

Oregon State Beekeepers Association 2017 Fall Conference

October 27–29, 2017

Oregon Garden & Resort | Silverton, Oregon



Conference Exhibitors, Advertisers, and Events

Exhibitors

Beeline Apiaries & Wooden Ware Complete Bee GloryBee* (pp. 12, 20, 24) Mann Lake* (p. 16) Naked Bee Hives* (p. 24) Pacific Risk Management* (p. 26) Ruhl Bee Supply* (p. 10) Shastina Millwork* (pp. 8,16) Shonnard's* (p. 26) Southpaw Bees and Manufacturing The Bee Corp True Survey Supply Western Bee Supply Western Bee Supply Wraith, Scarlett & Randolph* (p. 14) **Advertiser*

Resource Tables

Bee Informed Partnership Conference Honey Show OSU Honey Bee Lab OSU Pollinator Health/The Bee Project

Additional Advertisers

Barkman Honey (p. 22) Dadant (p. 6) Heitkams' Honey Bees (p. 20) Maxant (p. 8) Old Sol Apiaries (p. 24) Olivarez (p. 12) Pendell Apiaries (p. 26) Skyline (p. 26) Strong Microbials (p. 18)

The conference provides opportunities to visit with exhibitors and those staffing resource tables as well as to stop by the mobile **Oregon State University Honey Bee Lab** in the OSU Room on Saturday and Sunday. There we will be able to see how Research Assistants Carolyn Breece and Hannah Lucas analyze honey bee samples for Nosema, do Varroa mite counts, and dissect bees for evaluation of tracheal mites and hypopharyngeal glands. The OSU team can also tell us about current research projects and extension events. Beekeepers who have brought honey bee samples for analysis will learn the results within 1–2 weeks after the conference.

On Saturday, we won't want to miss the deadline; be sure turn in exhibits for the **Conference Honey Show** to Honey Steward Susan Rauchfuss in the OSU Room before 9:45 AM. After that time, Judges Marjie Ehry and Virginia Webb will be evaluating Comb Honey, Extracted Honey, Beeswax, Beekeeping Photos, and Gift Baskets at the Honey Show table.

In addition, there will be time to view and even participate in the Silent Auction, managed by Suzannah Kruse, during the day on Saturday in the Pavilion Grand Hall. The Benefit Auction, managed by the OSU Honey Bee Lab, follows the evening Banquet in the Main Lodge Orchid Room. Luncheons at noontime both Saturday and Sunday will provide additional food for thought. Menu items, listed below, are subject to change. Those with special dietary needs may request other options.

Saturday Luncheon Menu: Caesar Salad, Wild Mushroom Orzo Alfredo, Zucchini Sauté, Stuffed Portobello Mushrooms, Herb Marinated Chicken in Marina Sauce, Garlic Bread, and Caramel Apple Cheesecake Tart

Sunday Luncheon Menu: Fiesta Salad, Cilantro Lime Rice, Frijoles a la Charra, Beef Taquitos, Cheese Tamales, and Mexican Style Pastry with Raspberry Filling

Banquet Menu: Organic Field Greens Salad, Tomato/Cucumber/Mozzarella/Basil Salad, Herb-Roasted Potatoes, Seasonal Vegetables, Herb-Marinated Chicken Breast, Northwest Salmon, and Chocolate Ganache Cake with a Hazelnut Crust

Reminder: Tickets for the Banquet and the Luncheons are separate from conference registration.



Welcome!



The 2017 OSBA Fall Conference takes place on the lovely grounds of The Oregon Garden. Sessions and events are held in the J. Frank Schmidt Jr. Pavilion, the Education Building, and the Main Lodge at Oregon Garden Resort, as indicated on page 4. Information in this program includes:

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In addition to learning from conference presenters and presentations, exhibitors, and one another, we'll have opportunities to:

- Visit during breaks over morning coffee/tea—and snacks later in the day
- Check out exhibitor items and resource tables in both the OAN and OSU Rooms
- · Donate as well as bid on items in the silent and benefit auctions
- · Learn about pest and disease analyses in the mobile OSU Honey Bee Lab
- View entries and see how they (including yours) rank in the Honey Show
- Visit during Luncheons on Saturday and Sunday, and the Banquet to be held on Saturday evening
- Access Wi-Fi during breaks (password to be posted in the foyer next to the bathrooms)

Be sure to ask for additional information if you have any questions. Enjoy the conference!

Session and Event Locations



The Oregon Garden is an 80-acre botanical garden that features more than 20 specialty gardens showcasing the diverse botanical beauty of the Willamette Valley and throughout the Pacific Northwest. The Oregon Garden is also committed to sustainability. There's much to enjoy during the conference, and the tram is running. If you choose to visit the garden also during the conference, please note that other than service animals, pets are not allowed on the tram. In addition, among The Oregon Garden policies are: *Pets must be on leash at all times *No jogging or running in the Garden *The Garden is a smoke-free zone *For your own safety, please stay on garden paths and out of water features.

