



EAS 2024

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SUNDAY, AUGUST 4 - FRIDAY, AUGUST 9, 2024
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2024

CONFERENCE PROGRAM



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PRESIDENT'S MESSAGE


Welcome to the 2024 EAS Conference and Short Course. The Turf Valley Resort staff have been very welcoming and receptive (and indulgent) to our special interests; you know what I mean – boxes of bees and people who like them. The site is compact with minimal walking to classes, meals, vendors and other events. This will be a fun, interesting and educational week.

Members of the Maryland State Beekeepers Association and our local clubs are excited to greet and host our fellow beekeeping enthusiasts. Monday night's Dine-Around-Town is the opportunity to make new friends and exchange beekeeping experiences and tall tales. The conference is in the heart of Howard County and the members of the Howard County Beekeepers Association and Woodcamp Farm have been especially generous in hosting the Tuesday evening picnic dinner and pig roast. Special thanks as well to the staff and management of Larriland Farms, a pick-your-own farm, where the picnic dinner will be held. Wednesday's BBQ will have live music. Thursday's Dinner and Auction is always lively, entertaining, and competitive. And Friday's Awards Banquet will announce the Hambleton, Morse and Divelbiss recipients, and recognize new Master Beekeepers.

The Vendor Hall is around the corner from the main conference hall, just behind the EAS Registration desk. There will be great displays from vendors of bee equipment, books, and related products, both local and national. Every year the mix of vendors is a bit different from prior years. During refreshment breaks, come see what's new and different this year.

Take an extra day or two and delve into Maryland's historic sites and natural beauty. To reach Turf Valley Resort, you drive along Route 40, America's first Federally funded highway. Originally starting in Cumberland, MD, it was built to carry settlers through the famous Cumberland Gap. Historic Annapolis was our nation's capital from 1781 through 1789, under the Articles of Confederation. Walk the streets where Washington walked, dined, and helped form our nascent nation. Visit the US Naval Academy and the crypt of John Paul Jones in the Academy Chapel. In September 1814, the British navy bombarded Ft. McHenry, which protected Baltimore Harbor, prompting Francis Scott Key to write the Star-Spangled Banner. Visit the National Aquarium in Baltimore, as well as the WWII submarine USS Torsk, the three masted USS Constellation, Port Discovery Children's Science Center, the Edgar Allen Poe Museum and more. Antietam National Battlefield Site honors one of our deadliest Civil War battlefields. The Chesapeake Bay and its environs offer scenic beauty, boating, fishing, birding and great food. You can't visit the Camp David presidential retreat within Catocin Mountain Park, but you can hike the hills around it.

Thank you for coming and helping make the EAS Conference week the unique and exciting week of beekeeping that it is. And, Welcome to Maryland!



David Morris
Eastern Apicultural Society President

WELCOME FROM THE CHAIR

Welcome to EAS 2024 !

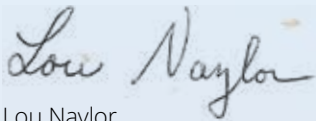
As I begin my second term as Chair I want to express my gratitude to the Executive Committee and the Board of Directors for their guidance and good will, which makes working a pleasure.

Thanks to all our Volunteers, that make our Conference possible. and a special thanks to all the Master Beekeepers involved with testing and teaching, helping us to fulfill our core mission. A huge thanks to Maryland for hosting our conference this year. We all appreciate your strong work.

I hope you all have a wonderful time this week. Make new friends, reconnect with others. Laugh hard at crazy bee stories, and don't be shy about entering the Olympics. Go home with your cars stuffed with equipment, your heads full of new knowledge about all things bee, and a big smile on your face.

You have joined a community of committed, educated, enthusiastic beekeepers. I hope this week will be transformative for you and your apiary.

Sincerely,



Lou Naylor

Eastern Apicultural Society Chair



SCHEDULE OVERVIEW

Sunday, August 4 to Friday, August 9, 2024

Turf Valley Resort - Ellicott City, Maryland

Registration and Information Desk - Wedgewood Lobby	
Sunday	3:00 p.m. - 7:00 p.m.
Monday	7:30 a.m. - 4:00 p.m.
Tuesday	7:30 a.m. - 4:00 p.m.
Wednesday	7:30 a.m. - 4:00 p.m.
Thursday	7:30 a.m. - 4:00 p.m.
Friday	7:30 a.m. - 12:00 p.m.



Eastern Apicultural Society *The Daily Waggle*

The ocelli of the EAS conference... **Thursday August 3, 2023**

WELCOME TO EAS AMHERST! Our Volunteer hosts are wearing maroon volunteer t-shirts, please ask them any questions you may have and thank them for all of their hard work organizing this conference!

Congratulations to all Master Beekeeper Candidates! We hope you are able to relax and enjoy some of the conference.

[The Life of Langstroth digital story. Click to listen!](#)



Look for the daily Waggle at the registration desk for updates and daily happenings!

Master Beekeeper Schedule			
Meet, Greet, and Pre-exam Brief for MBK Candidates	Monday, August 5	4:00 p.m. - 5:00 p.m.	Waterford Ballroom
Volunteer Dinner	Monday, August 5	6:00 p.m. - 9:00 p.m.	Oscar's Alehouse 10795 Birmingham Way Woodstock MD 21104
Master Beekeeper Administration	Monday, August 5	Open All Day	Willow Rooms D & E
Written Exam	Tuesday, August 6	8:30 a.m. - 12:30 p.m.	Willow Rooms A, B, & C
Oral Exam	Tuesday, August 6	8:30 a.m. - 5:00 p.m.	Poplar Rooms A, B, & C
Lab Exam	Wednesday, August 7	8:30 a.m. - 12:30 p.m.	Willow Rooms A, B, & C
Field Exam	Wednesday, August 7	9:00 a.m. - 4:30 p.m.	Testing Apiary

Society Meeting Schedule			
EAS Board of Directors Meeting	Sunday, August 4	5:00 p.m. - 7:00 p.m.	Oakdale Room
Life Members Luncheon	Thursday, August 8	11:30 a.m. - 1:00 p.m.	Waterford Ballroom
Master Beekeeper's Annual Meeting	Friday, August 9	7:30 a.m. - 8:30 a.m.	Terrace on the Green
Michigan EAS 2025 Conference Introduction	Friday, August 9	11:00 a.m. - 11:15 a.m.	Grand Ballroom
EAS Annual Meeting	Friday, August 9	11:15 a.m. - 12:00 p.m.	Grand Ballroom

Honey Show Schedule			
Drop Off Show Entries	Tuesday, August 6	2:00 p.m. – 4:30 p.m.	Ellicott Room
	Wednesday, August 7	8:00 a.m. – 11:00 a.m.	Ellicott Room
Honey Show Open for Viewing	Thursday, August 8	11:30 a.m. – 5:00 p.m.	Ellicott Room
	Friday, August 9	9:30 a.m. – 3:00 p.m.	Ellicott Room
Silver Awards Presentation	Thursday, August 8	Following Dinner	Grand Ballroom
Post-Show Pickup of Entries	Friday, August 9	3:00 p.m. – 5:00 p.m.	Ellicott Room

Honey Exchange Schedule			
Honey Exchange Dropoff	Monday, August 5 – Thursday, August 8	7:30 a.m. - 9:30 a.m.	Wedgewood Lobby
Honey Exchange Day	Friday, August 9	12:15 p.m. – 3:20 p.m.	Wedgewood Lobby

Auctions		
Virtual	July 1 - August 8	Monday, July 1 – 11:59 p.m. Thursday, August 8 at www.biddingowl.com/EAS2024
Silent	August 5-9	Monday, August 5 - 8:30 – 10:45 a.m. & 1:15 – 3:45 p.m., vendor area Tuesday, August 6 - 8:30 – 10:45 a.m. & 1:15 – 3:45 p.m., vendor area Wednesday, August 7 - 8:30 a.m. - 11:45 p.m. & 12:45 – 3:00 p.m., vendor area Thursday, August 8 - 8:30 a.m. - 11:45 p.m. & 12:45 – 3:00 p.m., vendor area 6:30 – 8:00 p.m. Banquet area Friday, August 9 - 8:30 a.m. - 9:45 p.m., vendor area
Live	Thursday, August 8	8:30 - 9:45 p.m., associated with Dinner in the Grand Ballroom

ASK AN EAS VOLUNTEER

If you see folks wearing EAS 2024 green Volunteer T-shirts please do not hesitate to ask one of them for assistance.





TURF VALLEY RESORT INFORMATION

HOSPITAL

The closest hospital is Johns Hopkins Howard County Medical Center located at 5755 Cedar Lane, Columbia, MD 21044. A 225 bed facility located 8 miles from TVR.

FIRST CALL MEDICAL CENTER (ELLICOTT CITY)

For urgent care medical needs the closest facilities is less than 3 miles away from TVR at 10120 Baltimore National Pike, Ellicott City, MD 21042. They can be reached at 410-694-7999 with hours of operation M-F 8am-10pm and Sat & Sun 8am-5pm.

GROCERY STORE & PHARMACY

The closest grocery store is Harris Teeter at 11075 Resort Road, Ellicott City, MD 21042. Hours of operation are as follows:

- Sunday: 6:00 a.m - 10:00 p.m.
- Monday: 6:00 a.m. - 11:00 p.m.
- Tuesday - Saturday: 6:00 a.m - 10:00 p.m.

WI-FI

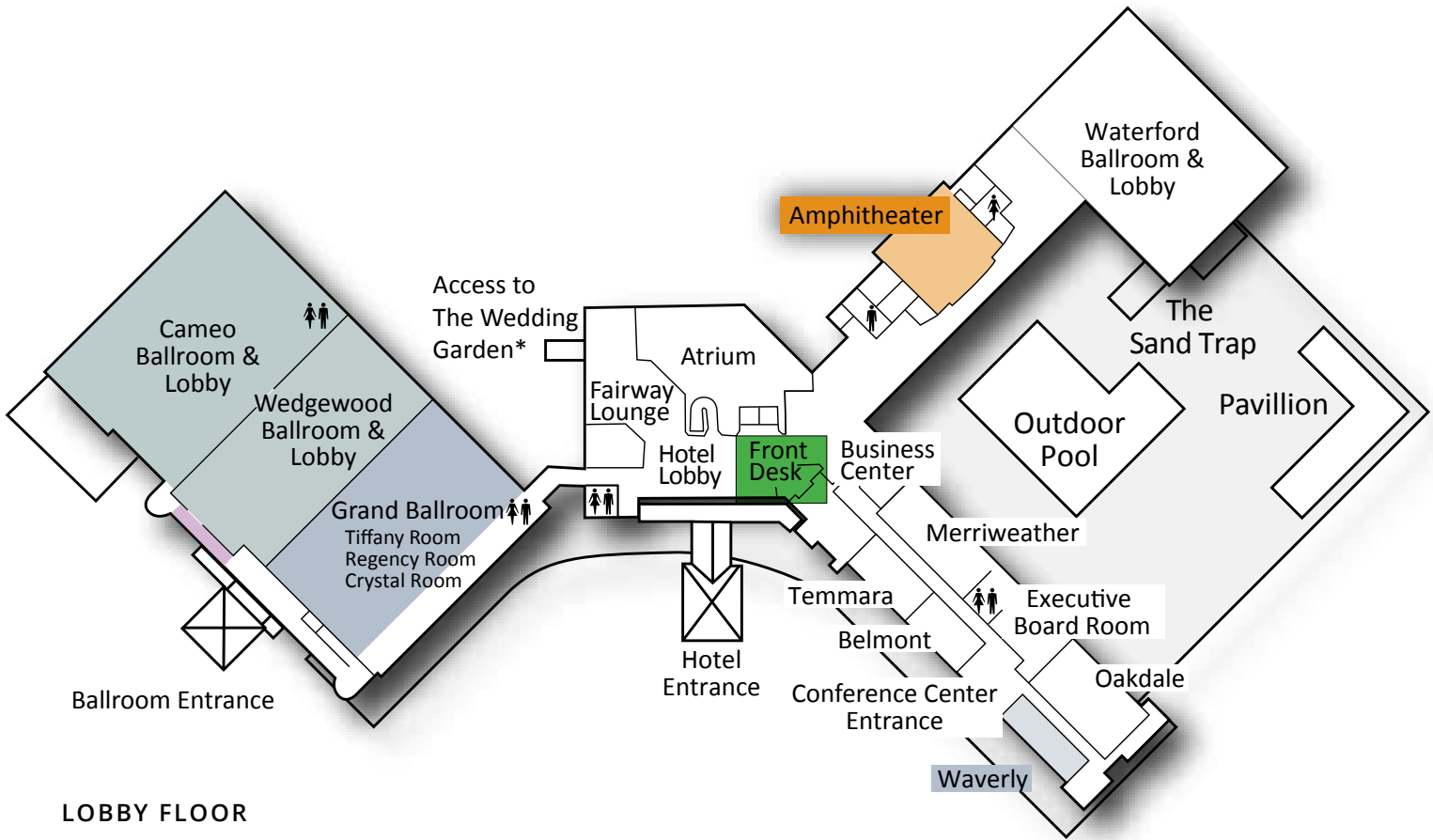
Turf Valley Resort complimentary Wi-Fi is ITG@TurfValley.

LOST AND FOUND

Lost and Found is located at the Front Desk at Turf Valley Resort. Also, check with EAS Registration desk.

