

## FULL SCHEDULE

### 5-Mar Tuesday (Day 1)

- 8:00 AM Registration, continental breakfast, poster setup
- 8:30 AM Welcome remarks
- 8:40 AM Plenary - Hugh Safford [Using the Past to Prepare for the Future](#)
- 9:10 AM Keynote 1 - Greg Stock [Evaluating the Sierra Nevada's climate future in the context of its geologic past](#)
- Session 1: AIR, WATER, AND SOILS (Cat Fong, moderator)**
- 9:30 AM Session introduction: Cat Fong
- 9:32 AM Joel Burley [Air quality at remote NPS and USFS sites in the Sierra Nevada Mountains: Recent results, current trends, and future challenges](#)
- 9:47 AM Rachel Hallnan [Multi-decadal changes in perennial snowfields of Yosemite National Park](#)
- 9:53 AM Jade Star Lackey [Subduction to sequoias: How Cretaceous magmatism set the vitality and vulnerability of Sierran forest ecosystems](#)
- 9:59 AM Yulissa Perez Rojas [Breathing water: How incoming water quality drives soil microbial respiration and carbon fluxes](#)
- 10:05 AM Q&A
- 10:15 AM Session 1 end
- 10:15 AM break
- Session 2: GIANT SEQUOIA ECOLOGY (Garrett Dickman, moderator)**
- 10:30 AM Session introduction: Garrett Dickman
- 10:32 AM Anthony Ambrose [Novel interactions between drought, fire, and bark beetle attack in giant sequoia trees](#)
- 10:47 AM Garrett Dickman [How to reduce giant sequoia mortality from wildfires](#)
- 11:02 AM Michelle Stantial [Using the constructed value of information \(CVol\) to identify critical uncertainties for managing giant sequoias in the Sierra Nevada](#)
- 11:17 AM Bryant Nagelson [Treatments mediated Castle Fire impacts to the Mountain Home Giant Sequoia Grove](#)
- 11:23 AM Lauren Holzman [A topographic clustering approach to classify sequoia groves into soil moisture classes linked to expected drought stress responses](#)
- 11:29 AM David Soderberg [Assessing giant sequoia mortality and regeneration following high severity wildfire](#)
- 11:35 AM Kristen Shive [Restoring resilience in frequent-fire forests: comparing trends in active management with opportunities to leverage wildfire](#)
- 11:41 AM Q&A
- 11:56 PM Session 2 end
- 12:00 PM Lunch - Campus offerings: food trucks, Pavilion, or Dining Center
- 1:10 PM Afternoon announcements, introduction
- 1:15 PM Keynote 2 – Crystal Kolden [Priorities for wildfire resilience at the intersection of social and ecological systems](#)

**Session 3: PARK MANAGEMENT (Irene Vasquez and Sheri Shiflett, moderators)**

- 1:35 PM Session Introduction: Irene Vasquez, moderator
- 1:37 PM Brent Johnson [Indigenous Knowledge and Land Stewardship in California National Parks](#)
- 1:52 PM Irene Vasquez [Black Oak Tribal Stewardship in Yosemite National Park](#)
- 1:58 PM Scott Stephens [The Stewardship Project: A Partnership of Indigenous and Western Science to Improve Fire Policy](#)
- 2:13 PM Panel discussion - co-stewardship (includes speakers above and Tara Fouch-Moore, Council Secretary and Director of Landscape Stewardship for the Southern Sierra Miwuk Nation; Sandra Chapman, Southern Sierra Miwuk Nation Chairperson; and Jeanine Lomaintewa, Yosemite Ancestral Steward Crew Coordinator and Bishop Paiute Tribal member)
- 2:33 PM break
- 2:45 PM Session Introduction: Sheri Shiflett, moderator
- 2:47 PM Jeffrey Jenkins [Historical trends and recent findings on visitor use patterns and management in response to changing social and climatic conditions at Sierra Nevada national parks](#)
- 3:02 PM Sheri Shiflett [Visitor use monitoring to preserve resources at Yosemite National Park](#)
- 3:08 PM Veronica Dawson [Looking in to look forward: Communicating organizational and human resilience in a changing environment](#)
- 3:14 PM Safeeq Khan [A stakeholder-driven framework for multi-benefit forest management and ecosystem-service valuation in California](#)
- 3:20 PM Joan Dudney [Climate change attribution: can we isolate the effects of warming on complex ecosystems?](#)
- 3:26 PM Ryan Bart [Shaping carbon sequestration policy in the Sierra Nevada with ecohydrological modeling](#)
- 3:32 PM Q&A - management
- 3:45 PM Session 3 end
- 3:45 PM Afternoon break

**Session 4: RESTORATION (Karen Pope, moderator)**

- 4:00 PM Session introduction: Karen Pope
- 4:02 PM Karen Pope [Post-fire process-based meadow restoration in the Sierra Nevada](#)
- 4:17 PM Anna Puchkoff [Tentative: Returning a floodplain to the Merced River in Yosemite Valley](#)
- 4:23 PM Han Guo [Valuing forest restoration for healthier and more resilient forests](#)
- 4:29 PM Melissa Steller [Ackerson Meadow restoration at Yosemite National Park](#)
- 4:35 PM Evan Wolf [Wetland restoration in the Sierra Nevada](#)
- 4:41 PM Q&A
- 4:51 PM Session 4 end
- 5:00-7:00 **Poster Reception & Social (light refreshments will be served)**

**6-Mar Wednesday (Day 2)**

8:00 AM Registration, continental breakfast

8:10 AM Keynote 3 - Christy Brigham [Science and Management Through Droughts, Fires, and Floods. Looking Forward](#)