For additional information about The Oregon Garden, visit: www.oregongarden.org.

Conference Agenda



	Friday, October 27
6:00 рм	Registration (Trillium Room, Main Lodge)
7:00 рм	Kick-Off Wine and Cheese Social
	(Orchid Room, Main Lodge)
	Saturday, October 28
7:30 ам	Registration (Entry Hall, Pavilion)
8:00 am	Silent Auction Begins (Grand Hall, Pavilion)
8:15 ам	Welcome & Announcements (Pavilion) Harry Vanderpool, OSBA President
	General Session (Grand Hall, Pavilion)
8:30 am	Fungal Control in Almonds
	Dr. Elina Niño, University of California-Davis
(Concurrent Session (Education Building)
8:30 AM-	Bee School
3.30 PM	
9:15 ам	Collecting Germplasm in Italy and Slovenia
	Sue Cobey, Washington State University
9:45 am	Deadline for Submitting Honey Show Entries (OSU Room, Pavilion)
10:00 АМ	Break
10:15 ам	Using Queen Caging to Create a Break the Brood Cycle to Improve Varroa Control Dr. Brandon Hopkins, Washington State University
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4:00 рм	Silent Auction Ends
4:30-	OSBA General Membership Meeting
5:45 рм	(Stage Area, Pavilion)
E	vening Events (Orchid Room, Main Lodge)
6:00 рм	Social Hour
7.00 PM	Banquet (Preregistration required)
	Easy Money, Easy Money
	Harry Vanderpool, Vanderpool Farms
	Benefit Auction to Follow
	Sunday, October 29
7:30 ам	Registration (Entry Hall, Pavilion)
8:15 am	Welcome & Announcements (Pavilion)
	Harry Vanderpool, OSBA President
	General Session (Grand Hall, Pavilion)
8:30 am	Toubleshooting Queen Failures Dr. Judy Wu-Smart, University of Nebraska-Lincoln
(Concurrent Session (Education Building)
8:30-	Making Beeswax Ornaments and Other Items
10:00 ам	Virginia Webb, Mtn Honey, Instructor
	\sim
9:15 AM	WSU Germplasm Importation Project, The
	Genetic Impact
10.00	Sue Cobey, Washington State University
10:00 AM	Break
10:15 ам	Bee Trees and Colony Health
11.00	Brian Lacy, Orban Bees and Garden
TT:00 AM	Mid-Season Break in Brood on a Commercial Scale Using Cold Storage for Varros Control
	Dr. Brandon Hopkins. Washington State University
NOON	Luncheon (Pavilion, Preregistration required)
	OSU Honey Bee Lab Research Update
	Dr. Ramesh Sagili, Oregon State University
1:15 рм	Preparing Entries for Honey Show
	<i>Virginia Webb</i> , MtnHoney
2:00 рм	Keeping Bees in a Diminishing Landscape
0.45	George Hansen, Foothills Honey Company
2:45 PM	Break
3:00 рм	Supplemental Forage for Honey Bees in
	Almonds Dr. Elina Niño, University of California-Davis
3.45 DM	Lina Honov Boos to Support Public Londo
J.HJ PM	and Native Flowers
	Sarah Red-Laird, Bee Girl
4:30 рм	Final Comments & Adjourn (Pavilion)
	Harry Vanderpool, OSBA President



Program Abstracts	OREGON
Friday, October 27	BREKERPERS ASSOCIATION
Registration (Trillium Room, Main Lodge)	6:00 рм
Kick-Off Wine and Cheese Social (Orchid Room, Main Lodge)	7:00 рм
Saturday, October 28	
Registration (Entry Hall, Pavilion)	7:30 АМ
Silent Auction Begins (Grand Hall, Pavilion)	8:00 AM
Welcome & Announcements (Grand Hall, Pavilion) Harry Vanderpool, OSBA President	8:15 АМ

General Session (Grand Hall, Pavilion)

Fungal Control in Almonds

Dr. Elina Niño, University of California-Davis

The value of the California almond industry is currently estimated at \$6 billion. Almond growers heavily rely on the application of fungicides at bloom to prevent brown rot blossom blight caused by *Monilinia laxa*, which can severely reduce yields. Almond nut set is also almost completely dependent on successful pollination by rented honey bee colonies. However, beekeepers have been reporting annual losses of up to 45%. Among several underlying causes is exposure to agrochemicals that potentially includes synthetic fungicides. Reducing the amount of conventional fungicides by utilizing honey bees as delivery agents for biological control of brown rot (via competition) has the potential to reduce the use of conventional fungicides leading to a safer environment for honey bees as well as other pollinators. This will ensure there are enough colonies available to secure the future pollination of the growing almond acreage and likely stabilize the colony rental prices. Use of honey bees to deliver biocontrol agents could possibly reduce water use and costs associated with fungicide sprays. This delivery method may also improve coverage of flowers over fungicides applied by conventional air-blast sprayers leading to an improved fruit set. Additionally, many other California crops requiring pollination (apples, avocados, cherries, melons, plums, pumpkins, sunflowers, squash, etc.) are likely to also benefit from this project as the proposed concept can have broad application beyond almonds.

