places and some techniques anyone can use to take better photos of their special places. First, I will share background on the emergence and growth of the BLM's National Conservation Lands with examples of the integral role of image use in the protection and management of these special places. I will then share tips and techniques for making a good image (including post processing) and making them available & easy for media use. This will be a discussion where participants can bring questions and share their own ideas.

Additional people involved in the proposal, if any

Present a Paper

Clemens

Wilson

The University of Montana - Economics

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Recreational Value and Park Attributes: A Non-Market Valuation Approach

Parks provide numerous benefits to visitors, they can be a valuable input for local community health and recreation. The difficulty is that parks of different varieties and with different attributes provide varying levels of community value. This study aims to understand this dynamic between park attributes and value. Using non-market valuation techniques and big mobility data, this study will quantify which attributes or combination of attributes, namely sports facilities and walking paths/trails, are most valuable to localized communities. Limited park investment resources mean that managers need to identify and expand the park attributes that are most beneficial to park visitors, which might increase visitation and further justify the park's continued existence.

Additional people involved in the proposal, if any

Organize an Information-Sharing Session: Invited Papers

Randall

Wilson

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Teaching About National Parks: National and International Experiences

This session centers on strategies for teaching about national parks and protected areas in both the undergraduate classroom and to the public writ large. How we educate future generations and general audiences about parks and protected areas is critical to ensuring their continued viability in the decades to come. With this in mind, we explore how educators present and explain the role of parks in responding to the impacts of climate change, addressing issues of social and environmental injustice, and conserving both natural and cultural heritage. In this session leading public lands scholars will share their most effective pedagogical strategies and engage with audience members in a robust discussion of how these ideas may be applied to public education and understanding.

Additional people involved in the proposal, if any

Session Co-Organizer is Professor Michael Pretes

Invited Paper Presenters:

1. Prof. Michael Pretes and Lt. Jason Lackey - (not sure of title yet)
2. Prof. Michael Childers - What is the Purpose of the National Parks
3. Prof. Terry Young - Teaching Conservation in Africa
4. Prof. Yolonda Youngs - (not sure of title yet)
5. Prof. Randall Wilson - Frameworks and Ladders

Present a Paper

Randall

Wilson

Gettysburg College

rwilson@gettysburg.edu

Frameworks and Ladders - National Parks and Protected Areas in the College Classroom

At first glance, national parks can seem a rather simple and attractive subject of study for students. They associate parks with beautiful landscapes, recreation or family vacations that render fond memories. But the study of parks can quickly devolve into encyclopedic accounts filled with a litany of facts that quickly overwhelm students (and the general public). This paper articulates an approach using historical and theoretical frameworks to provide context and continuity in class discussions, coupled with “laddering” devices aimed at bringing these rather abstract ideas “to the surface” as relatable individual experiences. These pedagogical strategies help students to gain a better understanding of the importance of public lands as well as the challenges faced by managers related to environmental justice and climate change.

Additional people involved in the proposal, if any

I will be submitting a session proposal with invited papers (forthcoming) and this paper will be one of the invited papers in that proposed session. I am co-organizing that session with Dr. Michael Pretes.

Participate in the 3MR (Three-Minute Research Competition)

Ava

Worbets

Institute for Tourism and Recreation Research (University of Montana)

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Shifting Landscapes: How Recreation-Based Economies Redefine Sense of Place in Trail Communities

This research examines the impact of economic transition on sense of place in five rural Montana communities along the Continental Divide Trail (CDT) that have experienced the decline of traditional industries. The study focuses on how the shift to amenity-based economies influences community identity, stakeholder attachment, and perceptions of tourism and recreation among locals. Using qualitative methods and Erfani's framework of sense of place, the research explores the interplay between individuals, communities, and place. The study aims to contribute to literature on sense of place theory, rural economic transition, and impacts of long-distance trails. It seeks to provide insights for developing strategies that align with community values, promote economic diversification, and preserve local culture in transitioning rural areas.