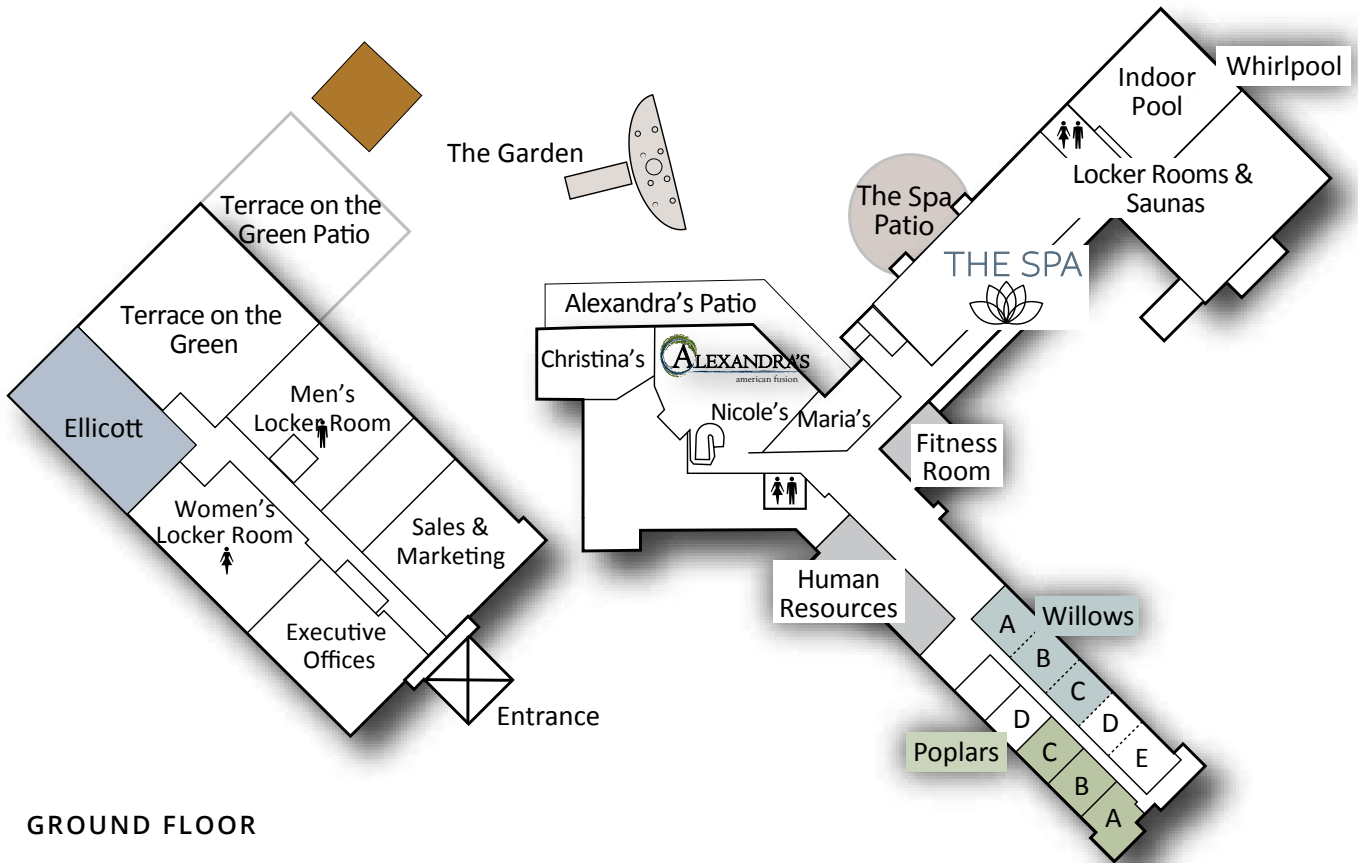
NON-MEDICAL EMERGENCY

Contact number at the Turf Valley Resort for non-medical emergencies is the Front Desk – 410-465-1500 or dial “0” from a house phone.



LOBBY FLOOR

- Vendors
- Plenary Sessions
- EAS Registration
- Deep Dive Sessions
- Hotel Registration
- Yoga and Zumba



GROUND FLOOR

- Apiary
- Honey Show
- MBK Written/Lab Exams
- MBK Oral Exams

SPONSORS AND DONORS

of the 2024 EAS Conference

Not only do we want to thank those people, businesses and organizations that support the 2024 program but also appreciate the value in products and information that they bring to the experience. Their participation enriches our knowledge of what services and products are out there.

Please make sure you let them know how much you appreciate their part by supporting them and letting them know you are glad they are part of this.

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Christina Seldomridge
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Robin Stafford
Sunnymeade Farm, Rachel Epperly
Sunnymeade Farm, Duane Epperly
Judy Treible
Judy Van Namen
Walker's Apiary
Susan Warner
Rich Wieske

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Mary Brady
Bryce & Shelby's Bee Haven
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Diane Wellons
Wild Mountain Honey
Windsock Apiary
Wiregrass beekeepers Association,
Mary Miller
Wiregrass beekeepers Association,
William Miller
Diane Wolf
Anna Wysocki

SPEAKER & EDUCATION

Lindy Allen
Babcock's Bee's
Blackberry Hill Farm, LLC
Richard Blohm
Bryce & Shelby's Bee Haven
Dewey Caron
Cape Cod Beekeeping
Nan Coleman
Ray Crough
Deez L'Town Beez LLC
Lynne Ellis
EZPZ
Elaine Fraser
Jim Fraser
Douglas Galloway
GBB's
John Gaut

Georgetown University, Jesse
Goodman
Bryce Hanson
Charlee Hardy
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HiveiQ
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Brenda Kiessling
Deborah Klughers
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SUNDAY WELCOME RECEPTION

Howard County Beekeepers Association
Maryland State Beekeepers Association

TUESDAY PICNIC

Howard County Beekeepers Association
Larriland Farm
Woodcamp Farm

LIFETIME MEMBER LUNCHEON

Maryland State Beekeepers Association

THURSDAY DINNER & AUCTION

Central Maryland Beekeepers Association

CONFERENCE BREAK SPONSORS

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Central Maryland Beekeepers Association
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Northern Virginia Beekeepers Association
Washington County Beekeepers Association

EAS PROGRAM SUPPORT

Bee Olympics - Frederick County Beekeepers Association
Microscopy Lab - Thomas Babcock (Master Beekeeper)
USDA Bee Lab Tour
- Solution Bee
- Lorobbees.com

EAS APIARY

Lorrobee

MISCELLANEOUS

Bags - Honey Smith Bees
Lanyards - Betterbee

DINE AROUND TOWN

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WELCOME TO ELLICOTT CITY FROM THE EAS MASTER BEEKEEPERS!

by Dave Priebe, EAS Master Beekeeper Director

EAS Conference 2024. A special time of year when we gather as a society of Apiarians to conference, learn, support research, and certify Master Beekeepers. With a spirit of appreciation and gratitude to EAS and all those who have strived to produce this conference; I warmly welcome you in the name of all EAS Master Beekeepers.

I welcome you to fellowship with other beekeepers who come from near and far to attend, partake in educational experiences and to enjoy a society like none other; EAS. I encourage each participant to make full their time. As EAS Master Beekeepers we welcome all to engage in conversation, questioning, and the joy of learning and sharing.

Be most comfortable and welcome to approach Master

Beekeepers at class, breaks, socials, meals, field trips, etc.

EAS Master Beekeepers are experienced and seasoned in the travails of beekeeping and welcome all beekeepers to a conversation; sharing knowledge freely.

For those attendees who endeavor to become EAS Master Beekeeper, a most heartfelt welcome to you. The EAS Master Beekeeper certification is uniquely challenging and highly rewarding experience.



2024 EAS HONEY SHOW

Jim Fraser, EAS 2024 Honey Show Chair, EAS Master Beekeeper

WELCOME TO MARYLAND AND THE 2024 EAS HONEY SHOW — A 67-YEAR TRADITION!

There are 34 classes in the honey show, so we encourage everyone to participate. Anyone who attends the conference is invited to enter honey, wax, or beekeeping-related products in the honey show, which is dedicated to promoting and showcasing the excellence and quality of honey and bee-related products.

Please be sure to review the 2024 honey show rules which are posted on the EAS website. Copies of the rules will be available at the show. The judging criteria are detailed in the show rules. Ribbons are awarded for first through sixth place in more than 30 classes. Entries are also eligible for the coveted silver award. All the awards are possible because our sponsors know

the value of excellence in the craft. You will find their names and logos in this program, so please express your appreciation and gratitude for their generous support. A special thanks to the judges, show stewards, and volunteers who make this show possible.

Honey show entry drop-off is at the Ellicott Room on Tuesday, August 6 from 2:00 – 4:30 p.m. and Wednesday, August 7 from 8:00 – 11:00 a.m. Entries must be picked up on Friday, August 9 from 3:00 – 5:00 p.m.

On behalf of the EAS Honey Show Advisory Committee, I welcome you to EAS 2024, Turf Valley Resort, Ellicott City, Maryland.



KEYNOTE SPEAKERS

Wednesday, August 7

DR. MICHELLE FLENNIKEN

Michelle Flenniken, PhD is an Associate Professor in the Plant Sciences & Plant Pathology Department at Montana State University (MSU). She is a virologist investigating honey bee host-pathogen interactions, Co-Director of the Pollinator Health Center at MSU, and serves on the Scientific Advisory Board of Project Apis m.. 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.



The Impact of Viruses on Honey Bee Health at the Colony, Individual Bee, and Cellular Levels

Wednesday, August 7, 2024

9:30 – 10:30 a.m.

Grand Ballroom

This talk will include information on the most common honey bee infecting viruses and the relationship between Varroa destructor mites and viruses.

Honey Bees and their Viruses

Wednesday, August 7, 2024

2:00-2:50 p.m.

Amphitheater

Dr. Michelle Flenniken will give a short presentation on the viruses that infect bees, and facilitate a question, answer, and discussion session.

DR. ELIZABETH CAPALDI

I am a behavioral biologist who studies the relationship between insect behavior and brain structure. One goal of my research is to explore the neurobiological underpinnings of ecologically relevant behaviors. I focus my research on honey bees, but I also study other bees found in temperate and tropical habitats. I am interested in how insects find their way in the world and in how social behavior is shaped by the environment. My work fits within the integrative discipline of neuroethology, which combines field research using insects in nature with laboratory studies of learning and the brain.



The Fountain: Bee Behaviors, Minds, and King Solomon's Ring an update on cutting edge research on the cognition of bees

Wednesday, August 7, 2024

10:30 - 11:30 a.m.

Grand Ballroom

This presentation will explore learning, memory, and the nature of animals "minds."

Participants at this session will explore a lesson plan for children based on bee biology. Beekeeping experience not required.

How to Help Engage Children in K-6 Schools with Bee-related Themes/Activities

Wednesday, August 7, 2024

4:20-5:10 p.m.

Oakdale Room

Demonstration of the Honey Bee Dance

Thursday, August 8, 2024

1:00 - 1:50 p.m.

Apiary

Participants at this session will examine dancing bees and learn how to determine the foraging range of the foragers.

Thursday, August 8

SAM DROEGE

Sam Droege grew up in Hyattsville, Maryland, and has always been interested in Nature. He has worked at USGS Patuxent Wildlife Research Center since 1978 and now works to support research on native bees and stem some of the losses to wild things that come with population growth, wealth, and disconnection from Nature



How Bees native and non split up the plant world for foraging

Thursday, August 8, 2024

10:00 – 11:00 a.m.

Grand Ballroom

Everyone is well aware that there is competition between native and honey bees. There is also brewing acrimony surrounding that topic. Should there be? We will dive into the details for a smidge of clarity, nuance, life history, and plenty of qualifications.

Taking high resolution stacked photos of bees using Common SLR Equipment

Thursday, August 8, 2024

1:00 – 1:50 p.m.

Crystal Room

Nerd out and talk equipment, DIY, expenses, photoshopping, aesthetics, and bee primping. Hands on and interactive. Bring your own gear and tricks to share.

DR. TAMMY HORN-POTTER

After serving as the Kentucky State Apiarist for almost a decade, Dr. Tamara Potter began a new position with Kentucky State University in 2024. In her new role as the Beginner Beekeeper and Autoclave coordinator, she coordinates grant funds, provides inspections, organizes demonstrations, and oversees management skills for beekeepers throughout the state. In addition, she is an author of four books related to U.S. and international apiculture.



Flower Power: Establishing Pollinator Habitat

Thursday, August 8, 2024

11:00 – 11:30 a.m.

Grand Ballroom

Honey Bee Health Coalition Update

3:20 - 4:10 p.m.

Thursday, August 8, 2024

Merriweather Room

Since 2013, the Honey Bee Health Coalition has positioned itself as a science-based intermediary between commercial agriculture and apiculture, building bridges in an effort to reduce hive mortality and promote best management practices. Many tools developed by the Honey Bee Health Coalition are much-beloved among EAS beekeepers: the Varroa Mite Decision Tree, the Varroa Mite Management Guide, as well as the crop-specific best management practices for soybeans, corn, canola and most recently, apples. As EAS representative to Honey Bee Health Coalition, Tammy Horn Potter will talk about its most recent projects, including the HBHC Honey Bee Nutrition Guide, just published January 1, 2024.

Friday, August 9

DR. JEFF PETTIS

Research Scientist and Consultant, Pettis and Associates LLC

My name is Dr. Jeff Pettis and I have always been a naturalist. As a child I loved the outdoors and enjoyed playing with ants and spiders. I grew up in rural Georgia and my first job was “chopping” cotton and working on a farm. As I grew older and wanted to pursue a degree in biology. I thought I wanted to be a botanist as I love plants and trees. However, when I got to the University of Georgia as an undergraduate, I enrolled in an entomology program and took a course in Honey Bee Biology that changed my life. I fell in love with honey bees. My Professor, Dr. Al Dietz was a great instructor and after that first course I became his technician while still finishing my BS and MS degrees. Bees opened not only a new love of apiculture, the keeping of bees but also a love of social insects. And lastly, bees have taken me all over the world. For my master’s degree I got to travel 8 months to Brazil and Argentina looking at Africanized bees and then 6 months in Mexico to study tracheal mites. I then went on to a PhD program at Texas A&M and from there a post-doc with Dr. Mark Winston of Simon Fraser University in British Columbia, Canada. I then took a job with USDA-Agricultural Research Service as a research scientist in Beltsville, Maryland. I worked on many aspects of bee health in my 20+ years with USDA-ARS including parasitic mites and the effects of pesticides on queen and colony health. I left USDA in 2016 and moved to Bern, Switzerland for one year and then returned to the US to start a consulting business on bee health. I also run a small beekeeping operation with about 150 hives with my wife Marianne and son Kevin, in Salisbury Maryland, USA. I currently serve as the president for an international beekeeping organization, Apimondia. We hold a worldwide beekeeping congress every two years and bring together beekeepers and scientists to talk bees and beekeeping. I am an Entomologist who specializes in Apiculture and honey bee health. My research areas include: IPM techniques to reduce the impacts of parasitic mites and disease, effects of pesticides, pathogens, and temperature on queen health and longevity, host-parasite relationships and bee behavior. I am the current President of Apimondia, the International Federation of Beekeeper’s Associations and I serve on several international committees including the World Organization for Animal Health (WOAH) I have more than 40 years of research experience conducted in more than 15 countries, and I am frequently interviewed by the media for my opinion on worldwide pollinator declines and honey bee health. I received undergraduate and MS degrees in Entomology from the University of Georgia and his doctoral degree in Entomology from Texas A&M University in 1992.



Recognizing a good vs bad colony

Thursday, August 8, 2024

2:00 – 2:50 p.m.

Apiary

A bee colony can tell you all you need to know about how it is doing, if we only can read the signs. This workshop will show some of the clues that we as beekeepers need to be in tune with as we examine colonies. Is this colony OK or do I need to help it? Join us in the apiary.

Coming to an apiary near you? The threat of new pests, hornets, mites and more

Thursday, August 8, 2024

4:20 – 5:10 p.m.

Crystal Room

Beekeepers have been dealing with Varroa, Small hive beetle and more in recent years. Times continue

to change as the recent introduction of two exotic hornets into the US has demonstrated. We are not alone. We can learn from how these new pests have been affecting others around the globe and not have to reinvent the wheel.

Beekeeping in a changing world

Friday, August 9, 2024

10:00-11:00 a.m.

Grand Ballroom

The world around our bees is changing. Climate change with erratic rains and shifting blooming times makes our old beekeeping calendar a bit obsolete. We as beekeepers need to read what is happening in the colony and the environment in order to best manage our colonies. An overview of some of these challenges will be discussed.

