

Concurrent Sessions: Tuesday, June 23, 10:50am to 12:30pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Special Session Aspen on fire: 'The report of my death has been greatly exaggerated'</p> <p>Organizers: Paul Rogers, Brad Pinno</p>	<p>Workshop Synthesizing changing drivers of dry conifer forest structure following long-term fire-exclusion across the western US</p> <p>Organizers: Kevin Willson, Paula Fornwalt, Mike Battaglia, Wade Tinkham</p>	<p>General Session Fuel treatments</p> <p>Moderator: Chris Keyes</p>	<p>Workshop Designing well spread and balanced samples using space filling curves and ancillary data</p> <p>Organizers: John Hogland, Joseph St. Peter</p>	<p>Special Session Wet doesn't burn: Emerging trends in the integration of aquatic restoration in pre and post wildfire management</p> <p>Organizers: Alexander Funk, Emily Fairfax, Amy McNamara, Alicia Marrs</p>
10:50am	Bryce Canyon aspen under fire Paul C. Rogers	<p>Long-term land use change has altered processes that determine dry conifer forest structure, contributing to recent increases in fire severity. This workshop will evaluate methods and data availability to assess historical forest structures and environmental features that drove them to inform the future management of dry conifer forests.</p>	Limited season of burn effects on basal mound duff consumption around large pines with prescribed fire Jeff Kane	<p>In this workshop we will explore how to set up a geospatial data science environment using Conda, use that environment to explore Raster Tools functionality, and create a well spread and balanced sample using ancillary data and space filling curves.</p> <p>Pre-registration required.</p>	Wet doesn't burn: Emerging trends in the integration of aquatic restoration in pre and post wildfire management Alexander Funk
11:10am	Constraints on aspen resilience: The role of root system integrity and physiology Simon Landhäusser		Drivers of treatment success at reducing high severity wildfire in Arizona Mark Kreider		Where, when, and why riverscapes resist burning during wildfire Emily Fairfax
11:30am	Testing common assumptions about aspen flammability and seed-based regeneration Larissa Yocom		Rapid community change influences woody fuel treatments to treat pinyon and juniper expansion Sofia Koutzoukis		Case studies of integrated wildfire and aquatic resources management (Part 1) Amy McNamara
11:50am	Assessing within-stand variation in fire-induced aspen mortality with UAV imagery Mark Vanderwel		Evaluating the effects and effectiveness of pile burning Tessa Putz		Case studies of integrated wildfire and aquatic resources management (Part 2) Adde Sharp
12:10pm	Exploring changing aspen forest dynamics in the Great Basin and surrounding regions Douglas Shinneman		Evaluating long-term efficacy of fuel treatments in north-central Washington Katie Ireland		Overview of engagement with federal wildfire / land management agencies on the integration of aquatic restoration and wildfire management and congressional effort Alicia Marrs
12:30pm	Lunch				

Concurrent Sessions: Tuesday, June 23, 10:50am to 12:30pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	Special Session Partial disturbance and stand development: applications for ecology & silviculture	Special Session From inventory to resilience: Rethinking forest monitoring for a disturbance-prone era	General Session Fire ecology	Special Session Forest ecophysiology and fluxes	Workshop Forest bioeconomy adoption pathways: Understanding social barriers, ecological resilience, economic incentives, and technology readiness
	Organizers: Audrey Barker Plotkin, Robert Fahey	Organizers: John Battles, Helena Kleiner, Yihong Zhu	Moderator: Justin Gay	Organizers: Troy Magney, Bill Smith	Organizers: Eric Walsh, Kristina Bartowitz, Laura Laumatia, Ashley Ballantyne
10:50am	Partial disturbance and stand development: historical perspective & session goals Audrey Barker Plotkin	Modeling forest and watershed resilience under changing fire regimes Erin Hanan	Snag dynamics following mixed-severity wildfire in the interior Pacific Northwest Rebecca Carden	Multi-site comparison of water and carbon dioxide fluxes from montane forest vegetation John Knowles	This interactive workshop explores the adoption of climate-smart forestry practices by Tribal, public, private, and family forest landowners and their effects on the bioeconomy and innovation. Through group dialogue and co-creation, participants evaluate social, ecological, economic, and technological factors shaping adoption and develop a shared framework to advance equitable, resilient forest bioeconomy pathways in the Western U.S.
11:10am	Applying findings of ecosystem-scale partial disturbance experiments to irregular silvicultural approaches Robert Fahey	How restoration translates to resilience: a novel method for measuring and comparing resilience Alexis Bernal	Too hot to handle? Pre-treatment characteristics shape short-term post-treatment understory recovery patterns Ksenia A. Pereverzeva	From divergence to diagnosis: Improving forest carbon estimates Mallory Barnes	
11:30am	Canopy structural outcomes of partial disturbances and silvicultural treatments: Similarities and differences Brandon Alveshire	Long-term forest data challenge generic metrics of ecosystem resilience Alix Contosta	Evaluating the conditions under which wildfire promotes resilience Nathan Tomczyk	Impacts of warming on coast redwood (Sequoia sempervirens) photosynthetic and growth physiology Lily Klinek	
11:50am	Linking variation in functional diversity and carbon dynamics in northern hardwood forests Keenan Rivers	Mapping fuel with drones after short-interval reburns in the boreal forest Craig Woodruff	Post-fire forest regeneration and understory development in eastside Sierra Nevada Jeffrey pine forests Stephanie Yelenik	Decoupled carbon assimilation and growth responses to aridity in temperate deciduous oaks Mukund Palat Rao	
12:10pm	Discussion	Fusing heterogenous data streams to detect, characterize, and track low-to moderate-disturbance in Great Lakes forests Jeff W. Atkins	Characterizing fire refugia within populations of the rare serotinous conifer, Baker cypress Olivia Moskowicz	Forest vulnerability: Investigating semi-arid mountain topography, hydroclimate, tree growth, and hydraulic traits Fin Malone	
12:30pm	Lunch				

