

Cascadia Prairie-Oak Partnership 2015 Conference

CONSERVATION WITHOUT BORDERS

Working Across Boundaries to Restore Prairie and Oak Communities

October 26-29, 2015 | Tacoma, Washington

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CONFERENCE PROGRAM



Cascadia
Prairie-Oak
Partnership

Visit CPOP online: cascadiaprairieoak.org

About the Cascadia Prairie-Oak Partnership

CPOP was created to increase coordination between conservation focused professionals interested in prairie and oak conservation in order to promote conservation action, leverage funding, and expand recovery efforts.

CPOP STEERING COMMITTEE

Thank you to the following individuals for assisting with the planning of the conference and for providing guidance and enthusiasm year round in their roles as members of the CPOP Steering Committee.



Top: Balsam root (*balsamorhiza*) grows at CNLM's Violet Prairie Seed Farm.

Bottom: Conservation partners discuss regional seed production.

CPOP Coordinator Elspeth Kim (ekim@cnlm.org)

Bob Altman American Bird Conservancy

Ed Alverson

Hannah Anderson, Pat Dunn, Peter Dunwiddie, and Sarah Hamman Center for Natural Lands Management

Matt Gibbons The Nature Conservancy, Oregon

Tom Kaye Institute for Applied Ecology

Mary Linders Washington Dept. of Fish and Wildlife

James Lynch Joint Base Lewis-McChord

Jonathan Soll and Elaine Stewart Metro

Ted Thomas US Fish and Wildlife Service

CONFERENCE SPONSORS

Thank you to the following for their generous support of this conference:



Center for
Natural Lands
Management



CASCADIA PRAIRIE-OAK PARTNERSHIP



CascadiaPrairieOak.org

The Cascadia Prairie-Oak Partnership supports ecoregional conservation of prairie-oak habitats and associated species by facilitating information exchange, linking entities, and generating incentives for priority actions.

Workshops & Initiatives

CPOP promotes coordinated ecoregional conservation to improve on the ground outcomes. In addition to coordinating working groups and hosting workshops and conferences such as this, CPOP helps get partners thinking and working together to advance landscape scale restoration and recovery efforts.



Conservation partners tour Benton County's Beazell Memorial Forest.

Technical Library

Over 350 documents relating to prairie and oak conservation are available on the CPOP technical library. Find journal articles, management guides, conservation strategies, identification guides, project reports, and federal register documents all in one place. *Find it at cascadiaprairieoak.org/technical-library.*

Listserv

Over 600 land managers, researchers, policy makers, land owners, and interested individuals use the CPOP listserv to discuss best management practices, share newsletters and publications, and learn about upcoming conference and workshops. *Sign up on the CPOP homepage: cascadiaprairieoak.org.*

The Cascadia Prairie Oak Partnership is coordinated by the South Sound Program of the Center for Natural Lands Management.