AWARD WINNERS

JAMES I. HAMBLETON MEMORIAL AWARD

Dr. Margarita López-Uribe

Dr. Margarita López-Uribe is an Associate Professor of Entomology, Lorenzo L. Langstroth Early Career Professor and faculty member of Intercollege Graduate Degree Programs in Ecology and Bioinformatics and Genomics at Penn State University. She will begin a Fulbright fellowship in Colombia this year. Margarita took Mary Ann Frazier's position at Penn State University in 2016, and her meteoric rise only continued from there. She has already amassed over \$8M in competitive grant funding, leading to a flurry of published articles on honey bee biology and pollinator health. Perhaps most notable of these is her NSF CAREER grant, which is a highly competitive and coveted award to early career scientists. This has enabled her to grow her program very rapidly, where she has six active graduate students, having already graduated several others. Dr. López-Uribe's program is as diverse as it is productive and with her background in native bee biology and appointment as the Penn State Pollinator Health Extension Specialist, she deftly spans both wild and managed bees in her research and extension work. This includes research programs on pollinator evolution, bee health and disease ecology, beekeeping management, and thermal ecology. She was just appointed to the NAREEE Pollinator Subcommittee by Secretary of Agriculture, Thomas Vilsack.



ROGER A. MORSE OUTSTANDING TEACHING/EXTENSION SERVICE/REGULATORY AWARD

Dr. Deborah Delaney

Dr. Delaney is a Full Professor in the Department of Entomology and Wildlife Ecology at the University of Delaware. She currently mentors graduate and undergraduate students working on various aspects of pollinator health and productivity. Debbie adores interacting with students and you can find her teaching Insects and Society, Apiculture, Pollination Ecology, Aquatic Entomology, Bridging Art and Science: Environmental Communication, Growing Future Naturalists. Dr. Delaney just started a new MS program in Environmental Education and is excited to teach people how to develop engaging scientific curriculum. She has over 30 years of experience working with pollinators, specifically honey bees and maintains between 50-100 colonies in and throughout Delaware, Pennsylvania and Maryland. Debbie loves all insects and is passionate about combining the art and science of beekeeping and entomology to engage the public.



CHARLES AND EVELYN DIVELBISS EDUCATION AWARD

At each annual conference, the Eastern Apicultural Society presents the **Charles and Evelyn Divelbiss Education Award**. This award is presented to that person or couple who has—over a period of years—reached out to the non-beekeeping public to explain the value of honey bees in our lives.

The nominee does not need to be from your own state or province. You may wish to announce this request for nominations at beekeeping meetings and in their newsletters. Feel free to contact officers of state and local organizations to request their suggestions for possible candidates and letters of support.

The nomination process is easy. Write a letter outlining how the candidate has reached the public over the years. Groups, such as 4-H clubs, scouting organizations, school groups, community organizations, Lions Clubs, and garden clubs, as well as media interviews and exhibits at county and state fairs, qualify as non-beekeeping public.

Although the main criteria are edification of the public, the letter may also include activities that teach Short Courses and other instructional work toward educating beekeepers and prospective beekeepers. The nominee does not need to be a member of EAS (but the Society would be delighted if the recipient would join).

This year's winner will be revealed at the Friday evening Banquet and Awards Ceremony!

Previous Divelbiss Award Recipients

1988	Al Delicata, ME	1997	Jerry Caldwell, DE	2006	Ed Holcombe, TN	2015	Sam Hall, MY
1989	No award given	1998	George Imire, MD	2007	Robert Mitchell, DE	2016	Tim Schuler, NJ
1990	Charles Mraz, VT	1999	Dr. Dewey Caron, DE	2008	Bill Troup, MD	2017	Ray Walker, DE
1991	Bob Haas, NC	2000	Robert Cole, NC	2009	Richard Crawford, NY	2017	Alex Zomchek, OH
1992	Paul Montaux, Canada	2001	Francis Bowen, CT	2010	Ann Harman, VA	2018	Michael Palmer, VT
1993	Stanford Brown, ME	2002	Richard Johnson, NY	2011	Billy Davis, VA	2019	No award given
1994	Cliff Sunflower, PA	2003	Tony Jadczyk, ME	2012	Bill Mares, VT	2020	Barry Thompson, MD
1995	George & Doris Payne, DE	2004	Dan Conlon, MA	2013	Becky & Ted Jones, CT	2021	Dr. Tammy Horn Potter, KY
1996	Robert Hughes, NJ	2005	Sherry Ferrell & Dave Heilman, OH	2014	Virginia Stephens Webb, GA	2022	Dr. Tom Seeley, NY
						2023	James (Jim) Bobb, PA

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EASTERN APICULTURAL SOCIETY RESEARCH AWARDS

Dr. Adam Pachi

***The Effects of Geography, Forage Sources and Seasonality on Microbial Communities in Honey Bees* | \$10,915**

Dr. Pachi is currently a Plant Protection Specialist/Assistant State Apiary Inspector for the North Dakota Department of Agriculture in Bismarck, ND, a Professor of Biology in the Department of Biology and a member of the Graduate Faculty at the University of North Dakota, in Grand Forks, ND. He is also a Research Associate at the McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History in Gainesville, FL and a Research Associate at the National Museum of Natural History, Smithsonian Institution, Washington, DC. He holds a Doctor of Philosophy in the Department of Entomology University of Minnesota as well as a Bachelor of Science in Fisheries and Wildlife Management from the Biology Department and Bachelor Arts in Music from the Music Department at the University of North Dakota.



Dr. Michael Simone-Finstrom

***Propolis Reduces EFB and Varroa Infestation in Honey Bees Used for Blueberry Pollination* | \$10,000**

Dr. Michael Simone-Finstrom is a Research Molecular Biologist. His research has focused on individual and social mechanisms of disease resistance, including resin/propolis use, hygienic behavior and genetic diversity. His current work aims to add to this line of research by more fully understanding how these traits work in concert in order to promote them within the beekeeping industry and identify components of viral resistance in honey bees.

<https://www.ars.usda.gov/southeast-area/baton-rouge-la/honeybeelab/people/mike-simone-finstrom/>



Dr. Shelley E. Hoover

***Non-Invasive Evaluation of Honey Bee Queen Quality* | \$2,736.62**

Dr. Hoover is an Apiculture and Pollination Scientist in the Department of Research and Innovation at the University of Lethbridge, in Lethbridge, Alberta, Canada. Her research focuses on honey bee health and management, queen production and breeding, and nutrition, as well as canola pollination. Previously, she was the head of the Apiculture Program for the Province of Alberta and has held Research Associate positions at the Universities of Canterbury (Christchurch, New Zealand) and British Columbia (Vancouver and Beaverlodge, Canada). She completed her PhD on honey bee worker ovary development, nutrition, and behavior as Simon Fraser University. Dr. Hoover is currently President of the Canadian Association of Professional Apiculturists.

<https://orsba.org/portfolio/shelley-hoover/>



MANN LAKE EASTERN APICULTURAL SOCIETY SCHOLARSHIP

Kaitlyn Culbert

The **Mann Lake Scholarship**, sponsored by Mann Lake Ltd. and created and administered by the EAS Master Beekeepers, was established to encourage a worthy young individual to pursue an interest in honey bees and beekeeping.

Our EAS 2024 Mann Lake Youth Scholar is Kaitlyn Culbert.

"Katie" is a recent high school graduate with already a long list of accomplishments in the bee world.

She got started by entering a research contest and her work was furthered by another beekeeping scholarship from New Jersey Beekeepers Association. She has received multiple awards, for instance, the 2023 President's Environmental Youth Award.

She just published her second article in Harvard's Journal of Emerging Investigators. It is "Nature's Reset: The Effect of Native and Invasive Plant Forage on Honey Bee Nutrition and Survival". It represents the first investigation of the significance of native and invasive plant forage to the overwintering survival of honey bees as well as novel research examining the effect of natural catastrophic events on honey bee foraging. It is the first of its kind of study examining this relationship. <https://emerginginvestigators.org/articles/23-218>

She was New Jersey Honey Queen 2023, has appeared on national TV, has developed a YouTube "Katie's Adventures in Beekeeping" and Instagram @kt.bees.

She started a 4H bee club at a local park.

She will attend EAS 2024- look for her and talk with her; she is inspiring.



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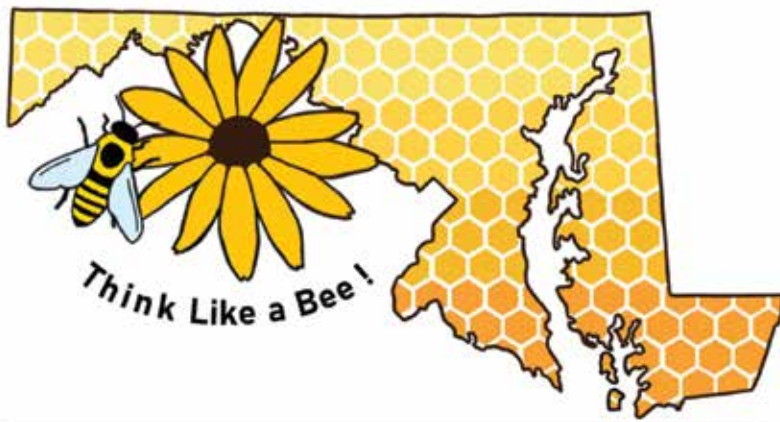


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Eastern Apicultural Society ✧ Maryland ✧ 2024

A major feature that factored into our decision to meet at Turf Valley was that classes, lectures, meals and vendor halls are all under one roof! A little orientation tour of Turf Valley Resort is in order. The two wings of Turf Valley Resort are the Hotel and the Conference Center, connected via a short hallway. The EAS Registration Desk is just inside the Conference Center entrance. Behind the EAS Registration Desk, you will find our Vendor Halls in the Cameo and Wedgewood Ballrooms. From the Registration Desk, turn to your right and the Grand Ballroom, our main Conference venue, is just around the corner. This is the site for the Wednesday Conference Opening and Keynote Lectures, Wednesday BBQ, Thursday Dinner and Auction, and the Friday Awards Banquet. The Grand Ballroom can be divided into three rooms, The Crystal, Tiffany, and Regency Ballrooms. Classes and breakfast (for hotel guests) will be held there. Refreshment breaks will be in the Vendor Halls, so, like a good forager, make a mental map of the location and make a beeline to the Vendor Hall during breaks.

Walk past the Grand Ballroom and down a short hallway to the Hotel Front Desk. If you are a hotel guest, you may have entered the Hotel here to sign in. Just beyond the Hotel Front Desk you will find a hallway on your right. The Oakdale and Merriweather classrooms are located there. Continuing past that hallway takes you to the Amphitheater for the Deep Dive classes and to the

WELCOME TO EAS 2024 AT ELLICOTT CITY, MARYLAND!

Waterford Ballroom for the Sunday Welcome Reception, the Monday Microscopy Lectures, and the Thursday Life Member Lunch. The Microscopy Labs will be held off-site via chartered bus.

The EAS Honey Show and the Queen Rearing Class are in the Conference Center basement. Return to the EAS Registration Desk and descend the stairs by the desk to reach the Ellicott Room (the Honey Show) and the Terrace on the Green (for Queen Rearing). The Apiary is just outside the Terrace on the Green. If you are bringing entries for the Honey Show, there is an outside entrance so that you don't have to carry entries down the stairs.

If you are a Master Beekeeper candidate, your Lab and Written exams will take place in The Willows rooms on the ground, under the Merriweather and Oakdale rooms. Your oral examination will be across the hall in the Poplar rooms. From the Front Desk, descend the stairs to Alexandra's Restaurant. Go under the stairs to the left then keep to your right. You will see the signs directing you.

Don't forget to look for the Silent Auction items, the Painted Hives, and Pop-Up Vendors in the hallways. These will change daily. Miss a day and you may miss a bargain!

Thank you so much for attending and please enjoy the week.

We are so excited to see you here at Turf Valley Resort, Maryland!



VENDORS

The Vendors will be set up on the Lobby Floor of Turf Valley Resort occupying the Cameo and Wedgewood Ballrooms and Lobbies from 3:00 p.m. Monday, August 5th through midday Friday, August 9th. This location is easily accessed from the Grand Ballroom where many of the short course and main conference lectures will be held. Make sure to check out their booths and conference specials. The vendors provide a valuable component to the conference, providing us with the latest equipment and ideas in beekeeping.

Vendors may be at the Conference all week or as “Pop-Up” booths on certain days of the conference. Check the Waggle for details.

VENDORS

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Short Course Schedule

SUNDAY, AUGUST 4

Registration: 3:00 - 7:00 pm, outside Wedgewood Lobby
 Sign up for "Dine Around Town" to be held on Monday p.m.
 Board of Directors Meeting: 5:00 - 7:00 p.m.
 Reception in Terrace on the Green 7:00 -9:00 p.m.