Concurrent Sessions: Tuesday, June 23, 2:00pm to 3:40pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Special Session Aspen on fire: 'The report of my death has been greatly exaggerated'</p>	<p>Training: Introduction to NFMA and NEPA</p>	<p>General Session Landscape dynamics and ecological resilience</p>	<p>Workshop Designing well spread and balanced samples using space filling curves and ancillary data</p>	<p>General Session Remote sensing</p>
	Organizers: Paul Rogers, Brad Pinno	Organizers:	Moderator: Tom Perry	Organizers: John Hogland, Joseph St. Peter	Moderator: Arthur Endsley
2:00pm	Aspen persistence under changing disturbance regimes Caroline Whitehouse	Introduction to the National Forest Management Act (NFMA) and National Environmental Policy Act (NEPA). Learn how these fundamental laws guide all planning and activities on federal lands and gain tips to work effectively with local forest staff to conduct research on federal lands within the confines of NFMA and NEPA.	A burning need for connectivity: how fuels treatments affect habitat connectivity and landscape resilience Caroline Kane	In this workshop we will explore how to set up a geospatial data science environment using Conda, use that environment to explore Raster Tools functionality, and create a well spread and balanced sample using ancillary data and space filling curves. Pre-registration required.	Applying UAV imagery to examine forest biomass dynamics under moisture stress Anna Crofts
2:20pm	Aspen regeneration Sarah J. Hart		Species mixtures association with below ground root prevalence Kyle Dues		Virtual fence technology applications for natural resource conservation and management Bryan Murray
2:40pm	Trembling aspen regeneration after fire in Alberta's boreal forest Brad Pinno		Testing forest resilience: forest recovery following a mixed-severity wildfire David W Peterson		Dynamic fuel mapping systems for treatment planning and monitoring in the western US Emily Francis
3:00pm	Panel Discussion		Assessing vegetation recovery following Stage-0 restoration using satellite time series analysis Garret Homer		Identifying the limits of remote sensing for monitoring prescribed fire Eva Laubach
3:20pm	Panel Discussion		Thirty years of landscape change in the Washington East Cascades Kerry Kemp		SAR-based burn severity mapping for post-fire emergency response Peter Streufert
3:40pm	Poster Session in the North Ballroom (3:40pm to 5:30pm)				

Concurrent Sessions: Tuesday, June 23, 2:00pm to 3:40pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	Special Session Partial disturbance and stand development: applications for ecology & silviculture	Special Session Tree planting for adaptation: How the North American Adaptive Silviculture for Climate Change network has operationalized assisted migration and other planting strategies	General Session Forest ecology and dynamics	Special Session Forest ecophysiology and fluxes	Special Session Long-term ecological responses to fuel treatments: 25+ years of the Fire & Fire Surrogate Network
	Organizers: Audrey Barker Plotkin, Robert Fahey	Organizer: Peter Clark	Moderator: William Keeton	Organizers: Troy Magney, Bill Smith	Organizers: Scott Ferrenberg, Gibson Blankenship, Isabella Smith, Kara M. Fox
2:00pm	Residual species interactions of dead canopy trees impact gap-phase regeneration in forests Lukas J Magee	Operationalizing tree planting for adaptation across the ASCC network Peter Clark	Decay dynamics of retained snags during early stand development of red pine forests Gregory Harris	Keeping a pulse on forest ecosystems with remote sensing from daily to annual scales Jan Eitel	Quantifying the influences of prescribed fire and thinning on tree growth-climate relationships Gibson Blankenship
2:20pm	Implications of disturbance intensity for growth and recovery in temperate forests Jonathan Thompson	Promoting adaptive capacity with tree planting in Driftless Area oak-hickory forests Miranda Thomas Curzon	The structure and dynamics of Maine’s climate-vulnerable coastal red spruce forests Colby Bosley-Smith	Sugar maple production potential: Local drivers and early prediction from spectra Anna Schweiger	Long-term effects of fuel restoration treatments on understory biodiversity in Northern Rockies dry conifer forest Isabella Smith
2:40pm	Disturbance-driven silvicultural strategies maintain late-successional conifers in temperate mixedwoods Olivier Villemaire-Côté	Incorporating climate and planting uncertainty into climate informed reforestation strategies in western Canada Che Elkin	Spatiotemporal patterns of canopy disturbance and establishment in a multi-cohort hardwood stand Kana Furukawa	Reduced conifer monoterpene emissions during drought does not predict bark beetle-induced mortality Shealyn C. Malone	Understory community response to wildfire in previously treated dry conifer forests Kara M. Fox
3:00pm	The two-aged forest: lessons from the Harvard Forest Simulated Hurricane & Hemlock Removal Experiments Audrey Barker Plotkin	Admixture provenancing in Colorado’s high elevation forests: a trait-based approach to selecting seed for reforestation Katie Nigro	Age is just a number: characterizing stand dynamics of peatland forests in Minnesota Laura Reuling	Different drought strategies, different carbon outcomes: ecophysiological responses of conifers to compounding stress Tara Hudiburg	Long-term treatment effects in the Northeastern Cascades Fire and Fire Surrogates site Don C. Radcliffe
3:20pm	Discussion	Panel Discussion	Quantifying spatial complexity in canopy composition for oak-shortleaf pine management Lucille T. McGuire	Climatic drivers of “hot moments” in tree growth and gross primary production Matt Dannenberg	Discussion
3:40pm	Poster Session in the North Ballroom (3:40pm to 5:30pm)				