Concurrent Session (Education Building)

Bee School

Thom Trusewicz, Director

This class covers history, anatomy, behavior of the honey bee. We will cover pollination and hive products and different methods and philosophies of hive management. This is a lecture, slide-show presentation and is open for questions as they come up.

8:30 AM

8:30 AM-3:30 PM





Collecting Germplasm in Italy and Slovenia

Sue Cobey, Washington State University

Washington Sate University has been collecting honey bee germplasm (semen) from Old World endemic populations to diversity the US honey bee gene pool. Working with cooperating California queen producers, these stocks have been incorporated into their domestic breeding programs, making them available to benefit the beekeeping industry. We have also re-introduced Caucasian bees, *Apis mellifera caucasica*, known for their propensity to use propolis, a self-medication for pathogens. A review of this project will be presented with emphasis on our 2017 trip to collect *A. mellifera ligustica* in Italy and *A. mellifera carnica* in Slovenia.

Deadline for Submitting Honey Show Entries (OSU Room, Pavilion)	9:45 AM
Break	10:00 ам

Using Queen Caging to Create a Break the Brood Cycle to Improve Varroa Control 10:15 AM Dr. Brandon Hopkins, Washington State University

Control of Varroa is an ongoing battle. The timing and choice of treatments are critical in keeping bees healthy. However, most treatments do not effectively kill Varroa mites while they are under capped brood cells. This means that it requires multiple treatments, which can be labor intensive, or leaving a slow-releasing chemical in the hive for at least 42 days to gain effective mite control while there is capped brood present. The most effective time to treat for Varroa mites is when there is no brood and the mites are exposed while on the adult bees. There are certain times of year when bees can be naturally broodless and beekeepers can take advantage of these times to apply a mite treatment. In addition, beekeepers with small enough number of colonies can create a period of broodlessness after the honey flow by caging the queen. The use of queen caging as part of an overall mite control strategy will be presented.

Fungal Pharmacy: Metarhizium as a Biocontrol Agent Against Varroa

Dr. Jennifer Han, Washington State University

Metarhizium brunneum, a common soil-borne entomopathogenic fungus was evaluated as a potential biological control agent against *Varroa destructor*, a devastating honey bee ectoparasitic mite. Although previous studies show Metarhizium can infect and kill Varroa without harming the honey bee, virulence varies among species, strains, and application methods. Field trials conducted in 2016 tested the ability of a non-conidiating and conidiating strain of *M. brunneum* to infect and kill Varroa. Varroa fall onto sticky boards was collected every 48 hours, counted, and plated onto agar. The non-conidiating strain had no effect on Varroa population numbers whereas the conidiating strain caused a significant increase in Varroa mite mortality compared to control hives. Peak Varroa mortality occurred 5–7 days post treatment, with a decline in mortality starting at day 9; there is a loss of conidia viability at bee hive temperatures (35°C).

Luncheon (Grand Hall, Pavilion—Preregistration required)

Oregon Master Beekeeper Program

Jen Holt, Oregon State University

The Oregon Master Beekeeper Program began in 2012. Since then, it has educated over 1,000 beekeepers. The 152 enrolled Journey beekeeper students have the opportunity to share their knowledge through service activities, and they receive advanced beekeeping education in events such as the Oregon Master Beekeeper Institute, Lab Day at OSU, and a summer field day. We have 100 volunteer mentors on board to mentor our Apprentice class of 2018. We are deeply grateful for their time and expertise in providing essential hands-on training to new beekeepers. The Master Beekeeper level was launched this past year, and we have a dozen participants who will be working on activities in contact with OSU Extension, the Master Gardeners, and the Oregon Bee Project. If you are interested in participating in the Oregon Master Beekeeper.org.

12:00 рм

NOON

11:00 AM

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Bee Informed Partnership

Ellen Topitzhofer, Oregon State University

The Bee Informed Partnership's Northwest Tech Team has been assisting beekeepers for the past four years now. This talk serves as an update on the progress the team has made in the beekeeping community. Beekeepers have used the team's sampling efforts in creative ways through field trials. I will describe some of these trials and how they've directly affected the beekeeper's operation. On a larger scale, we took on some field studies that address issues we've observed in this region. I will discuss our findings from a study on pesticide exposure in almond pollination and a study on horizontal Varroa mite transmission in carrot seed pollination.