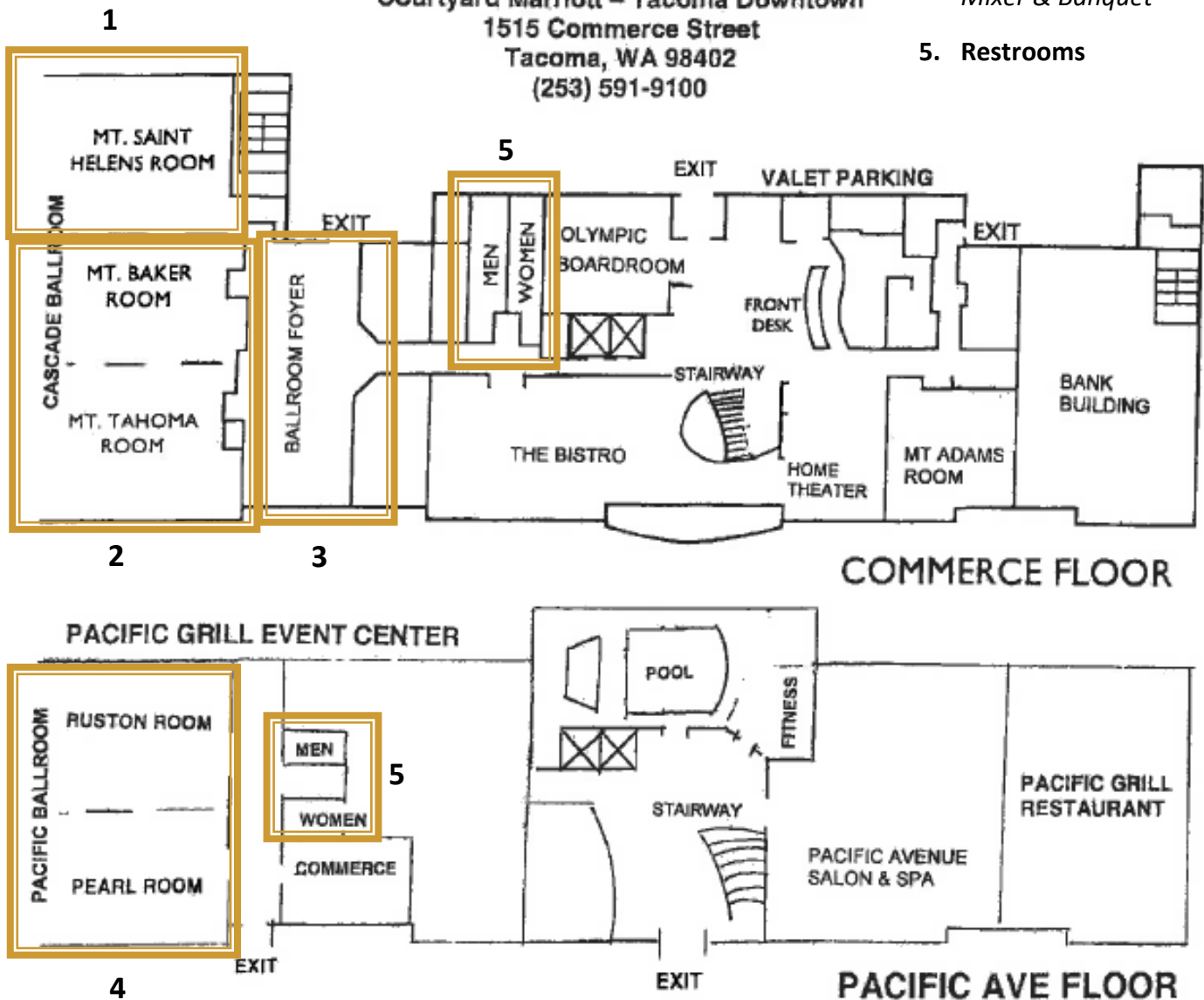
Facility Map



Courtyard Marriott – Tacoma Downtown
 1515 Commerce Street
 Tacoma, WA 98402
 (253) 591-9100

Key Locations

1. **St. Helens Room**
Concurrent Sessions
2. **Tahoma/Baker Room**
Concurrent Sessions
3. **Foyer**
Poster Session & Breaks
4. **Pacific Ballroom**
Mixer & Banquet
5. **Restrooms**



Wi-Fi is available for conference attendees.

Network Name:

Password:

Conference Overview

Monday	Tuesday	Wednesday	Thursday
26-Oct	27-Oct	28-Oct	29-Oct
Coffee/tea and light breakfast available in Foyer (8:00-8:30)			Field trips (+\$25) Depart ~8 am Return by 4 pm
Registration/Check In Foyer (8:30-10:00)	Welcome and Keynote Tahoma/Baker (8:30-9:30)	Concurrent Session 6 Tahoma/Baker & St. Helens (8:30-10:40)	
	Break (9:30-9:50)		
Concurrent Session 1 Tahoma/Baker & St. Helens (10:00-12:00)	Concurrent Session 3 Tahoma/Baker & St. Helens (9:50-12:00)	Break (10:40-11:00)	
		Break out meetings Tahoma/Baker & St. Helens (11:00-12:00)	
Lunch Provided in Foyer (12:00-1:00)			
Concurrent Session 2a Tahoma/Baker & St. Helens (1:00-2:20)	Concurrent Session 4 Tahoma/Baker & St. Helens (1:00-2:20)	Concurrent Session 7a Tahoma/Baker & St. Helens (1:00-2:20)	
Break Snacks Provided in Foyer (2:20-2:40)			
Concurrent Session 2b Tahoma/Baker & St. Helens (2:40-4:20)	Concurrent Session 5 Tahoma/Baker & St. Helens (2:40-4:20)	Concurrent Session 7b Tahoma/Baker & St. Helens (2:40-4:20)	
Break			
	Poster Session Foyer (4:30-6:00)		
Welcome Mixer Pacific Ballroom (5:00-6:30)			
	Banquet (+\$35) Pacific Ballroom (6:30-8:30)		

Schedule of Speakers

	Monday, October 26th		Tuesday, October 27th		Wednesday, October 28th		Thursday, October 29th
	Mt. Baker/ Mt. Tahoma Room	Mt. Saint Helens Room	Mt. Baker/ Mt. Tahoma Room	Mt. Saint Helens Room	Mt. Baker/ Mt. Tahoma Room	Mt. Saint Helens Room	Off-Site
8:00 AM							
8:30 AM			Coffee & Pastries Available		Coffee & Pastries Available		
8:50 AM			Scott Hoffman Black, Xerces Society		Gary Slater	Kim Klementowski	
9:10 AM					Adrian Wolf	Grazing	Greg Fitzpatrick
9:30 AM					Randy Moore	Birds (Larks)	Sarah Hamman
9:40 AM							
9:50 AM			Keynote Address (8:30-9:40)		10 minute break		
10:00 AM					Bob Altman	Marty Chaney	
10:10 AM					Mary Bushman	Grazing	Fred Colvin
10:20 AM					Jaime Stephens	Birds	Panel Q&A
10:30 AM							
10:40 AM					Break (10:40-11:00)		
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Monday, October 26th		Tuesday, October 27th		Wednesday, October 28th		Thursday, October 29th
Mt. Baker/ Mt. Tahoma Room		Mt. Saint Helens Room		Mt. Baker/ Mt. Tahoma Room		Mt. Saint Helens Room
Check-in/Registration Open FOYER		Coffee & Pastries Available		Coffee & Pastries Available		
		Scott Hoffman Black, Xerces Society		Gary Slater	Kim Klementowski	
		Keynote Address (8:30-9:40)		Adrian Wolf	Grazing	Greg Fitzpatrick
				Randy Moore	Birds (Larks)	Sarah Hamman
		20 Minute Break (9:30-9:50)		Bob Altman	Marty Chaney	
				Mary Bushman	Grazing	Fred Colvin
				Jaime Stephens	Birds	Panel Q&A
		Break (10:40-11:00)				

Monday, October 26th

8:30 am—10:00 am

REGISTRATION/CHECK IN

Foyer

10:00 am—12:00 pm

CONCURRENT SESSION 1

Tahoma/Baker & St. Helens

Restoration & Resiliency Session

Location: Tahoma/Baker Rooms

Moderator: Peter Dunwiddie

Monitoring and Assessment Session

Location: St. Helens Room

Moderator: TBD

10:00 – 10:20

How I Learned to Stop Worrying and Love Bare Ground. Elaine Stewart, Metro

Coverboard Assessment of Reptiles at West Rocky Prairie, Thurston County, WA. Marc Hayes and Julie Tyson, Washington Department of Fish and Wildlife