Concurrent Sessions: Wednesday, June 24, 10:20am to 12:00pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Special Session Water-carbon interactions in tree defense and resilience</p>	<p>Workshop Robust sampling design in R: Case studies with TEON and AIM</p>	<p>General Session Post-fire restoration and regeneration</p>		<p>Special Session The disturbance ecology of beavers and how nature-based solutions can shape forests & watersheds</p>
	Organizers: Amy M. Trowbridge, Henry D. Adams	Organizers: Shale Hunter, Nicole Hupp	Moderator: Tom Perry		Organizers: Shelby Weigand, Elissa Chott
10:20am	The role of carbohydrate reserves in predicting herbivore-induced defenses: consequences for insect immunity and population dynamics Amy M Trowbridge	<p>A sound sample design is essential to the success of any monitoring effort. This workshop will first introduce participants to the necessary components of a sample design, followed by an interactive coding session to teach participants how to select spatially balanced samples using the Generalized Random Tessellation Stratified algorithm (GRTS). Pre-registration required.</p>	Reforestation in a changing climate: lessons learned across different planting years Camille Stevens-Rumann		Beavers as a disturbance regime Torrey Ritter
10:40am	Understanding the role of carbohydrates and chemical defenses in forest resilience Morgan Furze		Post-wildfire regeneration: salvage logging and site effects in interior British Columbia Felix Oboite		The ecology of beaver-modified ecosystems Torrey Ritter
11:00am	Carbon limitation after defoliation and its impacts on recovery and resilience Erin Wiley		Assessment of drone-based seeding efficiency in the boreal forest of Quebec, Canada Gabriel Davidson-Roy		Beaver conflict management: Reducing conflicts while keeping the benefits of beaver wetlands Elissa Chott
11:20am	Stored NSC depletion impairs osmoregulation in carbon-limited trees in the field Anna Sala		A retrospective assessment of post-fire planting in the US: Aligning actual and optimal planting sites to address the reforestation gap Lewis Faller		Public lands and beaver management / restoration Kris Richardson
11:40am	Discussion		Questioning resilience: post-fire regeneration of mature black spruce-dominated forests in eastern North America Stelsa Fortin		Low-tech process-based restoration for riparian health Shelby Weigand
12:00pm	Lunch				

Concurrent Sessions: Wednesday, June 24, 10:20am to 12:00pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	Special Session Leveraging Forest Inventory and Analysis (FIA) data to meet forest ecology information needs	Special Session Forest ecosystem vulnerability assessments: Regional approaches and tools to assess climate change risks	Special Session Leveraging the ForestGEO plot network to advance our understanding of temperate forest dynamics	General Session Historical fire regimes	Workshop Integrating spatially explicit restoration treatment effectiveness and beneficial wildfire to quantify ecological integrity
	Organizers: George C. Gaines III	Organizers: Rebecca Rooney, Stephen Handler	Organizers: Sara Germain, Tucker Furniss	Moderator: Emily Francis	Organizers: Michael Case, Crystal Raymond, Travis Woolley, Brian Harvey, Derek Churchill, Kerry Metlen
10:20am	Statistical focal length: balancing depth of field and focus for refined FIA-based small area estimation George C. Gaines III	Bridging the gap: vulnerability assessments guide adaptation in Pacific Northwest national forests Analise Sala	Assessing Rocky Mountain forests for a deeper understanding of North American productivity and resilience Sara Germain	Fire-mediated old-growth development pathways in temperate rainforests: Testing theory with empirical observations Andrew Merschel	Building on the collaborative work between The Nature Conservancy, Western Fire and Forest Resilience Collaborative, and partners, we will explore the state of the science on forest restoration treatment effectiveness and beneficial wildfire and facilitate inclusive discussions on ways that we can quantify the long-term effects on ecological integrity.
10:40am	Skipped FIA plot measurements in federal wilderness: Causes, impacts, and solutions Gianna Santino and Cici Conroy	The Southern Appalachians Forest Ecosystem Vulnerability Assessment: A synthesis of climate change impacts to 2100 Cameron Clay	Forest structure and composition of Cooks Branch ForestGEO plot in the Piney Woods of Texas J. Aaron Hogan	Beyond average: a new approach to calculating fire regime departures applied to Western United States forests Jeffrey Chandler	
11:00am	An overview of candidate methods for regional calibration of the Forest Vegetation Simulator growth and yield model using FIA data Sejal V. Prachand	Climate change impacts on ecosystem vulnerability in the Midwest and Northeast U.S. Rebecca Rooney	Role of microclimate in shaping tree species habitat and geographic ranges Sabrina E. Russo	A new approach to mapping pre-colonial fire regimes and departures across British Columbia Jen Baron	
11:20am	Assessing FIA measurement error and its impacts on estimates of forest status and change Rylee Aksamit	Forest ecosystem vulnerability assessments: regional approaches and tools to assess climate change risks Grace Kirchner	Quantifying biomass accumulation and structural change over a forest chronosequence using terrestrial laser scanning Luca L. Morreale	Landscape-level timber inventories reveal historical frequent-fire forest structure, composition, and competition Jessika McFarland	
11:40am	Applying genetic validation to improve whitebark and limber pine identification in FIA Shayla R. Williams	Assessing forest vulnerability to changing environmental conditions: Utilizing the Forest Ecosystem Atlas Matthew Peters	Extreme heat reverses diversity-maintaining interactions in temperate forests Joseph LaManna	Toward a functional definition of fire-prone savannas, woodlands, and forests Morgan Varner	
12:00pm	Lunch				