MONDAY, AUGUST 5

MORNING

(Subject to Change)

7:00 - 8:00 a.m.	Zumba with Erin Evans, Waverly Room							
7:00 - 8:30 a.m.	Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)							
7:30 a.m. - 4:00 p.m.	Registration and Honey Exchange Dropoff, outside Wedgewood Lobby							
	MICROSCOPY	BEGINNER	INTERMEDIATE	ADVANCED	VALUING OUR	APIARY	QUEEN	DEEP DIVE
			Increasing your Bee Yard	Bees Do What Bees Do, Managing Bees	BEES AND THEIR CONTRIBUTIONS		REARING (pre- registration required)	Half-Day Classes - need to attend both parts
	Waterford Room	Crystal Room	Tiffany Room	Merriweather Room	Oakdale Room	Teaching Apiary	Terrace on the Green	Amphitheater
8:30 - 9:25 a.m.	Honey Bee Anatomy – From the Hive to the Microscope <i>Dr. Linda Mizer</i>	Honey Bee Biology <i>Dr. Deborah Delaney</i>	Making a New Queen for \$20 <i>Russell Sprangel</i>	You Can "Bee" a Healthier You: Apiculture Does Not Have to be Back Breaking <i>Dr. Alan Sokoloff</i>	The Basics of Honey Tasting (pre-registration required) <i>Suzy Spencer</i>	Mark the Drones in Five Hives, one color per hive 100 drones per hive <i>Don Hopkins Jeff Eckel</i>	Introduction and Making Cell Builders <i>Jen Keller</i>	EAS Honey Show Judging (part 1) Karla Eisen Mark Fiegl Jim Fraser David Morris Bob Wellemeyer
9:25 - 9:35 a.m.	10 min transfer time							
9:35 - 10:30 a.m.	Pollen: Insights and Analysis for Beekeepers <i>Christian Adams</i>	Biology of the Hive <i>Dr. Deborah Delaney</i>	The Nucleus Colony Honey Producer and Resource Hive <i>Steve Repasky</i>	Swarm Before, During and After <i>Lisa Marie Ghezzi</i>	The Basics of Honey Tasting (continued) Holding a Black Jar Contest with Many Judges (pre-registration required) <i>Suzy Spencer</i>	Open Q&A With the Bee Wranglers <i>Don Hopkins Jeff Eckel</i>	Making up Cell Builders in the Apiary <i>Jen Keller</i>	15 min. Break EAS Honey Show Judging (part 2)
10:30 - 11:00 a.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies							
11:00 a.m. - 12:00 p.m.	Nosema – Biology, Impact and Management <i>Joan Mahoney</i>	Why Beekeeping? What Do I Get from It? <i>Carin Zinter</i>	The Science of Why Making Splits is Important <i>Dr. Nathalie Steinhauer</i>	Plan to Succeed: Making a Personalized Action Plan <i>Kim Mehalick</i>	Lotion Making <i>Valerie Wampler</i>	3 Ways of Varroa Testing in Real Life Sugar, Alcohol and CO ₂ <i>Don Hopkins Jeff Eckel</i>	Making up Cell Builders in the Apiary <i>Jen Keller</i>	
12:15 - 1:15 p.m.	Lunch, Grand Ballroom							

MONDAY, AUGUST 5

AFTERNOON

(Subject to Change)

1:30 - 5:30 p.m. Microscopy - Laboratory Component - Board Transport to Community College of Baltimore County							
1:30 - 2:30 p.m. Honey Steward Training, Ellicott Room							
	BEGINNER	INTERMEDIATE Improving Your Beekeeping Success	ADVANCED Enemies of the hive	VALUING OUR BEEES AND THEIR CONTRIBUTIONS	APIARY Best Practices in the Apiary	QUEEN REARING (pre-registration required)	DEEP DIVE Half Day Classes - need to attend both parts
	Oakdale Room	Tiffany Room	Merriveather Room	Crystal Room	Teaching Apiary	Terrace on the Green and Apiary	Amphitheater
1:30 - 2:25 p.m.	What's What? Beekeeping Equipment <i>Toni Burnham</i>	Why Did My Hive Die? <i>Dr. Barry Thompson</i>	New Drone- Varroa Research <i>Dr. Zachary Lamas</i>	Rendering Wax From Comb to that Pretty Block <i>Virginia Webb</i>	How to do an Inspection the Master Beekeeper Way <i>John Benham</i>	Planning and Scheduling for Successful Queen Rearing <i>Jen Keller</i>	Honey Bee Biology (part 1) <i>Larry Truchon</i>
2:25 - 2:35 p.m.	10 min transfer time						
2:35 - 3:30 p.m.	What Do Honey Bees Eat? Why and How they Get It <i>Valerie Wampler</i>	The MDA Apiary Inspection Service... How Humans and Dogs are Keeping Maryland Honey Bees Healthy <i>Cybil Preston</i>	Small Hive Beetles <i>Dr. Humberto Boncristiani</i>	Wax On Wax Off. Making Award Winning Candles <i>Virginia Webb</i>	How to Light a Smoker and KEEP It LIT <i>Jim Fraser</i>	Grafting Overview <i>Jen Keller</i>	15 min. Break
3:30 - 4:00 p.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies						Honey Bee Biology (part 2)
4:00 - 5:00 p.m.	Meet, Greet and Pre-Exam Brief for Master Beekeeper Candidates, Waterford Ballroom						<i>Larry Truchon</i>
4:00 - 4:55 p.m.	Inspecting Colonies & Understanding What You See <i>Mark Gingrich</i>	Apiary and Bee Business Sustainability <i>Dewey Caron</i>	Wax Moth Life Cycle, Protecting Your Comb <i>Dr. Clyde Strang</i>	Infusing Flavors into Your Honey <i>David Elkner</i>	Inspecting a Top Bar Hive Frame Correctly <i>Allen Storm</i>	Practice Grafting <i>Jen Keller</i>	
5:15 - 6:00 p.m.	Gentle Yoga with Bridgett Wilson, Waverly Room						
6:15 - 9:00 p.m.	Dine Around Town with EAS Hosts – sign up for restaurant choice at registration, outside Wedgewood Lobby						
6:00 – 9:00 p.m.	MBK Volunteer Dinner for EAS MBK volunteering to test field or oral MBK Candidates. Oscar's Alehouse, 10795 Birmingham Way, Woodstock, MD 21104						

Short Course Schedule

TUESDAY, AUGUST 6

MORNING

(Subject to Change)

7:00 - 8:00 a.m.	Zumba with Erin Evans, Waverly Room						
7:00 - 8:30 a.m.	Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)						
7:30 - 9:30 a.m.	Honey Exchange Dropoff, outside Wedgewood Lobby						
7:30 a.m. - 4:00 p.m.	Registration, outside Wedgewood Lobby						
8:00 a.m. - 5:00 p.m.	Master Beekeeper Oral Exams, Poplar Rooms A, B & C						
8:30 a.m. - 12:30 p.m.	Master Beekeeper Written Exam, Willow Rooms A, B & C						
	BEGINNER	INTERMEDIATE <i>Native Bees</i>	ADVANCED The Secret Lives of Bees, Inside the Box	PRACTICAL BEEKEEPING	APIARY	QUEEN REARING <i>(pre-registration required)</i>	DEEP DIVE Half Day Classes- need to attend both parts
	Crystal Room	Tiffany Room	Merriweather Room	Oakdale Room	Teaching Apiary	Terrace on the Green and Apiary	Amphitheater
8:30 - 9:25 a.m.	Think Like a Beekeeper. Setting Goals, Making a Plan & Executing It <i>Cathy Misko</i>	Biodiversity of Native Bees <i>Clare Maffei</i>	Keep Bees Inside Your House <i>Frank Linton</i>	A Honey Bee Human: Physiology of a Superorganism <i>Dr. Crystal Lehmaning</i>	Counting Frames of Bees and Evaluating Your Queen Laying Pattern <i>Eric Malcolm</i>	<i>No Class</i>	Making Splits & Nucs: Increases in your Yards Bee Math, and Its Importance <i>Kim Mehalick</i>
9:25 - 9:35 a.m.	10 min transfer time						Science of Splits <i>Dr. Steinhauer</i>
9:35 - 10:30 a.m.	Beating the Odds. Making it Through the Early Years <i>John Benham</i>	Native Bees Versus Honey Bees. Is it Really a Competition? <i>Tim McMahon</i>	What I've Learned from My Observation Hive <i>Phil Frank</i>	Understanding Bee Sting Allergies for Beekeepers. <i>Dr. David Golden</i>	Examining Hives Like a State Inspector. <i>Cybil Preston</i>	Grafting <i>Jen Keller</i>	Various Split Types (walkaway, planned) <i>Pam Hepp</i> Using a Snelgrove Board for Swarm Prevention and Making Splits <i>Kim Mehalick</i>
10:30 - 11:00 a.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies						Using a Snelgrove Board for Swarm Prevention and Making Splits <i>Kim Mehalick</i>
11:00 a.m. - 11:55 p.m.	Recognizing Problems Early & Correcting Them <i>Brenda Keissling</i>	TBD	How Technology can Improve your Beekeeping Knowledge (Continuous Monitoring) <i>Dr. William Meikle</i>	Responsible Treatment Free Management <i>Kevin Inglin</i>		Check Cell Builders and Insert Grafts – Apiary <i>Jen Keller</i>	What Makes a Good Nuc <i>Valerie Wampler</i> Guidance Questions for Nuc Buyers
12:15 - 1:15 p.m.	Lunch, Grand Ballroom						

TUESDAY, AUGUST 6

AFTERNOON

(Subject to Change)

	BEGINNER	INTERMEDIATE	ADVANCED	PRACTICAL BEEKEEPING	APIARY	QUEEN REARING	DEEP DIVE
	Crystal Room	Waterford Ballroom	Merriweather Room	Oakdale Room	Teaching Apiary	Terrace on the Green	Amphitheater
1:30-2:25 p.m.	Pests & Diseases (part 1) <i>Cybil Preston</i>	The Strength of Study Groups, and Their Evolution in Maryland <i>David Schultz</i>	Lessons Learned Going from 2-800 Hives. (Don't Learn Them the Hard Way) <i>Jason Hough</i>	How to Take Better Bee Pictures with Your Cell Phone <i>Phil Frank</i>	How to Effectively Move Bees on a Frame <i>Don Hopkins Jeff Eckel</i>	What To Do With Ripe Queen Cells <i>Jen Keller</i>	Half Day Classes - need to attend both parts Various EAS Certified Master Beekeepers
2:00-4:30 p.m.	Honey Show Drop Off – Ellicott Room						15 min. Break
2:25-2:35 p.m.	10 min transfer time						
2:35-3:30 p.m.	Pests & Diseases (part 2) <i>Cybil Preston</i>	Encouraging New Beekeepers to Step Up. Keeping the Young Alive <i>MD MBK study group</i>	Contracts and Equipment Considerations for Small Scale Pollination Work <i>Jim Fraser</i>	Single Brood Chamber Management <i>Steve Repasky</i>	Making a Walk Away Split <i>Don Hopkins Jeff Eckel</i>	Troubleshooting and Q&A <i>Jen Keller</i>	
3:30-4:00 p.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies						Varroa Biology & All Legal Mite Treatments (part 2)
4:00-4:55 p.m.	Master Beekeeper Roundtable <i>EAS Certified Master Beekeepers</i>	Mentoring Programs that Work. Setting up a Club Teaching Apiary <i>Maureen Jais-Mick</i>	Finances for Your Bee Farm <i>Erin Evans, CPA</i>	Honey Bee Navigation <i>David Schultz</i>	Open Wrangler Time – Get One-on-one Answers to Your Questions	<i>No Class</i>	
4:00-9:00 p.m.	Early Bus Departing for Picnic/BBQ at Larriland Farm, Woodbine. Pre-registration required.						
5:15-6:00 p.m.	Gentle Yoga with Bridgett Wilson, Waverly Room						
5:15 – 9:00 p.m.	Later Buses Depart for Picnic/BBQ at Larriland Farms, Woodbine. Pre-registration required.						

Conference Schedule

WEDNESDAY, AUGUST 7

MORNING

(Subject to Change)

7:00 - 8:00 a.m.	Zumba – <i>Erin Evans</i> , Waverly Room
7:00 - 8:30 a.m.	Breakfast Buffet in Waterford Ballroom (those registered at Turf Valley Resort)
7:30 - 9:30 a.m.	Honey Exchange Dropoff, outside Wedgewood Lobby
7:30 a.m. - 4:00 p.m.	Registration, outside Wedgewood Lobby
8:00 - 11:00 a.m.	Honey Show Entries Accepted, Ellicott Room
8:30 a.m. - 12:00 p.m.	Trip to Fort McHenry National Monument and Historic Shrine – Depart from Front Lobby area
8:30 a.m. - 12:30 p.m.	Master Beekeeper - Lab Exam, Willows Rooms A, B & C, Ground Level
9:00 a.m. - 4:30 p.m.	Master Beekeeper - Field Exam, Testing Apiary
8:30 - 8:45 a.m.	Introductions and Welcome – <i>Eloise Naylor</i> , EAS Chair & <i>David Morris</i> , EAS President, Grand Ballroom
8:45 - 9:00 a.m.	Welcome from the Maryland State Department of Agriculture Secretary, Dr. Kevin Atticks, Grand Ballroom
9:00 - 9:30 a.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies
9:30 - 10:30 a.m.	<i>Dr. Michelle Flenniken</i> , The Impact of Viruses on Honey Bee Health at the Colony, Individual Bee, and Cellular Levels, Grand Ballroom
10:30 - 11:30 a.m.	<i>Dr. Elizabeth Capaldi</i> , The Fountain: Bee Behaviors, Minds, and King Solomon's Ring (An Update on Cutting Edge Research on the Cognition of Bees)
11:30 a.m. – 12:45 p.m.	Lunch, Grand Ballroom Visit Vendors, Cameo and Wedgewood Ballrooms and Lobbies

WEDNESDAY, AUGUST 7

AFTERNOON

(Subject to Change)

50-minute workshops	The Bees Knees Amphitheater	Romancing the Drones Tiffany Room	Oh, What You'll See When You Think Like a Bee Crystal Room	USDA and Regional Beekeeping Merriweather Room	Bee Keeping Topics Oakdale Room	Apitherapy Waterford Ballroom	APIARY Teaching Apiary
12:30 – 4:30 p.m.	Trip to the B&O Railroad Museum – Depart from the Front Lobby area						
1:00-1:50 p.m.	A Honey Bee Human: Physiology of a Superorganism <i>Dr. Crystal Lehmaning</i>	The Importance of Drones for Raising High Quality Queens <i>John Gaut</i>	Scent Detection Demonstration. How Humans and Dogs are Keeping Maryland Honey Bees Healthy <i>Cybil Preston</i>	Miticides <i>Dr. Steve Cook</i>	Gadgets You Could Keep Bees Without, But Won't Want To <i>Allen Hayes</i>	Plants for Medical Grade Honey <i>Dr. Ferhat Ozturk</i>	Marking Drones <i>Don Hopkins and Jeff Eckel</i>
1:50-2:00 p.m.	10 min break/ transfer time						
2:00-2:50 p.m.	Honey Bees and Their Viruses <i>Dr. Michele Flenniken</i>	Wax On, Wax Off: Making Award Winning Candles <i>Virginia Webb</i>	State Apiary Inspectors Panel <i>Natasha Garica-Andersen, Lead</i>	Longtime Disease Trends from the USDA's Bee Disease Diagnostic Service <i>Sam Abban</i>	EAS Master Beekeeper Program: History, Why & How <i>Erin Evans</i>	Unique Products of the Hive for Apitherapy and the Importance of Clean Products <i>Dr Petrusia Kotlar</i>	Three Ways of Varroa Testing in Real Life: Sugar, Alcohol and CO ₂ <i>Don Hopkins and Jeff Eckel</i>
2:50-3:20 p.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies						
3:20-4:10 p.m.	Terrace on the Green Almost Every Device Under the Beekeeping Sun - Open House <i>Russell Sprangel</i>	Exploring UAV Technology for Identifying Drone Congregation Areas <i>Mark Gingrich</i>	Honey Bee Digestion <i>Dr. David Peck</i>	Regional Beekeeping: North, Mid Atlantic, South Part 1 <i>Erin Evans, Eric Malcolm, Kent Williams</i>	The Search for Medicinal Properties of Spotted Lantern Fly Honey for Human Health <i>Dr. Petrusia Kotlar</i>	Propolis: Trapping and Tinctures Debbie Klughers	Assistive Technologies for Beekeepers <i>Dr. Adam Ingrao</i>
4:10 - 4:20 p.m.	10 Minute Break / transfer time						
4:20 - 5:10 p.m.	Terrace on the Green (continued) Almost Every Device Under the Beekeeping Sun - Open House <i>Russell Sprangel</i>	UV Flight Demonstration, Outdoors <i>Mark Gingrich</i>	TBD	Regional Beekeeping: North, Mid Atlantic, South Part 2 <i>Erin Evans, Eric Malcolm, Kent Williams</i>	How to Help Engage Children in K-6 Schools with Bee-related Themes/Activities <i>Dr. Elizabeth Capaldi</i>	Medicinal Use of Honey: Evidence-based Applications <i>Dr. Ferhat Ozturk</i>	Hives Langstroth Did Not Invent <i>Allan Storm</i>
5:15 - 6:00 p.m.	Gentle Yoga – <i>Bridgett J. Wilson</i> , Waverly Room						
5:15 - 6:15 p.m.	Bee Olympics – Teaching Apiary						
6:15 - 6:30 p.m.	Group Photo – meet outside by the EAS Registration area						
7:00 - 8:30 p.m.	Happy Hour – Cash Bar, Grand Ballroom						
7:00 - 8:30 p.m.	BBQ Dinner, Grand Ballroom						