**Session 5: FOREST DYNAMICS and FIRE (Adrian Das, moderator)**

8:30 AM Session 5 introduction: Adrian Das

8:32 AM Angela White [Collaborative research to inform postfire management and pre-fire planning across the Pacific West under a changed climate](#)

8:47 AM Rut Domenech [California Prescribed Fire Monitoring Program credibility around prescribed fire](#)

9:02 AM Emily Moran [Maladaptation of California conifers, and tools for improving climate-smart seed sourcing](#)

9:17 AM Chad Anderson [Impacts of mega drought in Yosemite's forests: the good news and the bad](#)

9:23 AM Crystal Homicz [The legacy of 21st century tree mortality in the central and southern Sierra Nevada](#)

9:30 AM break

9:40 AM Adrian Das [Post-wildfire patterns in fuel and vegetation across a fire severity gradient in Sierra Nevada conifer forests](#)

9:46 AM Jon Keeley [Fire interval impacts on biodiversity in Sierra Nevada shrublands](#)

9:52 AM John Battles [Threats to the persistence of sugar pine.](#)

9:58 AM Michelle Mohr [Variation in the occurrence of white pine blister rust and mountain pine beetle in Yosemite sugar pine populations](#)

10:04 AM Sarah Bisbing [Increasing the odds of \(forest\) success](#)

10:10 AM Q&A

10:30 AM Session 5 end

10:30 AM break

**Session 6: AQUATIC ECOSYSTEMS (Rob Grasso, moderator)**

10:35 AM Session 6 introduction: Rob Grasso

10:37 AM Mary Jade Farruggia [Wildfire smoke affects Sierra Nevada lake and pond thermal and metabolic regimes](#)

10:43 AM Keith Bouma-Gregson [Identification of Toxigenic Benthic Cyanobacteria in Yosemite National Park](#)

10:49 AM Andrea Heard [Divergent Responses of Western Mountain Lakes to Increasing Nutrients and Temperatures](#)

10:55 AM Steven Sadro [Managing across state and federal boundaries: A case for investing in a climate-vulnerability and resiliency assessment of California's mountain lakes](#)

11:10 AM Kelly Martin [From Valley to Summit: Investigating Copper from Distant Sources in a Remote Alpine Lake Basin of Sequoia National Park](#)

11:16 AM Celia Symons [Zooplankton community responses to interannual climate variation across an elevational gradient](#)

- 11:22 AM Rob Grasso [Restoring Yosemite's Native Aquatic Wildlife](#)
- 11:28 AM Adrienne Smits [Dynamic environment under ice in Sierra Nevada lakes](#)
- 11:34 AM Roland Knapp [Reintroduction of resistant frogs facilitates landscape-scale recovery in the presence of a lethal fungal disease](#)
- 11:49 AM Q&A
- 12:09 PM Session 6 end
- 12:10 PM Lunch - Campus offerings: food trucks, Pavilion, or Dining Center
- Session 7: ALPINE SYSTEMS (Rob Klinger, moderator)**
- 1:30 PM Session 7 introduction: Rob Klinger
- 1:31 PM Elizabeth Siemion [Exploring How the Environment Shapes Predator-Prey Dynamics in the Sierra Nevada Alpine](#)
- 1:37 PM Brian Halstead [Amphibian Response to Precipitation Extremes in the Sierra Nevada: Insights from Long-term Monitoring](#)
- 1:52 PM Mary Clapp [Introduced trout shift the composition of lakeside bird communities at the headwaters of the Sierra Nevada, California](#)
- 1:58 PM Tom Stephenson [Extreme environmental events and transient dynamics shape multiple population trajectories of an alpine ungulate](#)
- 2:13 PM Danny Gammons [Mesocarnivore Occupancy in the Alpine Sierra Nevada](#)
- 2:19 PM Rachel Friesen [Subalpine and Alpine Plant Community Turnover in Yosemite National Park Following 30 Years of Climate Warming](#)
- 2:34 PM Dena Grossenbacher [Change afoot in California's alpine plant communities](#)
- 2:40 PM Rob Klinger [The Gauntlet Hypothesis: How and Where Mammals Regulate Establishment of Conifers in High Elevation Meadows in the Sierra Nevada Mountain Range](#)
- 2:55 PM Roundtable Discussion Session 7
- 3:05 PM Session 7 end
- 3:05 PM break
- Session 8: TERRESTRIAL BIODIVERSITY (Pat Manley, moderator)**
- 3:15 PM Session 8 introduction: Pat Manley
- 3:17 PM Patricia Manley [BFFs and Loners: Compatibility of socio-ecological co-benefits across the Sierra Nevada](#)
- 3:32 PM Bob Wilkerson [Avian response to climate and fire history in national parks of the Sierra Nevada](#)
- 3:47 PM Jennifer Green [Spatiotemporal Responses of American Black Bears to Anthropogenic Disturbance in Yosemite National Park](#)
- 3:53 PM Christian John [Time-lapse cameras reveal fine-scale patterns of plant phenology in the eastern Sierra](#)
- 3:59 PM Michael McGrann [Use of computer algorithms, including the Acoustic Complexity Index and Artificial Intelligence \(BirdNet\), in the interpretation of recordings of the bird community along the Pacific Crest Trail](#)
- 4:05 PM Diana Tataru [Selection and adaptation in natural monkeyflower hybrid zones](#)

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- 4:11 PM Reina Warnert [Modeling the relationship between climate, habitat, fire, and small mammal richness across the California Sierra Nevada](#)
- 4:17 PM Q&A
- 4:27 PM Session 8 end, closing remarks, 4:30 symposium end