Concurrent Sessions: Wednesday, June 24, 1:30pm to 3:10pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Special Session Adaptation strategies in high elevation infrequent fire forests of Western North America</p>		<p>Special Session Simulation and modeling approaches for estimating wildfire risk to build resiliency in the forests of CONUS</p>		<p>Workshop The disturbance ecology of beavers and how nature-based solutions can shape forests & watersheds</p>
	Organizers: Mike Battaglia, Sarah Bisbing, Jonathan Coop		Organizer: Karin L Riley		Organizers: Shelby Weigand, Elissa Chott
1:30pm	Towards treatments for forest futures Jonathan Coop		Forest resilience, wildfire risk, and the choices we face Jamie Peeler		<p>This workshop will demonstrate the complex landscape of partner-led and nature-inspired restoration efforts in Montana as a means to foster resilient riparian ecosystems. Topics will include beavers as a disturbance regime, beaver conflict resolution, public lands management and beaver restoration, and low-tech process-based restoration. Partners will present from nonprofits and agencies.</p>
1:50pm	Vulnerability to climate-driven vegetation transformation in western US subalpine ecosystems Kim Davis		Forecasting mid-century shifts in severe fire danger and implications for forest management Chloe Ochocki		
2:10pm	Looking back to move forward: What 50+ years of provenance trials can tell us about assisted migration in high elevation forests Katie Nigro		Shifts in projected mid-century climate drive changes in wildfire risk in the continental United States Scott N. Zimmer		
2:30pm	Overstory density, microsite facilitation, and climate constraints on Engelmann spruce regeneration Edward Hill		Optimizing fire perimeter buffers to estimate structures threatened Peng Gao		
2:50pm	Open/Break		Simulating potential forest carbon damages due to wildfires in the United States Kevin Young		
3:10pm	Afternoon Break				

Concurrent Sessions: Wednesday, June 24, 1:30pm to 3:10pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	Special Session Successes and challenges of using spatial pattern as a foundation for forest management	General Session Tree growth responses	Workshop Leveraging the ForestGEO plot network to advance our understanding of temperate forest dynamics	Special Session Meeting the wildfire challenge with proactive wildfire and prescribed fire management	Workshop Enabling conditions: What are the critical steps to widespread implementation of flexible NEPA compliance?
	Organizers: Taylor Richmond, Miles LeFevre, Russell Kramer, Sean Jeronimo	Moderator: Anna Ross	Organizers: Sara Germain, Tucker Furniss	Organizers: Cameron E. Naficy	Organizers: Tyler Hoecker, Sophie Gilbert, Derek Churchill
1:30pm	Fundamentals of forest spatial pattern and using spatial reference data Miles LeFevre	Northern Hemisphere conifers grow far faster and are more drought-resilient in the Southern Hemisphere Alex Fajardo	We highlight research using large-scale, longitudinal forest plots to study temperate forests of North America and monitor resilience to global change. This workshop links: 1) an oral symposium of work emerging from cross-plot comparisons, and 2) a workshop to cultivate collaborations and supplementary data streams that support new research.	Increasing prescribed fire on the Helena-Lewis and Clark National Forest Emily Platt	This workshop will gather experts in forest management and NEPA compliance to review bottlenecks and identify enabling conditions to unblock evidence-based management of forests for long-term health. The goal is to define procedures, information, and shared understandings that would allow for widespread use of fast, flexible, and environmentally protective NEPA compliance.
1:50pm	Guided discussion and Q&A Russell Kramer	Stand density effects on ponderosa pine growth and response to drought David W Peterson		How do we instill a culture of fire use in the western US? Crystal Kolden	
2:10pm	Extending spatial pattern concepts into moist forests Sean Jeronimo	Water relations of coastal Douglas-fir and western redcedar in mixed and pure stands Kate Donalessen		Never miss a burn day: Shifting mindsets to achieve more prescribed fire implementation Phil Graeve	
2:30pm	Case study: introducing heterogeneous spatial patterns in a moist forest Taylor Richmond	Fire-induced changes to tree growth: 5-year effects Sharon Hood		Ripple effects of the first wave of fire: why we need to get this right Cameron E. Naficy	
2:50pm	Discussion	Seedling trait variation in response to drought and shade in pinyon pines Yarrow Syskine		Establishing a common operating picture Dustin Doane	
3:10pm	Afternoon Break				