Conference Schedule

THURSDAY, AUGUST 8

MORNING

(Subject to Change)

7:00 - 8:30 a.m.	Breakfast Buffet in Waterford Ballroom (those registered at Turf Valley Resort)
7:30 - 9:30 a.m.	Honey Exchange Dropoff, outside Wedgewood Lobby
7:30 a.m. - 4:00 p.m.	Registration, outside Wedgewood Lobby
8:30 a.m. - 12:00 p.m.	USDA Bee Research Laboratory, Beltsville, MD– Tour 1 (pre-registration required)
8:30 - 8:45 a.m.	Conference Updates – Eloise Naylor, EAS Chair & David Morris, EAS President, Grand Ballroom
8:45 - 9:30 a.m.	Presentation by Dr. Margarita López-Urbe, 2024 Hambleton Award Winner, The Benefits and Promises of Organic Beekeeping, Grand Ballroom
9:30 - 10:00 a.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies
10:00 - 11:00 a.m.	Sam Droege: How Bees, Native and Non, Split Up the Plant World for Foraging, Grand Ballroom
11:30 a.m. - 5:00 p.m.	Honey Show Open for Viewing, Ellicott Room, Ground Level
11:00 - 11:30 a.m.	Dr. Tammy Horn-Potter, Flower Power: Establishing Pollinator Habitat, Grand Ballroom
11:30 a.m. - 1:00 p.m.	Life Member Luncheon, Waterford Ballroom. Mike Markowitz: Honey Bees on Ancient Coins (open to Life Members who have pre-registered and paid in advance)
11:30 a.m. - 12:45 p.m.	Lunch, Grand Ballroom Visit Vendors, Cameo and Wedgewood Ballrooms and Lobbies

THURSDAY, AUGUST 8

AFTERNOON

(Subject to Change)

1:00 - 5:00 p.m.	USDA Bee Research Laboratory, Beltsville, MD– Tour 2 (pre-registration required)						
	Bee Stuff Tiffany Room	Photography Crystal Room	Accessible Bee Keeping Waterford Room	Out of Africa and Other Topics Merriweather Room	Urban Beekeeping Oakdale Room	Think Like a Bee Amphitheater	Apiary Teaching Apiary
1:00 - 1:50 p.m.	Underappreciated Drones <i>Dr. Jon Zawislak</i>	Taking High Resolution Stacked Photos of Bees Using Common SLR Equipment <i>Sam Droege</i>	Accessibility in the Bee Yard <i>Dr. Adam Ingrao</i>	Africanized Honey Bee Update <i>Dr. Dewey Caron</i>	Beekeeping In, of, or For the City <i>Dr. Eve Bratman</i>	Insect Societies from Kings & Queens to Just Plain Wasps <i>Dr. James Wilson</i>	Demonstration of the Honey Bee Dance <i>Dr. Elizabeth Capaldi</i>
1:50 - 2:00 p.m.	10 min break/ transfer time						
2:00 - 2:50 p.m.	Feral Honey Bees: Reservoirs of Disease or Sources for Future Breeding? <i>Dr. Margarita López-Urbe</i>	How to Take Better Bee Pictures with Your Cell Phone <i>Phil Frank</i>	TBD	Business Models: Do You Really Need All Those Bees? <i>Kent Williams</i>	TBD	Comb and Nest Architecture <i>Grai St. Clair Rice</i>	Recognizing a Good Versus Bad Colony <i>Dr. Jeff Pettis</i>
2:50 - 3:20 p.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies						
3:20 - 4:10 p.m.	Nectar-Producing Plants for Honey Bees <i>Joe Alvarez</i>	Thermoregulation and Ventilation <i>Bill Hesbach</i>	AŽ Hive Discussion <i>Jonna Sanders</i>	Honey Bee Health Coalition Update <i>Dr. Tammy Horn-Potter</i>	Critical Assets Every Urban Beekeeper Needs <i>Charles DeBarber</i>	Anticipatory Beekeeping <i>Dr. Dewey Caron</i>	Examining Sterilized American Foulbrood Comb <i>Don Hopkins</i>
4:10 - 4:20 p.m.	10 Minute Break / transfer time						
4:20 - 5:10 p.m.	The Ecological Impacts of Beekeeping and the Importance of Beekeepers as Stewards of the Environment <i>Dr. Margarita López-Urbe</i>	Coming to an Apiary Near You? The Threat of New Pests, Hornets, Mites and More <i>Dr. Jeff Pettis</i>	Therapeutic Value In Keeping Bees <i>Monica Schmidt</i>	Bees Don't Bite: Facts About Bee Stings that Every Beekeeper Should Know <i>Dr. Barry Thompson</i>	Nuts and Bolts of Urban Beekeeping <i>Toni Burnham</i>	American Foul Brood Vaccine <i>Nathan Reid</i>	Stress-Free Beekeeping by the Sustainable Honey Bee Program. <i>Richard Whitlow</i>
5:15 - 6:00 p.m.	The Beekeeper's Corner Podcast , Kevin Inglin & Bob Kloss, Amphitheater						
5:15 - 6:00 p.m.	Gentle Yoga – Bridgett J. Wilson, Waverly Room						
7:00 – 10:00 p.m.	Happy Hour - Cash Bar, Grand Ballroom						
7:00 - 8:00 p.m.	Dinner Buffet, Grand Ballroom						
8:00 - 10:00 p.m.	Live Auction and Honey Show Silver Awards Presentations, Grand Ballroom						

Conference Schedule

FRIDAY, AUGUST 9

MORNING

(Subject to Change)

7:00 - 8:30 a.m.	Breakfast Buffet in Waterford Ballroom (those registered at Turf Valley Resort)
7:30 - 8:30 a.m.	Master Beekeeper Annual Meeting and Breakfast, Terrace on The Green
7:30 a.m. - 12:00 p.m.	Registration, outside Wedgewood Lobby
8:30 - 8:45 a.m.	Conference Updates – Eloise Naylor, EAS Chair & David Morris, EAS President, Tiffany & Regency Rooms
8:45 - 9:30 a.m.	Presentation by Dr. Debbie Delaney - 2024 Morse Award Winner: University of Delaware Bee Lab Happenings! , Tiffany & Regency Rooms
9:30 a.m. - 3:00 p.m.	Honey Show Open for Viewing, Ellicott Room
9:30 - 10:00 a.m.	30 Minute Break – Snacks in Vendor Area, Cameo and Wedgewood Ballrooms and Lobbies
10:00 - 11:00 a.m.	Dr. Jeff Pettis, Beekeeping in a Changing World, Tiffany & Regency Rooms
11:00 - 11:15 a.m.	Announcements
11:15 a.m. - 12:00 p.m.	EAS Annual Business Meeting, Tiffany & Regency Rooms
12:00 - 1:00 p.m.	Lunch, Grand Ballroom
12:15 - 3:20 p.m.	Honey Exchange Pickup, outside Wedgewood Lobby

FRIDAY, AUGUST 9

AFTERNOON

(Subject to Change)

50-minute workshops	Are you Smarter Than a Fifth Instar Larva? Crystal Room	Research, Etc. Merriweather	Keys for Keeping Bees Tiffany Room	Bee Skills Oakdale Room	Reaching Out Amphitheater	Communication and Bee Health Waterford Ballroom	Apiary
1:00 - 1:50 p.m.	Long Hives: Management and Varroa Treatment with Formic Pro <i>Dr. Heather Broccaro-Bell</i>	Small Hive Beetle - What Do we Know so Far? <i>Dr. Humberto Boncristiani</i>	Perpetual Beekeeping <i>Dorinda Priebe</i>	Difference Between Native Bees and Honey Bees <i>Tim McMahon</i>	Keep the Buzz Going, Customize a Youth Scholarship Program <i>Cathy Misko</i>	Good & Bad Microbes in Bee Colonies <i>Dr. Jay Evans</i>	Recovering from Bee Yard Mistakes and Mishaps <i>Don Hopkins and Jeff Eckel</i>
1:50 - 2:00 p.m.	10 min break/ transfer time						
2:00 - 2:50 p.m.	Tools & Tips <i>Debbie Klughers</i>	Creating a Self-Service Store to Sell Your Products <i>Landi Simone</i>	Pollen <i>Bill Hesbach</i>	Veterinary Feed Directive <i>Dr. Rebecca A. Krimins</i>	Bee Zoning Laws <i>David Frank</i>	Pheromones: Chemical Communication in the Hive <i>Dr. James Wilson</i>	By Popular Demand – see the Waggle
2:50 - 3:20 p.m.	30 Minute Break – Snacks in Vendor Area						
3:00 – 5:00 p.m.	Honey Show Entry Pickup, Ellicott Room, Ground Level						
3:20 - 4:10 p.m.	Bridging the Art and Science of Beekeeping <i>Dr. Debbie Delaney</i>	Purdue Leg-Chewing Stock & Genetic Selection in Our Apiary <i>Burton Beasley</i>	European Foul Brood and Me, A “Real Hive” Situation <i>Dorinda Priebe</i>	Setting up a Home Microscopy Workshop <i>Eric Smith</i>	Terrace on the Green Pysanki-making Workshop (Pre-registration required) <i>Evelyn Hogg</i>	Novel Disease Treatments <i>Dr. Jay Evans</i>	
4:10 - 4:20 p.m.	10 Minute Break / transfer time						
4:20 - 5:10 p.m.	Speaker Panel with Drs. Debbie Delaney, Jay Evans, Margarita López-Urbe, Jeff Pettis, James Wilson and Jon Zawislak, Waterford Ballroom						
6:30 - 9:00 p.m.	Happy Hour – Cash Bar, Grand Ballroom						
7:00 - 8:00 p.m.	Plated Dinner, Grand Ballroom						
8:00 - 10:00 p.m.	Awards, Grand Ballroom						

SATURDAY, AUGUST 10

7:00 – 8:30 a.m. Breakfast Buffet in Crystal/Regency Ballroom (those registered at Turf Valley Resort)

PRESENTERS AND SPEAKERS

SAMUEL ABBAN

Samuel Abban is a Support Scientist at the Bee Research Lab in Beltsville Maryland. He manages the day-to-day operations of the Bee Disease Diagnostics Lab, which provides free routine testing for honey bee samples submitted by beekeepers or apiary inspectors. The USDA has been providing this service since the early 1900's. The diagnostics Lab receives and processes over two thousand honey bee samples annually. Diagnostics are provided for parasitic mites, gut parasites, and two major bacterial diseases. Sam has been part of the Bee Research Lab for over 10 years and helps beekeepers and apiary inspectors monitor pests and diseases in colonies nationwide.



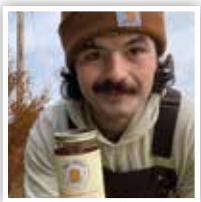
Longtime Disease Trends from the USDA's Bee Disease Diagnostic Service

Wednesday August 7, 2024
2:00-2:50 p.m.
Merriweather Room

Screening and monitoring the prevalence of American and European foulbrood diseases and Nosema infection, Varroa and honeybee tracheal mites, and other common pests and pathogens in U.S. colonies. We are also in a key position to recognize and identify novel or emerging pests and diseases that we may encounter through apiary inspectors or beekeepers.

CHRISTIAN ADAMS

Christian is a member of the UD Bee Lab under Dr. Deborah Delaney & owner of Honey Harvest Apiary, a South Jersey based beekeeping business. His main career goal is to study ethnobiological facets of beekeeping with an emphasis on beekeeping where *A. mellifera* is native, methods of management with other *Apis* species, and meliponiculture as a growing practice. The world of bees has taken Christian all over, from hunting for wild bees all along the East Coast to studying stingless bees deep in the Peruvian Amazon. When not studying or working, Christian enjoys fly fishing, hunting for culinary mushrooms, and mead making!



Pollen: Insights and Analysis for Beekeepers

Monday August 5, 2024
9:35 – 10:30 a.m.
Waterford Room

Everyone knows that pollen is one of the main things that bees forage on, but do you understand its full impact on the hive? Join us to explore the fascinating microscopic world of pollen including its biology, diversity, and crucial role in bee health and productivity. We'll review essential microscopy techniques for pollen analysis, which can offer invaluable insights into your bees' foraging behaviors and nutritional intake. Finally, this lecture will deepen your understanding of the interconnected world of honey bees with local floral ecosystems

JOE ALVAREZ

Joe has recently served as 2nd VP for the New Jersey Beekeepers Association (NJBA) and presently serving as their Outreach Coordinator. With over 42 years in the landscape and nursery industry, Joe's recent research project is a United States Department of Agriculture (USDA) Specialty Crop Block Grant focused on the NJ native beach plum (*Prunus maritima*) propagation as an added value crop.



Joe is a former Master Gardener Instructor and Agricultural Program Assistant for the Rutgers Cooperative Extension of Cape May County. With nine year's experience as a high school science teacher, Joe is currently a professor for Rowan College of South Jersey Ornamental Horticulture / Agriculture Program, along with the Cape May County Library's Adult Education Series on Horticulture and Gardening. Combining experience as a beekeeper and a horticulturalist gives Joe a unique perspective when it comes to pollinators and forage sources for both native and ornamental species.

Nectar Producing Plants for Honey Bees

Thursday, August 8, 2024
3:20 - 4:10 p.m.
Tiffany Room

Across the United States, and especially the Mid-Atlantic States, the increase in development has

caused a decrease in the plants and habitat that are critical to the survival of our honey bees and other pollinators. This reduction along with widespread use of pesticides and herbicides does strongly influence this decline. Honey bees need late season sources of pollen and nectar in order to get them through the winter. Come and learn just how you can help even if you don't have a green thumb.

DR. KEVIN ATTICKS

Kevin Atticks was appointed Acting Secretary of Agriculture on Jan. 18, 2023 and sworn in as Secretary on March 2, 2023. Prior to his appointment, Atticks was CEO (and founder) of Grow & Fortify, a company supporting value-added agricultural organizations and the businesses they represent. Grow & Fortify published the first assessment of the state's value-added agricultural industry, illustrating the expansive impact generated by this sector, which includes wineries, creameries, meat processing, agritourism, equine and dozens of other industry segments.



Atticks was also the Executive Director of the Maryland Wineries Association, Brewers Association of Maryland and the Maryland Distillers Guild, and served as the President of the Maryland Agricultural Resource Council, and the Chair of the WineAmerica State & Regional Associations Advisory Council.