10:20 – 10:40

The Prairies Edge: Unusual Vegetation of the Southeast Olympic Peninsula. David Peter, US Forest Service

Post-Fire Distribution of Mazama Pocket Gopher on Joint Base Lewis-McChord. Bill Kronland, Center for Natural Lands Management

10:40 – 11:00

Establishing New Populations of a Rare Species: Lessons from Golden Paintbrush. Adam Martin, Center for Natural Lands Management

Comparing Northwest Garry Oak Prairies and Dutch Inland Dunes, Grasslands and Heathlands and the Effect of Nitrogen Deposition. Carleen Weebers, University of Washington - Bothell

11:00 – 11:20

Potential Effects of Climate Change on Rare Native Species in Oregon: An Assessment with Climate Driven Population Models. Tom Kaye, Institute for Applied Ecology

The Prairie Quality Monitoring Project: Measuring Restoration Success on the South Sound Prairies. Cara Applestein, Center for Natural Lands Management

11:20 – 11:40

Is Restoration Dead? The Future of Prairie Conservation in the Pacific Northwest. Peter Dunwiddie, Center for Natural Lands Management

Rapid Habitat Assessment: Assessing Site Suitability and Detecting Habitat Change for a Federally Endangered Species. Mary Linders, Washington Department of Fish and Wildlife

11:40 – 12:00

Panel Q&A

Prairie Habitat Monitoring on Joint Base Lewis-McChord. Bill Kronland, Center for Natural Lands Management

12:00 pm– 1:00 pm

LUNCH

Foyer

Lunch will be served buffet style. We have done our best to provide a variety of options to meet dietary needs. Please enjoy your lunch *and* help us get back to sessions promptly at 1:00. Since folks will be eating in the same rooms as the sessions occur, hotel staff will collect dishes and trays will be available for anyone with dishes that were not collected. Thank you!

Monday, October 26th (continued)

1:00 pm—2:20 pm

CONCURRENT SESSION 2 (PART A)

Tahoma/Baker & St. Helens

Special Session

Maximizing Benefits and Minimizing Risk to Rare Species: Management Challenges in Occupied Areas

Location: Tahoma/Baker Rooms

Coordinated by: Sarah Hamman and Hannah Anderson, Center for Natural Lands Management

The use of land management tools such as prescribed fire and herbicide is often limited in areas occupied by threatened or endangered species, due to potential negative impacts on these sensitive organisms. This makes maintaining or enhancing habitat quality for these species difficult, for without active management, prairie habitat quickly becomes unsuitable. To address this challenge, researchers and managers have teamed up throughout the region to identify ways to fine-tune management strategies to improve habitat quality while reducing or preventing negative impacts on rare or listed species.

This session, hosted by the Northwest Fire Science Consortium and the Cascadia Prairie Oak Partnership, is focused on sharing ideas and research findings on habitat restoration strategies (including fire, herbicide application, mowing) that can maximize conservation gains while minimizing risks to listed animal and plant species.

Special Session

Sustainability In Prisons Project in Oregon and Washington: Conservation Across Social Borders

Location: St. Helens Room

Coordinated by: Carl Elliott, Sustainability in Prisons Project

SPP is a partnership between Corrections and Evergreen plus the many many partner organizations that help with the programs. Following the wonderful success of pilot activities, the Sustainability in Prisons Project was formalized with an Interagency Agreement on July 1, 2008. The project fully expanded into three additional prisons, and the same time the range of programming grew to include science education, conservation biology, sustainable operations, and community contributions in all facilities. This growth represented partnerships with increasingly diverse partners and contributors. It also represented innovation and collaboration, and especially so in the face of budget or staffing challenges. SPP proved itself resilient, and continued to grow.

Nine presentations will each highlight a unique aspect of how the Sustainability in Prisons Project has contributed to conservation of prairies, oak woodlands and other ecosystems.

1:00 – 1:20

Endangered Species Recovery: Not for the Weak at Heart. Ted Thomas, US Fish and Wildlife Service

The Process of Building Partnerships. Kelli Bush, Sustainability in Prisons Project

1:20 – 1:40

Management Strategies for Species of Greatest Conservation Need in South Puget Sound Grasslands. David Hays, Washington Department of Fish and Wildlife

Reaching Across the Wall to Save Endangered Butterflies: Opportunities and Challenges for Zoos Partnering with Prisons. Karen Lewis, Oregon Zoo

1:40 – 2:00

Mitigation Strategies for Prescribed Burning in Rare and Endangered Species Habitat. John Richardson, Joint Base Lewis-McChord

The Taylor's Checkerspot Butterfly Rearing Program at Mission Creek Center for Women: Breeding Butterflies in Prison. Lindsey Hamilton, Sustainability in Prisons Project

2:00 – 2:20

Understanding Effects of Fire on Above- and Below-Ground Habitat for Taylor's Checkerspot Butterfly. Adam Martin, Center for Natural Lands Management

The Taylor's Checkerspot Butterfly Rearing Program at Mission Creek Center for Women: Peer to Peer Training and the Inmate Experience. Carolina Landa, Sustainability in Prisons Project

2:20 pm– 2:40 pm

BREAK

Foyer

Monday, October 26th (continued)

2:40 pm—4:20 pm

CONCURRENT SESSION 2 (PART B)

Tahoma/Baker & St. Helens

Special Session (continued)

Maximizing Benefits and Minimizing Risk to Rare Species: Management Challenges in Occupied Areas

Location: Tahoma/Baker Rooms

Coordinated by: Sarah Hamman and Hannah Anderson, Center for Natural Lands Management

Special Session (continued)