Concurrent Sessions: Wednesday, June 24, 3:40pm to 5:20pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Special Session Adaptation strategies in high elevation infrequent fire forests of Western North America</p>	<p>Training: Silviculture for Non-silviculturists</p>	<p>Special Session Simulation and modeling approaches for estimating wildfire risk to build resiliency in the forests of CONUS</p>		<p>General Session Ecosystem processes</p>
	<p>Organizers: Mike Battaglia, Sarah Bisbing, Jonathan Coop</p>	<p>Organizers:</p>	<p>Organizer: Karin L Riley</p>		<p>Moderator: William Keeton</p>
3:40pm	<p>Making a case for strategic management in infrequent-fire forests Sarah Bisbing</p>	<p>Have you often wondered about the terminology used to describe silviculture and fuels activities? These terms matter because they dictate specific actions to adhere to NFMA and NEPA. Learn about silvicultural terms and how using them correctly can increase the impact of your scientific communication and collaboration.</p>	<p>Fuel treatment reduces predicted wildfire intensity and burn probability, but effect declines rapidly with distance from treatment Karin Riley</p>		<p>Increased deciduous tree dominance reduces wildfire C losses in boreal forests Betsy Black</p>
4:00pm	<p>Opportunities for aspen to mitigate fire hazard in the Intermountain West Maxwell Cook</p>		<p>Imputation of forest inventory data to produce tree-level maps of the continental US for use in estimating carbon risk, wildfire emissions, and wildfire severity Rachel Houtman</p>		<p>Post-fire site conditions and fire frequency shape soil pyrogenic carbon dynamics in subalpine lodgepole pine forests Justin D. Gay</p>
4:20pm	<p>Resistance and resilience of Engelmann spruce forests in western Colorado to spruce bark beetle Kevin J. Barrett</p>		<p>Estimating wildfire carbon risk and annual carbon emissions in forests of the continental US, circa 2014 and 2020 Karin L. Riley</p>		<p>Relevance of forest deadwood for carbon storage and fire risk Mathias Neumann</p>
4:40pm	<p>Assessing subalpine resilience to spruce beetle outbreaks and climate change Vausha Snyder</p>		<p>An analysis framework to simulate the effects of fuel treatments on wildfire smoke events over a 20-year period Laurel Sindewald</p>		<p>Monitoring forest carbon & water flux at continental scales in real time Paul Stoy</p>
5:00pm	<p>Using FVS to evaluate the long-term efficacy of climate change adaptation treatments Neil Williams</p>		<p>Preliminary estimates of PM2.5 emissions tradeoffs for prescribed fire treatments in Okanogan-Wenatchee National Forest Laurel Sindewald</p>		<p>Two decades of carbon storage following management for old-growth forest structure William Keeton</p>
6:00pm	<p>Social and dinner at Caras Park (6:00pm to 10:00pm)</p>				

Concurrent Sessions: Wednesday, June 24, 3:40pm to 5:20pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	General Session Fire ecology	General Session Ecosystem change	Special Session How drinking water utilities are investing in healthy forested headwaters conservation	General Session Plant hydraulics and environmental stress	Workshop Enabling conditions: What are the critical steps to widespread implementation of flexible NEPA compliance?
	Moderator: Camille Stevens-Rumann	Moderator:	Organizer: Adria Surovy	Moderator: Tara Hudiburg	Organizers: Tyler Hoecker, Sophie Gilbert, Derek Churchill
3:40pm	Establishing a collaborative long-term monitoring program: insights from the California Prescribed Fire Monitoring Program Helena S Kleiner	Burned area projections for boreal North America with vegetation feedbacks Anna Spiers	Injecting forestry health into standard water conservation messaging Adria Surovy	Hotter than hot: Photosynthesis and recovery following extreme heat in Douglas-fir canopies Anna Elizabeth Haigh	This workshop will gather experts in forest management and NEPA compliance to review bottlenecks and identify enabling conditions to unblock evidence-based management of forests for long-term health. The goal is to define procedures, information, and shared understandings that would allow for widespread use of fast, flexible, and environmentally protective NEPA compliance.
4:00pm	Pyrogeography in Oregon's Blue Mountains: Context & conditions for burning on private land Kathryn Raeder	Alternative future vegetation pathways reveal potential transformations of western ecosystems Caitlin Littlefield	Building diverse partnerships for source water protections on public watersheds Susan Fricke	Continuous measurements of stem water potential quantify the prevalence of pre-dawn disequilibrium Arthur Endsley	
4:20pm	Variation in small tree bark thickness across conifer species of the western U.S. Anna Ross	A novel model of Canadian wildfire risk for climate assessments Kate Fuller	Creative funding for forested watershed protection in partnership with water utilities Matt Ashley	Variation in hydraulic vulnerability among tree species in a bottomland hardwood forest Ayomide Oyefara	
4:40pm	From fire to flora: Understory plant responses across severity gradients Kat Morici	A continental assessment of climate connectivity and range shift potential for North American trees Matthew Kling	Integrating process-based restoration and adaptive management to achieve watershed resiliency and management objectives Leah Shipstead	Stoma or stomata: investigating the effects of wildfire smoke on riparian trees Francis A. Ulep	
5:00pm	Legacy effects under an emerging novel disturbance regime: a memory-based framework Yihong Zhu	Forest manager-informed risk mapping of ecosystem service loss due to disturbances across the West Coast states Tao Huang	Discussion	Increasing air temperature reduces bark water vapor conductance in temperate forest trees Yinuo Zhou	
6:00pm	Social and dinner at Caras Park (6:00pm to 10:00pm)				