Atticks formerly served on the University of Maryland College of Agriculture's Global Leadership Council, the board of Future Harvest and the board of the Maryland Tourism Coalition.

Originally from Bowie, Maryland, Atticks graduated with a journalism degree from Loyola University Maryland. Shortly thereafter, Atticks received a master's degree from the University of Colorado in Boulder, CO. He later earned his doctorate in communications design from University of Baltimore. He holds a faculty position at Loyola University Maryland.

Welcome from the Maryland State Department of Agriculture Secretary

Wednesday, August 7, 2024
8:45 - 9:00 a.m.
Grand Ballroom

BURTON BEASLEY

Burton W. Beasley III has been beekeeping since 2009 in the Foothills/Piedmont of North Carolina. What began as a small backyard beekeeping endeavor of maintaining a dozen or so hives, quickly grew to a side-liner operation of a couple hundred hives dba Beasley Honey Co. Burton is the youngest of just thirteen Mastercraftsman beekeepers, the highest level of the North Carolina State Beekeepers Association's Master Beekeeper Program. Burton is also an EAS Master Beekeeper. Burton enjoys educating & working with beekeepers, especially new & hopeful bee school students. Burton is very active with his local county chapter of Gaston County Beekeepers Association of NC, where he serves as educational coordinator & program chair. Burton is also a past Vice President and Regional Director for the North Carolina State Beekeepers Assoc.



Purdue Leg-Chewing Stock & Genetic Selection in Our Apiary

Friday, August 9, 2024
3:20 - 4:10 p.m.
Merriweather Room

Discovery, history, & current development/dissemination of Purdue Chewing Stock.

Characteristics, field results, & personal inferences on the stock.

How I select for traits, how I try to ensure desired results, & pitfalls of open air breeding programs.

JOHN BENHAM

John has been a beekeeper for 23 years, operating 40 colonies and a breeder of quality local queens and bees from local survivor stock for over 20 years. He is an Eastern Apiculture Society Certified Master Beekeeper, Life Member of EAS, 2019 President of HAS, 2022-23 HAS speaker, President of the Mammoth Cave Beekeepers 2017 to present, past member President/officer of four local associations since 2004 and a life member and advisor of the Kentucky Queen Bee Breeders Association. He shares his knowledge and love for the bees as a mentor and speaker, instructor, volunteer and organizer at state, local, regional and national associations and various schools, libraries, garden clubs and educational events all over the US. He writes a monthly column for the Nashville TN.



Area Beekeepers and strives to continuously advance his beekeeping skills. John is now using honey bee queen Instrumental Insemination as a part of his queen rearing in promoting genetic diversity in his stock.

How to do an Inspection for the Master Beekeeper Way

Monday, August 5, 2024
1:30-2:25 p.m.
Teaching Apiary

Beating The Odds, Making It through The Early Years

Tuesday, August 6, 2024
9:35-10:30 a.m.
Crystal Room

This is a look at the honey bee's annual cycle and the influences provided by nature. Understanding how the honey bee and the colony react to the provided stimuli at different periods in the annual cycle can help beginners and intermediates put together a productive, workable management program. A better understanding of management and the principles that promote the existence of a bee colony can help all beekeepers persist and overcome the setbacks that are common in beginning beekeeping that all too often result in personal non-fulfillment and eventual failure.

DR. HUMBERTO BONCRISTIANI

Humberto Boncristiani is a second-generation beekeeper and honey bee researcher, Dr. Boncristiani has accumulated extensive experience working in several prestigious research institutions, including the USDA, University of North Carolina in Greensboro, University of Maryland, and the University of Florida. He specializes in honey bee health research with an emphasis on honey bee virology. Through Inside The Hive Media & Consulting Inc., Dr. Boncristiani assists companies entering the beekeeping industry with new products and helps beekeepers optimize their operations across the United States. In his spare time, he hosts the YouTube Channel Inside The Hive TV, where he educates people about the importance of honey bees, research, and also has fun with his students at Inside The Hive TV - Academy, where he teaches honey bee sciences and creates exclusive content for those supporting his YouTube channel.



When he is not working on bee-related subjects, Dr. Boncristiani enjoys exercising, traveling, going for long hikes, biking, and cooking. He is also busy chasing his two daughters and helping them reach their life goals.

Small Hive Beetle - What do we know so far?

Friday, August 9, 2024
1:00 - 1:50 p.m.
Merriweather Room

In this talk, Dr. Boncristiani will provide an overview of the current knowledge about the Small Hive Beetle (*Aethina tumida*), including its distribution, life cycle, treatment strategies, and the latest research.

DR. EVE BRATMAN

Eve Bratman is Associate Professor of Environmental Studies in the Department of Earth & Environment at Franklin & Marshall College, and a 2023-24 fellow in Montpellier, France, through the French Institutes for Advanced Study. Dr. Bratman is a political ecologist with interdisciplinary training in international relations (PhD 2009, American University, School of International Service). Dr. Bratman's research and teaching focus on a range of related issues: urban sustainability and prospects for climate justice, and how pollinator protection relates to a range of issues in global environmental politics issues. Dr. Bratman's recognitions and awards include: Pennsylvania Environmental Resource Consortium Sustainability Champion, Aldo and Estella Leopold Writing Resident, and Fulbright Scholar. She is author of an award-winning book, *Governing the Rainforest: Sustainable Development in the Brazilian Amazon* (Oxford University Press, 2019; Lynton Keith Caldwell Prize winner, 2020). Her numerous journal articles appear in *Development and Change*, *Journal of Latin American Studies*, *Conservation & Society*, *Antipode*, *Journal of Environmental Studies and Sciences* and more. Her current book manuscript is about the politics and policies surrounding protecting bees. @ltygritty, www.EveBratman.com



Beekeeping in, of or for the City

Thursday, August 8, 2024
1:00 - 1:50 p.m.
Oakdale Room

How can the benefits of urban beekeeping be maximized for ecological benefits alongside thinking

about the urban communities themselves in which beehives are located? Thinking about urban beekeeping from different perspectives about the goals, aims, and approaches of different ways of doing urban beekeepers can help beekeepers collectively reflect on their roles with regard to the landscapes and human communities in which they conduct their activities. This session will involve an engaging presentation and subsequent discussion on how urban beekeeping may be bolstered to foster vital socio-ecological relationships, and what different sorts of philosophical and practical considerations alike could be taken into account.

DR. HEATHER BROCCARO-BELL

Heather has a background in Evolutionary Neuroscience and Animal Behavior. She began conducting honey bee research as a postdoctoral fellow under James Nieh at the University of California San Diego in 2014, focusing on vibrational communication and the effects of pesticides and pathogens on learning and behavior. Heather returned to her native Canada in 2021 to become the Honey Bee Health Researcher for NOD Apiary Products Ltd. Her current role is a combination of field and laboratory research, education, product development and testing – and a LOT of beekeeping.



Long Hives: Management and Varroa Treatment with Formic Pro

Friday, August 9, 2024
1:00 - 1:50 p.m.
Crystal Room

Long hives, such as Layens hives and Long Langstroths, are becoming more popular among North American beekeepers. Since 2021, we have been working with and learning about how to manage honey bees with this type of equipment. I will share what we have learned, including how to treat long hives for mites using Formic Pro.

TONI BURNHAM

Toni Burnham is the founder and Past President of the DC Beekeepers Alliance, the beekeeping association of Washington, DC. She is also Past President and (current) Secretary of the Maryland State Beekeepers Association. Toni has



been keeping bees since April 9, 2005, in downtown Washington, DC, running about 40 hives in locations including her home, public utilities, cemeteries, monasteries, arboretums, and more. Burnham has been contributor to Bee Culture Magazine and frequently gives talks to beekeeping clubs and in their beginner’s courses.

What’s What? Beekeeping Equipment

Monday, August 5, 2024
1:30 – 2:25 p.m.
Oakdale Room

Navigating the universe of woodenware, protective gear, tools and gadgets can be a challenge for beginners and extends to gadgets that are unfamiliar to advanced keepers as well! Using audience interaction, this talk will explore basic concepts in hive configuration, some history and science behind how our tools got to where they are today, how things continue to evolve, and how to think about what you might want to buy or try.

Nuts and Bolts of Urban Beekeeping

Thursday, August 8, 2024
4:20 - 5:10 p.m.
Oakdale Room

While honey bee behavior in the city is no different from their activities elsewhere, managing colonies in a human-centered habitat requires some additional strategies and tools. Locating apiaries, configuring them for bee and keeper health, equipment must-haves, and facing up to pathogen pressure will all be discussed!

DR. ELIZABETH CAPALDI

Dr. Elizabeth Capaldi’s biography may be found on page 13.



The Fountain: Bee Behaviors, Minds, and King Solomon’s Ring an update on cutting edge research on the cognition of bees

Wednesday, August 7, 2024
10:30 - 11:30 a.m.
Grand Ballroom

This presentation will explore learning, memory, and the nature of animals “minds.”

How to Help Engage Children in K-6 Schools with Bee-related Themes/Activities

Wednesday, August 7, 2024



4:20-5:10 p.m.

Oakdale Room

Participants at this session will explore a lesson plan for children based on bee biology. Beekeeping experience not required.

Demonstration of the Honey Bee Dance

Thursday, August 8, 2024

1:00 - 1:50 p.m.

Apiary

Participants at this session will examine dancing bees and learn how to determine the foraging range of the foragers.

DR. DEWEY M. CARON

Dr. Dewey M. Caron is Emeritus Professor of Entomology & Wildlife Ecology, Univ of Delaware, & Affiliate Professor and Content/communications specialist OR Master Beekeeper program, Dept Horticulture, Oregon State University. He had professional appointments at Cornell (1968-70), Univ of Maryland (1970-81) and University of Delaware (1981-2009), serving as Department chairman the last two. Dr. Caron spent a sabbatical year at the USDA Tucson lab 1977-78 and had two Fulbright awards for projects in Panama and Bolivia with Africanized bees. Dewey retired from University of Delaware in 2009 and moved to Portland, OR to be closer to his grandkids. In retirement, he has remained active in bee education, writing for newsletters, giving Bee Short Courses, assisting in several Master Beekeeper programs and giving presentations to local, state and regional bee clubs. Dr. Caron has authored *Honey Bee Biology & Beekeeping*, *The Complete Bee Handbook* and is a major author of several Honey Bee Health Coalition publications, including *Tools for Varroa Management*. Dewey is currently completing a USDA APHIS Bee MD web program.



Apiary and Bee Business Sustainability

Monday, August 5, 2024

4:00 – 4:55 p.m.

Tiffany Room

Are you thinking of taking your beekeeping to the “next level”? To do so we must re-duce overwintering losses and seek better colony health. Keys are understanding how to flat-ten the mite control curve (vs seeking to do Autumnal control) and

using brood breaks to re-duce swarming. Financial and bee health sustainability can be accomplished with less colony loss, targeted management for honey production and sale of nucs (and possibly pollination rentals). That is all possible -- sustainability begins this fall.

Africanized Honey Bee Update

Thursday, August 8, 2024

1:00 - 1:50 p.m.

Merriweather Room

Africanized honey bees continue to expand their range in the US. The dire predictions of how they will be of great concern for human safety from stinging incidents or for beekeepers to manage have thankfully not come to be. Understanding this bee population have helped us become better beekeepers. A look at what we can do with and learn from Africanized bees.

Anticipatory Beekeeping

Thursday, August 8, 2024

3:20 - 4:10 p.m.

Amphitheater

The learning curve to success in beekeeping can be steep. Initially we tend to react to what is happening but as we gain experience, we find anticipating what the bees are going to do helps insure we are ‘in charge’ vs the bees managing us. What need we anticipate? Swarming, queen replacement, mite population growth, food needs of a colony, winter, plus (add here your favorite!). A look at the bee season with emphasis on the major issues where anticipation, compared to reaction, might ensure success (however we might define success).

DR. STEVEN COOK

Dr. Steven Cook is a research entomologist with the USDA-ARS and has worked at the Beltsville Agricultural Research Center in Beltsville, Maryland since 2013. His research program has a broad focus, with topics of research ranging from testing novel treatments against Varroa destructor mites in both lab and field settings to understanding overwintering strategies of honey bee colonies. In his free time, Steve enjoys gardening and spending time with his dogs.



Miticides

Wednesday, August 7, 2024

1:00-1:50 p.m.

Merriweather Room

Testing novel varroacides and effects of treatments against Varroa on the vectoring competence of mites.

CHARLES DEBARBER

Charles DeBarber is the Animal Husbandry Coordinator at the Filbert Street Garden in Baltimore City. He is President of the Filbert Street Garden Bee Club and manages the largest beeyard in the City of Baltimore. Charles has been keeping bees for 9 years and is an avid local swarm catcher. He has traveled extensively meeting urban beekeepers from Kyoto to Cozumel. Mr. DeBarber loves to learn about the history of early industrial beekeeping and is an avid collector of antique and vintage equipment.



Critical Assets Every Urban Beekeeper Needs

Thursday, August 8, 2024

3:20 - 4:10 p.m.

Oakdale Room

Urban beekeepers have unique challenges compared to their rural counterparts. This class will discuss space considerations, community relations, permitting, and networking with your local urban beekeepers. Mr. DeBarber will also be discussing communal urban beekeeping while discussing what went right, what could have gone better, and what he wishes he knew when setting up an urban apiary.

DR. DEBORAH DELANEY

Dr. Deborah Delaney's biography may be found on page 19.



Honey Bee Biology

Monday, August 5, 2024

8:30 - 9:25 a.m.

Crystal Room

Honey bee biology- The intricate honey bee unpacked. Learn about unique honey bee form and function.

Biology of the Hive

Monday, August 5, 2024

9:35 - 10:30 a.m.

Crystal Room

Honey bee biology- The intricate honey bee unpacked. Learn about unique honey bee form and function.

University of Delaware Bee Lab Happenings!

Friday, August 9, 2024

8:45-9:30 a.m.

Grand Ballroom

Bridging the Art and Science of Beekeeping

Friday, August 9, 2024

8:45-9:30 a.m.

Grand Ballroom

A talk about how to use other media and engagement tools in teaching about honey bees and provide an inspirational slide show of art and other creative media. We will break out into working groups to discuss different ways/methods of teaching that promote higher level learning.

Speaker Panel with Distinguished Researchers

Friday, August 9, 2024

4:20 - 5:10 p.m.

Waterford Ballroom

SAM DROEGE

Sam Droege's biography may be found on page 14.



How Bees native and non split up the plant world for foraging

Thursday, August 8, 2024

10:00 - 11:00 a.m.

Grand Ballroom

Everyone is well aware that there is competition between native and honey bees. There is also brewing acrimony surrounding that topic. Should there be? We will dive into the details for a smidge of clarity, nuance, life history, and plenty of qualifications.

Taking high resolution stacked photos of bees using Common SLR Equipment

Thursday, August 8, 2024

1:00 - 1:50 p.m.

Crystal Room

Nerd out and talk equipment, DIY, expenses, photoshopping, aesthetics, and bee primping. Hands on and interactive. Bring your own gear and tricks to share.