Sustainability In Prisons Project in Oregon and Washington: Conservation Across Social Borders

Location: St. Helens Room

Coordinated by: Carl Elliott, Sustainability in Prisons Project

2:40 – 3:00

Application of Spatial Models to Design Fire Disturbance Regimes in Prairie Systems and Manage Threatened Butterfly Populations. Joseph Smokey, Washington State University - Vancouver

Raising Frogs and Turtles in Prison: A Metamorphosis. Sadie Gilliom, Sustainability in Prisons Project

3:00 – 3:20

Controlling Invasives When Species are Present: The RESIST Database and Wiki as a Resource for Land Managers. Tom Kaye, Institute for Applied Ecology

Supporting Prison Conservation Efforts Through Diverse Partnerships. Larkin Guenther, Institute for Applied Ecology

3:20 – 3:40

Managing Around Vulnerabilities for the Streaked Horned Lark. Hannah Anderson, Center for Natural Lands Management

Building a Conservation Nursery Education Program that Benefits the Community. Conrad Ely, Sustainability in Prisons Project

3:40 – 4:00

Managing Risk on Occupied Sites: A Grid-Based Approach to Habitat Maintenance and Restoration. Mary Linders, Washington Department of Fish and Wildlife

Engaging Prisons in Sagebrush Propagation. Stacy Moore, Institute for Applied Ecology

4:00 – 4:20

Panel Q & A

Research on Seed Germination Ecology with Corrections Centers. Carl Elliott, Sustainability in Prisons Project

5:00 pm– 6:30 pm

WELCOME MIXER

Pacific Ballroom

Light appetizers and one complimentary beverage provided.



Tuesday, October 27th

8:00 am—8:30 am	COFFEE AND PASTRIES AVAILABLE	Foyer
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8:30 am—9:30 am	KEYNOTE ADDRESS	Tahoma/Baker
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8:30 – 8:40 **Welcome and Introduction.** Elspeth Kim, Center for Natural Lands Management

8:40 – 9:30 **Bringing Back the Pollinators: An Integrated Landscape Approach to Pollinator Conservation.** Scott Hoffman Black, Xerces Society.

Scott Hoffman Black is the Xerces Society's executive director. He also serves as chair of the International Union for Conservation of Nature (IUCN) Butterfly Specialist Group, deputy chair of the IUCN Invertebrate Conservation Subcommittee, chair of the Migratory Dragonfly Partnership, co-chair of the Monarch Joint Venture, and as an ex officio member of the Federal Monarch Butterfly High Level Working Group. Scott holds a master's degree in ecology and a bachelor's degree in horticulture, both through the College of Agricultural Sciences at Colorado State University. He has authored more than two hundred scientific and popular publications, co-authored three books, and contributed chapters to several others, and his work has been featured in newspapers, magazines, and books as well as on radio and television. Scott received the 2011 Colorado State University College of Agricultural Sciences Honor Alumnus Award and the U.S. Forest Service Wings Across the Americas 2012 Butterfly Conservation Award, among others.

9:30 am– 9:50 am	BREAK	Foyer
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9:50 am– 12:00 pm	CONCURRENT SESSION 3	Tahoma/Baker & St. Helens
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Special Session

Oak Habitat Restoration: Project Planning to Lessons Learned

Native Plant Propagation

Location: Tahoma/Baker Rooms

Location: St. Helens Room

Coordinated by: The Nature Conservancy, Oregon; City of Eugene; Metro; and WA Dept. of Natural Resources

Moderator: TBD

This session will focus on oak habitat restoration projects from across the region. From the different speakers, we hope to demonstrate the various habitat conditions, ecological objectives, and treatment methods involved in doing oak restoration work. In addition, the talks in this session will present a variety of monitoring approaches, financial strategies, and project outcomes that illustrate the complexity inherent in oak projects. We hope to highlight all aspects of oak restoration projects that might be of interest to the restoration practitioner: project successes, difficulties, and lessons learned.

Tuesday, October 27th (continued)

9:50 am– 12:00 pm

CONCURRENT SESSION 3

Tahoma/Baker & St. Helens

Special Session (continued)

Oak Habitat Restoration: Project Planning to Lessons Learned

Location: Tahoma/Baker Rooms

Coordinated by: The Nature Conservancy, Oregon; City of Eugene; Metro; and WA Dept. of Natural Resources

Native Plant Propagation (continued)

Location: St. Helens Room

Moderator: TBD

9:50 – 10:10

From Oaks to Fish: Oak Project Synergies with Instream and Wetland Restoration Needs. Matthew Gibbons, The Nature Conservancy

Expanding the Palette: An Experimental Approach to Native Seed Production. Drew Schneider, Center for Natural Lands Management

10:10 – 10:30

Oak Habitat Restoration Projects in Eugene, Oregon: Objectives, Implementation, and Lessons Learned. Emily Steel, City of Eugene

Predators and Pathogens in Native Seed Production: The Consequences of Growing a High Diversity Buffet of Plants and Seeds. Lynda Boyer, Heritage Seedlings

10:30 – 10:50

Oak Forest Restoration at Washougal Oaks Natural Area. Carlo Abbruzzese, Washington Department of Natural Resources

Sourcing Native Plant Materials through the Willamette Valley Native Plant Materials Partnership. Jenny Getty, Institute for Applied Ecology

10:50 – 11:00

Short Break

Short Break

11:00 – 11:20

Reversing 100 years of Conifer Encroachment in Sensitive Garry Oak-Grassland Bald Habitats. David Wilderman, Washington Department of Natural Resources

Genetic Changes Associated with Ex Situ Native Plant Propagation and Consequences for Reintroductions: Case Study in *Castilleja Levisecta*. Adrienne Basey, Chicago Botanic Garden