Sublethal Effects of Neonicotinoid Insecticides on Queen Bees and Colony Development 1:15 PM Dr. Judy Wu-Smart, University of Nebraska-Lincoln

This talk summarizes our current understanding of the concerns and potential impacts of neonicotinoids on honey bee queens and subsequent effects on the colony.

How Clean Is Your Honey?

Candace Moss, Barkman Honey

This presentation provides a comparison of residues in domestic and import table grade honeys, and the dynamics in the market that drive these differences. In addition, the importance of responsible applications of bee treatments to preserve and protect the pure image of domestic honey and maintain the current significant pricing gap between domestic and import honeys will be discussed.

Residential Beekeeping—A New Law and Recommended Best Practices

Dr. Mike Rodia

Break

A new law (ORS 602) mandates that Oregon's local governments (cities and counties) review with consideration of the also newly mandated *Best Practices . . . for Residential Beekeeping* from Oregon State University the various government rules, codes, and ordinances relating to residential beekeeping, and make any changes by January 1, 2019. The OSBA and its Regional Associations will aid in this review and provide ongoing future assistance and expertise to local governments and beekeepers as the new law is implemented. The OSBA and each Regional Association will have one or more *Residential Beekeeper Experts*, on call and designated to provide assistance.

Conversations with Pesticides

Harry Vanderpool, Vanderpool Farms

PNW-591, A Pacific Northwest extension publication, *How To Reduce Bee Poisoning From Pesticides*, has provided growers, farmers, and beekeepers critical information for working together in agriculture. Since the first edition, word of its value and utility has spread nationwide. In this session, we will explore PNW-591 as a balanced conversation piece among differing agricultural sectors. You are invited to join the conversation!

The Other Magic Mushrooms: Antiviral Activity of Polypore Fungi Against Honey Bee Viruses 3:45 рм Dr. Nicholas Naeger, Washington State University

Dozens of viruses infect honey bees in the United States, including several highly prevalent viruses that have been implicated in Colony Collapse Disorder and the general decline of bee health over the last decades. Currently, there is no treatment available to beekeepers for combating bee viruses. Polypore fungi are long-lived wood decay fungi that produce a wide array of chemicals with antimicrobial activity. Extracts from the mycelium of these fungi were added to sugar syrup and fed to bees in a series of experiments. After initial screening of extracts with caged bees, trials with small outdoor colonies confirmed that adding mushroom extracts to bee feed significantly reduced honey bee viral levels. This

2:00 рм

2:45 РМ

3:30 рм







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year we have treated nearly 700 full-sized colonies to determine the best species, dosing, and other treatment recommendations.

Silent Auction Ends	4:00 рм
OSBA General Membership Meeting (Stage Area, Pavilion) Social Hour (Orchid Room, Main Lodge)	4:30-5:45 РМ 6:00 РМ
Banguet (Orchid Room, Main Lodge—Preregistration required)	7:00 рм

Easy Money, Easy Money

Harry Vanderpool, Vanderpool Farms

In agriculture, where is the easy money? Could it be commercial beekeeping? Four hives were so much fun! And then 40 provided not only fun, but adventure! Now 400 just has to be ten times the fun and some income to boot. Could 4,000 hives be the key to "easy money" in agriculture? With the help of respected OSBA members, Harry takes us down memory lane in his love and life as a beekeeper. Have Harry and his fellow beekeepers achieved a position in the land of "easy money"? We'll take a look.

Benefit Auction to Follow

Sunday, October 29

Registration (Entry Hall, Pavilion)	7:30 АМ
Welcome & Announcements (Grand Hall, Pavilion)	8:15 ам
Harry Vanderpool, OSBA President	

General Session (Grand Hall, Pavilion)

Troubleshooting Queen Failures

Dr. Judy Wu-Smart, University of Nebraska-Lincoln

Weak colony? Poor brood production? It's not always a queen problem. This talk provides some troubleshooting tips for diagnosing "queen" problems.

Concurrent Session (Education Building)

Making Beeswax Ornaments and Other Items

Virginia Webb, Mtn Honey, Instructor

It is amazing what you can make with just a few ounces of beeswax. This hands-on beeswax class will include easy-to-make beeswax ornaments, fire starters, stationary, blocks, and more. These are different ways you can use your beeswax.

WSU Germplasm Importation Project, The Genetic Impact

Sue Cobey, Washington State University

Honey bees are not native to the US, introduced as a small subset sampling by early colonists before the 1922 US Honey Bee Act restricted importations. This foundation population has been propagated to establish our beekeeping industry today. Over time, several genetic bottleneck events have reduced the diversity. Genetic diversity is the raw tool for selection. Research has shown that the maintenance of genetic diversity at the colony level is an important contributor to colony health, and genetic diversity at the population level increases the ability to select important traits, such as productivity and resistance

8:30-10:00 AM

8:30 AM

7:00 PM

9:15 АМ

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to pests and diseases. The impact of the introduction of germplasm from Europe into our domestic breeding programs will be presented.

