

10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)



**Pre-Congress Workshops: Monday, December 4, 8:00am to 5:00pm**

	Spyglass I-II	Oaktree	Big Sur I	Big Sur II	Big Sur III	Cypress I	Cypress II					
8:00am	Measuring wildfire-fuel treatment outcomes at large scales	A collaborative framework for fire, archaeology, and culture history: Past, present, and future	Basic fire behavior modeling with FlamMap	Collaborative, Cross-boundary Strategic Fire Planning for a Changing Fire Environment	Stakeholder consultation workshop on wildfires in Monterey	Learning the Photoload Sampling Technique	Current state of wildfire risk management and solutions to build fire-resilient risk reduction strategies					
12:00pm	Lunch (option to buy boxed lunch \$15 for full day participants)											
1:00pm	Measuring wildfire-fuel treatment outcomes at large scales	A collaborative framework for fire, archaeology, and culture history: Past, present, and future	Advanced topics and geospatial modeling with FlamMap	Collaborative, Cross-boundary Strategic Fire Planning for a Changing Fire Environment	Hands-on activities to teach wildland fire science: The FireWorks Educational Program	Planscape Fire Resilience Planning workshop	CALFIRE Workshop Forest and Wildfire Research Scoping: Needs, Opportunities and a Roadmap					
5:00pm	Welcome Social (Regency Foyer and Terrace)											

**Opening Plenary Session: Tuesday, December 5, 8:00am to 10:00am (Monterey Ballroom)**

8:00am	Welcome and Opening Ceremony
8:30am	Keynote Speakers The Honorable Ron W. Goode, Tribal Chairman of the North Fork Mono Tribe Dr. Rachael Nolan, Senior Research Fellow, Hawkesbury Institute for the Environment, Western Sydney University Dr. Diego R. Pérez-Salicrup, Director, Instituto de Investigaciones en Ecosistemas y Sustentabilidad, Universidad Nacional Autónoma de México
10:00am	Morning Break (Regency Ballroom / Exhibit Hall)

**10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)**

Concurrent Sessions: Tuesday, December 5, 10:30am to 12:00pm							Concurrent Sessions: Tuesday, December 5, 10:30am to 12:00pm						
	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III	Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV	
	Preventing Human-caused Wildfire Ignitions	Extreme Fire Spread Events: Drivers, Outcomes, and Management Considerations	The Role of Seeds in Post-Fire Forest Recovery	Improving Decision Support for Predicting Fire-Caused Tree Mortality	Nurturing Indigenous Fire Stewardship Globally	Interdisciplinary Fire Science and Management in Temperate Rainforests of the Pacific Northwest	Burn Severity	Wildland Urban Interface, Community Preparedness	Fire History and Regimes	Wildfire Management	Fuels Mapping		
	Special Session Organizers: Catrin Edgeley	Special Session Organizers: Jonathan D Coop, Ellen Whitman, Sean Parks	Special Session Organizers: Derek Young, David Green, Andrew Latimer	Special Session Organizers: Sharon Hood, Duncan Lutes, Morgan Varner	Special Session Organizers: Don Hankins, Amy Cardinal Christianson, Frank K. Lake, Mary Huffman	Special Session Organizers: John Kim, Susan Charnley, Jeremy Fried, Becky Kerns	Moderator:	Moderator:	Moderator:	Moderator:	Moderator:		
10:30am	Geospatial assessment of human ignitions Gabe Kohler	Review of the common drivers behind the occurrence of extreme wildfire events around the globe Andrea Duane	Aerial seedbanking as a mechanism for forest resilience to wildfire Derek Young	Postfire tree mortality applications and software systems Sharon Hood	"An Indian seldom does anything except by necessity": Acknowledging a history of Indigenous erasure and racism in fire ecology, and looking toward a more inclusive future Karin L. Riley	Introduction to the Westside Fire and Climate Adaptation Initiative Rachel White	Predicting burn severity in intermountain west forests, Utah USA Kipling Klimas	Incident dynamics illuminated (and obscured) in social media Lise Ann St. Denis	Fire history in northern Sierra Nevada mixed conifer forests across a gradient of soil productivity Michelle Coppoletta	Wildfire management strategy and its relation to operational risk Erin Noonan	Machine learning for sub-meter resolution wildfire fuel estimation from remote sensing imagery Lily Hu		
10:45am	Public perceptions of human-caused wildfire prevention strategies: Tailoring approaches to align with recreation use Sarah Devenport	Weather drivers of extreme fire growth events Brian Potter	Quantifying the seasonal window of aerial seed banking in non-serotinous conifers David F Greene	FOFEM mortality prediction capabilities and what is on the horizon Duncan C. Lutes	Changing fire regimes in East and Southern Africa's savanna-protected areas: opportunities and challenges for indigenous-led savanna burning emissions abatement schemes Abigail R. Croker	A refined understanding of historical fire regimes in the Western Cascades and Oregon Coast Range Andrew Merschel	A scalable framework for evaluating treatment effectiveness at moderating burn severity Garrett Meigs	Best practices for using wildfire visualizations with different audiences William Cannon	Higher, drier, more fire? Management targets for Eastern Sierra Nevada forests Paige Kouba	Coupled natural and institutional systems: A twenty-year study of the changing institutional complexity of wildfire Branda L Nowell	Application of multimodal data, generative ai, and ensemble machine learning models for real-time wildfire fuel mapping Riyaz Shaik		
11:00am	Current challenges and opportunities for the fire prevention workforce: Insights from the Southwestern US Catrin Edgeley	Critical fire weather conditions during active fire spread days in Canada Xianli Wang	Built-in resilience? Testing mechanisms of conifer seed availability within infrequent, stand-replacing fire regimes of the northwestern Cascades, USA Madison Laughlin	Integrating drought stress into empirical models and decisions support systems predicting fire-induced tree mortality C. Alina Cansler	Braiding knowledges to reconstruct human-fire relationships in Maine Madi Landrum	Inventory analysis of post-fire vegetation and fuels trajectories in westside Pacific Northwest forests Oriana Chafe	Using the Landsat archive to create a comprehensive assessment of burn severity within the conterminous United States Joshua J. Picotte	Mitigate the impacts of extreme wildfires in companies: development of a scale to measure preparedness Fernando Jorge Martins Correia	Fire history of a former eastern white pine, pitch pine, and American chestnut forest on the Allegheny Plateau in northwest Pennsylvania, USA Joseph M. Marshall	Integrated application of wildfire risk modeling and Potential Operational Delineations (PODs) to support the spatial treatment strategy of a wildland fire collaborative Scott Ritter	Fuel types mismatch forest structure and composition in interior British Columbia Jen Baron		
11:15am	Declaration on wildfire management in Spain Kathleen Uyttewaal	Fine-scale weather, fuel, topography, and human drivers of explosive fire spread in California Michael J. Koontz	Fire injury modifies the reproductive output of surviving conifers within fire footprints Nina Venuti	Summary and Future Research Needs J. Morgan Varner	Restor(y)ing Hat Creek Valley: Fire histories and futures in Sluwxwéwsemcú'ecw Arial Eatherton	Spatial patterns of burn severity and early-post-fire forest responses in Northwestern Cascadia Brian J. Harvey	Mapping individual tree mortality to predict burn severity within Creek Fire using high-resolution imagery and deep learning Pratima Khatri-Chhetri	The road to private burning Rich Fairbanks	Postglacial climate-vegetation-fire interactions in the western Cascades of southern Washington and Oregon William "Buzz" Nanavati	Working across private boundaries to address wildfire risk: Insights from communities in Yavapai County, AZ Jack Burnett	Capturing vegetation structure from waveform lidar for fire and fuels applications Birgit Peterson		
11:30am	Involving our most vulnerable populations: People experiencing homelessness Chelsea Young	Weather thresholds for overcoming fuel limitation of fire spread in recently burned areas Ellen Whitman	Seed dispersal capacity and the size of severely burned patches David Greene	Panel Discussion	Blending knowledge to quantify cultural burning spatial and temporal patterns on Karuk Ancestral Territory Skye M. Greenler	The influence of socioeconomic factors on human wildfire ignitions in the Pacific Northwest, USA Caitlyn Reilly	Question/Answer and Discussion with All Presenters	Marin County evacuation risk assessment study Tami L. Lavezzo	Natural range of variation and its relevance to contemporary management of fire-adapted forest ecosystems John Williams	Using random forest models to estimate firefighting personnel needs within the United States Kevin S. Young	Creating wildfire resilient forest structures through mechanical thinning using two aerial lidar based tools Bryce Bart-Geller		
11:45am	Question/Answer and Discussion with All Presenters	Drivers and patterns of fire spread in North American landscapes Jared Balik	Mapping surviving trees to improve predictions of post-fire regeneration Andrew Latimer		Indigenous fire restoration in the face of climate change: applications from Karuk Territory Kari Marie Norgaard	Management for fuels and wildfire risk reduction by private and public forest managers Eric White	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters		
12:00pm	Poster Session and Exhibitors Lunch: Join us for lunch with poster presentations and networking with exhibitors (Regency Ballroom / Exhibit Hall) Central Coast Indigenous Culture and Art Showcase, 12pm to 4pm (Regency Foyer and Terrace) BLM Fire Ecologists Meeting, 12:30pm to 2:00pm (Windjammer IV)						Poster Session and Exhibitors Lunch: Join us for lunch with poster presentations and networking with exhibitors (Regency Ballroom / Exhibit Hall) Central Coast Indigenous Culture and Art Showcase, 12pm to 4pm (Regency Foyer and Terrace) BLM Fire Ecologists Meeting, 12:30pm to 2:00pm (Windjammer IV)						