11:20 – 11:40

A Staggered Approach to Oak Release on Turtleback Mountain, Washington. Eliza Habegger, San Juan County Land Bank

We're Not Growing Vegetables Anymore: Producing Seed That Keeps Populations Wild. Sierra Smith, Center for Natural Lands Management

11:40 – 12:00

Revisiting Oak Release After Three Years: Successes, Lessons, and Next Steps. Elaine Stewart, Metro

Title TBD. Todd Jones, Fourth Corner Nurseries

12:00 pm– 1:00 pm

LUNCH

Foyer

Lunch will be served buffet style. We have done our best to provide a variety of options to meet dietary needs. Please enjoy your lunch *and* help us get back to sessions promptly at 1:00. Since folks will be eating in the same rooms as the sessions occur, hotel staff will collect dishes and trays will be available for anyone with dishes that were not collected. Thank you!

Tuesday, October 27th (continued)

1:00 pm—2:20 pm	CONCURRENT SESSION 4	<i>Tahoma/Baker & St. Helens</i>
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Butterflies

Location: Tahoma/Baker Rooms

Moderator: TBD

Camas

Location: St. Helens Room

Moderator: Ed Alverson

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| 1:00 – 1:20 | Deer Herbivory Significantly Reduces Larval Survivorship in a Rare Pierid, <i>Euhchloe Ausonides Insulanus</i> (Lepidoptera, Pieridae). Amy Lambert, University of Washington | Native Bulbs and Ecological Restoration in the Prairie Oak Habitats of the Willamette Valley-Puget Trough-Georgia Basin Ecoregion. Ed Alverson |
| 1:20 – 1:40 | Host Plants of Golden Paintbrush Influence Its Suitability As a Food Source for Checkerspot Butterfly Larvae. Nathan Haan, University of Washington | Species Differences in Western Camassia (Agavoideae: Asparagaceae): What are the Implications for Conserving or Restoring Prairie and Oak Savanna Populations? Susan Kephart, Willamette University |
| 1:40 – 2:00 | Taylor's Checkerspot Reintroduction: A Commitment of Patience and Persistence. Mary Linders, Washington Department of Fish and Wildlife | Graminoid-Specific Herbicide Application Does Not Impact <i>Camassia Quamash</i> (Common Camas) Growth, Abundance, Reproduction, or Predation. Alex Lincoln, Center for Natural Lands Management |
| 2:00 – 2:20 | Butterflies of Conservation Concern in Western Washington Prairies and Oak Woodlands: Updates to Status and Preliminary Field Observations from a 2013-2015 Study. Ann Potter, Washington Department of Fish and Wildlife | Welcoming Native People to Metro Natural Areas. Curt Zonick, Metro |

2:20 pm– 2:40 pm	BREAK	<i>Foyer</i>
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2:40 pm—4:20 pm	CONCURRENT SESSION 5	<i>Tahoma/Baker & St. Helens</i>
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Pollinators

Location: Tahoma/Baker Rooms

Moderator: Susan Waters, Center for Natural Lands Management

Mapping

Location: St. Helens Room

Moderator: Lori Hennings, Metro

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| 2:40 – 3:00 | Landscape and Local Effects of Pollinator Biodiversity and Plant-Pollinator Interactions in Prairie Fragments in Southern Vancouver. Sandra Gillespie, Simon Fraser University | Utilizing Remote Sensing to Monitor Streaked Horned Lark Habitat on Dredged Materials Placement Sites in the Lower Columbia River. Jacob Watts and Kristine Lightner, US Army Corps of Engineers |
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Tuesday, October 27th (continued)

2:40 pm—4:20 pm CONCURRENT SESSION 5 (CONTINUED) *Tahoma/Baker & St. Helens*

Pollinators (continued)

Mapping (continued)

3:00 – 3:20	Invasion by Exotic Plant Species Alters Seasonal Patterns of Floral Resources for Pollinators. Susan Waters, Center for Natural Lands Management	Mapping Oak in the Portland Area Using Remote Sensing and Field Studies. Lori Hennings, Metro
3:20 – 3:40	Floral Variation, Pollinator Behavior, and Geography in Rare and Common Species of <i>Camassia</i>: How Important are Plant-Pollinator Interactions in Natural Communities? Susan Kephart, Willamette University	Engaging the Community in Oregon White Oak Conservation in a Culturally Appropriate Way. Sequoia Breck, Portland State University
3:40 – 4:00	Patterns of Pollination and Seed Predation Limit Scotch Broom. Robert Bode, St. Martin's University	Willamette Valley Conservation Study. Kevin O'Hara, US Fish and Wildlife Service
4:00 – 4:20	TBD.	Dendrochronology Across Borders: Developing a Network of Garry Oak (<i>Quercus Garryana</i>) Tree-Ring Chronologies for Pacific Northwest. David Jordan, Trinity Western University

4:30 pm– 6:00 pm POSTER SESSION *Foyer*

Light appetizers provided. No-host bar. See Page 20 (back page) for list of posters.

6:30 pm– 8:30 pm BANQUET *Ticket required.* *Pacific Ballroom*

Banquet Speaker | Paul Bannick, Wildlife Photographer and Author.