Additional people involved in the proposal, if any

Present a Paper

Shi

Xue

University of Illinois Urbana Champaign

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Values and ecosystem services shape environmental concern in Alaska, USA

Our research explores how residents in Alaska respond to shifts in climate patterns and the associated changes in three ecosystem services: water yield, carbon sequestration, and sediment retention from 2005 to 2020. By integrating social and ecological data, we aim to understand the factors influencing public perception of global environmental change. We found that biospheric and altruistic values are positively correlated with environmental concern, while eudaimonic values show less sensitivity. Our findings highlight the importance of combining psychological constructs with contextual environmental indicators to better understand the public's response to climate change and inform future conservation efforts. This approach offers insights into sustainable solutions for addressing environmental change.

Additional people involved in the proposal, if any

Organize a Core Workshop Session: Presentations + Audience Interaction

Yonit

Yogev

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DEI in Environmental Stewardship: Past and Present Challenges

Join an informal open discussion on the evolving challenges facing those who want to promote diversity, equity, and inclusion as essential elements of environmental stewardship. My DEI journey began in 2013 when I began researching the National Park Service's history of addressing DEI, its dark history, and slowness to mitigate the systemic racism within the service. As we all are aware, today there is a full-on backlash against DEI. Come share your experiences and insights as we talk about ways we can move forward together.

Additional people involved in the proposal, if any

unknown at this time

Present a Paper

Terence

Young

California State Polytechnic University, Pomona

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Teaching Protected-Area Conservation to "Africa's Potential Leaders"

Students today can enroll in classroom and field courses about protected areas (PAs), but such opportunities are not new. In 1961, the Interior Department launched the African Student Program to “introduce” African students studying at US universities “to the conservation of natural resources.” Initiated by Secretary Stewart Udall, the program offered a curriculum to men deemed “Africa’s potential leaders.” But, while a conservation student today might expect a course to emphasize biogeochemical cycles, biotic communities, and sustainability, when the environmental movement was emerging, Interior’s 5 land-management agencies used PAs to teach utilitarian courses about conserving the natural resources “needed to sustain the American economy and way of life.” My presentation analyzes the ASP’s curriculum, methods and consequences.

Additional people involved in the proposal, if any

Session Co-organizers - Randall Wilson, Gettysburg College & Michael Pretes, University of Northern Alabama.

Present a Paper

Bill

Youngs

Eastern Washington University

jwtyoungs@gmail.com

Making a Difference: Nathaniel Langford and George Wright- National Park Creation and Transformation

Many advances in preserving our natural environment came about because of work by far-sighted individuals. In the case of National Parks, preservation exists partly because of the efforts of such visionaries. I propose to describe the work of two such individuals and highlight features of their work that provide guidelines for modern conservation advances. Nathaniel P. Langford was the foremost publicist for Yellowstone National Park (1872). Today, we might call him an “influencer.” George Melendez Wright created (and financed) a new branch of the National Park Service focusing on park biology, most notably bird protection. Through his writings and by his example, he, too, was an influencer, helping make biological awareness a permanent feature of park management. I will explore the question, what can we learn from them today?

Additional people involved in the proposal, if any

Present a Poster

Bill

Youngs

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National Park Studies at Eastern Washington University

Eastern Washington University is engaged in National Park and sustainability projects at many levels. For example, we have a major new endowment to support National Park studies, a survey history course and research seminar on National Parks, and related courses in many other departments including biology, geology, and literature. The university is engaged in a "Prairie Restoration Project," designed to plant native grasses on a large tract of university-owned Palouse land adjacent to the university. We also have a web site called nationalparkhistory.com.

Additional people involved in the proposal, if any

Present a Paper

Yolonda

Youngs

California State University, San Bernardino

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Teaching Experiential Learning and Field Data Collection in U.S. National Parks and UNESCO Sites

Tracing the impacts of climate change on national park and UNESCO landscapes is of utmost concern in the Anthropocene. Long term environmental monitoring (LTEM) research aims to monitor and document national parks and protected area landscapes for the effects of climate change over time. This paper presents case studies from a national parks course in an environmental studies and geography program that leverages field sites in Grand Teton National Park Wyoming and Channel Islands National Park and UNESCO Biosphere Reserve in California to provide experiential learning opportunities for undergraduate and graduate students. Students engage in an active faculty-led research project, learn field methods, work collaboratively with state and federal land agency researchers and managers, and create public engagement products and events.