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Concurrent Sessions: Tuesday, December 5, 2:00pm to 3:30pm							Concurrent Sessions: Tuesday, December 5, 2:00pm to 3:30pm						
	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III	Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV	
	Post-Fire Community Recovery: Research on the Social and Policy Contexts That Facilitate Response and Readiness	Extreme Fire Spread Events: Drivers, Outcomes, and Management Considerations	The Role of Seeds in Post-Fire Forest Recovery	Improving Decision Support for Predicting Fire-Caused Tree Mortality	Nurturing Indigenous Fire Stewardship Globally	Interdisciplinary Fire Science and Management in Temperate Rainforests of the Pacific Northwest	15 Years of Sagebrush Steppe Treatment Evaluation Project (SageSTEP)	Modeling and Simulations, Fuels	Fire History and Regimes, North America	Education and Communication	Fuel Treatment Planning		
	Special Session Organizers: Courtney Schultz and Briar Goldwyn	Special Session Organizers: Jonathan D Coop, Ellen Whitman, Sean Parks	Special Session Organizers: Derek Young, David Green, Andrew Latimer	Special Session Organizers: Sharon Hood, Duncan Lutes, Morgan Varner	Special Session Organizers: Don Hankins, Amy Cardinal Christianson, Frank K. Lake, Mary Huffman	Special Session Organizers: John Kim, Susan Charnley, Jeremy Fried, Becky Kerns	Special Session Organizer: Lisa M. Ellsworth	Moderator:	Moderator:	Moderator:	Moderator:		
2:00pm	Introduction and Policy Overview Courtney Schultz	Mass fire behavior created by extensive tree mortality and high tree density not predicted by operational fire behavior models in the southern Sierra Nevada Brandon Collins	Obstacles to post-fire regeneration of serotinous lodgepole pine in the wake of pine beetle outbreaks Chuck Rhoades	The 60-degree for one minute mortality threshold: Where did it come from, is it real, and should we use it? Leda Kobziar	Indigenous fire stewardship & climate-forests adaptive capacity Frank Kanawha Lake	Variation in cross-boundary wildfire management across Pacific Northwest ecoregions Susan Charnley	2:00pm A history of the Sagebrush Steppe Treatment Evaluation Project (SageSTEP) Beth Newingham	Simulating aspen influence on landscape and wildfire dynamics in British Columbia's Southern Okanagan Highlands Jocelyne Laflamme	How do fire intervals scale with area? Observations and implications for fire ecology Chris Guiterman	Wildfires - impact of climate change - film and high school curriculum Trevor Bloom	Constraints on mechanical fuel reduction treatments in USFS Wildfire Crisis Strategy priority landscapes George Woolsey		
2:15pm	Policy challenges and opportunities in the post-fire environment: Lessons from Colorado Clint Carney	Pyroclouds modification of convective boundary layer promotes extreme wildfire events intensification Marc Castellnou Ribau	Role of seeds following wildfire for giant sequoia and coast redwood Robert Van Pelt	A temperature-dependent process model of leaf necrosis by heat Kate Fuller	Reconciliation through Fire Management in Banff National Park Jane Park	Evaluating fire resistance trends in forests of western Cascadia Jeremy Fried	2:15pm Plant community shifts following fuel treatments and subsequent wildfire Brian Howard	Reliability of digital resources for planning fuels treatment to break the cheatgrass-fire cycle: 1000 points of inference from two contrasting National Parks reveals importance of field-based assessments Samuel "Jake" Price	Quantifying multivariate fire-regime departure across western US wilderness areas Jeffrey Chandler	Igniting curiosity through the Fire Ecology Learning Lab Cole Brant	Guiding strategic planning on US Forest Service landscapes with simulation modeling and risk assessment principles Don Helmbrecht		
2:30pm	Multiple jurisdictions and post-fire policy: Response and recovery following the 2022 Hermit's Peak/Calf Canyon Wildfire in New Mexico Cole Buettner	Evaluating temporally rich fire data to determine the influence of fire dynamics for coupled atmospheric fire behavior modeling Eric Rowell	Recruitment dynamics of aspen and conversion of boreal conifer stands to alternative states Jill F. Johnstone	Impacts of prescribed fire on drought vulnerability of ponderosa pine and Douglas-fir Charlotte Reed	Degradation and restoration of Indigenous California black oak stands in the northern Sierra Nevada Scott Stephens	Fire resistance and carbon sequestration prospects in westside Oregon and Washington forests under business-as-usual and fire-aware management. Sebastian Busby	2:30pm Ground spider response to prescribed fire in sagebrush steppe James McIver	Spatial variations in forest ignitability in a topographically diverse landscape Jane Cawson	The geography of historical fire-climate relationships in North America Ellis Margolis	Effectiveness of a virtual reality tour for increasing understanding of forest treatments for fire hazard reduction in the Stanislaus-Tuolumne Experimental Forest, California Alan H. Taylor	Fuel Management Suitability Tool: Advancing resilient wildfire management practices through flexible decision support and local information Amelie Jeanneau		
2:45pm	Wildfire recovery and governance: Local government and nonprofit networks supporting community recovery in western Oregon Heidi Huber-Stearns	Using next-generation fire model to gain insight into fire phenomenology Rod Linn	Give seeds a chance: Opportunities and techniques to reestablish ponderosa pine forests using postfire direct seeding Marin Chambers	Estimating heat tolerance of buds in southeastern US trees in fire-prone forests Adam Coates	We are fire: Indigenous fire practices in the Saskatchewan River Delta (Canada) Renée Carrière	Mid-21st century shifts in fire regimes of Pacific Northwest Westside forests due to future climate change Alex Dye	2:45pm Prescribed fire management of woodland expansion and the effects on Great Basin songbird nest-site selection Jessica A. Pletcher	Forests without fire: Fire suppression effects on dry forest fuels Mike Stefanuk	A gridded dataset of historical fire activity for North America Chris Guiterman	Fire & the media: An insider's perspective on how to improve public understanding of fire ecology Maura R. O'Connor	Direct and indirect effects of California's Million Acre Strategy Carrie Levine		
3:00pm	The roadmap to resilience: Building partnerships at all scales to deploy place-based solutions Alexandria Keeble-Toll and Alessandra Zambrano	Extreme fires in Australia: Recent advances Trent Penman	Mind the gap: Reforestation needs vs. reforestation capacity in the western U.S. Solomon Dobrowski	Simulating 3D crown scorch with a computational fluid dynamics wildland fire simulator Adam Atchley	The global fire use survey Cathy Smith	Modeling present and future wildfire impacts to communities in PNW using wildfire simulation output John B. Kim	3:00pm Fuel treatment effects on hydrology C. Jason Williams	Leveraging field and remotely sensed data to assess the vulnerability of lower ecotone aspen stands Sofia Koutzoukis	A multi-century perspective reveals a pervasive fire deficit across most of North America Sean Parks	Understanding forest activists' critiques of thinning and burning for fuels reduction Timothy Ingalsbee	Estimation of hazardous fuel treatment costs on national forests using the FACTS database Rachel M. Houtman		
3:15pm	Panel Discussion	Harnessing spatial scaling relationships to inform expected future spatial patterns of burn severity across fire size distributions Michele S. Buonanduci	Got seeds? Strengthening the reforestation pipeline in the western United States Matthew Aghai	Panel Discussion	Question/Answer and Discussion with All Presenters	Panel Discussion	3:15pm The SageSTEP datastore: Opportunities for collaboration using long-term data and plot infrastructure Scott E. Shaff	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters		
3:30pm	Afternoon Break, Regency Ballroom / Exhibit Hall						Afternoon Break, Regency Ballroom / Exhibit Hall						