Break

Bee Trees and Colony Health

Brian Lacy, Urban Bees and Gardens

In this presentation, I provide information on how and why to treat bees as though they live in trees. I give practical lessons in moving, making, and learning from bee trees. I also show examples of bee trees that we can make.

Mid-Season Break in Brood on a Commercial Scale Using Cold Storage for Varroa Control11:00 AMDr. Brandon Hopkins, Washington State UniversityAm

Honey bees are troubled by a number of powerful stressors, often most devastating are Varroa mites and the viruses they transmit. The requirement for strong colonies almost year round to meet pollination demands means that for most commercial beekeepers there is often no break in the brood cycle. While there are physical manipulations to force periods of broodlessness, they are too labor intensive to be applicable on a commercial scale. Without that break in brood, effective treatments means multiple applications of miticides to get effective control. This greatly increases labor and material costs and can be difficult to keep applications on schedule. This presentation will cover initial experiments utilizing indoor cold storage to create a period of broodlessness immediately after the honey flow, with discussion of the potential of improving mite control while reducing the number of miticide applications.

Luncheon (Grand Hall, Pavilion—Preregistration required)

OSU Honey Bee Lab Research Update

Ramesh Sagili, Oregon State University

This presentation will predominantly focus on current research pertaining to honey bee nutrition and Varroa mites. A few ongoing miscellaneous honey bee research projects will also be discussed briefly.

Preparing Entries for Honey Show

Virginia Webb, MtnHoney

Learn tricks of the trade to have your honey show entries bee the best. Information will include how to prepare for the show and what the judges are looking for in the entries.

Keeping Bees in a Diminishing Landscape

George Hansen, Foothills Honey Company

I will describe some of the challenges our business, Foothills Honey Company LLC, is facing as the landscape changes around us. More and more of the available forage for bees and other pollinators is managed for agriculture and other uses. Crops change as prices and labor costs fluctuate and all the while the efficiency of farming practices increases. When grass seed or hazelnut acreage increases dramatically, for instance, the effect is the creation of virtual pollinator deserts. I will discuss the beekeeping management adjustments being caused by these land use changes, as well as some interesting responses at the landscape level.

Break

Supplemental Forage for Honey Bees in Almonds

Dr. Elina Niño, University of California-Davis

Honey bees benefit from access to plentiful and diverse nutrition. However, during almond pollination, there are minimal options for additional forage for honey bees. This has prompted calls for supplemental forage plantings to be available to colonies before, during, and after almond bloom. The main goal of our

10:00 AM 10:15 AM

2:00 PM

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Using Honey Bees to Support Public Lands and Native Flowers Sarah Red-Laird, Bee Girl

The Oregon Department of Transportation (ODOT) manages 196 acres of vernal pool habitat for the purposes of wetland and listed species mitigation in Central Point, Oregon. Vernal pools are a locally significant wetland type that supports unique plants and macroinvertebrate communities, including three state and federal protected species: vernal pool fairy shrimp (*Branchinecta lynchi*), Cook's desert parsley (*Lomatium cookii*), and large-flowered wooly meadowfoam (*Limnanthes pumila spp. grandiflora*). This unique site is a mix of oak woodland, oak savanna, and open prairie/chaparral habitat with vernal pools occurring throughout the site. In 2015, ODOT began a partnership with the Bee Girl organization to both provide pollination services for flowering plants, and also to monitor and document pollinator diversity in this rare and special habitat. This talk will highlight the history of this unique partnership, and the current findings, including vernal pool native flowers that honey bees love, the relationships observed between honey bees and native bees, and the diversity of species of bees that this corner of Oregon hosts.

Final Comments and Adjourn (Grand Hall, Pavilion) Harry Vanderpool, OSBA President 4:30 РМ

3:45 рм



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Conference Presenters, Honey Judges, and OSU Bee Lab Team



Susan Cobey's focus is enhancement of honey bee stocks and improvement of colony health through breeding. She holds a 50% appointment with Washington State University and also runs Honey Bee Insemination Service. With the WSU Bee Team, her main project is the collection and incorporation of germplasm, collected from superior stocks around the world, into domestic breeding programs. An acknowledged international authority in the field of honey bee breeding and instrumental insemination, she has over 30 years of experience in managing the New World Carniolan closed population program. Her experience includes management of Honey Bee Research Laboratories at the Ohio University State and the University of California-Davis.



Jennifer Han is a post-doctoral researcher at Washington State University in Pullman. She is currently researching the efficacy of *Metarhizium brunneum*, an entomopathogenic fungi, as a biocontrol agent against Varroa mites, a devastating honey bee pest. She is working to improve the theromotolerance and virulence of *M. brunneum* using directed evolution techniques. She hopes to develop fungal strains that are hypervirulent towards Varroa with minimal negative impacts to honey bees and the surrounding environment.



