

# NORTHWEST SCIENTIFIC ASSOCIATION 88th ANNUAL MEETING SCHEDULE

## THURSDAY MARCH 30

8:00 AM	Introductions	
8:15 AM	<b>Susan Harrison</b>	<b>Keynote: Klamath-Siskiyou Plant Diversity: Patterns, Causes, and a Historical Perspective</b>

<b>Plenary Session: Mixed Severity Fire and the Effects on Biodiversity</b>		
9:00 AM	Carl Skinner	Mixed Severity ≠ Mixed Severity ≠ Mixed Severity
9:35 AM	Dominick A. DellaSala	Integrating pyrodiversity and fire management: What happened to biodiversity?
10:10 AM	BREAK	
10:40 AM	Chris Dunn	Beyond patch-size distributions: An emergent property of mixed-severity fire regimes
11:15 AM	John Bailey	Restoring mixed-severity fire-prone landscapes
11:50 AM	Q & A Discussion	Led by Moderator Gregg Riegel

**12:00 Lunch**

<b>Woodland / Savannah Ecosystems: Diversity, Management, &amp; Restoration</b>		
1:20 PM	Constance A. Harrington	Oregon white oak response to thinning: 12-year results
1:40 PM	Eamon Engber	Restoration and maintenance of deciduous oak woodlands on two Klamath Network parks in northern California
2:00 PM	Jaime L. Stephens	Chaparral landscape amount and local patch size influence songbird occupancy
2:20 PM	Sean Prive	Overstory structure development and community characteristics of Oregon ash ( <i>Fraxinus latifolia</i> ) forests of the Willamette Valley, Oregon
2:40 PM	Break	
3:00 PM	Maia Black	New opportunities for conservation and field research in oak ecosystems of southwest Oregon
3:20 PM	Ellen Goheen	Managing sudden oak death in Oregon tanoak forests: Past, present, and future

<b>4:00-6:00</b>	<b>Poster Session</b>	See last page for titles
<b>6:30-9:30</b>	<b>Banquet</b>	Pepper Trail: Fighting Wildlife Crime With Science: The Casebook of a Forensic Biologist

## FRIDAY MARCH 31 - MORNING

<b>Causes and Consequences of Post-fire Landscape and Vegetation Change in Northern California</b>		
8:20 AM	Jens T. Stevens	Understory vegetation responses to fire and forest management in California mixed-conifer forests
8:40 AM	Gabrielle N. Bohlman	The effect of post-fire reforestation on the understory plant community
9:00 AM	Jesse E. D. Miller	Effects of fire severity on herbaceous plant biodiversity
9:20 AM	Zachary Steel	The influence of burn severity on bat species occurrence in post-fire landscapes
9:40 AM	Alexandra M. Weill	From plants to people: how do Californians interact with regenerating post-fire landscapes
10:00 AM	Break	
10:40 AM	Michelle Coppoletta	Influence of post-fire vegetation and fuels on fire severity patterns in reburns: Implications for restoration
11:00 AM	Kevin R. Welch	Increasing fire severity challenges forest resilience in California's mid-elevation mixed conifer forests
11:20 AM	Derek J. N. Young	Post-fire forest regeneration in a changing climate: Observational insights from the northern Sierra Nevada and Southern Cascades
11:40 AM	Chhaya M. Werner	Post-fire recruitment of two conifer species under manipulated drought and shrub competition conditions

<b>Aquatic Systems</b>		
8:20 AM	Kurt S. Imhoff	Bedload dispersion through confluences in a gravel-bed river headwaters
8:40 AM	Steve Niemela	Presence/absence survey of <i>Rana boylei</i> comparing traditional visual encounter vs EDNA digital PCR detection
9:00 AM	Emily R. Wolfe	Fungal endophyte-infected <i>Acer macrophyllum</i> litter alters in-stream microbial decomposer communities
9:20 AM	Lance Wyss	Targeted restoration: Helping recover critical habitat for coho salmon
9:40 AM	Andrew W. Child	Paleo-forensic-limnology: tracking long-distance deposition of airborne smelter emissions in remote lakes

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10:00 AM **BREAK**

<b>Ecology</b>		
10:40 AM	Gregory J. Retallack	Another lichen-like post-Ediacaran vendobiont from the Devonian of New York
11:00 AM	Golnaz Badr	Spatial site assessment for vineyards in Oregon state
11:20 AM	Cole D. Gross	Soil carbon and nitrogen response to thinning and fertilization treatments in a coastal Pacific Northwest forest
11:40 AM	Michelle Reilly	Spatial and temporal response of wildlife to recreational activities in the San Francisco Bay ecoregion