## 10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)

Concurrent Sessions: Tuesday, December 5, 4:00pm to 5:30pm							Concurrent Sessions: Tuesday, December 5, 4:00pm to 5:30pm						
	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III	Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV	
	<b>Post-Fire Community Recovery: Research on the Social and Policy Contexts That Facilitate Response and Readiness</b>	<b>Extreme Fire Spread Events: Drivers, Outcomes, and Management Considerations</b>	<b>Post-fire Tree Mortality</b>	<b>Fire and Soils</b>	<b>Nurturing Indigenous Fire Stewardship Globally</b>	<b>Wildfire Risk and Prediction</b>	<b>15 Years of Sagebrush Steppe Treatment Evaluation Project (SageSTEP)</b>	<b>Modeling and Simulations, Prescribed Fire</b>	<b>Wildland Urban Interface, Defensible Space</b>	<b>Workforce Development and Next Generation</b>	<b>Prescribed Fire</b>		
	Special Session Organizers: Courtney Schultz and Briar Goldwyn	Special Session Organizers: Jonathan D Coop, Ellen Whitman, Sean Parks	Moderator:	Moderator:	Special Session Organizers: Don Hankins, Amy Cardinal Christianson, Frank K. Lake, Mary Huffman	Moderator:	Special Session Organizer: Lisa M. Ellsworth	Moderator:	Moderator:	Moderator:	Moderator:		
4:00pm	Introduction and Key Points from Session 1 Briar Goldwyn	Connecting fuels and weather to fire impacts in the 2020 Creek Fire C. Alina Cansler	Factors affecting tree and stand-level mortality in coast redwood forests following large wildfires Jeff Kane	Post-fire black carbon input alters vegetation recovery and ecological stoichiometry in boreal forests of China Xu Dou	Stewardship Action for Climate Resilience Scott Stephens and Don Hankins	Temporal downscaling of climate data for use in existing wildland fire analysis software Andrew Beavers	Using gap intercept data to understand fuel continuity and ecosystem recovery after fire Beth Newingham	Next-generation fuels and fire models to inform prescribed fire in a type-converted ponderosa pine forest Andreas Wion	Modeling factors associated with wildland firefighter assessment of structure defensibility Alex Heeren	Training the next generation of firefighters and fire practitioners Bradley Massey	Assessing FOFEM duff consumption predictions for frequently burned forests in Alabama, USA Julia DeFeo		
4:15pm	Synthesis of stakeholder perspectives on post-fire consequences across jurisdictions for the 2021 Cedar Creek and Muckamuck Fires in Washington Briar Goldwyn	Burn severity and landscape outcomes of extreme fire spread events in the southwestern United States. Jessica McFarland	Does localized or stand-level forest structure influence giant sequoia mortality from wildfire? Linnea Hardlund	Digging deeper into soil carbon and nitrogen: How resilient is the belowground ecosystem to fire? Jessica R. Miesel	The right to burn Don L. Hankins and Amy Cardinal Christianson	Assessing new methodologies for accurate small scale ignition prediction in Bexar County, Texas Robert McGonagle	What happens when fuel treatments burn? Claire Williams	3D fuel and fire modeling with FastFuels and QJIC-Fire: new systems supporting prescribed fire Russ Parsons	Assessing structural damage caused by WUI fires in California using geospatial datasets Maryam Zamanialaei	Imagining beyond suppression: A firefighter's journey from wildland fire use to prescribed fire mentor Michael Beasley	Restoring and conserving coastal perennial bunchgrass grasslands in Marin County by reintroducing fire as a disturbance: An overview of a project using multiple approaches N. Brian Peterson		
4:30pm	Exploring the influence of home insurance on recovery trajectories after the 2021 Marshall Fire Catrin Edgeley	Examining the drivers of dry conifer forest resilience to extreme wildfire events Amy DeCastro	Emergency responses reduce giant sequoia mortality during wildfires, and how to prevent emergency responses Garrett Dickman	Soil microbial responses to fire-induced heating Elena Cox	Western forest landscapes need fire opportunity zones Malcolm North	Using artificial intelligence and remote sensing for the early detection of forest fires Christopher Shatto	Ecological resilience and invasion resistance indicators for prioritization and management in fire prone sagebrush ecosystems Jeanne C. Chambers	Wind regime analysis for modeling of prescribed fire scenarios Seth Bigelow	Wildfire mitigation influence on fuels and flora in the California home ignition zone David Benterou	Igniting resilient futures: A mixed-methods study engaging young generations to envision their fire involvement Meredith Jacobson and Kyle Trefny	Expanding prescribed burning on city owned wildlands in Chico, California Zeke Lunder		
4:45pm	What does recovery look like? Early findings from post-fire recovery in communities of northern California and southern Oregon Catriona Barr	Deconstructing the 'megafire': Trends and ecological outcomes of exceptionally large wildfires in California forests Gina Cova	Tree growth declines more following the first fire than subsequent fires after long-term fire exclusion Kevin Willson	Prescribed burning shifted the diver of biodiversity by reshaping the nutrient limitation Yu Han	Reframing Environmental Regulation for Stewardship Sara Clark	Artificial intelligence-driven high-resolution wildfire monitoring Kasra Shamsaei	Scaling treatments to landscapes Matt Reeves	ABAM: A decision support tool to guide prescribed fire in Northern Great Plains grasslands Amy Symstad	Examining barriers to mitigating property-level wildfire risk across different communities in California, USA Christian R Tensuan	Fire and forestry workforce barriers for justice impacted individuals in California Harrison Raine	Can prescribed fire untrammel Wilderness? Barriers and opportunities for Wilderness fire management in an era of change Jonathan Coop		
5:00pm	Fire resiliency in the Arroyo Seco through restoration and recovery actions Wendy Katagi	Characteristics and implications of burn severity heterogeneity from large fires in Northwestern Cascadia Brian J Harvey	Disturbance effects on tree level resistance in ponderosa pine trees along the Colorado Front Range Kelby Woodard	Monitoring impacts of climate-driven wildfires on soils: Landowners have a role to play Mercedes M. Ondik	Re-kindling a Next-generation Stewardship Workforce J. Morgan Varner	Wildland Fire Potential Index: New inputs and features Christopher Woody	Assessing wildfire risk and mitigation opportunities in the sagebrush biome Karen C. Short	The Innovation Landscape Network Concept Kevin Hiers	Impact of home and lot characteristics on structure survival during a wildland-urban interface wildfire Erica Fischer	Scaling the prescribed fire workforce through higher education Eli Goodsell	Prescribed fire windows in north-central California: How climate change and increased wildfire activity is influencing the annual number of burn days Christina Fossum		
5:15pm	Panel Discussion	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	The future of SageSTEP: A model for research, outreach, teaching, and monitoring Lisa M. Ellsworth	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters		
Evening	5:30pm to 6:00pm: Book Signing with Maura O'Connor, 1st floor Conference Center 6:00pm to 7:00pm: FUSEE Information Gathering, Spyglass I (open to all) 6:00pm to 8:00pm: North American Tree Ring Fire Scar Network/Powell Group Meeting, Windjammer IV 8:00pm to 11:00pm: AFE Dance Party, Monterey Ballroom						5:30pm to 6:00pm: Book Signing with Maura O'Connor, 1st floor Conference Center 6:00pm to 7:00pm: FUSEE Information Gathering, Spyglass I (open to all) 6:00pm to 8:00pm: North American Tree Ring Fire Scar Network/Powell Group Meeting, Windjammer IV 8:00pm to 11:00pm: AFE Dance Party, Monterey Ballroom						

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### Fire AFEx Plenary Session: Wednesday, December 6, 8:00am to 10:00am (Monterey Ballroom)

8:00am	Welcome Back and Announcements Fire AFEx Talks (8 Speakers)
10:00am	Morning Break (Regency Ballroom / Exhibit Hall)

