

PNW POLLINATOR SUMMIT AND CONFERENCE



Alkali Bee (*Nomia melanderi*) - A PNW native and the only managed ground nesting bee in the world. Image courtesy of Oregon Department of Agriculture.

February 14-15, 2019

CH2M Hill Alumni Center
Oregon State University
725 SW 26th St, Corvallis, Oregon

Workshops February 16, 2019

Agriculture Life Sciences Building
Oregon State University
2750 SW Campus Way, Corvallis Oregon

Made possible with the generous support of:



Oregon State University
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Oregon State University
College of Forestry



Metro



Oregon
Department
of Agriculture



DAY 1

Thursday, February 14

7:00-8:30 Registration - Breakfast Available

Lobby

8:30-8:45 Welcome

Ballroom

Sam Angima, OSU Extension

Stephanie Page, Oregon Department of Agriculture

MANAGED FORESTS (Ballroom)

Moderator: Christine Buhl, Forest Entomologist, Oregon Department of Forestry

8:45-9:15 Can trees be the bees knees? Opportunities for pollinator research in managed forests in the PNW.

Jim Rivers, OSU Forest Animal Ecology Lab (Corvallis, OR)

9:15-9:30 Growing trees and helping bees: Developing techniques for industrial forestland owners to enhance pollinator habitat.

Jed Arnold, Hampton Forests (Astoria, OR)

9:30-9:45 Partners for pollinators: Pollinators, plants and people.

Karen Gentry, Discover Your Northwest (Bend, OR)

9:45-10:00 The role(s) of native bees on family forest lands.

Brad Withrow-Robinson, OSU Extension (Corvallis, OR) and Pat Wheeler (Mouth, OR)

10:00-10:15 COFFEE BREAK - GROUP PHOTO

RESTORATION (Ballroom)

Moderator: Toni Stephan, Department of Horticulture, Oregon State University

10:15-10:45 Native bees in managed ecosystems of the interior Pacific Northwest – Research and extension efforts at the OSU Invertebrate Ecology Laboratory.

Sandy DeBano, OSU Invertebrate Ecology (Hermiston, OR)

10:45-11:00 Promoting voluntary stewardship of native pollinator habitat across diverse landscapes.

Emily Carlson, King Conservation District (Renton, WA)

11:00-11:15 NRCS pollinator habitat enhancement programs.

Annie Young-Mathews, NRCS Plant Materials Center (Corvallis, OR)

11:15-11:30 Applying plant-pollinator community ecology: endangered plants, prairie management, and conservation partnerships.

Susan Waters, Center for Lands Management (Olympia, WA)

AGRICULTURE (Ballroom)

Moderator: Sarah Kincaid, Entomologist, Oregon Department of Agriculture

11:30-12:00 Building pollinator habitat around coastal cranberry bogs.

Kim Patten, WSU Extension (Long Beach, WA)

12:00-12:15 Improving pollinator habitat on an incubator farm.

Rowan Steele, East Multnomah Soil and Water Conservation District

12:15-12:30 Improving pollinator habitat on a conventional farm.

Michael O'Loughlin, O'Loughlin Farms (McMinnville, OR)

12:30-2:00 LUNCH, NETWORKING, INVENTORY OF PNW RESOURCES

MANAGED BEES (Ballroom)

Moderator: Rose Kachadoorian, Program Manager, Oregon Department of Agriculture

- 2:00-2:30** Apicultural extension: Lessons from California.
Elino L Nino, Apiculture, UC David (Davis, CA)
- 2:30-2:45** A glimpse of the OSU honey bee research and extension lab.
Ramesh Sagili, Apiculture, OSU Extension (Corvallis, OR)
- 2:45-3:00** The Oregon Master Beekeeper Program: Current collaborations and future plans.
Jen Holt, OSU Extension (Corvallis, OR)
- 3:00-3:15** Engaging others on the Dry Side
Jan Lohman, Vazza Farms (Hermiston, OR)
- 3:15-3:30** Honey bees and 4-H.
Amber Reese, Oregon Master Beekeepers (Corvallis, OR)
- 3:30-3:45** Mason bees in orchards and backyards.
Jim Watts, Watts Bees (Seattle, WA)
- 3:45-4:00** Bee Buddies: Soil and water conservation districts and bee husbandry.
Jerry Paul, Benton Soil and Water Conservation (Corvallis, OR)
- 4:00-4:15** Citizen science and mason bees.
Ron Spendal, OSU Master Gardeners (Hillsboro, OR)
- 5:00-6:30** **POSTER, TABLING SESSION AND MIXER**
Featuring mead from Nectar Creek (Corvallis, OR)