Concurrent Sessions: Thursday, June 25, 10:20am to 12:00pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Special Session Dusting off the toolbox: restoring (pyro-) silvicultural action to western forests to meet wildfire & climate mitigation objectives</p> <p>Organizers: Sarah Bisbing, Mike Battaglia, Mike Jones, Derek Churchill</p>	<p>Workshop Rehabilitating old-growth forest definitions: Reconciling multiple perspectives</p> <p>Organizers: Anna Yang, Roi Ankori-Karlinsky, Frank Halprin, Jacob Fraser, Christel Kern</p>	<p>Workshop Minimizing tradeoffs: A discussion of sharing – sparing – TRIAD approaches</p> <p>Organizers: Klaus Puettmann, Christian Messier, Andreas Wion</p>		<p>Special Session Prioritizing forest function and resilience in wildfire planning and incident response</p> <p>Organizer: Kit O’Connor</p>
10:20am	Dusting off the toolbox: re-establishing silvicultural action in fire-adapted forests Sarah Bisbing	<p>In this workshop, we bring multiple perspectives—academic, silvicultural, Indigenous, social—to reconcile and operationalize old-growth definitions for better science and management of Eastern forests. Recognizing that old-growth forests are more than just trees, we welcome individuals from any discipline to join this conversation that will contribute to the co-creation of a flexible framework of characterizing these forests. This workshop will include a short synthesis of values, definitions, and characteristics of old-growth forests in the Eastern U.S., followed by 80 minutes of guided discussion among co-organizers, panelists, and workshop attendees.</p>	<p>This discussion section explores different zoning approaches (land sharing/sparing, TRIAD) and the associated trade-offs between diverse ecosystem services and values associated with forests.</p>		Enabling proactive fire use for ecological, climate, and social resilience Christopher (Kit) O’Connor
10:40am	Pyrosilviculture in the redwoods: An ecological and regulatory framework Michael I. Jones				Risk-informed wildfire planning supports persistence of large trees and their irrecoverable carbon Jamie Peeler
11:00am	Maintenance burns as a key restoration tool in frequent-fire forests Mike Battaglia				Letting fire work: Landscape modeling to guide wildfire for resource benefit Jesse D Young
11:20am	Resurrecting pinyon-juniper silviculture in an era of rapid change Alexandra Urza				Managing forests for fire risk reduction Joseph Robert St. Peter
11:40am	Scaling up pyro-silviculture through post-fire management in Eastern Washington. Derek Churchill				Proactively identifying beneficial fire windows unlocks opportunities for restoration and adaptation Tyler J. Hoecker
12:00pm	Lunch				

Concurrent Sessions: Thursday, June 25, 10:20am to 12:00pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	General Session Fire ecology	General Session Lidar and structure mapping	General Session Pests and pathogens	Special Session Drought in forested ecosystems: Early career perspectives from across disciplines	General Session Forest ecology and management
	Moderator: Meg Krawchuk	Moderator: Jeff Kane	Moderator: Camille Stevens-Rumann	Organizers: Michael Howe, Shealyn Malone	Moderator:
10:20am	Fueling fire-adapted communities through a rapid wildfire structure risk assessment Jennifer Schmidt	Forest structure mapping using generative AI and NAIP imagery Anthony Marcozzi	Integrated Pest Management development for an invasive insect in aspen Abiral Acharya	Resin-based defenses in Pinus edulis are only reduced after long term drought. Drew MP Peltier	A proposal to center collaborative inquiry and innovation in national forest management Kevin Barnett
10:40am	The pace and scale challenge: Leveraging wildfire footprints to increase forest resilience to future high-severity fire Kristen Wilson	A scalable field-LiDAR framework for predicting structural complexity in northwestern mixed-conifer forests Brandon N. Light	Foundational species loss: Ecological impact of EAB and management in forested wetlands. Erin KP Clark	Fire-caused injuries may temporarily cause reduced tree growth and elevated drought vulnerability Charlotte Reed	Saw, spade, and drip-torch: ecological stewardship on family forestlands in north Idaho Mark E. Swanson
11:00am	Translating complex wildfire smoke data into actionable health and economic impacts for local policy. Thomas Buchholz	Fuels metrics from spaceborne lidar: a new source of forest structure metrics Ethan Ilse	Foliar metabolite variation in conifers shapes their susceptibility to an invasive herbivore Ilga Porth	Modeling drought effects on forest insect populations: not so simple Michael C Howe	The past and future of sustained yield Sean Jeronimo
11:20am	Investing in people to sustain forests: An Indigenous sustainability framework for the U.S. wildfire workforce Bonnie Horgos	Using lidar data to quantify shrub cover after thinning and fuel reduction treatments Harold S.J. Zald	Enough foliage to feed? Host biomass drives hemlock defoliation in southeast Alaska Michelle DesLauriers	Oaks by the sea? Drought transforms an endemic conifer forest Conor Phelan	The Fire Effects Information System: Supporting evidence-based decisions for resilient forest management Taryn Brahmsteadt
11:40am		cloudtrees: An R Package for Aerial Point Cloud-Based Individual Tree Inventories Wade Tinkham	Wildfire increases occurrence of an insect-vectored tree pathogen Seth Davis	Aridification is enhancing tree growth synchrony in the western US Jingshu Wei	Scaling ecological restoration through automated spatial layout of complex silvicultural prescriptions Woodam Chung
12:00pm	Lunch				