### Concurrent Sessions: Wednesday, December 6, 10:15am to 11:45am

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	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III		Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV
	<b>Taking Action to Reduce Forest and Community Vulnerability to Fire</b>	<b>Advances and Applications of Wildfire Risk Management Science</b>	<b>Fire and Wildlife</b>	<b>Using Fire Acoustics to Remotely Sense Wildland Fires</b>	<b>Indigenous Fire Resurgence in California: Research, Praxis, and Collaboration</b>	<b>Prescribed Burn Associations: Burning Down Boundaries and Creating Access to Good Fire</b>		<b>Fire in the Sonoran Desert</b>	<b>Disturbance Interaction</b>	<b>Post-fire Recovery</b>	<b>Fuel Treatment Effectiveness</b>	<b>Wildfire, Fire Effects</b>	
	Special Session Organizers: Jamie Peeler, Kimberley Davis, Tyler Hoecker, Kerry Metlen, Svetlana Yegorova	Special Session Organizer: Matthew P. Thompson	Moderator:	Special Session Organizer: Kara M. Yedinak	Special Session Organizers: Tony Marks-Block, Peter Nelson, Melinda M. Adams, Don Hankins, Frank K. Lake	Special Session Organizers: Alison Deak, Chris Adlam, Jared Childress, Barb Satink Wolfson, Lenya Quinn Davidson		Special Session Organizers: Mary Lata and Molly McCormick	Moderator:	Moderator:	Moderator:	Moderator:	
10:15am	A framework for understanding forest and community vulnerability to fire: Exposure, sensitivity, and social adaptive capacity Jamie Peeler	Introduction Matthew P. Thompson	Earthworm abundance and diversity under varying fire regimes in a Guinean savanna (Côte d'Ivoire) Armand W. Koné	Introduction Kara M. Yedinak	Realigning Indigenous fire in California Don L. Hankins	The PBA movement in California Lenya Quinn-Davidson	10:15am	Human influences on fire regimes in the Sonoran Desert: Introduced species, climate change, and ignition patterns Mary Lata	Land fragmentation promotes tropical forest fires but decreases global burned area Simon P.K. Bowring	Pre to post-fire plant communities following extreme wildfires in Colorado Camille Stevens-Rumann	Forest restoration and fuels reduction work: Different pathways for achieving success in the Sierra Nevada Scott Stephens	On the path to resilience: post-wildfire fuel accumulation and overstory structural changes in mixed-conifer forests Jessica Miesel	
10:30am	Projecting climate-driven and fire-facilitated forest transitions for the state of Oregon Svetlana Yegorova	PODs on fire: Enhancing analytics for use before, during, and after fire Kit O'Connor	Fire-driven animal evolution Gavin Jones	Identifying chemical constituents originating from crackling plant leaves Duncan D. Smith	Rekindling culture and fire: CIBA's statewide program to bring fire back to basketweaving gathering sites Carolyn Smith	Cultural fire practitioner and Prescribed Burn Association partnership Tom Little Bear Nason	10:30am	Repeat photography and the long-term effects of Sonoran Desert wildfire Jim Malusa	Dead tree removal after drought mortality increases understory plant diversity in a mixed conifer forest Quinn M. Sorenson and Rebecca Wayman	Impact of climate on long-term post-fire forest regeneration Mark Kreider	How are fuel profiles affected by treatment type and intensity ~15 years following fuel treatments? Don C. Radcliffe	Managed wildfire promotes native plant diversity and fuels reduction in California's Sierra Nevada Wilderness Areas Raphaela E. Floreani Buzbee	
10:45am	Anticipating fire-driven transformation of conifer forests and pathways for stewardship Tyler Hoecker	Suppression workload analysis Erin J Belval	Effects of wildfire burn severity on cavity-nesting bee and wasp habitat and community composition Alaina Smith	Measurements of acoustic emissions from the flow field of diffusion flames Shane V. Lympny	Fire as tool: opportunities, challenges, and transformations in narratives about Indigenous burning Ghaleb Attrache	Prescribed Burn Associations: Burning down boundaries and creating access to good fire Kate Wilkin	10:45am	Invasive grasses and the changing climate and fire regime of the Sonoran Desert F. Jack Triepeke	More fuel for the fire? Bark beetle and fire synergisms in the Cascadia region of North America Holden Payne	Ecological indicators of slow, post-fire stand development may illuminate future effects of reduced forest resilience Andres J. Andrade	Managing shrub encroachment with mechanical mastication: impacts on vegetation structure and composition Jamie Burton	Assessing landscape change from individual and cumulative wildfire in North-Central Washington with structural change detection Derek Churchill	
11:00am	Shifting social-ecological fire regimes explain rapidly increasing home and structure loss from Western wildfires Philip Higuera	Mapping spatial and temporal dynamics of major and extreme wind events in the Western US Rebecca Lemons	A Bumble where it should not "Bee": Prescribed fire and Bombus fraternus in Virginia Jennifer Weber	Modeling the sound of fire Jesse Canfield	Native sovereignty, leadership and relations in good fire ecosystem management Carlie Domingues, Dennis Martinez	PBAs burning with ranchers Bob Larson and Jared Childress	11:00am	Fire in Sonoran Desert scrub communities: Synthesized information from the Fire Effects Information System Kris Zouhar	Are current fire dynamics in temperate forests signaling a novel fire regime? Leonardos Leonardos	Dozer line impacts to post-fire vegetation recovery Kristen M. Kaczynski	Understory vegetation response to fuels reduction treatments in the Jemez Mountains, New Mexico Meagan Dreher	Wildfire catalyzes upward range expansion of trembling aspen in southern Rocky Mountain beetle-killed forests Katie Nigro	
11:15am	Identifying hot spots for reducing the risk of wildfire-caused carbon loss in western US conifer forests Jamie Peeler	Measuring the impacts of US Forest Service Wildfire Crisis investments Dave Calkin	Wildfire and management effects on bee fitness and diet breadth Jessie Dodge	Passive acoustic applications in wildland fire sciences Brian Carpenter	Panel Discussion	Panel: Questions from moderator and audience about PBAs	11:15am	Changes and challenges in the management of fire in the Sonoran Desert Nick Castro	A wicked triad: Expanding WUI, fuels build up, and rapid climate change Andrea Thode	Modeling post-fire vegetation recovery in the Inland Northwest with time series of multispectral satellite imagery Madeline Franz	Restoring resilience in frequent-fire forests: comparing trends in active management with opportunities to leverage wildfire Kristen Shive	An imprint of fire: Variation in plant communities across two Alaskan landscapes Sarah Stehn	
11:30am	Panel Discussion		Question/Answer and Discussion with All Presenters				Seismo-acoustic observations of a prescribed burn Omar Marcillo	11:30am	Quality control and analysis of fire effects data for Southern Arizona National Parks Eva Deegan	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters
11:45am	Lunch (with option to buy boxed lunch \$15 served in Regency Ballroom) AFE Member and Community Lunch, Regency Ballroom / Exhibit Hall Student Lunch with SAFE and FireGeneration Collaborative CDFW Training and Lunch, Windjammer IV						11:45am	Lunch (with option to buy boxed lunch \$15 served in Regency Ballroom) AFE Member and Community Lunch, Regency Ballroom / Exhibit Hall Student Lunch with SAFE and FireGeneration Collaborative CDFW Training and Lunch, Windjammer IV					

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Concurrent Sessions: Wednesday, December 6, 12:45pm to 2:15pm							Concurrent Sessions: Wednesday, December 6, 12:45pm to 2:15pm						
	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III	Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV	
	<b>Taking Action to Reduce Forest and Community Vulnerability to Fire</b>	<b>Advances and Applications of Wildfire Risk Management Science</b>	<b>Fire and Insect Interactions in North American Forests</b>	<b>Fire and Smoke Model Evaluation Experiment (FASMEE) findings and updates</b>	<b>Indigenous Fire Resurgence in California: Research, Praxis, and Collaboration</b>	<b>Tackling Diverse Fire Challenges through Science-management Collaborations</b>	<b>Fire in the Sonoran Desert</b>	<b>Wildfire Management</b>	<b>Post-fire Regeneration</b>	<b>Changing Fire Regimes</b>	<b>Prescribed Fire, Fire Effects</b>		
	Special Session Organizers: Jamie Peeler, Kimberley Davis, Tyler Hoecker, Kerry Metlen, Svetlana Yegorova	Special Session Organizer: Matthew P. Thompson	Special Session Organizers: Christopher J. Fettig, Michael D. Ulyshen, Justin B. Runyon	Special Session Organizer: Adam Watts	Special Session Organizers: Tony Marks-Block, Peter Nelson, Melinda M. Adams, Don Hankins, Frank K. Lake	Special Session Organizers: Adriana Ford and Abigail Croker	Special Session Organizers: Mary Lata and Molly McCormick	Moderator:	Moderator:	Moderator:	Moderator:		
<b>12:45pm</b>	Navigating post-fire vegetation transitions with the resist-accept-direct framework Kimberley Davis	Debiasing decisions in real time - the incident strategic alignment process in the US Brad Pietruszka	Like flies to a flame: Flying insect responses to wildfire in a globally rare landscape Heather M. Thompson	Overview of the Fire and Smoke Model Evaluation Experiment (FASMEE) Adam Watts	Amah Mutsun revitalization of Indigenous cultural burning systems in Central California Rob Q. Cuthrell	Socio-economic incentives leading to wildfires, a Sicilian case study Erika Piroli	<b>12:45pm</b> The desert's changing edge: Grassification and the expansion of fire in the desert Benjamin T. Wilder	Washington's 20-Year Forest Health Strategic Plan: The first five years of plan implementation Andrew Spaeth	Drivers of survival in planted tree seedlings after wildfires in Colorado Laura Marshall	Wildfire patterns in Texas: A spatial and temporal analysis Hari Katuwal	Prescribed fire seasonality and frequency effects on Tallgrass Prairie plant diversity Tom Bragg		
<b>1:00pm</b>	Identifying opportunities for cultural burning in CA and beyond to advance national stewardship goals Nina Fontana	An optimization framework for landscape fuel-break prioritization in Southern California Dung Nguyen	Responses from bees, butterflies, and ground beetles to different fire characteristics: A global meta-analysis Stephen Mason	Multi-scale modeling and mapping of fuel loads and consumption Andrew T Hudak	Preserving tribal heritage and cultural resource sites with fire Peter Nelson	Translating fire: barriers to implementation of ecological science-based fire management policies Jordan Thomas	<b>1:00pm</b> Mapping predicted social-ecological fire resilience and vulnerability across the Sonoran Desert, Arizona, USA Martha Sample	Integrated fire management in Europe; the pioneering Fire Management Plan of the Aran, Pyrenees Jordi Oliveres Solé	Impact of seasonal-to-annual climate on post-fire regeneration of western larch Spencer Vieira	The forest structure of Emet and Domanic Region in Turkey and the relationship with fire Ali Telli	Linking burn severity with post-fire oak recovery in a Southern California foothill prescribed fire Kalli Brande		
<b>1:15pm</b>	Fostering community-led fire/fuels management and monitoring for diverse objectives Monique Wynecoop	Assessing the Risk Management Assessment (RMA) dashboard use in wildfire response Melanie Colavito	Wildfire severity influences offspring sex ratio in a solitary bee Jim Rivers	Restoring aspen using high severity fire in the Rocky Mountains, USA: Soil heating and sucker regeneration. Jesse Kreye	Indigenous Fire Knowledge, Research, Governance, and Data Sovereignty Frank Lake	TBD	<b>1:15pm</b> A floristic inventory of the 2021 Telegraph Fire in the Sonoran Desert Brittany Burgard	Igniting connections for natural and cultural resource protection before and during wildland fires in southern California Austin Parker	How well can we predict long-term post-fire forest recovery from short-term post-fire data? Claire Tortorelli	The current role of fire across border piñon (Pinus discolor) distributions in the Madrea Sky Islands Sandra L. Haire	Scorched and torched: UAS-based evaluation of individual tree prescribed fire effects Lauren Lad		
<b>1:30pm</b>	Efficacy of fuel mitigation treatments in the dry forests of British Columbia Lori Daniels	A decision framework for incident management Stephen D. Fillmore	Wildfire and forest thinning shift floral resources and nesting substrates to impact native bee biodiversity in ponderosa pine forests of the Colorado Front Range Ryleigh V. Gelles	Bacterial emission factors: A foundation for the terrestrial-atmospheric modeling of bacteria aerosolized by wildland fires Leda N. Kobziar	Karuk Fire Sovereignty and the TEK Rush Bruno Seraphin, Vikki Preston, and Jessica Conrad	TBD	<b>1:30pm</b> Fire effects on wildlife populations in the Sonoran desert: Knowns and unknowns Jesse S Lewis	A 3-D approach to fire management for biodiversity conservation Byron Lamont	Drought conditioning three conifer species for post-fire management and climate change adaptation Anna Ross	Climate-growth analyses reveal challenges for aspen forests in the southern Rocky Mountains Gabrielle Ayres	What is the optimal timing for introducing prescribed fire to pine plantations? Eric Knapp		
<b>1:45pm</b>	A path to fire adaptation at pace and scale Kit O'Connor	Prioritizing critical fire management features and restoration in a forested landscape Rebecca Weber	Factors influencing the effects of fire on insect pollinators in North America Michael Ulyshen	FireSense: Updates from the FASMEE field campaign Jacquelyn K. Shuman	Drawing from Karuk World Renewal: Summoning cultural fire with graphic illustrations Kirsten Vinyeta	TBD	<b>1:45pm</b> The immediate response of Sonoran species to a June fire: Species shifts and implications for future fire behavior and effects Mary Lata	Factors contributing to post-fire conifer regeneration persistence in the 2021 Dixie Fire Dani Niziolek	Environment, fire, and drought shape stand structure in south-east Australian forests and woodlands Kate Fuller	Efficacy of prescribed fire as a fuel reduction treatment in the Colorado Front Range Kat Morici			
<b>2:00pm</b>	Panel Discussion	Keeping up with the heat: Improving the space for wildfire risk decision support Tristan O'Mara	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	TBD	<b>2:00pm</b> Effects of uncharacteristic wildfires on the Sonoran Desert seed bank Kristen Countryman	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters		
<b>2:15pm</b>	Break (10 minutes)						<b>2:15pm</b>	Break (10 minutes)					