POSTERS

1. TBA Aaron Anderson and G. Langellotto (OSU)
2. Enhancing conservation of native bees in Eastern Oregon: Identifying major food sources using DNA metabarcoding techniques. Katherine A. Arstingstall (OSU), S. J. DeBano, K. Frost, D. Wooster, X. Li, and M. M. Rowland
3. TBA Lauren Bennett and G. Langellotto (OSU)
4. Evaluation of commercial pollinator seed mixes for Western Oregon. Amy Bartow and A. Young-Mathews (USDA-NRCS Corvallis Plant Materials Center)
5. Demographic Response of a Native Bee to a Natural Mosaic of Forest Wildfire Severity. Kendra DelToro (OSU)
6. Native bees and cattle grazing in Eastern Oregon. Scott Mitchell (OSU), S. J. DeBano, M. M. Rowland, L. R. Morris, S. B. Lukas, and H. Schmalz
7. Artificial domicile use by bumble bees. Sarah Johnson (Simon Fraser University)
8. Wild pollinators in Oregon peach and cider apple. David M. Lowenstein (OSU)
9. Survey of the native bees of Portland State University. Stefanie Steele (PSU) and S. Masta
10. Pollinator Project Rogue Valley and Southern Oregon University. Jarrett Taylor and S. Campbell (Pollinator Project Rogue Valley and Southern Oregon University)
11. Assessing the relationship between small scale vegetation metrics and pollinator visitation in SE Portland. Hailey Wallace (PSU) and M. Dresner

TABLES

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| 1. Metro | 2. Oregon Bee Project |
| 3. OSU Extension and Experiment Station Communications | 4. BEEvent |
| 5. USDA-NRCS Corvallis Plant Materials Center | 6. Xerces Society |
| 7. Pollinator Project Rogue Valley | 8. Oregon Honey Festival |
| 9. Bumble Bee Nest Relocation (BBNR) | 10. Sunriver Nature Center |
| 11. Native Bee Network | 12. Bee and Bloom |

6:30-9:00 BANQUET

Banquet address by Jim Cane (USDA, Logan UT): *Dewey, Needham and Howe? Building the case for native bee conservation and management from an appeal for contextual focus.*

William P Stephen Awards for Lifetime Achievement presented by Gail Langelotto and Ramesh Sagili

DAY 2

Friday, February 15

7:00-9:00 Networking - Breakfast Available



URBAN POLLINATORS (Ballroom)

Moderator: Bonnie Shoffner, Restoration Volunteer Coordinator, Metro

- 9:00-9:30 From community outreach to community-engaged research: The Porch Project in Flint, Michigan.
Rebecca Tonietto, Department of Biology, University of Michigan (Flint, MI)
- 9:30-9:45 Creating great gardens for urban bees: How can we do better?
Gail Langellotto, Department of Horticulture, OSU Extension (Corvallis, OR)
- 9:30-9:45 “BeeVent” the annual pollinators conference hosted by the Linn County Master Gardeners Association: Origin and history.
Richard Little, OSU Master Gardeners (Sweethome, OR)
- 9:45-10:00 Commercial nurseries and pollinator health.
Kathleen Baughman, Iwasaki Brothers (Hillsboro, OR)
- 10:00-10:15 The Durban Commitment: Local action for biodiversity. Strategies to manage invasive species and biodiversity in The City of Calgary with a goal to naturalize 20% of the municipality by 2025.
Lincoln Best, Bees of Canada (Calgary, AB)
- 10:15-10:30 Planting pollinator gardens in public places.
Gaye Stewart, Federation of Oregon Garden Clubs (Dallas, OR)

10:30-10:45 COFFEE BREAK

EDUCATION (Ballroom)

Moderator: Nicole Sanchez, Department of Horticulture, Oregon State University

- 10:45-11:00 Pollinator information material in the PNW Extension catalogues.
Nicole Sanchez, Department of Horticulture, OSU Extension (Klamath Falls, OR)
- 11:00-11:15 Creating a community buzz around pollinators.
Louise Shirley, High Desert Museum (Bend, OR)
- 11:15-11:30 Engaging youth in pollinator citizen science and stewardship: challenges and opportunities.
Marika van Reeuyk, Environmental Youth Alliance (Vancouver, BC)
- 11:30-11:45 Farm to School and School Garden Network and pollinators.
Rick Sherman, Oregon Department of Education (Salem, OR)
- 11:45-2:00 LUNCH, MAKING NEW COLLABORATIONS

WILD POLLINATORS (Ballroom)

Moderator: Helmuth Rogg, Director Plant Protection and Conservation Program Areas,
Oregon Department of Agriculture

- 2:00-2:30 Creating and maintaining a volunteer-based survey of bees: Details matter.
Sam Droege, Biologist, US Geological Survey (Laurel, MD)
- 2:30-2:45 Five years of intensive native bee diversity surveying in the Seattle area.
Evan Sugden, Entomo-Logic (Seattle, WA)
- 2:45-3:00 Hallucinating facial foveae: Helping lay people identify native bees.
Judi Maxwell, OSU Master Gardeners, OR Bee Atlas (Grants Pass, OR)
- 3:00-3:15 Community science pollinator monitoring in West Multnomah County.
Laura Taylor, West Multnomah Soil and Water Conservation District (Portland, OR)
- 3:15-3:30 Buzzworthy? Using volunteers to conduct a multi-state bumble bee atlas in the Pacific Northwest.
Rich Hatfield, Xerces Society (Portland, OR)
- 3:30-3:45 Tracking *Bombus impatiens* in the Pacific Northwest with the cloud and the crowd.
Chris Looney, Washington Department of Agriculture (Seattle, WA)
- 3:45-4:00 From pins to pixels: OSACs Interactive Bee Atlas and challenges of making specimen observational data available online.
Chris Marshall, OR State Arthropod Collection (Corvallis, OR)

DAY 3

Saturday, February 16

There are four parallel workshops on Saturday. The workshops are designed to help build skills in three areas. Most workshops will be held at the Agriculture Life Science Building on the NW corner of campus.