JEFF ECKEL

Jeff Eckel has kept Bees since 2007 and has been a Pennsylvania state apiary inspector since 2016. Jeff enjoys offering open hive talks at the annual Philadelphia honey festival allowing folks of all ages and backgrounds to experience the wonder of honey beehive.



How to Effectively Move Bees on a Frame

Monday, August 5, 2024
1:30-2:25 p.m.
Teaching Apiary

Making a Walk Away Split

Monday, August 5, 2024
2:35-3:30 p.m.
Teaching Apiary

Open Wrangler Time – Get One-on-one Answers to Your Questions

Monday, August 5, 2024
4:00-4:55 p.m.
Teaching Apiary

Marking Drones

Wednesday, August 7, 2024
2:00-2:50 p.m.
Teaching Apiary

Don and Jeff will discuss the advantages of learning how to mark honey bees using drones and demonstrate the procedure.

Three Ways of Varroa Testing in Real Life: Sugar, Alcohol and CO₂

Wednesday, August 7, 2024
2:00-2:50 p.m.
Teaching Apiary

Examining Sterilized American Foul Brood Comb

Thursday, August 7, 2024
3:20-4:10 p.m.
Teaching Apiary

Recovering from Bee Yard Mistakes and Mishaps

Friday, August 9, 2024
1:00-1:50 p.m.
Teaching Apiary

DAVE ELKNER

Dave Elkner started his beekeeping adventure as a freshman in high



school. The fresh wax and white pine odor hooked him for life. That was 47 years ago. Since that time he has grown his (and now his wife's) business 100 times over. Dave is the current New Jersey State Beekeeping president and runs a small scale pollination and honey production business. They are always seeking out ways to expand the family business. That leads to infused honey.....

Infusing Flavors into Your Honey

Monday, August 5, 2024
4:00 - 4:55 p.m.
Crystal Room

This presentation is on how Bee Cool Pollination does the various honey infusions. We start with a wildflower honey and add the different flavors to create a distinctive flavored honey. We believe that the honey flavor needs to be the primary flavor followed by the infused flavor.

Most of the flavors are customer inspired. We try to add one new flavor each year. At the end of the year we consider dropping a flavor that the public no longer wants. It is a true learning curve as not all flavors infuse into the honey easily. An example of this is Lavender. First we needed to find the edible type of lavender and experiment with the process. In our opinion lavender is a challenge to infuse.

The most unique flavor we have had requests for has been portabella. We are always looking for new ways and flavors to infuse into honey .

ERIN EVANS

Erin Evans certified as an EAS Certified Master Beekeeper 2008. She focuses her educational programs on small and mid-scale sustainable beekeeping practices for northern beekeepers. Erin's apiary management program centers around following the bees own habits and behaviors and working with those systems to enhance apiary and colony level health. Erin teaches queen rearing, swarm management, natural mite control and sustainable harvesting to create a management plan that reduces or eliminates the need for chemical inputs in the hive while maximizing colony strength.



Erin utilizes a wide variety of hive styles in her operation, including several year round observation hives, Warre hives, AŽ (Slovenian) hives, 8-frame, and traditional 10-frame Langstroth hives, and others. A self

proclaimed “gadgety beekeeper”, Erin demonstrates a fluency between colony styles which informs a unique perspective on equipment management decisions.

Erin is the recipient of three SARE grant awards demonstrating increased colony survival through utilization of northern raised queens.

Erin currently manages a mid-size apiary of approximately 70 colonies based in Portland Maine as a sideline to her full time job as an accountant.

Finances for Your Bee Farm

Tuesday, August 6, 2024

4:00-4:55 p.m.

Merriweather Room

Erin Evans is a Master Beekeeper, runs a sideline operation, and in her “straight job” is an accountant. Erin will discuss strategies for managing the business side of your beekeeping operation. This is relevant for all beekeepers, whether you run a “micro farm” of two hives or a larger sideline apiary, this talk will open your eyes to potential tax savings, business strategies, and practical considerations for your operation.

EAS Master Beekeeping: History, Why and How

Wednesday, August 7, 2024

2:00-2:50 p.m.

Waterford Ballroom

Erin certified as a master beekeeper in 2008. On her 15th anniversary year as a Master Beekeeper, Erin will share insights about why she and others pursue this designation, and what are the challenges and benefits of certification.

Regional Beekeeping Panel

3:20-4:10 p.m.

Wednesday, August 7, 2024

Merriweather Room

This panel will discuss some of the common miscommunications and misconceptions regarding the regionality of beekeeping. What typical equipment, treatments, or management styles need to be adapted (or are not appropriate) for your specific region? What is great advice “from away” that will benefit your apiary? This will be an open discussion with experts from various regions.

DR. JAY EVANS

Jay Evans was born in Seattle, Washington, USA and started studying insect colonies in college (Princeton University) and graduate school (University of Utah) while pursuing degrees in genetics and behavior. He soon realized the wonders of honey bee colonies. He is a Lead Scientist in the US Department of Agriculture’s Bee Research Laboratory (Beltsville, MD), where he has focused on interactions between bees and the pathogens and parasites that torment them. He was a leader in the Honey Bee Genome Project and has helped develop new genetic tools for bee breeding and disease diagnostics, while looking for safe medicines to reduce the impacts of bee disease. He has received USDA awards for ‘Early Career’ (2003) and ‘Senior’ (2023) Scientist of the Year, and the EAS James Hambleton Award for Bee Research. He has enjoyed mentoring dozens of students and professional researchers. He writes a monthly research column for Bee Culture magazine (www.beesfoundintranslation.org) and enjoys frequent talks with beekeepers.



Good & Bad Microbes in Bee Colonies

Friday, August 9, 2024

1:00 - 1:50 p.m.

Waterford Room

We don’t always choose the microbes we meet, and bees are the same. Once inside the hive fortress, disease agents spread from bee to bee, helped by mites in some cases. Given this germfest, how do honey bees survive? First, bees count on their own defenses, ranging from social behaviors like hygiene to individual immune responses. Second, bees actually carry a community of ‘good microbes’ that can help mitigate the bad. Finally, beekeepers themselves can reduce the impacts of microbes through management.

Novel Disease Treatments

Friday, August 9, 2024

3:20 - 4:10 p.m.

Waterford Room

Disease management can be indirect (e.g., controlling mites as a means of reducing virus loads), or through various medicines. We are woefully short on medicines for most of the harmful bee microbes and I will review research aimed at building that arsenal. In the end, microbes cause up to half of all bee

colony losses and microbes are a drain on the surviving colonies. Knowing your microbes and available options will improve your beekeeping success.

DR. MICHELLE FLENNIKEN

Dr. Michelle Flenniken's biography may be found on page 13.



The Impact of Viruses on Honey Bee Health at the Colony, Individual Bee, and Cellular Levels

Wednesday, August 7, 2024
9:30 – 10:30 a.m.
Grand Ballroom

This talk will include information on the most common honey bee infecting viruses and the relationship between Varroa destructor mites and viruses.

Honey Bees and their Viruses

Wednesday, August 7, 2024
2:00-2:50 p.m.
Amphitheater

Dr. Michelle Flenniken will give a short presentation on the viruses that infect bees, and facilitate a question, answer, and discussion session.

DAVID FRANK

Dave is a solo law practitioner, farmer and sideline beekeeper from Burlington County, New Jersey. Since 1999, his practice has focused on land use, real estate, and land preservation. Dave represents farmers and developers, and is the attorney for several planning and zoning boards. Since 2010, he has represented developers of grid-connected solar facilities and has obtained approvals for projects that range in size from 1.5 MW to 38MW on greenfields, landfills and former resource extraction facilities. Dave has a B.A. in history from Tulane University and a law degree from Rutgers-Camden Law School. He is a member of the New Jersey and Burlington County Bar Associations, and is a Trustee of the New Jersey Institute of Local Government Attorneys. Dave has served as an elected Councilman in Springfield Township, Burlington County since 2005 and as Mayor since 2023.



Bee Zoning Laws

Friday, August 9, 2024
2:00 - 2:50 p.m.
Amphitheater

A discussion of the essentials of zoning and land use controls as applied to beekeeping, with an emphasis on New Jersey's experience with statewide zoning pre-emption legislation in support of beekeeping, and some examples of other State's laws.

PHIL FRANK

Phil Frank is a science journalist and TV producer, writer, and director of non-fiction films. His programs have been seen on CNN, Discovery Channel, National Geographic Channel, Science Channel, A&E, Travel Channel, Headline News, History Channel, TLC, NYTimes website, Washington Post website, and international channels. While producing a National Geographic program about mass animal die-offs, Phil became fascinated by honey bees. In 2014, he started his first hive and now has 15 hives on his deck, and one glass walled hive in his kitchen where he studies bees year round. Phil runs websites for the Maryland State Beekeepers Association and Maryland's Montgomery County Beekeepers Association. He is an EAS certified Master Beekeeper, and recently co-authored and published 'Hive Tour' HiveTourGuide.com, a photo-rich book showing the extraordinary lives of honey bees.



What I've Learned from My Observation Hive

Tuesday, August 6, 2024
9:35 – 10:30 a.m.
Merriweather Room

The glass walled hive in my kitchen lets me see what bees are up to 24/7/365 without affecting their behavior. Like... What happens inside the hive during a swarm? How do the drones prepare for a swarm? What does an undertaker do before dumping her cargo? How do workers react to a stop, shake, or tremble signal? Who begs for grooming most often? When the colony takes a winter brood break, what is the queen up to - not what I thought! Plus: tips to improve your own observation hive.

How to Take Better Bee Pictures with Your Phone

Thursday, August 8, 2024
2:00 - 2:50 p.m.

Crystal Room

The "best" camera is the one you have with you. In the apiary, that's your phone's cameras! (yes - plural!) Learn 20 Tips and tricks to achieve sharper images, fewer missed shots, creative composition, controlled exposures, and how to unlock hidden cameras features on your phone.

JIM FRASER

Jim Fraser is the owner of Maryland Honey Company, a small, local, family-owned business selling Mann Lake products along with other products of the hive. Jim is a third-generation beekeeper, who learned beekeeping from his father at a young age. Jim manages around 150 colonies of honey bees and sells packages, nucleus colonies and provides pollination services for local orchards and farms. As an EAS Master Beekeeper since 2014, Jim believes that education is key to successful beekeeping. Speaking to beekeeping classes, beekeeping clubs, civic groups, and customers at his shop allows him to share his knowledge about beekeeping. Jim is also a Certified Honey Show judge and a former President of the Maryland State Beekeepers Association.



How to light a smoker and KEEP It LIT

Monday, August 5, 2024
2:35 - 3:30 p.m.
Apiary

This presentation takes place in the apiary and will cover the methods and materials commonly used to maximize smoker time.

Contracts and Equipment Considerations for Small Scale Pollination Work

Tuesday, August 6, 2024
2:35-3:30 p.m.
Merriweather Room

Where, When & What of Small-Scale Pollination Contracts. What's best for you and the customer? Equipment Standardization. Save your time, save your money by keeping it all the same.

NATASHA GARCIA-ANDERSEN

Natasha Garcia-Andersen is a wildlife biologist for the Department of Energy & Environment in Washington, DC and the current president of the



Apiary Inspectors of America. Over the last ten years she has built the apiary program in the District from scratch working with stakeholders and beekeepers to build a dynamic urban apiculture program. She is also active in her local beekeeping club, DC Beekeepers Alliance, where she serves on the Board of Directors.

State Apiary Inspectors Panel

Wednesday, August 7, 2024

2:00-2:50 p.m.

Crystal Room

Come meet your state apiary inspector! We will have inspectors from member states ready to answer all of your questions about beekeeping, health permits, pest and disease, and anything else bee related that you have been wondering about. Guaranteed to be a lively discussion.

JOHN GAUT

John A. Gaut, an EAS Certified Master Beekeeper, has a decades long relationship with honey bees. He managed a dozen hives on his family's dairy farm in Pennsylvania beginning when he was 9 and all through high school.



John is a graduate of The Pennsylvania State University with an Agricultural Engineering degree and applies engineering principles to beekeeping. As a result, John is a data driven beekeeper and strives to practice precision apiculture. His beekeeping practices minimizes losses while maximizing productivity of honey, queens and bees.

He now has hives in multiple locations in northern New Jersey. Honey from his production hives is sold at a local farm store. John also raises queens from his own locally adapted stock for other beekeepers in his area.

The Importance of Drones for High Quality Queens

Wednesday, August 7, 2024

1:00-1:50 p.m.

Tiffany Room

Selecting drone production colonies are important for producing high quality queens. The quality of the drones impacts the quality of queens. John will share his drone selection criteria and drone rearing methods.

LISA MARIE GHEZZI

Lisa Marie Ghezzi is a farmer on Maryland's Eastern Shore in Easton, Maryland, where she also operates her sideline business Maxmore Creek Farm LLC. As a Master Gardener for over 20 years and EAS Certified Master Beekeeper since 2021, she combines her knowledge from both disciplines to share her passion for the honey bee in talks across the state. Lisa serves as the Talbot County representative for the Maryland State Beekeepers Association, and as a Maryland State delegate and board member for the American Beekeeping Federation. Formerly a consultant in satellite communications, she parlays her expertise in strategy and finance to support the growth of non-profit organizations.



SWARMS: Before, During and After

Monday, August 5, 2024

9:35 - 10:30 a.m.

Merriweather Room

Answers to WHY honey bees swarm, and WHAT you can do to convince them to stay. Understand the biology behind swarming, swarming cues to watch for, and how and when to intervene.

MARK GINGRICH

Mark Gingrich is a commercial sideline beekeeper and the owner of Gingrich Apiaries, LLC in Dover, PA where he manages in excess of 250 colonies for pollination, honey production, and queen rearing. The operation produces an average of 300 mated queens annually sold across the US. He is the President of the Pennsylvania State Beekeepers Association and is a founding member and Co-Chair for the Pennsylvania Queen Bee Improvement Project. Mark is certified as an EAS Master Beekeeper, member of the Pennsylvania Department of Agriculture apiary advisory board, stake holder in the COMB and CARE projects, long-time participant in numerous USDA-funded SARE (Sustainable Agriculture Research & Education) grants focused on bee genetics.



Inspecting Colonies and Understanding What You See

Monday, August 5, 2024

4:00-4:50 p.m.

Oakdale Room

Routine hive inspections are vital to ensure that your

bees remain healthy and productive. Inspections give beekeepers a snapshot into what is transpiring inside the hive. Inspections can help beekeepers identify pests and diseases, such as mites, wax moth larvae, or foulbrood that are impacting your colony.

Exploring UAV Technology for Identifying Drone Congregation Areas

Wednesday, August 7, 2024

3:20-4:10 p.m.

Tiffany Room

This lecture delves into the innovative use of Unmanned Aerial Vehicles (UAVs) to locate and pinpoint areas where drones congregate. Finding (DCA's) is important for bee breeding programs because they can be used to saturate and genetically control open mating. We will cover regulations, restrictions, and requirements for flying.