**10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)**

Concurrent Sessions: Wednesday, December 6, 2:25pm to 3:55pm							Concurrent Sessions: Wednesday, December 6, 2:25pm to 3:55pm						
	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III		Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV
	Fire Effects on Wood Products	Advances and Applications of Wildfire Risk Management Science	Fire and Insect Interactions in North American Forests	Fire and Smoke Model Evaluation Experiment (FASMEE) findings and updates	Indigenous Fire Resurgence in California: Research, Praxis, and Collaboration	14 Years of Fire Science Exchange: Lessons Learned and New Ideas in Fire Science Communication		Fire in the Sonoran Desert	Origins of Fire-adapted Traits	Post-fire Recovery, High Severity	Fire History and Regimes	Prescribed Fire, Fire Effects	
	Special Session Organizer: Michael Stambaugh	Special Session Organizer: Matthew P. Thompson	Special Session Organizers: Christopher J. Fettig, Michael D. Ulyshen, Justin B. Runyon	Special Session Organizers: Adam Watts	Special Session Organizers: Tony Marks-Block, Peter Nelson, Melinda M. Adams, Don Hankins, Frank K. Lake	Special Session Organizers: Autumn Ellison, Karen Dante-Wood, and Vita Wright		Special Session Organizers: Mary Lata and Molly McCormick	Special Session Organizers: Rebecca A. Koll, Claire Belcher, Cindy Looy	Moderator:	Moderator:	Moderator:	
2:25 pm	Impacts of fire on hard pine wood properties: Field assessment using nondestructive methods Xiping Wang	An assessment of pre-fire planning and wildfire response in a rapidly evolving fire landscape Jesse D. Young	Fire-induced changes to tree defenses and long-term tree mortality Sharon Hood	Using incident command systems to implement live fire research: A case study Rick Anderson	Storytelling and cultural fire: rebuilding plant and soil health in northern California Melinda M. Adams	Introduction	2:25 pm	TBD	How did evolutionary shifts in vegetation alter wildfire behaviour during the Permian period of Earth's history? Sarah J Baker	Characterizing 20 years of post-wildfire recovery in the Black Hills of South Dakota Kurtis Nelson	How fire regime modelling can become a key tool for ecological fire management Luis Brotons	Fire may mitigate negative effects of climate on longleaf pine tree growth Nicole Zampieri	
2:40 pm	Fire-impacted timber utilization: A survey of select mill procurement managers Lane Johnson	Analyzing fireline effectiveness and its relationship with previous disturbances: A case study of the dixie fire in northern California Alexander Arkowitz	What causes bark beetle outbreaks after wildfires? Investigating the interaction between bark beetles, wildfires, and lagged mortality in western North America Kate Kitchens	Pyrometrics: Evaluating prescribed fire with UAS-derived imagery Leo O'Neill	Fire effects on acorn insect infestations in Southern Pomo and Coast Miwok territory Tony Marks-Block	Lessons learned in setting up boundary spanner organizations Vita Wright	2:40 pm	Invasive grass influences on fire and treatment effectiveness to reduce their spread in the Southwest Sarah Costanzo	Evolution of branch shedding in ancient conifers Rebecca Koll	Characterizing 30-years of conifer regeneration patterns in high-severity wildfires: A snow-on remote sensing approach Wade Tinkham	Multi-scale assessment of fire regimes in North African mountain park Peter Fulé	Pyrogenic controls on resprouting shrub and grass persistence in a semi-arid savanna ecosystem William E Rogers	
2:55 pm	Bole char duration for red pine Brian Stearns	Evaluating the efficacy of large airtankers in wildfire suppression: A causal inference approach Cal Bryan	Changes in fuel biomass following severe drought and bark beetle outbreaks in the Sierra Nevada Crystal S. Homicz	UAS-mounted radio-frequency-based soil moisture sensing for wildland fire characterization Mohamad Alipour	Exploring fire-water connections across multiple scales in Karuk Aboriginal Territory Cleo Woeffle-Hazard	Scientist engagement with boundary organizations and knowledge coproduction Andrea Thode	2:55 pm	Enhancing the natural patchiness of the Sonoran Desert as a fire break option Alan Sinclair	A Case for pyrotypic variation? Ecophysiological adaptations and leaf level flammability Claire M. Belcher	When is regeneration succeeding after high severity fire? Hannah Redford	How fire regimes drive Parks Canada fire management: Mount Revelstoke and Glacier National Parks Case Study Spencer Verdiel	Assessing post-fire vegetation recovery across burn frequencies in a frequently burned pine savanna Jennifer McDaniel	2:00pm to 4:00pm, Meeting Gov't to Gov't Convening: Fire-Prone Lands Science Progress (WA and CA) Organized by Loretta Moreno
3:10 pm	Examining fire-exposed softwoods and hardwoods and what wood quality means for the Jennifer Jung	Managers insights on fuel break effectiveness Andrew S Johnson	Effects of defoliator outbreaks on fuels and wildfires Patrick James	Surface to air: Microbial exchange between ground fuels and wildland fire smoke Krista Bonfantine	Facilitating restoration of Indigenous fire stewardship on National Forest System lands Jonathan W. Long	Assessing needs in fire research and science delivery Autumn Ellison	3:10 pm	Weeds, fire, and robots: Prospects for Sonoran Desert conservation Garry Rogers	What burned where and when in the Carboniferous coal swamps? Tales from a 300-Myr-old, 23-Myr-long fossil record Cindy Looy	Impacts of short-interval wildfire on forest regeneration in Glacier National Park, Canada Natalie Maslowski	Changing fire regimes in the Great Basin, USA Corey Gucker	Annual brome and native perennial regeneration following prescribed fire in a grassland and grassland-shrubland ecotone Jacqueline P. Ott	
3:25 pm	Differences in wounding from prescribed fire among deciduous species in the central hardwoods Mike Saunders	Assessing how fuel treatments are considered during incident response Michelle Greiner	Challenges and limitations to our understanding of the effects of insect epidemics on wildfires Justin Runyon	Capturing fuel variability for emissions modeling with remote sensing Clare Saiki	Panel Discussion	Innovations in fire science communication from across the Fire Science Exchange Network David Godwin	3:25 pm	Rehabilitating the living skin of the Sonoran Desert to protect water quality and break the grass-fire cycle Helen Rowe	Do fire regimes result from top-down or bottom-up drivers Jon E Keeley	Question/Answer and Discussion with All Presenters	Fire regime disruption in conifer forests of western North America J. Eduardo Sáenz	Macartney rose response to herbicide and prescribed fire in Attwater's prairie chicken habitat Catherine Gatlin	
3:40 pm	Panel Discussion	Fuel treatment effectiveness doesn't always decline with severe fire weather Emily G. Brodie	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters		Panel Discussion	Panel Discussion	3:40 pm	Question/Answer and Discussion with All Presenters	Matched fire histories of Proteaceae explain sister genera in South Africa and SW Australia Byron Lamont	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	
3:55 pm	Afternoon Break, Regency Ballroom / Exhibit Hall							Afternoon Break, Regency Ballroom / Exhibit Hall					