Additional people involved in the proposal, if any

I am presenting a paper in an Invited Papers Information Sharing Session titled "Teaching About National Parks" organized by Randall Wilson and Mike Pretes.

Organize a Core Workshop Session: Presentations + Audience Interaction

Alice

Yue

Parks Canada

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Protected Areas: Everything Including the Carbon Sink

Carbon accounting is foundational to developing front-line strategies to protect carbon sinks and enhance carbon sequestration for climate change mitigation in protected areas. While progress has been achieved to reduce emissions from operations (e.g. infrastructure assets and transportation), there remains a knowledge gap on effective approaches and activities for ecosystem carbon. This session will share Parks Canada's ecosystem carbon accounting approaches; policies and directions for conservation and enhancement of carbon sinks and sequestration; and examples of the integration of approaches in park through management planning and restoration activities. Outcomes from the session will help to inform the development of coherent and effective approaches for protected area practitioners.

Additional people involved in the proposal, if any

Trevor Shiomi, Sustainability Manager, Parks Canada

Present a Paper

Chris

Zajchowski

University of Idaho & Idaho Department of Parks and Recreation

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Balancing Prairie Stewardship and Recreation Access

The Palouse Prairie is one of the most threatened ecoregions in North America. We detail the initial two years of conservation and visitor use planning and management efforts at McCroskey State Park, a site with intact prairie remnants. We highlight iterative data collection and experiential learning activities for undergraduate and graduate students guided by the Interagency Visitor Use Management Framework. Activities include interviewing stakeholders, mapping trails, developing interpretative media, planning restoration and travel management alternatives. Park staff, conservation groups, Friends' groups, and others assisted with building the foundation, defining visitor use management direction, and identifying management strategies for balancing prairie preservation and outdoor recreation access.

Additional people involved in the proposal, if any

Mary Engels, Assistant Professor, University of Idaho
Nathan Blackburn, Park Manager, McCroskey State Park
Keith Jones, Natural Resource Manager, Idaho Department of Parks and Recreation

Present a Paper

Chris

Zajchowski

University of Idaho & Idaho Department of Parks and Recreation

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Assessing the Impact of Idaho House Bill 93 on Idaho State Parks

We examine the impacts of Idaho House Bill 93 (HB93), a differential pricing policy introduced in 2021 in response to record Idaho State Park visitation during the COVID-19 pandemic. HB93 prioritized access for Idaho residents by increasing use fees for nonresidents at select state parks. Using visitation data from five demonstration parks, we compared resident and nonresident visitation, duration of stay, and revenue generation before and after implementation. Our analysis reveals a i) 15.3% increase in Idaho resident reservations and a reduction in non-resident reservations, ii) modest increase in duration of visitor stay, and iii) 31.9% increase in revenue generation. However, parks experienced a reduction in total reservations, in one case by 27.1%, raising further questions about demand and substitution effects.

Additional people involved in the proposal, if any

Rebecca Honsinger, Idaho Department of Parks and Recreation
Katherine Lee, University of Idaho
Chelsea Pennick, University of Idaho

Present a Paper

Sharon Suiwen

Zou

University Of Illinois At Urbana-Champaign -

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Recreation Fees in Parks and Protected Area

As parks and protected areas face increasing visitation and funding constraints, effective financial strategies are essential to ensure their long-term sustainability. Drawing on the current literature, we examine the role of recreation fees in managing and sustaining funding for parks and protected areas. This literature review will explore the rationale and debate behind implementing recreation fees and their impacts on accessibility and visitor behaviors. It will also address potential challenges, including equity concerns and public perceptions of fees, as well as providing potential strategies (e.g., messaging, fee structure design) to address these challenges, offering a balanced perspective on how recreation fees can support both conservation efforts and visitor experiences.

Additional people involved in the proposal, if any

Nick Pitas, University of Illinois Urbana-Champaign
Mia (Yanxi) Li, University of Illinois Urbana-Champaign