After a short six-year career as a public school teacher, **George Hansen** transformed a hobby beekeeping operation into a commercial endeavor. Starting from a few swarms and a collection of retrieved nuisance hives, the Foothills Honey Company now runs 5,000 colonies in three states. Although the name of the company never changed, the focus of the beekeeping is now primarily pollination service, with honey, wax, and bee sales making up no more than 30 percent of gross revenues. George and his wife Susan are currently transitioning their business to their sons Matt and Joe. An active member of the beekeeping Federation and the National Honey Board. He hosts an annual Bee Day workshop and orientation at the Foothills home site and is a self-taught painter using the encaustic medium.



Jen Holt is beginning her first season as the new Program Coordinator for the Oregon Master Beekeeper Program at Oregon State University. She also works in conjunction with Dr. Andony Melathopoulos as the Program Coordinator for the OSU Pollinator Health Program, and is developing exciting ways for the two programs to cross-pollinate. Jen was an Apprentice student in the inaugural year of the program, and continues as a Journey student and committee member. She met her husband Dan through the Oregon Master Beekeeper Program, and, while he is an avid beekeeper, her two children Finn (10) and Cale (8) are content to observe bees from a distance.



Brandon Hopkins is an associate research professor at Washington State University. He helps manage about 250 research colonies along with the production of queens. He is interested in research projects involving Varroa control, virus control products, queen breeding, reproductive technologies, and indoor wintering.





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Brian Lacy got first bit by bees in 1972 at age 13. In the '90s, Brian founded two Portland-based nonprofits: the Community Cycling Center and Growing Gardens. Since 2010, Brian has focused on Urban Bees and Gardens to renew the healing bonds between plants, pollinators, and people.



Candace Moss grew up in the bee yards, spending spring in Oklahoma, summer in South Dakota, and winter in Hillsboro, Kansas. She started working as a clerk in the Barkman Honey honey purchasing department in 2008. Three years later, she joined the honey buying team, where she continues to enjoy forging relationships with beekeepers and their families. Candace lives with her husband and two children. She cares for 12 hives and looks forward to passing along the art of beekeeping with her kids.



Nicholas Naeger, a molecular biologist and geneticist, has been researching honey bees for over 15 years. From 2001 to 2005 he worked at the Ohio State University with Susan Cobey and the New World Carniolan breeding program. He completed his graduate work in Entomology at the University of Illinois Urbana-Champaign. His master's thesis used time-trained foragers to identify genes involved in honey bee sleep/wake cycles, feeding activity, and memory formation. His doctoral research focused on bee brain genetics, where he uncovered vastly different genetic networks in the brains of the different honey bee castes, and identified genes involved in the hard-wiring of instinctive behaviors. Currently a post-doctoral researcher at Washington State University, he is exploring uses of fungi and fungal products.



Elina L. Niño is an Assistant Specialist in Cooperative Extension in Apiculture, UC ANR UCCE located in the Department of Entomology and Nematology at UC Davis. Through her extension activities, Dr. Niño works to support beekeepers and the beekeeping industry. She serves on the CSBA Board and as a member of the Bee Taskforce for the Almond Board of California. Her lab also offers a variety of beekeeping courses and educational opportunities for beekeepers, future beekeepers, other agricultural professionals, and the public, and recently implemented the first California Master Beekeeper Program. Dr. Niño's research interests encompass basic and applied approaches to understanding and improving honey bee health and particularly honey bee queen health. More about the lab is at: elninobeelab.ucdavis.



Sarah Red-Laird is the founder and Executive Director of the Bee Girl organization, a nonprofit with a mission to educate and inspire communities to conserve bees, their flowers, and our food system. She is a graduate of the University of Montana's College of Forestry and Conservation with a degree in Resource Conservation, focused on community collaboration and environmental policy. Aside from running the Bee Girl organization's programs, Sarah is the Kids and Bees Director for the American Beekeeping Federation, an active member of the Northwest Farmers Union, the Western Apicultural Society's Oregon Director, the Oregon State Beekeepers Association's Regional Representative for Southern Oregon, and a brand ambeesador for Mountainsmith.

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Ralph (Mike) Rodia (a Life member of the OSBA and the WVBA) has a PhD in Organic Chemistry, was a research scientist, educator, occupational health inspector and supervisor (OSHA), Oregon Chief Deputy Stat Fire Marshal, and has been active in the OSBA at both the state and regional levels for the last twenty years or so. His experience in the preparation and implementation of laws and rules has allowed him in the past, and now as OSBA's Agricultural Liaison, to interact with governmental agencies at all levels to foster and advance beekeeping in Oregon, particularly as it relates to Residential Beekeeping.