**10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)**

Concurrent Sessions: Wednesday, December 6, 4:15pm to 5:45pm							Concurrent Sessions: Wednesday, December 6, 4:15pm to 5:45pm					
Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III	Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV	
Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	Fire Circle	
Organizer: Michael C Stambaugh	Organizers: Matthew P Thompson, Tony Cheng, Jim Menakis	Organizers: Thea Maria Carlson, Ashley Grupenhoff, Lindsay Dailey, Hannah Lopez, M. R. O'Connor, José Luis Duce-Aragüés	Organizers: Rebecca A. Koll and Claire Belcher	Organizers: Tara Harmon and Crystal Kolden	Organizers: Autumn Ellison, Carol Baldwin, Karen Dante-Wood, Molly McCormick, Eugénie MontBlanc, Autym Shafer, Alison York	Organizers: Molly McCormick and Mary Lata	Organizers: Adriana Ford and Abigail Croker	Organizers: Eric Knapp and Gavin Jones	Organizers: Bradley Massey, Ryan Reed, Ayuthea LaPier, Kyle Trefny	Organizers: Sharon Hood, Duncan Lutes, Morgan Varner	Organizers: Sarah Dickson-Hoyle, Jen Baron, Kate Kitchens, Kelsey Copes-Gerbitz	
<p><b>4:15pm</b></p> <p><b>Fire effects on wood products</b></p> <p>This fire circle will review the content of presentations in the special session and aim to identify outstanding questions related to the intersection of fire management and wood products.</p>	<p><b>Mapping the wildland fire system and aligning the Cohesive Strategy</b></p> <p>We aim to bring systems thinking to bear to better understand opportunities to improve the wildland fire system and better integrate the Cohesive Strategy pillars. We hope for an earnest and engaging discussion with participation from diverse perspectives.</p>	<p><b>Burning across boundaries: weaving together public, private, tribal, academic, and community participation in tending land with fire</b></p> <p>To get more good fire on the ground, multi-stakeholder collaborative prescribed and cultural burning is essential. In this interactive conversation, fire practitioners will share how they have forged meaningful partnerships, and challenges they face in bringing people together across sectors to tend the land together with fire.</p>	<p><b>Origins of fire-adapted traits</b></p> <p>This Fire Circle will expand upon the Origins of fire-adapted traits special session to further the discussion exploring the dynamics of fire-behaviour and plant evolution through time. The session objective is to establish new collaborations that develop and expand relevant research areas capable of enhancing evolutionary fire ecology.</p>	<p><b>Challenges and solutions for co-stewardship with Indigenous partners in California</b></p> <p>This Fire Circle is a discussion about co-stewarding land and fire with indigenous communities in California. We aim to bring together indigenous and non-indigenous attendees to discuss the wide variety of successful partnerships and the benefits and drawbacks of each approach. This discussion will help inform future workshops and research.</p>	<p><b>Communicating fire science: increasing impact, improving management, and expanding connections with the fire community</b></p> <p>What is a Fire Science Exchange? What do they do? Can the Exchanges help my work to have a greater impact? Join us to find out more about how Exchanges work, help identify high priority fire science and management needs, and explore potential collaborations at both national and regional levels.</p>	<p><b>4:15pm</b></p> <p><b>Investigating the novel invasive species - fire cycle in the Sonoran Desert</b></p> <p>Discussion for those working in conditions resulting from novel invasive species-fire cycles. Our focus is the Sonoran Desert, but discussions will be relevant to and informed by areas facing similar conditions.</p> <p><b>4:30pm</b></p> <p>Discussion topics: strategies for reducing damaging fire effects, post-fire recovery, and creation of new ecological trajectories that guide management.</p>	<p><b>4:15pm</b></p> <p><b>Tackling diverse fire challenges through science-management collaborations</b></p> <p>This fire circle delves into and acts as a catalyst for active science-management collaborations in the context of wildfires. Participants will engage in a structured networking session through a series of activities to create a globally connected, equitable, diverse, and inclusive fire family for long-term fire science-management impact.</p>	<p><b>4:15pm</b></p> <p><b>Do fuel treatments work?</b></p> <p>The need for fuel treatments in western US forests with long-term fire exclusion is widely accepted by scientific experts. However, counter arguments persist and play an outsized role in the media landscape. We will explore why, discuss means of breaking down polarization, and identify zones of agreement.</p>	<p><b>4:15pm</b></p> <p><b>FireGeneration: Introducing a center of power for students and diverse young fire practitioners</b></p> <p>This Fire Circle is for the next generation in fire. We have a significant dependence on the outcomes of climate crises response and land stewardship decisions. The FireGeneration Collaborative aims to connect most-impacted communities with decision-making, center Indigenous and diverse young practitioners in solutions, and transform our generation's relationship with fire.</p>	<p><b>4:15pm</b></p> <p><b>Improving decision support for predicting fire-caused tree mortality</b></p> <p>This fire circle will focus on the process for updating First Order Fire Effects Model (FOFEM), how FOFEM fits into family of software that predicts fire effects and work flow for improvements, and how should improvements be prioritized?</p>	<p><b>4:15pm</b></p> <p><b>Guiding principles for transdisciplinary fire research: sharing and applying insights from early-career researchers</b></p> <p>Led by a collective of early career researchers, this Fire Circle aims to bring together fire researchers, practitioners and community members from diverse career stages and backgrounds to collectively envision a new form of transdisciplinary fire research. Framed around four key principles for transdisciplinarity, the session will foster discussion around the need for transformation in fire research and management, the complexity of the 'fire challenge' worldwide, and how transdisciplinary research and collaborations can be applied to overcome these challenges.</p>	
<p><b>4:30pm</b></p>												
<p><b>4:45pm</b></p>												
<p><b>5:00pm</b></p>												
<p><b>5:15pm</b></p>												
<p><b>5:30pm</b></p>												
<p><b>5:45pm</b></p>		<p>6:00pm to 7:00pm: Celebration of Life for Jan van Wagtenonk 6:00pm to 8:00pm: PBA Happy Hour at Fieldwork Brewing</p>				<p><b>5:45pm</b></p>		<p>6:00pm to 7:00pm: Celebration of Life for Jan van Wagtenonk 6:00pm to 8:00pm: PBA Happy Hour at Fieldwork Brewing</p>				



## 10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)

### Closing Plenary Session: Thursday, December 7, 8:00am to 10:00am (Monterey Ballroom)

8:00am	Welcome Back and Announcements Keynote Speakers Prof. Dr. Christine Eriksen, Institute of Geography, University of Bern, Switzerland Chief Royal Ramey, Co-Founder & Chief Program Officer, Forestry & Fire Recruitment Program (FFRP) Ryan Reed, FireGeneration Collaborative Program Director; Northwest Forest Plan Federal Advisory Committee member and Kyle Trefny, Co-Founder, FireGeneration Collaborative Closing Remarks
10:00am	Morning Break (Regency Ballroom / Exhibit Hall)