8:00-11:20	NW Lichenologists	WORKSHOP: Biodiversity of White Oak Dwelling Lichens and Bryophytes
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<b>Lichen Ecology</b>		
11:20 AM	Roger Rosentreter	Site suitability evaluation for translocating the federally endangered lichen, <i>Cladonia perforata</i>
11:40 AM	Ricardo Miranda-Gonzalez	Lichen-invertebrate interactions in tropical dry forests

12:00 **NWSA Business Lunch**

### FRIDAY MARCH 31 - AFTERNOON

<b>Protecting Diversity in Northwest National Parks</b>		
1:20 PM	John D. Alexander	Using regional bird density distribution models to evaluate protected area networks and inform conservation planning
1:40 PM	Richard A. Sniezko	Using natural genetic variation to maintain forest tree species in the face of non-native diseases, insects, and climate change
2:00 PM	Jherime L. Kellermann	Snowmelt, phenology, and growing season length in Crater Lake National Park
2:20 PM	Regina Rochefort	The Cascades Butterfly Project: Monitoring butterflies and plant phenology as indicators of climate change
2:40 PM	Break	
3:20 PM	Jherime L. Kellermann	Black-backed woodpecker and wood-boring beetle associates with post-fire burn severity following the National Creek Fire.
3:40 PM	Michael S. Parker	Status and conservation of the threatened Oregon spotted frog ( <i>Rana pretiosa</i> ) at Parsnip Lakes, Cascade-Siskiyou National Monument
4:00 PM	Dave Hering	Eradication of nonnative trout and the response of threatened bull trout in Sun Creek: Working with partners to conserve native fish diversity in and around Crater Lake National Park
4:20 PM	Kathleen Page	Microbial ecology of Crater Lake's deep-water moss
4:40 PM	Mark W. Buktenica	The impact of introduced crayfish on a unique population of salamander in Crater Lake, Oregon, and mechanisms for replacement

<b>Historic Landscapes of the Klamath Province</b>		
1:20 PM	Luke Ruediger	Historic Osborne Lookout photos: Historic photographs and landscape change in the Applegate watershed
1:40 PM	Dominic A. DiPaolo	Vegetation change following the forest reserve homestead act of 1906 in the Applegate River Watershed, Oregon
2:00 PM	Gene Hickman	Early landscape photography & historical (GLO) vegetation mapping of the central rogue valley near Medford, Oregon
2:20 PM	Tom DeMeo	Expanding our understanding of forest structural restoration needs in the Pacific Northwest

<b>Lichen Ecology (cont.)</b>		
1:20 PM	Abby L. Glauser	Cyanolichen distribution along a west-east climate gradient in Oregon
1:40 PM	Nils Nelson	Biodiversity and floristic patterns of epiphytic macrolichens on <i>Quercus garryana</i> in the Cascade-Siskiyou National Monument
2:00 PM	Robert J. Smith	Vulnerability of forest lichen communities to species loss under climatic warming
2:20 PM	Bruce McCune	Estimating age of rock cairns in southeast Alaska by combining evidence from successional metrics, lichenometry, and carbon dating

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2:40 PM

### BREAK

Northern California Lichenology		
3:20 PM	Steve Sheehy	Cataloging the lichens of Lava Beds National Monument
3:40 PM	Tom Carlberg	<i>Scytinium singulare</i> , a new lichen species from coastal California
4:00 PM	Shelly Benson	Lichens in the mist: Investigating California's fog lichens
4:20 PM	Alexander Young	Zonation of epiphyte dwelling meiofauna in a Douglas-fir forest canopy
4:40 PM	Eric B. Peterson	Macro-photogrammetry using structure-from-motion (SfM) to capture lichens with high-precision point clouds

3:20-5:00	Dylan G. Fischer	Student Workshop on Best Practices for Submitting and Publishing Manuscripts in Scientific Journals
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### POSTER SESSION