Concurrent Sessions: Thursday, June 25, 1:30pm to 3:10pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Special Session Scale it up: Lessons learned from landscape-scale pyro-silviculture</p>		<p>General Session Old forests</p>		<p>Special Session Prioritizing forest function and resilience in wildfire planning and incident response</p>
	<p>Organizers: Derek Churchill, Hugh Safford, Travis Woolley, Sarah Bisbing</p>		<p>Moderator: Chris Keyes</p>		<p>Organizer: Kit O'Connor</p>
1:30pm	<p>Using pyrosilviculture, SDI, and climatic water deficit to increase resilience and scale of forest restoration Malcolm North</p>		<p>Spatially explicit stand structure of reference Fall Line Hills longleaf pine woodlands David Phillips</p>		<p>Adopted strategies for fuel treatment implementation and useful characteristics of fuel treatments in active incidents Melissa Jaffe</p>
1:50pm	<p>Restoring the Klamath landscape through tribal co-stewardship of the Fremont-Winema NF Steve Rondeau</p>		<p>How long does a fire-resilient forest structure last? Natalie C Pawlikowski</p>		<p>Research forests on fire: Reducing uncertainty in long-term research David K Wright</p>
2:10pm	<p>Success in the Sierra: from fuel treatment effectiveness to beyond treatment boundary benefits Saba J. Saberi</p>		<p>When rules are strict: Marking for old growth and uneven-aged ponderosa pine Justin Crotteau</p>		<p>Fostering forest ecology with fire management analytics Rahul Wadhvani</p>
2:30pm	<p>Incorporating prescribed fire and real-time monitoring into wildfire management: the case of the Springs Fire (California, 2019) Hugh Safford</p>		<p>Non-stand replacing disturbances during old-growth development: Lessons for silviculture and restoration Klaus J. Puettmann</p>		<p>Burn the burn: Leveraging the past for a better future Christopher Dunn</p>
2:50pm	<p>Accelerators and barriers to scaling restoration treatments across Northern Arizona forested landscapes Travis Woolley</p>		<p>Old-growth forest effects on low-order streams in dynamic landscapes of the northeastern U.S. William Keeton</p>		<p>Three years after fire: Forest structure and fuel succession following a large wildfire C. Alina Cansler</p>
3:10pm	<p>Afternoon Break</p>				

Concurrent Sessions: Thursday, June 25, 1:30pm to 3:10pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	General Session Needle pine ecology	General Session Fire ecology	Special Session Rehabilitative silviculture for degraded northern hardwood stands	Special Session No surprises: Emerging tree mortality events in the Anthropocene	General Session Forest ecology and management
	Moderator:	Moderator: Mike Saunders	Organizer: John Foppert	Organizers: Drew MP Peltier, Henry Adams	Moderator: Josh Beisel
1:30pm	Influence of forest thinning on the growth and regeneration of whitebark pine Emily Ferrell	Right on time: Evaluating the accuracy and timeliness of initial post-fire assessments Kyle Rodman	Ecological, institutional, and social context of high graded northern hardwood stands Don Radcliffe	Physiological mechanisms of fire- and drought-induced tree mortality and their interaction Henry D. Adams	Floristic diversity in the buffer zone of a voluntary conservation area in Hidalgo, Mexico Carolina Vázquez Chun
1:50pm	Comparison of limber pine seed source performance - early results from field common gardens Kelly Kerr	Effects of wildfire-driven changes in canopy structure on snowpack retention in the western US Kylie Mosher	Rehabilitative silviculture in principle and practice Justin Waskiewicz		Caching in: The relationship between pinyon jays and pinyon seeds in the Southwest USA Ana Miller-ter Kuile
2:10pm	Mountain pine beetle outbreak triggers growth release in small whitebark pine Nickolas Kichas	Long-term impacts of wildfire on potential harvest levels and carbon sequestration in Quebec Mathieu Bouchard	Quantitative tools for optimizing rehabilitative silvicultural prescriptions John Foppert	Acquisitive fine root strategy could predispose yellow-cedar to climate change induced decline Milos Simovic	Forest regeneration research in the New Jersey Pine Barrens Matthew Olson
2:30pm	Growth and defensive responses of whitebark pine to daylighting treatments Nickolas Kichas	Remote-sensing of delayed mortality following wildfire in forests of the Northern Rockies Matthew Reilly	A decade of habitat use data from two Adirondack rehabilitation demonstration areas Lizz Schuyler	Examining bark beetle attack in giant sequoia trees Anthony Ambrose	Resprouting capacity of pyrophytic and mesophytic species under varied fire frequency Tim Shearman
2:50pm	Disentangling the direct and indirect drivers of mortality for a threatened conifer Rachel Lloyd	"Cultural" cultural fire Alice Lincoln-Cook	A panel discussion on rehabilitative silviculture Nathaniel Anderson	Canary in the forest? Dieback of a wet forest species linked to hot drought Robbie Andrus	Characterizing the growth of longleaf pine and the relationship with cone production at the individual tree level Xiongwen Chen
3:10pm	Afternoon Break				