*Paul Bannick is an award-winning wildlife photographer specializing in the natural history of North America with a focus on birds and habitat. Coupling his love of the outdoors with his skill as a photographer, he creates images that foster the intimacy between viewer and subject, inspiring education and conservation. In 2012, Paul was awarded the Canon prize in the International Conservation Photography Awards, an award selected by Art Wolfe from among thousands of entries worldwide, for the photo that best exemplifies the mission of the ICP Awards. In 2011, Paul took first place among professionals in the Birds and Their Habitat category in Audubon Magazine's prestigious annual photography contest. Paul's first book, *The Owl and the Woodpecker*, published by The Mountaineers Books in 2008, continues to be one of the best-selling bird books in North America, and was a finalist for the Washington State Book Award for general non-fiction.*

Paul's work can be found in bird guides from Audubon, The Smithsonian, Stokes, The National Wildlife Federation, and in the Handbook of the Birds of the World. His work has been featured in a variety of publications from The New York Times, Audubon, Sunset, Nature's Best Photography Magazine, Birds and Blooms, Ranger Rick, Pacific Northwest (two cover stories), Seattle Times, Alaska Air Magazine, and in many other books, magazines, parks, refuges, and other outlets in North America and Europe. He has appeared on NBC Nightly News, Evening Magazine, King 5 and on dozens of NPR stations and programs, including Travels with Rick Steves and BirdNote. Paul currently serves as the Director of Development for Conservation Northwest, an organization dedicated to protecting and connecting wild areas from the Pacific Coast to the Canadian Rockies.

Wednesday, October 28th

8:00 am—8:30 am	COFFEE AND PASTRIES AVAILABLE	Foyer
8:30 am—10:50 am	CONCURRENT SESSION 6	Tahoma/Baker & St. Helens
	<u>Birds</u> <i>Location: Tahoma/Baker Rooms</i> <i>Moderator: TBD</i>	<u>Grazing</u> <i>Location: St. Helens Room</i> <i>Moderator: TBD</i>
8:30 – 8:50	Separating Estimates of Survival in the Streaked Horned Lark by Age: Post-Fledgling, Juvenile and Adult. Gary Slater, Center for Natural Lands Management	Use of Grazing as a Management Tool on Conservation Lands with Listed Species. Kim Klementowski, Center for Natural Lands Management
8:50 – 9:10	Streaked Horned Lark Nest Survival and Productivity – How Are They Doing on Base? Adrian Wolf, Center for Natural Lands Management	Impacts of Persistent and Pulse Grazing on the Fender's Blue Butterfly. Greg Fitzpatrick, Fitzpatrick Ecological Consulting
9:10 – 9:30	Conservation of Streaked Horned Larks in Oregon's Prairie (ish) Landscape: What We Know, What We Need to Know. Randy Moore, Oregon State University	Establishing Prairie Communities on Actively Managed Grazing Lands in Western Washington. Sarah Hamman, Center for Natural Lands Management
9:30 – 9:40	<i>Short Break</i>	<i>Short Break</i>
9:40 – 10:00	Oregon Vesper Sparrow Regional Inventory: A Bird on the Brink. Bob Altman, American Bird Conservancy	Using Livestock Grazing to Manage Native Prairies West of the Cascades: Part A. Marty Chaney, Natural Resources Conservation Service
10:00 – 10:20	Portland's Urban Oak Habitats: Investigating a Regional Nexus for Oak Associated Avian Species. Mary Bushman, Port of Portland	Using Livestock Grazing to Manage Native Prairies West of the Cascades: Part B. Fred Colvin, Colvin Ranch
10:20 – 10:40	Informing Oak Habitat Restoration With Available Avian Science and Project Monitoring. Jaime Stephens, Klamath Bird Conservatory	Panel Q&A
10:40 am– 11:00 am	BREAK	Foyer

Wednesday, October 28th (continued)

11:00 am – 12:00 pm

BREAKOUT SESSIONS

Tahoma/Baker & St. Helens

Pacific Birds: Let's Talk About How We Can Help

Location: Tahoma/Baker Rooms

Coordinated by: Pacific Birds Habitat Joint Venture

The Pacific Birds (formerly Pacific Coast) Habitat Joint Venture brings together people working to conserve birds and their habitats. Working with partners from Alaska to Hawaii and northern California, Pacific Birds provides a regional context for local decisions and helps its partners connect to conservation efforts throughout the Pacific Flyway. In the next few years, Pacific Birds will focus on a handful of regional conservation priorities to address bird conservation needs on a flyway scale. Oak and prairie habitats are a high priority across much of Pacific Birds' geography, from northwestern California to southern British Columbia. How can Pacific Birds best work with partners to expand existing oak and prairie conservation efforts to leverage benefits to birds on a broader regional scale? What do partners need to be more successful and effective in their conservation efforts? What are the biggest barriers? And how can Pacific Birds help? Please bring your thoughts and ideas, and let's discuss.

Oak Restoration: Scoping an Ecoregional Working Group

Location: St. Helens Room

Coordinated by: Matt Gibbons, The Nature Conservancy - Oregon; Emily Steel, City of Eugene; Elaine Stewart, Metro; David Wilderman, WA Dept. of Fish and Wildlife

Building on the conversation started in the Oak Habitat Restoration special session, we invite interested colleagues to discuss forming an ecoregional working group. What challenges do we share? How can we learn from each others' work and build on lessons learned? If you could imagine accessing knowledge and experience when you need it, what would that look like? An oak restoration working group could share prescriptions, monitoring methods, weed control techniques, etc. It may be as simple as a more deliberate use of the CPOP listserv and web site, or it could add to those resources. Bring your ideas and share them.

12:00 pm – 1:00 pm

LUNCH

Foyer

Lunch will be served buffet style. We have done our best to provide a variety of options to meet dietary needs. Please enjoy your lunch *and* help us get back to sessions promptly at 1:00. Since folks will be eating in the same rooms as the sessions occur, hotel staff will collect dishes and trays will be available for anyone with dishes that were not collected. Thank you!