1	Maia Black	UTILIZING CITIZEN SCIENCE TO INVENTORY BIOLOGICAL RESOURCES ON THE SAMPSON CREEK PRESERVE
2	Leslie C. Brodie	14-YEAR SEEDLING RESPONSE OF 3 CONIFEROUS SPECIES TO VARYING LEVELS OF OVERSTORY RETENTION
3	Andrew Child	FRESHWATER FOOD POISONING: TRACKING AVAILABILITY AND BIOACCUMULATION OF HEAVY METALS IN FRESHWATER ZOOPLANKTON IN NORTHEASTERN WASHINGTON LAKES
4	Carla Cole	ACCELERATING DIVERSITY THROUGH VARIABLE DENSITY THINNING IN A COASTAL TEMPERATE RAINFOREST
5	Meghan Flannery	IDENTIFICATION OF FUNGI ASSOCIATED WITH POLLEN IN CRATER LAKE
6	Dan Gavin	LONG-DISTANCE JUMP DISPERSAL BUT SLOW RANGE INFILLING OF MOUNTAIN HEMLOCK IN THE INTERIOR PACIFIC NORTHWEST
7	Amanda Goddard	EFFECTS OF SALINITY REGIMES ON COASTAL BREEDING AMPHIBIANS IN OREGON
8	David Hering	GROWTH AND SITE FIDELITY OF INDIVIDUALLY MARKED AND RECAPTURED JENNY CREEK SUCKERS IN THE CASCADE SISKIYOU NATIONAL MONUMENT, OREGON
9	Reyn A. Hutten	AVERAGE ANNUAL RECESSION AND VARIABLES EFFECTING RECESSION RATE OF SHAKES GLACIER IN SOUTHEASTERN ALASKA
10	Christina Murphy	EVALUATION OF TRACE ELEMENT CONCENTRATIONS IN OREGON'S EDIBLE WILD-FORAGED MUSHROOM SPECIES
11	Kate S. Petersen	QUANTIFYING SEASONAL VARIABILITY IN NITROGEN-FIXATION BY CYANOBACTERIA ASSOCIATING WITH MOSSES <i>NIPHOTRICHUM ELONGATUM</i> , <i>PLEUROZIDIUM SCHREBERI</i> AND <i>RHYTIDIADELPHUS TRIQUETRUS</i> IN A NORTHWEST PRAIRIE ECOSYSTEM
12	Stephanie Pierce	IDENTIFICATION OF NITROGEN-FIXING CYANOBACTERIA-MOSS SYMBIONTS OF THE SOUTH PUGET SOUND PRAIRIES, WASHINGTON STATE
13	Samantha M. Roof	INFLUENCE OF FLOWER NATIVE STATUS, COLOR, AND MORPHOLOGY ON VISITING PREFERENCES OF BEES IN RIPARIAN AREAS OF EASTERN OREGON
14	Chris Shipway	CARBON SEQUESTRATION IN A NORTHWEST FOREST; AN EXAMINATION OF SPECIES-SPECIFIC CONTRIBUTIONS
15	Sean B. Smith	VASCULAR PLANT HYPERDIVERSITY IN HIGH-ELEVATION RIPARIAN COMMUNITIES OF NATIONAL PARK SERVICE UNITS IN THE KLAMATH NETWORK
16	Richard Snieszko	GENETIC VARIATION IN HEIGHT AND RESISTANCE TO WHITE PINE BLISTER RUST IN FOXTAIL PINE ( <i>PINUS BALFOURIANA</i> ) AND LIMBER PINE ( <i>P. FLEXILIS</i> )
17	Teresa M. Vail	BREAKING BUD: THE DRIVING FORCES BEHIND OREGON WHITE OAK'S BUDBURST PHENOLOGY
18	John Villella	TARDIGRADES IN THE CANOPY: LIVING WITH THE RED TREE VOLE
19	Sarah Ward	THE EFFECTS OF MICROCLIMATE ON SPRING PHENOLOGY AT THE H.J. ANDREWS EXPERIMENTAL FOREST IN WESTERN OREGON
20	Chhaya M. Werner	SPATIAL AND TEMPORAL CONTINGENCY IN RAPID PRIMARY SUCCESSION FOLLOWING REMOVAL OF THE ELWHA RIVER DAMS
21	Douglas J. Westlund	ATTRACTION OF RED TURPENTINE BEETLE AND OTHER SCOLYTINAE TO TRAPS RELEASING ETHANOL, 3-CARENE, OR BOTH IN AN OREGON PINE FOREST

### SATURDAY APRIL 1 - FIELD TRIPS: 8:30 AM - 1:00 PM

Lichens and Mosses of Sampson Creek Preserve
Oak and Chaparral Restoration and Endemic Plants of Lower Table Rock
Ashland Watershed Restoration Field Trip