Concurrent Sessions: Thursday, June 25, 3:40pm to 5:20pm

	North Ballroom	Todd 210	Room 326/327	Room 329	Room 330
	<p>Workshop Dusting off the toolbox - working group</p>	<p>Training: Introduction to the Endangered Species Act (ESA)</p>	<p>General Session Adaptive forest management</p>	<p>Workshop NAUFRP and educating the next generation of forest ecologists and managers</p>	<p>General Session Fire modeling</p>
	<p>Organizers: Sarah Bisbing, Derek Churchill, Bryant Nagelson, Conor Phelan</p>	<p>Organizers:</p>	<p>Moderator: Charlotte Reed</p>	<p>Organizer: Charles Goebel</p>	<p>Moderator: Melissa Jaffe</p>
3:40pm	<p>This workshop is designed to provide a discussion space for ongoing conversation and manuscript planning around the development of silvicultural prescriptions and use of silvicultural tools to meet critical wildfire and climate mitigation objectives. All are welcome to join in this conversation that will center on messaging, key knowledge gaps, and strategies for implementation (at scale) of ecological and pyro- silviculture.</p>	<p>Introduction to the Endangered Species Act (ESA) Learn how ESA dictates key components of project planning and land management plans. Learn how to improve communication with forest staff to effectively conduct research on threatened, endangered, and sensitive species or in their habitats.</p>	<p>Are we there yet? Measuring progress towards forest restoration objectives Andreas Wion</p>	<p>The National Association of University Forest Resources Programs (NAUFRP) works to help advance the health, productivity, and sustainability of America's forests. This workshop will follow the NAUFRP special session to provide an opportunity for exploring and discussing the topics presented.</p>	<p>A geospatial metric of exposure to foehn winds for wildfire risk analysis Alan Tepley</p>
4:00pm			<p>Post-harvest fuel loads and fire hazard across two Canadian climate-adaptive silvicultural trials Kaitlyn Hammond</p>		<p>Improving wildfire emission estimates through better representation of coarse woody debris consumption: a review Andrea Duane</p>
4:20pm			<p>The Adaptive Silviculture for Climate Change Network: An applied, co-produced experimental framework Maria Janowiak</p>		<p>Fire progression and severity across fuel treatments in the Western United States Jonathan L Batchelor</p>
4:40pm			<p>Northern lowland hardwood forests: Learning from experience, managing for change Martha Sample</p>		<p>Enhancing forest fire management: Parametric insights into surface-to-crown fire transitions using physics-based simulations Rahul Wadhvani</p>
5:00pm			<p>Seeds for the future: prioritizing cone collection for future-focused reforestation Taylor Fay Akers</p>		<p>Buffering fire: How vegetation controls fire risk and severity in eastern Canada Victor Danneyrolles</p>

Concurrent Sessions: Thursday, June 25, 3:40pm to 5:20pm

	Room 331	Room 332	Room 333	UC Theater	Room 225
	General Session Forest ecology and dynamics	General Session Forest ecology and management	General Session Inventory databases and tools	Special Session No surprises: Emerging tree mortality events in the Anthropocene	General Session Forest ecology and dynamics
	Moderator:	Moderator:	Moderator:	Organizers: Drew MP Peltier, Henry Adams	Moderator: Tara Hudiburg
3:40pm	Sweetgum: rise of the super competitor in southeastern upland forests John Willis	Commercial, compost-derived, and leonardite-derived humic acids as soil improvers Giovanna Rivera Vargas	The extent of forest management activity as estimated by nationwide forest inventory data Christopher Edgar	High-elevation pine physiological responses to drought Danielle Ulrich	Efficient process-based modeling of light attenuation through three-dimensional forest canopies Allison Thompson
4:00pm	Density-dependent competition increases probability of stem damage and constrains forest productivity Josh Beisel	Genetic and management effects on crown and branch architecture in loblolly pine Jinyi Xia	Generating national understory vegetation biomass estimates from FIA vegetation data Kathryn C. Baer	Piute cypress: Survival challenges in a changing Sierra Nevada Amarina Wuenschel	Global tree growth, mortality, and recruitment responses to environmental change: a meta-analysis Andrea Guarino
4:20pm	Global associations between forest tree and fungal communities Ruric O. Bowman	Improving drought resilience through pre-commercial thinning in lodgepole pine Lisa Naa Okai	Overcoming paired data limitations for kNN plot imputation of forest characteristics Lucas Wells	A process of e-limbination? The role of modularity in Juniper drought mortality Zoe Wall	Lessons learned from more than a decade of warming and rainfall manipulations at the boreal temperate ecotone Rebecca A. Montgomery
4:40pm	Hypertemporal tree-to-tree interactions and their role in Southeastern forest stand dynamics Adam Polinko	Sheep grazing effects on vegetation competition and seedling growth in regenerating cutblocks Marin Harnett	Bridging inventory and management: a modular, objective driven monitoring system for evaluating forest treatments Hugh Safford	The role of stress persistence in emerging tree mortality in the Cupressaceae Drew MP Peltier	Species-specific, hypertemporal radial growth response to precipitation extremes in southeastern U.S. forests Joe Carpenter
5:00pm	Ontology matters when assessing conspecific density dependent effects on mortality rates. David M. DeFilippis	Using plants to control buckthorn Mike Schuster	PyFIA: analyzing and visualizing forest attributes using the United States Forest Inventory and Analysis database Xinyuan Wei	Discussion	Abiotic amelioration: how downed wood influences temperature, moisture, and forest regeneration Margaret I. Magee