1:00 pm – 4:20 pm

CONCURRENT SESSION 7

Tahoma/Baker & St. Helens

Symposium

Soils in Restoration

Location: Tahoma/Baker Rooms

Coordinated by: Sarah Hamman, Center for Natural Lands Management and Allison Warner, Society for Ecological Restoration—Northwest

Special Session

Restoration Partnerships: Voluntary and Shared Conservation to Restore Lands for Dual Benefit

Location: St. Helens Room

Moderator: Elspeth Kim, Center for Natural Lands Management

-- Session Information Continues on Next Page --

Wednesday, October 28th (continued)

1:00 pm—2:20 pm

CONCURRENT SESSION 7 (PART A)

Tahoma/Baker & St. Helens

Symposium

Soils in Restoration

Location: Tahoma/Baker Rooms

Coordinated by: Sarah Hamman, Center for Natural Lands Management and Allison Warner, Society for Ecological Restoration—Northwest

The role of soils in restoration has long been overlooked in the fields of conservation and restoration ecology. Research is increasingly showing that efforts to restore or amend soils before or while attempting native plant reintroduction can dramatically improve restoration success. A clear understanding of how soil structure, nutrients and microbial communities affect native plant establishment, and what science-based soil restoration methods exist, will help managers achieve conservation success in their prairie and oak woodland restoration sites.

Special Session

Restoration Partnerships: Voluntary and Shared Conservation to Restore Lands for Dual Benefit

Location: St. Helens Room

Moderator: Elspeth Kim, Center for Natural Lands Management

In our fragmented landscape, integrating functional habitat with a broad variety of land uses is critical to maintain prairie and oak habitats and support the conservation of habitat restricted species. Conservation on lands both small and large increases available habitat and can provide connectivity between larger units. Collaboration between partners both within and beyond the conservation community improves on-the-ground outcomes while raising awareness and support. This session will highlight strategies for identifying opportunities, building relationships, and incorporating restoration into land use goals through voluntary and shared conservation.

1:00 – 1:20

Introduction. Sarah Hamman, Center for Natural Lands Management, and Allison Warner, Society for Ecological Restoration – Northwest

Restoration Interpretation by Storymap at Bald Hill Farm, a Multiuse Conservation Area. Elizabeth Records, Greenbelt Land Trust

1:20 – 1:40

Soil Legacies of *Cystisus Scoparius* Impact Reforestation. Sara Grove, University of California – Santa Cruz

Learning How to Restore and Steward Oak Habitat on Working Lands in the Long Tom Watershed, Willamette Valley, Oregon. Katie MacKendrick, Long Tom Watershed

1:40 – 2:00

Soil Degradation and Restoration: Perspective from Agriculture and Horticulture. Craig Cogger, Washington State University Extension

Butterfly-Safe Wine? Engaging Private Landowners in Endangered Species Recovery. Nicole Maness, Willamette Partnership

2:00 – 2:20

Oaks Below Ground: Fungi and Friends. Darlene Southworth, Southern Oregon University

Restoring Oak Resilience Through a Collaborative Cross Boundary All-Lands Initiative in Southern Oregon/Northern California. Marco Bey and Lyndia Hammer, Lomakatsi Restoration Project

2:20 pm– 2:40 pm

BREAK

Foyer

Wednesday, October 28th (continued)

2:40 pm—4:20 pm

CONCURRENT SESSION 7 (PART B)

Tahoma/Baker & St. Helens

Symposium (continued)

Soils in Restoration

Location: Tahoma/Baker Rooms

Coordinated by: Sarah Hamman, Center for Natural Lands Management and Allison Warner, Society for Ecological Restoration—Northwest

Special Session (continued)

Restoration Partnerships: Voluntary and Shared Conservation to Restore Lands for Dual Benefit

Location: St. Helens Room

Moderator: Elspeth Kim, Center for Natural Lands Management

2:40 – 3:00

Lessons Learned from Carbon Addition Experiments in the Willamette Valley. Matt Bahm, Institute for Applied Ecology

From Acorns to Legacy Oaks, The Genesis and Growth of an Oak Working Group, the Klamath-Siskiyou Oak Network. CalLee Davenport, US Department of Fish and Wildlife and Terry Fairbanks, US Bureau of Land Management

3:00 – 3:20

Mychorrhizal and Microbial Inoculation Affect and the Growth and Survival of Native Plants Raised for Restoration. Sasha Porter, Evergreen State College

“If You Build It They Will Come” and Other Partial Truths: Multi-Agency Coordination of Ecoregional Seed Production in Washington’s North Puget Sound. Sierra Smith, Center for Natural Lands Management

3:20 – 3:40

Physical and Mechanical Actions to Restore Soil Structure. David Polster

Army Compatible Use Buffer: Cooperative Recovery of ESA-Listed Species in the Vicinity of a Military Installation. Jeff Foster, Joint Base Lewis-McChord

3:40 – 4:00

Panel Q & A

Prairie and Oak Woodland Restoration in Training Areas of Canadian Forces Base Esquimalt. James Miskelly, Saanich Native Plants

4:00 – 4:20

Discussion

Using a Collaborative Approach to Support Recovery of Several Species of Greatest Conservation Need in Washington and Oregon. Elspeth Kim, Center for Natural Lands Management

5:00 pm– 6:30 pm

SERNW MEMBER MEETING

St. Helens Room

The Northwest Chapter of the Society for Ecological Restoration will hold its Annual Member Meeting during the Cascadia Prairie Oak Partnership Conference. Please join us for information on our upcoming conference, SER's Global Restructure, and to give input to the Board on what chapter members would like to see in our future workshops and chapter events.

For those attending the conference, please join us in the posted conference room. **For members unable to attend, we will host a live webinar of the meeting.** Please check our [SERNW website](#) and be on the lookout for an email about the webinar, with details on how you can join.