Ramesh Sagili is an Associate Professor in the Department of Horticulture at Oregon State University. He obtained his PhD in Entomology from Texas A&M University in 2007 specializing in honey bee research. His primary research focus at Oregon State University is honey bee health, nutrition, and pollination. He works closely with the state stakeholders (both beekeepers and producers). He initiated the creation of Oregon Master Beekeeper Program and chaired the Oregon Governor's Task Force on Pollinator Health. He has strived to establish a vibrant and dynamic honey bee research and extension program at OSU to cater the needs of beekeepers and producers. His research program addresses both basic and applied questions to improve honey bee health and nutrition; hence, the majority of his research projects are collaborative efforts.



Ellen Topitzhofer became interested in honey bees while studying plant genetics and breeding at the University of Minnesota. She then hit the road to study honey bee nutrition as part of her MS at Oregon State University. She fell in love with the Willamette Valley, the final resting ground of our ancestors who traveled the Oregon Trail. Since then, she's been working with commercial beekeepers all over the Northwest under the Bee Informed Partnership's Tech Transfer Team. She's spent her four years with the Tech Team mastering on-the-ground testing, secret-keeping, and applicable research. Her hobbies include: keeping her own bees alive, talking about bees, and queen rearing.



Thom Trusewicz has been a hobbyist beekeeper over the last 17 years. He teaches an annual beekeeping class for beginners at Clatsop Community College every winter and at the Oregon State Beekeepers Association Fall Conference. He does several presentations on beekeeping and pollination to agricultural and service organizations and garden shops every year all over the Pacific Northwest. He is also a mentor in the Oregon Master Beekeeper Program. Currently his apiary, Beehaven Farm, is dedicated to producing chemical-free honey and wax products. Unfortunately supply can not keep up with the demand for these pure products; however, those are the sacrifices one must make to keep an enjoyable pastime from becoming a demanding profession.



Harry Vanderpool has been a beekeeper for 25 years in the south hills of Salem, Oregon. Vanderpool Farms is now a family operation providing pollination services and farm direct honey. He has served as vice president and president of the Willamette Valley Beekeepers Association and vice president and president of the Oregon State Beekeepers Association. Harry enjoys working with stakeholders and sometimes conflicting agricultural sectors in a balanced manner to find solutions that will offer meaningful pollinator protection strategies.



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Virginia Stephens Webb is a third-generation beekeeper, who began beekeeping in 1964 when her father, Joe Stephens, gave her a beehive as a birthday gift. Keeping bees in North Carolina and Tennessee, they shared a hobbyist beekeeping business for many years. Virginia and her husband Carl are charter members of the Russian Queen Breeders Association. This honey bee was brought into the US in the 1990s by USDA-ARS in Louisiana. It is proven to be genetically resistant to the Varroa mite. Their entire bee yards are nonchemical and organic. Carl and Virginia manage more than 300 colonies of bees plus their queen yard. She is the only individual in the U. to achieve three Master Beekeeping certifications and is a highly sought-after speaker for the beekeeping industry and agriculture.

Judy Wu-Smart received her BS in Zoology at Humboldt State University, Arcata, California. She received her MS in Entomology at Washington State University, where she examined the effects of pesticide residue accumulation in brood comb on honey bee health. She continued on to a PhD program at the University of Minnesota, where she examined the effects of systemic neonicotinoid insecticides on honey bee and bumble bee queens and colony development. In her new role as Assistant Professor and Extension Specialist at the University of Nebraska-Lincoln, she is developing a pollinator health program to help understand the underlying stressors in bee health and their interactions with environmental toxicants. Her goal is to integrate her research and extension efforts with policy to inform the regulatory decision-making process.



Honey Show Judge Marjorie Ehry is a long-time and Life member of the Oregon State Beekeepers Association. For over fifty years, she has bottled and sold honey in a self-service honey stand on their property with many return customers from all over the world. Always stressing the importance of beekeeping, she has been active in several other agricultural organizations, and civic, educational, and political groups throughout the years. Together with her late husband Alan, Marjie also owned and operated Auction Masters & Appraisals, which she continues to this day.



Research Assistant Carolyn Breece has been a research assistant at the Oregon State University Honey Bee Lab (Go Beavs!). She studied mosquitos at UO (Go Ducks!) and bark beetles at Northern Arizona University. She is also a committee member, Journey student, and mentor for the Oregon Master Beekeeper Program. In addition to managing OSU's apiary of 60 colonies, she has 8 colonies of her own and sells her honey (Honey, I Love You!) to her sister's fitness club. When not in bees, you can find Carolyn and her 10-year-old son, Simon, hunting for mushrooms, clams, and mussels, fishing, hiking, or suffering through one of Simon's killer track workouts.



