

Dr. Dewey M. Caron

Dead Bee Colony Forensics  
It is interactive with questions  
for the audience



**Dr Dewey M. Caron** is Emeritus Professor of Entomology & Wildlife Ecology, Univ. of Delaware, & Affiliate Professor, Dept Horticulture, Oregon State University. He has 50 years beekeeping, 40+ years teaching beekeeping, doing bee extension and bee research at Cornell (1966-70), University of MD (1970-1981) and University of DE (1981-2009). He is continuing to write, talk about bees and teach beekeeping courses in retirement. He helped establish OR MB program and has been scientific advisor for the EAS MB Program. Following retirement, he moved from east coast to Portland OR to be closer to (and spoil) 5 grandkids and mentor daughter with her bees. He has 5 backyard colonies in Tigard, OR. Immediately after the Spokane meeting he will spend 4-5 months in Bolivia, So America where he keeps 8+ colonies of Africanized bees and teaches beekeeping at University de San Simon and for beekeepers among communities in the Andes Mountains.

## Dr. Michelle L. Flenniken

The impact of viruses on honey bees at the colony, individual, and cellular levels



**Assistant Professor, Department of Plant Sciences and Plant Pathology, Department of Microbiology and Immunology Affiliate, Montana State University (2014- present) Research: Understanding honey bee host-pathogen interactions, including mechanisms of dsRNA-triggered antiviral responses.**

Co-Director, Pollinator Health Center, Montana State University (2016- present) MSU's Pollinator Health Center brings together faculty from disciplines across MSU, as well as expertise from federal and state agencies, to investigate multiple abiotic and biotic factors influencing pollinator health, mentor undergraduate and graduate students, and engage in outreach and educational activities, [www.montana.edu/pollinators](http://www.montana.edu/pollinators). Michelle received a B.S. in Biology from the University of Iowa, then was a Peace Corps volunteer in Ghana, before obtaining her Ph.D. in Microbiology from Montana State University. She did postdoctoral research at the University of California, San Francisco prior to becoming a faculty member at MSU

Dr. Dennis vanEngelsdorf

Keeping Colonies Alive –  
Survey says

Varroa - wow



Dr. Dennis vanEngelsdorf, an Associate Professor at the University of Maryland, has a broad interest in pollinator health. The focus of his current work involves the application of epidemiological approaches to understanding and (importantly) improving honey bee health. Dennis is the founding president of the Bee Informed Partnership ([BeelInformed.org](http://BeelInformed.org)) which attempts to provide a platform to collect “big data” on the state of managed honey bee colony health. Analysis of these data is providing important insights into the role beekeeper management practices and environmental factors (such as landscape pesticides and climate) have on keeping colonies alive.

## Dr. Ramesh Sagili

"Honey Bee Nutrition: What We Know and What We Need to Know"



Dr. Ramesh Sagili, is working to promote sustainable apiculture and pollination, our research program focuses on three prime areas: **(1) honey bee health (2) honey bee nutrition and (3) honey bee pollination**. Our research program addresses both basic and applied questions to improve honey bee health and pollination. A majority of the research projects are collaborative efforts involving stakeholders (beekeepers, growers, general public interested in bees), OSU colleagues and collaborators from other universities nationally and internationally. Dr

## Dr. Steve Sheppard

### “Queen Program and how it is improving our queen stocks”



Steve Sheppard is the Thurber Professor of Apiculture and Chair of the Department of Entomology at Washington State University. His interest in honey bees derives from early childhood days spent with beekeeping equipment and bee books in the workshop of his great grandfather, a beekeeper from Savannah Georgia. Steve’s graduate research at the University of Illinois was on pollination biology, population genetics and evolution in honey bees. Prior to joining the faculty at WSU, Steve was a research scientist for USDA-ARS, conducting studies on Africanized honey bees and the genetic processes that accompany insect range expansions.

Since 1996, Steve, his students, postdocs and research collaborators at WSU have conducted basic work on honey bee population genetics and evolution, a long-term breeding program to select honey bees that exhibit improved tolerance to mites and diseases and novel approaches to improve honey bee health. The laboratory has contributed a significant research effort on the use of fungal mycelium as a biocontrol agent for parasitic mites, of fungal extracts as antivirals for use in bees and the use of metabolic gas manipulation (controlled atmosphere storage) for indoor wintering and mite control.

In collaboration with US queen producers, his lab has been involved in the importation and distribution of honey bee genetics from Old World source populations. Release of honey bee germplasm to commercial queen producers resulted in a significant increase in overall genetic diversity of honey bee populations. Development of practical methods of honey bee semen cryopreservation in the Sheppard laboratory enabled WSU to establish the world’s first honey bee germplasm repository. This repository currently houses samples of numerous Old World honey bee subspecies and domestic breeding stocks

Dr. Brandon Hopkins

“European Foulbrood”  
“Isolation queen for Varroa  
Control”



Dr. Brandon Hopkins is an Assistant Professor at Washington State University in the Department of Entomology. He was a leader in the development of cryopreservation of honey bee germplasm for breeding and conservation, a discovery that enabled establishment of the world’s first honey bee germplasm repository at WSU. He also administers the WSU Disease and Diagnostic Laboratory, a facility that provides beekeepers with timely information on the health of their colonies. His research efforts have been focused on developing practical solutions for the beekeeping industry ranging from bee breeding to varroa control.

# John J. Hemmingson Center

The John J. Hemmingson Center showcases a 9,200 square foot Grand Ballroom in addition to 12,998 square feet of meeting and event spaces, two floors of resident dining and four food outlets including Starbucks, Einstein Bros. Bagels, The Bulldog and The Marketplace. With 17 meeting areas available, we can place you in a space that will fit your specific meeting, event or social needs. Gonzaga's campus is located on the north bank of the beautiful Spokane River and is only a short walk on the Centennial Trail to the downtown Spokane area where a plethora of entertainment, sightseeing and dining experiences are waiting to be explored.