### Concurrent Sessions: Thursday, December 7, 10:30am to 12:00pm

### Concurrent Sessions: Thursday, December 7, 10:30am to 12:00pm

	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III		Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV
	Fire in U.S. Oak Woodlands: East and West	Advances and Applications of Wildfire Risk Management Science	Reaching the Limit: When Fire-Adapted Vegetation Fails to Recover Post-Fire	Climate Adaptation and Management	The Fire Next Time: Protecting Native Cultural Resources and Heritage Sites from Severe Wildfire and Fire Suppression Impacts	Spanning the Boundaries of Science, Practice, and Management: The Role of Cooperative Extension		Fire Effects and Compounding Disturbances in Semi-Arid Shrublands	Changing Fire Regimes and Carbon	Fire Ecology in the Forgotten Landscapes of the Upper Great Lakes	Wildland Urban Interface, Risk, and Mapping	Prescribed Fire, Increasing Use and Tracking	
	Special Session Organizers: Michael Stambaugh and Joseph Marshall	Special Session Organizer: Matthew P. Thompson	Special Session Organizers: Rachael Nolan and Ryan Tangney	Moderator:	Special Session Organizers: Tom Little Bear Nason and Timothy Ingalsbee	Special Session Organizers: Emily Jane Davis and Christina Restaino		Special Session Organizer: Lea Condon	Moderator:	Special Session Organizer: Kurt Kipfmuller	Moderator:	Moderator:	
10:30am	Introduction	Introduction	Fire season delays and reduces post-fire recruitment from seeds in Mediterranean climate ecosystems. Ryan Tangney	Forest Service Wildfire Crisis Strategy Landscapes: Workshop results for incorporating climate change and adaptation Brooke Hagarty	From the Outside, Looking In Jun Kinoshita	The role of Cooperative Extension in wildfire Emily Jane Davis	10:30am	Fire effects and compounding disturbances in semi-arid shrublands Lea A. Condon	Persistent positive anomalies in geopotential height expose Europe's high-latitude carbon stores to wildfire Kerryn Little	Revisiting fire and fire history in the Upper Great Lakes: Challenges and opportunities Kurt Kipfmuller	Riparian areas are the WUI: A comprehensive approach to regional wildfire risk reduction Bruce K Orr	Escaped prescribed fires: rare but ruinous Crystal Kolden	
10:45am	Fire in the Heartland: Who are we rooting for in the epic feud between prairies and woodlands? Sherry A. Leis	Community impacts from wildfire Erica Fischer	Structural reorganisation of resprouting temperate eucalypt forests following megadisturbance varies with forest type and soil fertility Eli Bendall	Implementing climate change adaptation strategies across an elevational gradient in the Colorado Rocky Mountains Mike A. Battaglia	TBD	Enabling extension to serve as fire science communicators: An online course to prepare trusted boundary spanners David Godwin	10:45am	Could biological soil crusts act as natural fire fuel breaks in the sagebrush steppe Lea A. Condon	Extreme weather breaks phenological control on temperate fuel moisture; implications for future wildfire regimes Nick Kettridge	Historical fire regimes of sub-boreal peatlands Jed Meunier	The new forest fire danger prediction system of Mexico Daniel José Vega Nieva	The use of prescribed fire in northeastern US: Demand and barriers Arun Regmi	
11:00am	The Southern Tier Oak Restoration Initiative: Looking into the past for the future Greg Nowacki	Socially vulnerable communities are disproportionately exposed to wildfire in the Pacific Northwest Caitlyn Reilley	Drivers of post-fire tree regeneration across gradients of climate and burn severity in Eastern WA, USA Angela Gonzalez	Learning from the past and planning for the future: Managing for ecosystem responses to wildfire and drought Anna L. Vaughn	TBD	Sharing tricks of the trade: Hosting a workshop for fire outreach professionals Elliot Nauert	11:00am	Assessing postfire water quality in chaparral amidst changing precipitation patterns Erin J. Hanan	Long-term trends in burned area and weather in boreal forests of Canada, Alaska, and Russia Connor Stephens	Fire history applied to the restoration of a biocultural landscape on the Fond du Lac Reservation Lane Johnson	Assessing new methodologies for delineating the wildland urban interface Robert McGonagle	California's State Certified Prescribed Fire Burn Boss Program Phillip Dye	
11:15am	Frequent fire in California oak woodlands Don L. Hankins	Integrating social vulnerability into quantitative wildfire risk assessments Andy McEvoy	Vegetation recovery following Australia's Black Summer wildfires is moderated by fire interval and severity Christopher E. Gordon	Embedding 'fire-smartness' within the nature-based solutions paradigm Adrian Regos	TBD	Creating equitable and inclusive wildfire extension programs: How attention to place, culture, and ability strengthen education and outreach Megan Kay	11:15am	Fire return interval impacts on loss of biodiversity in California shrublands Jon E. Keeley	Promoting Scots Pine Fire Regimes in Lithuania: Understanding the complexity of forest landscape change across generations of land-use Charles M Ruffner	Fire History and Red Pine: An above-ground archaeological approach Sean Dunham	Promoting community resilience in high wildfire risk areas: the nexus between utilities and communities Amanda Stasiewicz	The California Prescribed Fire Monitoring Program: Partnerships to measure effectiveness of prescribed fire Tessa Putz	
11:30am	Managing scrub oak in a pitch pine-scrub oak barrens Neil A. Gifford	Science, policy, and controversy: Oregon's risk map receives and explosive public response Christopher J Dunn	Frequent fire in northern California chaparral reduces post-fire shrub regeneration and native plant diversity Ashley Grupenhoff	Investigating suffering from global wildfire events: challenges and opportunities Fiona Newman Thacker	TBD	WTREX: Empowering change in the fire workforce Lenya Quinn-Davidson	11:30am	Conservation grazing for habitat restoration and fuels reduction in Southern California Mendel Stewart	Does forest management enhance resistance and resilience to drought and bark-beetle caused tree mortality? Becky Estes	Pagami Creek Fire: A lens to view our cognitive dissonance about humans living in nature Gus Smith	An interdisciplinary agent-based multimodal wildfire evacuation model: Critical decisions and life safety Haizhong Wang	Building a prescribed fire database for the western United States Kori Blankenship	
11:45am	Panel Discussion	Panel Discussion	Thirty-year trends in postfire conifer regeneration in California and western Oregon Joseph Stewart	Question/Answer and Discussion with All Presenters	TBD	Panel Discussion	11:45am	Fire effects and grazing gradients in Northern Great Basin plant communities Madelon F. Case	Question/Answer and Discussion with All Presenters	Nimaawanj'idimin Giiwitaashkodeng: Together we are gathering around the fire Evan Larson	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	
12:00pm	Awards Luncheon (ticketed \$30), Monterey Ballroom						12:00pm	Awards Luncheon (ticketed \$30), Monterey Ballroom					

## 10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)

Concurrent Sessions: Thursday, December 7, 2:00pm to 3:30pm							Concurrent Sessions: Thursday, December 7, 2:00pm to 3:30pm						
	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III		Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV
	Wildfire Risk and Complexity in Research and Practice	Wildfire Risk to Communities	Fire and Wildlife	Incorporating Fire into Climate-Adaptation Strategies for Old and Mature forests of North America	Cultural Fire and Fire History	Spanning the Boundaries of Science, Practice, and Management for More Fire-Adapted Futures: The Role of Cooperative Extension		Fire Effects and Compounding Disturbances in Semi-Arid Shrublands	Fuel Moisture and Flammability	Modeling and Simulations, Wildfire Behavior	Carbon Dynamics	Fuel Treatment Effectiveness, Wildfire	
	Special Session Organizers: Paige Fischer, Heidi Huber-Stearns, Francisca N. Santana	Moderator:	Moderator:	Special Session Organizers: Susan Prichard, Cristina Eisenberg, Marc-André Parisien	Moderator:	Special Session Organizers: Emily Jane Davis and Christina Restaino		Special Session Organizer: Lea Condon	Moderator:	Moderator:	Moderator:	Moderator:	
2:00pm	When community wildfire adaptation requires transformation Paige Fischer	Understanding wildfire risk to communities Eva Karau	Deadwood management and forest health, Prince William Forest National Park, Virginia, USA Daria Maslyukova	Braiding Indigenous knowledge and western science approaches to forest adaptation Cristina Eisenberg and Susan Prichard	‘Walking on two legs’: applying an Indigenous framework to guide collaborative research in fire-adapted territories Sarah Dickson-Hoyle	Increasing fire science knowledge and workforce development through technical education in Nevada Christina Restaino	2:00pm	Even without repeated fire, annual grass invasion drives biodiversity loss in a semi-arid shrubland. Adam L. Mahood	Spatiotemporal fuel moisture dynamics in a Rocky Mountain mixed-conifer forest Gunnar Ohlson	Leveraging GIS, remotely sensed data, and machine learning to forecast and mitigate wildfires James Zollweg	Estimating risk to forest carbon in CONUS using an actuarial approach Karin Riley	Surface and canopy fuel characteristics in unburned, once-burned, and twice-burned Rocky Mountain mixed-conifer forests Andrew J Larson	
2:15pm	Understanding behavioral adaptation to compounding and cascading wildfire-related hazards in Northern California Francisca N. Santana	Community risk reduction zones: A new map to inform actions in around the WUI Greg Dillon	Slash piles as habitat for threatened and endangered salamanders in the southwestern US Rachel Loehman	Retooling conservation strategies for old-growth boreal and hemiboreal forests Marc Parisien	Pre-Euroamerican annual burnt area in California, USA: An updated and comprehensive map Andrea Duane	Designing a wildfire educational event and curriculum around a critical water supply and recreation site Aaron Groth	2:15pm	Effects of wild horses and burros on wildfire characteristics Amanda Gearhart	Examining sources of uncertainty when modelling fuel moisture across different forest types Derek van der Kamp	Improved understanding of future wildfire risk through simulating dynamic exposure profiles Hedwig van Delden	Functional attributes of conifers expanding into grassland modulate carbon and nitrogen fluxes in response to prescribed fire Justin D. Gay	Prescribed burning following wildfire: Effects on surface fuel loading and regeneration in a ponderosa pine forest Cristina Winters	
2:30pm	Post-fire vegetation recovery in a changing climate: Informing forest planning/reseeding decision making in New Mexico Rémi Bardou	Building, housing-unit, and population density rasters for the United States Melissa Jaffe	The impact of wildfire on avian communities: Exploring habitat associations two decades after fire Maria Vicini	Climate adaptation challenges and strategies for eastern forests and woodlands Nicole Zamperi	Local Ecological Knowledge in the Mediterranean contribute to wildfire risk adaptation Kathleen Uyttewaal	Prescribed Burn Associations: Extension helping neighbors helping neighbors Chris Adlam	2:30pm	Improving postfire restoration of vegetation in the Great Basin: A demographic perspective Robert Shriver	Mapping live fuel moisture content in Monterey County, CA A.J. Purdy	Using spatial decision support tools to study tradeoffs and synergies of social-ecological resilience Tucker Furniss	Prescribed fire effects on aboveground forest carbon in coniferous forests of US national parks in California and Oregon Phil van Mantgem	55 years of succession following clearcutting plus broadcast burning and wildfire in a mixed-conifer forest Neil G. Williams	
2:45pm	Our communities, our bay: Preparing our communities for compound stressors Gabrielle Wong-Parodi	An update to probabilistic wildfire hazard datasets for the United States Greg Dillon	Fire, birds and the sixth extinction Cecil Frost	Climate adaptation challenges and strategies for mixed conifer forests of the western interior of North America Paul Hessburg	The science, practice, and efficacy of fire mimicry in restoring oak health Lee Klinger	Visualizing likely fire outcomes to support strategic rangeland fire planning and management Katie Wollstein	2:45pm	How do climate and wildfire history affect fuel break treatment effectiveness in sagebrush landscapes? Douglas Shinneman	Quantifying litter bed flammability in temperate eucalypt forests Jamie Burton	Coupled fire-atmosphere simulation: The effects of fuel properties and heat release Kasra Shamsaei	Impacts to greenhouse gas emissions and fire behavior following fuel treatments in California forests Christopher A. Dicus	Logging after high severity wildfire may mitigate fire effects up to 40 years after wildfire Katie Ireland	
3:00pm	Adaptation to wildfire risk among family forest owners in the Western Pacific Northwest, USA Mahmood Muttaqee	How does Wildfire Hazard Potential characterize the relative likelihood of high-intensity wildfire? Mitchell Lazarz	Fire management for fauna conservation in heathy woodlands of southeastern Australia Matt Swan	Braiding Indigenous knowledge and western science: Climate change adaptation strategies for North American forests Cristina Eisenberg	Historic fire regimes in whitebark pine ecosystems of west-central British Columbia Kira Hoffman	Reforestation after high severity wildfire in California: Assisting small private landowners Susan Kocher	3:00pm	A retrospective assessment of fuel break effectiveness for wildfire suppression across the western U.S. Cali Weise	Decomposition-driven changes in tree litter flammability Morgan Varnner	Connecting wildland fire science with electrical grid management: modeling seasonal and long-term risk Troy Saltiel	Greenhouse gases emitted across fire seasons in a mesic savanna of West Africa A. Brigitte N'DRI	Quantifying the restorative work of wildfires in the Sierra Nevada and identifying its key drivers Caden Chamberlain	
3:15pm	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Climate adaptation strategies for old-growth forests in the southwestern US and northern Mexico Diego Pérez Salicrup	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	3:15pm	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	
3:30pm	Afternoon Break, Regency Ballroom / Exhibit Hall						3:30pm	Afternoon Break, Regency Ballroom / Exhibit Hall					