Thursday, October 29th

8:00 am—4:30 pm

FIELD TRIPS A, B, AND C

Meet in Hotel Lobby

Schedules vary, see details below. Please be ready to depart at the listed time. Transportation and lunch provided. Registration required.

8:00 – 4:00

Trip A - Conservation Nursery Tour: Violet Prairie Seed Farm, Shotwell's Landing Nursery, Sustainability in Prisons Project Prison Nursery.

Trip Leads: Sierra Smith, Center for Natural Lands Management and Carl Elliott, Sustainability in Prisons Project

8:15 – 4:30

Trip B - South Sound Prairie-Oak Restoration: Joint Base Lewis-McChord and Tenalquot Prairie

Trip Leads: Jim Lynch, Joint Base Lewis-McChord and Bill Kronland, Center for Natural Lands Management

8:00 – 4:00

Trip C - South Sound Prairie-Oak Restoration: Mima Mounds Natural Area, Scatter Creek Wildlife Area, and Cavness Ranch Preserve.

Trip Leads: Dave Wilderman, WA Dept. of Natural Resources; Dave Hays, WA Dept. of Fish and Wildlife; and Sanders Freed, Center for Natural Lands Management

Friday, October 30th

10:00 am—4:00 pm

FIELD TRIP D

San Juan Island

Meet at the Friday Harbor Ferry Terminal. Island transportation and lunch provided. Registration required. Walk on to the 8:30 am ferry departing Anacortes to arrive in Friday Harbor by 9:55 am. For the return trip, walk on to the 4:15 pm ferry departing Friday Harbor to arrive in Anacortes at 5:40 pm.

10:00 – 4:00

Trip D - San Juan Island Prairie-Oak Restoration: American Camp and English Camp

Trip Lead: Jerald Weaver, National Park Service

Thank You To Our Volunteers and Conference Sponsors

Volunteers:

Sponsors: Center for Natural Lands Management, US Fish and Wildlife Service, Pacific Birds Habitat Joint Venture, Northwest Fire Science Consortium, and Society for Ecological Restoration—Northwest.



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Posters

POSTER SESSION: TUESDAY, OCTOBER 27TH, 4:30-6:00 PM

#	Presenting Author(s)		Entity	Presentation Title
1.	Fredrica	Bowcutt	Evergreen State College	Vascular Plants of the South Sound Prairies
2.	Anne	Schuster	Wolf Haven	Wolf Haven's Role in Endangered Species Recovery
3.	Loretta	Fisher	University of Washington	Seed Production and Viability of Putative <i>Castilleja Levisecta</i> x <i>C. Hispida</i> Hybrids
4.	Ted	Thomas	US Fish and Wildlife Service	Golden Paintbrush, On the Road to Recovery: What Have we Accomplished, What next?
5.	Karen	Holtrop	US Forest Service	Taylor's Checkerspot Butterfly Habitat on the Olympic National Forest
6.	Cameron Cheryl	Thomas & Schultz	Washington State University - Vancouver	Factors Affecting Ant Tending in Fender's Blue Butterfly (<i>Plebejus Icaroides</i> Fenderi): Implications for Habitat Restoration and Species Recovery
7.	Hannah	Gilbert	Crescent Valley High School / Institute for Applied Ecology	Survey and Monitoring Methodology in Conservation Biology
8.	Denise	Giles-Johnson	Institute for Applied Ecology	Adaptive Coastal Prairie Restoration: Initial Results from an Ongoing Study
9.	Christa	LeGrande	Joint Base Lewis-McChord	Brush Removal Monitoring: Evaluating Effectiveness of Mowing as a Method to Reduce Re-Growth of Scot's Broom (<i>Cystisus Scoparius</i>)
10.	Eric	Myers	Joint Base Lewis-McChord	Military Training Land Rehabilitation: Methods Used to Rehabilitate Training Lands on Joint Base Lewis McChord
11.	Kerwin	Talbot	Joint Base Lewis McChord	TA 13 Maneuver Space Determination and Visibility Analysis
12.	Sarah	Krock	Joint Base Lewis-McChord	Seeding Time Trials for Selected South Puget Sound Prairie Species
13.	Jerrmaine	Treadwell	Center for Natural Lands Management	Through the Spotting Scope: Streaked Horned Lark Observations and Anecdotes
14.	Patrick	Dunn	Center for Natural Lands Management	Mazama Meadows - Conservation Bank for Gophers and Prairies
15.	Gary	Slater	Center for Natural Lands Management	An Update on Western Bluebird Recovery in the Pacific Northwest
16.	Elaine	Stewart	Metro	Guidance for Conserving Oregon's Native Turtles Including Best Management Practices
17.	Deborah	Nemens	Virginia Tech	California Black Oak Resprouting Across Recurring Fire Severity Gradients
18.	Rhiannon	Thomas	US Army Corps of Engineers	Partnering with Alternative High Schools to Achieve Education and Restoration Goals on US Army Corps of Engineers Lands in Oregon
19.	Andrew	Esterson	Oregon State University	Plant-Soil Feedback by an Invasive Grass, <i>Brachypodium Sylvaticum</i> , in Douglas-Fir Forests
20.	Lauren Graham	Hendricks & Bailes	University of Oregon	Local and Regional Controls Over Prairie Plant Range Distributions Under Future Climate Change
21.	Lauren	Hendricks	University of Oregon	Climate Change Impacts on Four Perennial Forbs in Pacific Northwest Prairies
22.	Graham	Bailes	University of Oregon	Native Bunchgrass Fitness and Endophyte Community Composition Along a Pacific Northwest Prairie Gradient
23.	Pamela	Abreu	Evergreen State College	Restoring Hydrological and Ecological Functions of Wetlands Invaded with Reed Canary Grass for Potential Oregon Spotted Frog Oviposition Recovery