Research Assistant Hannah Lucas was a free-range child, locally raised on a farm right here in the Willamette Valley. She went north to Washington for most of her schooling, including an MS in Biology. Since then she has lived in a lot of places and studied several kinds of critters in many different ecosystems. Hannah's love for bees developed relatively late in life, but once it did, she began to describe her ideal job as one that allowed her to use both her molecular biology education and field biology experience to investigate and ameliorate the problems faced by honey bees and their keepers these days. Naturally, she is very happy to be working in Dr. Ramesh Sagili's Honey Bee Lab at Oregon State University.



OSBA-Affiliated REGIONAL ASSOCIATIONS

Central Coast Beekeepers

Meets 6:30 PM, fourth Wednesday Newport Library, 35 NW Nye St, Newport Information: centralcoastbeekeepers@gmail.com President: Rick Olson 541.997.3792; rolson2@attglobal.net www.ccbaor.org

Central Oregon Beekeepers

Meets 6:00–7:30 PM (5:30 PM beginners' corner), fourth Tuesday (except November) The Environmental Center, 16 NW Kansas Ave, Bend Information: contact@cobeekeeping.org President: Allen Engle—aengle@bendbroadband.com www.cobeekeeping.org

Columbia Gorge Beekeepers

Meets 6:15–8:15 PM, third Wednesday, Rockford Grange, 4520 Barrett Rd, Hood River President: Zip Krummel—541.490.0587, zipk@gorge.net gorgebeekeepers.org

Coos County Beekeepers

Meets 6:30 PM, third Saturday (except December) Ohlsen Baxter Bldg, 631 Alder St, Myrtle Point President: John Gardner—541.572.3847

Douglas County Bees

Meets 7:00–8:00 PM, first Wednesday, Douglas County Courthouse, 1036 SE Douglas Ave, third floor, Roseburg Information: douglascountybees@gmail.com Acting Co-Chairs: Angela Vincent, Diane Griffin www.douglascountybees.org

John Day River Beekeepers

Meets quarterly President: Matt Allen 541.934.9101; apricotapiaries@gmail.com

Klamath Basin Beekeepers

Meets 9:00 AM, last Saturday (except Nov/Dec) OSU Extension, 6923 Washburn Way, Klamath Falls President: Paul Davitt president@klamathbeekeepers.org www.klamathbeekeepers.org

Lane County Beekeepers

Meets 7:30/6:00 PM early session, third Tuesday (except Dec) Trinity United Methodist Church, 440 Maxwell Rd, Eugene President: Max Kuhn 541.999.0744; t.maxkuhn@gmail.com www.lcbaor.org

Linn-Benton Beekeepers

Meets 6:30 PM, third Wednesday Corvallis Waldorf School, 3855 NE Highway 20, Corvallis President: Everett Kaser 541.928.5259; everett@kaser.com www.lbba.us

Oregon Prison Beekeepers

Sustainability Program Manager: Chad Naugle 503.373.7544; Chad.E.Naugle@doc.state.or.us

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Oregon South Coast Beekeepers

Meets 6:00 PM, third Tuesday OSU Extension Office, Fairgrounds in Gold Beach President: Brad Remsey 330.980.6125; bradleeremsey79@aim.com

Portland Metro Beekeepers

Meets 7:00 PM, second Thursday Gladstone Senior Center, 1050 Portland Ave, Gladstone President: Rex McIntire 503.720.7958; remcintire_5@msn.com portlandmetro.org

Portland Urban Beekeepers

Meets 7:00–9:00 PM, first Wednesday Rose City Park United Methodist, 5830 NE Alameda, Portland Information: officers@portlandurbanbeekeepers.org President: Bill Catherall—503.572.6467 president@portlandurbanbeekeepers.org portlandurbanbeekeepers.org

Southern Oregon Beekeepers

Meets 6:30–8:00 PM, first Monday, Southern Oregon Research & Ext Center, 569 Hanley Rd, Central Point Information: sobeekeepers@gmail.com President: John Jacob 541.582.BEES; oldsolbees@gmail.com southernoregonbeekeepers.org

Tillamook County Beekeepers

Meets 7:00 PM, second Tuesday (except December) OSU Extension Office, 4506 3rd St, Tillamook President: Claire Moody 503.318.9149; claire@vanirmail.com

Tualatin Valley Beekeepers

Meets 6:00–8:00 PM, last Tuesday, Jessie Mays Comm Hall, 30975 NW Hillcrest Street, North Plains (except Jul & Dec) Contact: tualatinvalleybeekeepers@gmail.com President: Debby Garman—503.318.5227 tvba.weebly.com/

Willamette Valley Beekeepers

Meets 7:00 PM, fourth Monday, Chemeketa Community College, Building 8, Room 201, Salem President: Richard Farrier 541.327.2673; rfarrierfarms@gmail.com wvbahive.org

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