ArcGIS / ESRI Demo  
Anthony Schultz

**10th International Fire Ecology and Management Congress, Schedule of Presentations (11-7-23)**

Concurrent Sessions: Thursday, December 7, 4:00pm to 5:30pm							Concurrent Sessions: Thursday, December 7, 4:00pm to 5:30pm						
	Spyglass I	Spyglass II	Oaktree	Big Sur I	Big Sur II	Big Sur III	Cypress I	Cypress II	Cypress III	Windjammer I	Windjammer II-III	Windjammer IV	
	<b>Wildfire Risk and Complexity in Research and Practice</b>	<b>Modeling and Simulations, Fuel Treatments and Wildfire Behavior</b>	<b>Smoke Ecology and Management</b>	<b>Incorporating Fire into Climate-Adaptation Strategies for Old and Mature forests of North America</b>	<b>Fire Circle</b>	<b>Fire Circle</b>	<b>Fire Behavior</b>	<b>Measuring Plant Flammability</b>	<b>Wildfire, Fire Effects</b>	<b>Fuel Treatment Effectiveness, Wildfire after Treatments</b>	<b>Carbon Dynamics</b>		
	Special Session Organizers: Paige Fischer, Heidi Huber-Stearns, Francisca N. Santana	Moderator:	Moderator:	Organizers: Susan Prichard, Cristina Eisenberg, Marc-André Parisien	Organizers: Timothy Ingalsbee and Ryan Reed	Organizer: Emily Jane Davis, Carrie Berger, Jennifer Fawcett, Katie Wollstein	Moderator:	Moderator:	Moderator:	Moderator:	Moderator:		
<b>4:00pm</b>	Wildfire risk and complexity: challenges and opportunities for practice and policy Heidi Huber-Stearns	A retrospective simulation of fire effects with and without fuels treatments on a recent California wildfire Dave Schmidt	A new EPA National Ambient Air Quality Standard: What now? Peter Lahm	Climate adaptation challenges and strategies for California Mediterranean and Sierran Forests, Don Hankins and Jonathan Long	<b>Fire Circle</b> Fire back: Making space for Indigenous cultural burning in prescribed fire planning and operations	<b>Fire Circle</b> Connecting research and practice through fire Extension's people and programs	<b>4:00pm</b> Hourly wildfire growth database fusing polar-orbiting, geostationary, and multi-agency observations Crystal McClure	Tools for firewise landscape management: Ranking species according their flammability can be tricky Anne Ganteaume	European forest post-fire trajectories shaped by plants strategies, fire history and topo-climatic conditions Lilian Vallet	Linking forest management to operational outcomes of the Washburn Fire in Yosemite National Park Lacey Hankin	FuelMap: An imputed map of carbon stored in litter, duff, fine and coarse woody debris for CONUS forests circa 2014 Karin Riley		
<b>4:15pm</b>	Disaster-resilient community based organizations: Pivoting to become wildfire and smoke disaster responders for vulnerable populations Bailey Nock	Impacts of forest treatment on steep slopes on potential fire behavior Scott Ritter	Transmission received: Smoke disperses living microbes from fuels to soils changing community composition and function Sam Fox	<b>Fire Circle</b> Adapting forests to climate change: place-based stewardship and ecocultural restoration	Expanding opportunities for Indigenous cultural burning raises questions about if and how can Native resource objectives and traditional practices be included in prescribed burn plans and operations. How can the two intentional burning systems share resources on the same project sites in ways that respect Tribal sovereignty and prevent cultural appropriation?	This Fire Circle offers a space for dialogue among Extension peers and with fire managers, scientists, and community practitioners. Topics will include the role of Extension in applying fire science, how to respond to community needs, and how to develop strategic approaches.	<b>4:15pm</b> Quantifying fire behavior precisely and economically using small unmanned aircraft Phinehas Lampman	Canopy traits drive plant flammability: Shoot flammability of Texas shrubs Azaj Mahmud	Abrupt and gradual transitions in plant community composition after fire in sagebrush steppe Cara Applestein	The contributions of past fires and fire management operations to severity patterns of the Dixie Fire Alan H. Taylor	Fuel treatments: Biomass sourcing, quantification and GHG impact assessment for bioenergy applications Thomas Buchholz		
<b>4:30pm</b>	Linking wildfire smoke, forest management, and human health: Perspectives from health organizations in California Signe Stroming and Kirsten Hodgson	Climate change alters fuel treatment effects on fire behavior in the Sierra Nevada Mountains Ashley Cale	Impacts of smoke on tree physiological health at Fishlake National Forest, Utah Annapurna C. Post-Leon	Given their immense cultural and ecological value of forests, strategies for sustaining old and mature forests under climate change are being carefully considered, including a recent Executive Order by President Biden (14702: Strengthening the Nation's Forests, Communities, and Local Economies). In this fire circle, we will discuss threats to the conservation of forests across the United States and the role of place-based stewardship and ecocultural fire in restoring and enhancing resilience of forests to climate change.			<b>4:30pm</b> Comparing crown fire predictions in treated and untreated ponderosa stands among four fire behavior models Jacob Ney	Building the components of a UK fire danger rating system: a flammability phenology for dry heaths Claire M. Belcher	Fire effects on interspecific competitive and facilitative interactions and forest structure in the alpine treeline ecotone Josh Beisel	Ecological impacts and effectiveness of fuels treatments in three major 2021 California wildfires Rebecca Bewley Wayman	Sustainable integrated fire management, carbon and source water protection strategies: Kafue National Park and Chyulu Hills National Park McRee Anderson		
<b>4:45pm</b>	Challenges and opportunities for prescribed fire workforces in the United States Laurel Kays	Do linear fuel breaks reduce wildfire size and limit spread of roadside ignitions in rangelands? Kayla Johnston	Pyroaerosolized microbes and their potential functional roles differ by fuel source and fire type Sam Fox				<b>4:45pm</b> The 2020 Creek Fire: An investigation into understanding and attribution of fire behavior Janice Coen	An evaluation of metrics for quantifying plant flammability Jane Cawson	Remotely sensing the effects of managed wildfire on Sierra Nevada meadows Logan Hansen	Shaded fuel breaks create wildfire-resilient forest stands in the Sierra Nevada Kathryn Low	Modelling trade-offs between forest and fire management and carbon dynamics in British Columbia, Canada Jocelyne Laflamme; Jen Baron		
<b>5:00pm</b>	Following the path to policy change: 2020 Oregon wildfires Leanne Giordano	Question/Answer and Discussion with All Presenters	Learning to burn: Designing prescribed fire training to maximize training transfer Heather Heward				<b>5:00pm</b> The California Canyon Fire experiment Craig Clements	Flammability comparison of five common east Texas semi/evergreen plants using thermogravimetric analysis and bomb calorimetry Michael Tiller	The effects of wildfire on roost selection of the California myotis Anna Doty	Are current fuel reduction treatments successfully mitigating risk of catastrophic wildfire in rural communities in British Columbia, Canada? Kea Rutherford	Question/Answer and Discussion with All Presenters		
<b>5:15pm</b>	Question/Answer and Discussion with All Presenters		Question/Answer and Discussion with All Presenters				<b>5:15pm</b> Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters	Question/Answer and Discussion with All Presenters			
<b>Evening</b>	Bonfire and Closing Ceremony (Time and Location TBD)						<b>Evening</b>	Bonfire and Closing Ceremony (Time and Location TBD)					
<b>Field Trips: Friday, December 7 (times vary by trip, pre-registration required)</b>													
<ol style="list-style-type: none"> <li>Elkhorn Slough and Walden Monterey (two field trips in one!)</li> <li>The Ecology and Cultural Tending of Old-growth Redwood Forests in Big Sur</li> <li>Santa Lucia Conservancy Prescribed Burning Program and Wildfire Resilience Work</li> <li>Big Basin Redwoods State Park</li> <li>University of California: Hastings Natural History Reservation</li> <li>Whale Watch with Monterey Bay Whale Watch</li> </ol>													