Some of the workshops have limited space and require pre-registration. If you have not registered but want to attend, visit the registration desk on Thursday or Friday to check for availability.

8:45-1:00 Forest Pollinator Field Trip Meet at CH2M Hill Alumni Center

Led by Sara Galbraith (Oregon State University), Jim Cane (USDA-ARS), Andy Moldenke (Oregon State University), Jed Arnold (Hampton Lumber)

More than 7% of global forest area is managed for resource production, but we have only recently begun to discuss how management effects pollinators and their habitat. This field trip will give participants first-hand experience related to the influence of conifer management activities (e.g., stand harvest, herbicide use, road maintenance, invasive species control) on pollinator abundance and diversity, different pollinator nesting substrates, and the availability of floral resources. We will provide van transportation from the CH2M Hill Alumni Center at Oregon State University to the McDonald Dunn Research Forest (located <30 minutes from campus). Here, we will visit conifer stands representing different stand ages and management approaches. Participants will hear perspectives from researchers and forest managers. Dress for the weather (most likely rain!) and come ready for a short muddy hike. Bring plenty of water and snacks, as lunch is not provided. Contact Sara (sara.galbraith@oregonstate.edu) with any questions.

9:00-12:00 Oregon Bee Atlas (Business Meeting)

ALS4000

This is the Annual Meeting of the Oregon Bee Atlas. The meeting will focus on proposals for the upcoming year developed by the Advisory Committee. Coffee and pizza lunch will be provided.

9:00-2:30 Designing and Establishing Pollinator Landscapes

ALS4001

Led by Kate Frey (author of The Bee-Friendly Garden), Lynda Boyer (Heritage Seedlings and Liners, Inc) and Al Shay (OSU Horticulture)

Pollinator-friendly landscapes fill urban settings with flowers and being in them is an experience not forgotten. They are filled with life and make us happy, while supporting many species of bees, butterflies, beneficial insects and hummingbirds. Pollinator landscapes can also create community, and are beneficial to businesses by attracting and wooing customers. What flowers appeal to pollinators and in what combinations? How can we put them together in long-blooming compositions that work well with the parameters of our site, in plantings that suit us, and cater to bee's needs? How can you establish a site for pollinator

habitat in a way that does not create excessive work and maintainance down the road? This workshop will detail the process of conceiving, creating and maintaining a pollinator landscape and show many examples of inspirational landscapes that will forever transform your relationship with urban spaces. The workshop will take place largely in the classroom, but will include a guided walk through the OSU Pollinator Gardens.

9:00-12:00 Honey Bee Pests Disease Diagnosis

ALS3005

Led by Carolyn Breece (OSU Apiculture Lab)

Knowing the pests and diseases of honey bee colonies is an essential part of beekeeping. Come learn about brood diseases and how to manage them to keep your colonies healthy and thriving. This workshop will include a lecture and a hands-on component, and will be most useful for beekeepers with some experience (beekeeping basics will not be covered).

9:00-12:00 Solitary Bee Management

ALS3006

Led by David Hunter (Crown Bees)

TBA

1:00-4:00 Native Bee Taxonomy

Cordley 3058

TBA

This is an advance session for people already familiar with native bee taxonomy. Students will be led through one of the easier native bee species keys. Space is limited to 25 people.



CONFERENCE LOGISTICS

GETTING TO AND FROM PORTLAND INTERNATIONAL AIRPORT (PDX)

There are two main shuttle services that provide transport from PDX to OSU. Select the stop at the 'Hilton Garden' when using the Hut Portland Airport Shuttle and 'OSU Reser Stadium' when using Oregon Express Shuttle.

PARKING

Conference and Summit (Feb 14-15) - purchase permits in advance online - \$10/day
Workshops (Feb 16) - parking is free on weekends.



SETTING UP AND REMOVING POSTERS AND TABLING MATERIAL

Posters and tabling material can be set up anytime during Thursday, before 5:00 pm. They can be removed after the poster session (6:30 pm) or remain in place until 5:00 pm on Friday afternoon.

GETTING AROUND AND THINGS TO DO IN CORVALLIS

OSU offers a free campus shuttle service - the Beaver Bus. Routes are shown in the map above. Corvallis public transit is also fareless, allowing a quick trip downtown. There are a number of restaurants along NW Monroe Ave on the north end of campus. Also, if you want to take a quick walk or run close to campus, there are excellent trails minutes from the venue at Avery Park (just south of campus, along SW 15th St).