UAV Flight Demonstration

Wednesday, August 7, 2024

4:20-5:10 p.m.

Outdoors

Weather permitting, we'll do a flight demonstration highlighting techniques, tips, and general protocol for doing this kind of work. This is intended to be an extension of the classroom presentation.

DR. DAVID BK GOLDEN

Dr. Golden did his medical training at McGill University, and his fellowship at Johns Hopkins University where he is Associate Professor of Medicine.



He directed a research program on insect allergy and anaphylaxis for 30 years, and has published numerous research articles and review articles. He is a member of the Joint Task Force on Practice Parameters, and on the editorial boards of major allergy journals. Dr. Golden established an acclaimed private group practice in Baltimore, and served as Allergy Division chief at two community teaching hospitals in Baltimore, where he developed an Allergy-Immunology teaching program for medical residents.

Understanding Bee Sting Allergies for Beekeepers

Tuesday, August 6, 2024

9:35 - 10:30 a.m.

Oakdale Room

Dr. Golden will discuss:

- reactions to bee stings (normal, allergic, non-allergic) and what to do, or not do, about them.
- when to do allergy tests, and when not to
- whether to have an epinephrine injector prescription
- when to consider venom immunotherapy
- myths ("the next one will kill you"; "epinephrine is dangerous"; "severe reactions are a fluke")

ALLEN HAYES

Mr. Hayes became an EAS Certified Master Beekeeper in 2006 and is a Past President of the Maryland State Beekeepers Association. Currently he is the Conference Program Chair for the EAS 2024 Conference that will be in Maryland. He has taught beekeeping for over 20 years and has also served on the Board of Directors of the Eastern Apicultural Society of North America, Inc. as the Director from Maryland. In addition, he served as the President of the Howard County Beekeepers Association for six years, served on the board of The Carroll County Beekeepers Association and he regularly attends regional and national bee conferences. Mr. Hayes is frequently asked to give specialized talks to beekeeping groups in other states primarily on the East Coast and also the general public about honey bees and the craft of beekeeping.



Gadgets You Could Keep Bees Without, But Won't Want To

Wednesday, August 7, 2024

1:00-1:50 p.m.

Waterford Ballroom

Always on the lookout for a more practicable way to do things, many of my gadgets employ a simple approach to solving a common problem. I will show how items that you can make will save you time and money. All of the gadgets that I will present are unique and cannot be purchased from any bee supplier.

PAM HEPP

Pam is a retired high school chemistry teacher, and mother of 3 grown boys, who became a beekeeper in 2013. She has kept bees continually since then. Pam raises her own queens, and maintains colony numbers by making splits and catching swarms. She is involved with local and regional



bee groups to share information and learn from others. Pam has great mentors and support from the MCBA community. She certified as an EAS Master Beekeeper in 2021 and remains involved in the EAS Master Beekeeper Certification Program. Pam is a Past President, VP and Outreach Coordinator for the Montgomery County Beekeepers Association. She helped develop and teach both the in-person and the online beginner beekeeping classes. She is an avid supporter of honey shows and enjoys just talking about honeybees. She and her husband recently relocated themselves and their hives to Delaware. She sees her role as a beekeeper as helping the bees help themselves.

Various Split types – walkaway and planned

Tuesday August 6 during the Nucs & Splits Deep Dive Amphitheater

Splitting a colony is a great management tool that all beekeepers should know how to do. We will start with reasons to split, go over the pro and cons of splits and move into step by step directions on how to carry out a different kinds of splits -lucky splits, walkaway splits and planned splits. You will learn what to do, what should happen and what do do if things don't go as planned.

BILL HESBACH

Bill Hesbach is a Connecticut native with a background in engineering.

He's an Eastern Apicultural Society Certified Master Beekeeper, a graduate of the University of Montana's master beekeeping program, and the President of the Connecticut Beekeepers Association.

Bill also operates a sideline bee business called Wing Dance Apiary in Cheshire, CT., producing artisanal raw honey and other natural hive products.

Bill teaches bee biology and various beekeeping methods at meetings hosted by regional beekeeping clubs. Bill is an active member of the Eastern Apicultural Society, where he is part of the Master Beekeeper Certification program. Bill is a regular guest speaker at national beekeeping seminars and was presented with the Distinguished Speaker Award at the 2019 EAS conference.

His special interests in beekeeping include bee biology, flight, and the connection between local flora and bee behavior. He's a published author, and his articles on beekeeping appear in The American Bee Journal and Bee



Culture magazines.

Thermoregulation and Ventilation

Thursday, August 8, 2024

3:20 - 4:10 p.m.

Crystal Room

The talk starts with how bees control the internal hive temperature using thermoregulation and what effect that has on the colony. Then, we discuss convection flows inside a colony as a precursor to understanding ventilation. In the final segment, I introduce the concept of a condensing colony versus the more common practice of adding ventilation. Participants will better understand what role ventilation plays in a natural hive environment.

Pollen

Friday, August 9, 2024

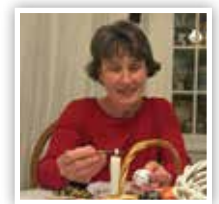
3:20 - 4:10 p.m.

Tiffany Room

Pollen, the miraculous germ cell of plants and the primary protein nutrient for bees, is the fertility key to every flowering plant and tree in the world. In this talk, we discuss how bees transfer pollen during pollination and how it's digested as a protein source. Illustrated by striking photos, it's a visual journey that will inform participants in ways that increase the joy of observing pollen on native plants, on the hind legs of bees, and stored as bee bread in cells.

EVELYN HOGG

I live in Montgomery County, Maryland, where I've kept bees for almost 40 years. I received my Master Beekeeper certification at an EAS conference in the early 90s. Since then, I regularly speak about bees and beekeeping at local schools and occasionally accept invitations for other bee talks and demonstrations for adults. I learned the art of making pysanki (Ukrainian Easter eggs) from a former co-worker in the late 1970s.



Pysanki-Making Workshop

Friday, August 9, 2024

3:20 - 4:10 p.m.

Amphitheater

In this workshop, we'll talk a little about the tradition of Ukrainian Easter eggs (pysanki) and some of the commonly used symbols, and where supplies

other than beeswax can be obtained. Those who would like to may follow along with me adding wax and dye to several prepared eggs. For those with an adventurous, creative bent, there will be a few blank eggs that you can begin work on, bearing in mind that completing a single egg typically requires several hours (well beyond the scope of this short workshop).

DON HOPKINS

Don Hopkins has been the State Apiarist of North Carolina since 1994 and supervises a staff of five full-time bee inspectors and a lab technician. He started with the NCDA&CS in 1989 as a bee inspector. His primary interests are honeybee health and biology.



A lifelong beekeeper, Don got his first hive when he was 9 or 10. He joined EAS in the mid 1970's and attended his first meeting in Wooster, Ohio in 1978. He has been a bee "wrangler" for the live bee demonstrations at EAS since 2007. He has also presented several workshops at EAS. In 2013 Don was awarded the Roger Morse Teaching/Extension/Regulatory Award.

In 1995 Don joined the Apiary Inspectors of America (AIA), later serving as AIA president in 2000 and 2010.

Don has been on many volunteer projects to educate and learn from beekeepers in other countries. His trips to Bolivia and Columbia have given him experience with Africanized Honey Bees and insight as to how the beekeepers there manage these bees.

How to Effectively Move Bees on a Frame

Monday, August 5, 2024

1:30-2:25 p.m.

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Three Ways of Varroa Testing in Real Life: Sugar, Alcohol and CO₂

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Examining Sterilized American Foul Brood Comb

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3:20-4:10 p.m.

Teaching Apiary

Recovering from Bee Yard Mistakes and Mishaps

Friday, August 9, 2024

1:00-1:50 p.m.

Teaching Apiary

DR. TAMMY HORN-POTTER

Dr. Tammy Horn-Potter's biography can be found on page 14.



Flower Power: Establishing Pollinator Habitat

Thursday, August 8, 2024

11:00 – 11:30 a.m.

Grand Ballroom

Honey Bee Health Coalition Update

3:20 - 4:10 p.m.

Thursday, August 8, 2024

Merriweather Room

Since 2013, the Honey Bee Health Coalition has positioned itself as a science-based intermediary between commercial agriculture and apiculture, building bridges in an effort to reduce hive mortality and promote best management practices. Many tools developed by the Honey Bee Health Coalition are much-beloved among EAS beekeepers: the Varroa Mite Decision Tree, the Varroa Mite Management Guide, as well as the crop-specific best management practices for soybeans, corn, canola and most recently, apples. As EAS representative to Honey Bee Health Coalition, Tammy Horn Potter will talk about its most recent projects, including the HBHC Honey Bee Nutrition Guide, just published January 1, 2024.

JASON HOUGH

Jason is from Woodcamp Farm, Mt. Airy, Maryland. Woodcamp is a family farm that breeds both beef cattle and show pigs, and has a honey bee operation. The bee operation consists of about 1000 hives that are run for honey production, pollination, package and nuc production, and queen production. Jason started with bees at age 15 when introduced to them by a high school biology teacher and has had bees ever since!



Lessons Learned Going From 2-800 Hives. (Don't Learn Them the Hard Way)

Tuesday, August 6, 2024

1:30 – 2:25 p.m.

Merriweather Room

Learn from the numerous mistakes I made going from 2-800 hives. Save your money and profit from my errors.

KEVIN INGLIN

EAS Master Beekeeper Kevin Inglin is a hobbyist beekeeper from New Jersey. He and his wife Sharon are small honey producers with their company Sunshine Hill Farms. They started keeping bees in 2008 and maintain anywhere from a dozen to two dozen hives. Kevin is the host of one of the longest running beekeeping podcasts, the Beekeeper's Corner Podcast, which has well over 200 episodes in the catalog. An active beekeeping educator, Kevin has taught beekeeping across the US and abroad. He has a passion for working with different format hives and maintains some non-Langstroth hives in the home apiary. In addition to the podcast, Kevin created the Managed Mentoring Program for Getting Started in Beekeeping and is in the midst of bringing the program online for the general beekeeping community.



Responsible Treatment Free Management

Tuesday, August 6, 2024

11:00 a.m. - 11:55 p.m.

Oakdale Room

Would you ever consider transforming to a treatment free beekeeper? In this session we will explore the pros and cons of moving toward this direction and I will provide you with a suggested approach to become a responsible treatment free style beekeeper.

DR. ADAM INGRAO

Dr. Adam Ingrao is the Co-Founder and National Director for the Heroes to Hives program and an Outreach Specialist at Michigan Food and Farming Systems. Dr. Ingrao has been working in sustainable agriculture for 30 years and with honey bees professionally for 17 years, teaching beekeeping to audiences around the world. He has published numerous peer reviewed articles on agriculture topics, is a regular contributor to Bee Culture magazine, and was most recently a co-author of the textbook Honey Bee Medicine for the Veterinary Practitioner.



Assistive Technologies for Beekeepers

Wednesday, August 7, 2024

3:20-4:10 p.m.

Apiary

Physical injuries, disabilities or aging can make normal beekeeping activities difficult for many. Accessible technologies are devices, products, and pieces equipment that support individuals in improving, or increasing their functional capabilities to limit potential injury and support physical limitations making beekeeping more accessible to all. In this session, we will discuss a variety of assistive technologies including alternative hives styles, equipment modifications, ergonomics and tips and tricks for limiting injury in the bee yard using many low-cost technologies.

Accessibility in the Bee Yard

Thursday, August 8, 2024

1:00 - 1:50 p.m.

Waterford Room

Beekeeping is a very physical activity and may seem unapproachable for individuals with disabilities. In this session, we will discuss recommendations and assistive technologies to support disabled beekeepers, or anyone looking to make beekeeping easier on their body. There will be a special focus on apiary site considerations, assistive technologies, hive styles, and support organizations that individuals with physical limitations can use to be successful beekeepers.

MAUREN JAIS-MICK

Maureen Jais-Mick is Vice President of the Montgomery County Beekeepers Association (MCBA) in Maryland.



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She began keeping bees in 2013 and completed an internship with Billy Davis at the Sustainable Honeybee program in Virginia. Since 2020, she has managed and expanded MCBA's teaching apiary, which offers twice monthly learning sessions for new beekeepers under the supervision of experienced beeks. For several years, the apiary participated in the Bee Informed Partnership's Sentinel Apiary Program and continues its protocol of monthly mite testing. Maureen also coordinates MCBA's 2024 pilot project, Hands On Beekeeping, an 8-months long class that provides an entire season of hands on and online learning. In her own bee yard, Maureen utilizes organic management techniques and thermal mite treatments..

Mentoring Programs that work

“Setting Up and Managing a Club Teaching Apiary”
 Tuesday, August 6, 2024
 4:00-4:55 p.m.
 Waterford Ballroom

Teaching apiaries provide both valuable opportunities for new beekeepers to be mentored and for experienced beekeepers to share their knowledge and enthusiasm. The benefits to a club's membership can be awesome, IF the club invests in the apiary's creation and ongoing management. This presentation will detail the resources, passion, and organization that support the establishment and management of a teaching apiary.

JENNIFER KELLER

Jennifer Keller is the Apiculture Technician at North Carolina State University. Her multiple responsibilities include coordinating all of the field research in the Apiculture program (including queen rearing and instrumental inseminations), maintaining the Lake Wheeler Honey Bee Research Facility south of North Carolina's State's main campus, and conducting numerous extension activities all across the state.



Queen Rearing

Monday, August 5 & Tuesday August 6, 2024
 8:30 a.m. - 5:00 p.m.
 Teaching Apiary and Terrace on the Green

Jennifer will combine in class instruction in the various methods of queen rearing with in-field demonstration.

BRENDA KIESSLING

Brenda Kiessling has been keeping honey bees 'since it was easy'- more than 50 years.



She certified as an EAS Master Beekeeper in 2004. She also keeps mason bees. She teaches classes, and mentors. For more than 20 years she has led the Fairfax County, Virginia, 4H Beekeeping club "2 B A BEE".

Recognizing Problems Early & Correcting Them

Tuesday, August 6, 2024
 11:00 a.m. - 11:55 p.m.
 Crystal Room

DEBBIE KLUGHERS

Deborah is a Certified Eastern Apicultural Society Master Beekeeper and the owner of Bonac Bees, LLC. Celebrating 10 years in business, Bonac Bees LLC manages over 100 colonies throughout the east end of Long Island, New York. She provides concierge beekeeping services to residential estates and organic farms. Passionate about saving unwanted honey bees, Deborah is an avid swarm saver; she captures and relocates honey bee swarms and also performs cutouts. Deborah makes award winning hive products, including honey, beeswax, and propolis, as well as value added products such as candles, cosmetics, food items, household cleaning products, mead, and more. She won the Grand Champion Reserve Award at the 2023 Honey Bee Expo as well as the Sweepstakes Award twice at EAS! She lectures locally, nationally, and presented original research at Apimondia as well as at a Native Species Symposium at Hofstra University. Deborah offers demonstrations, honey bee consultations and mentorships, as well as talks for schools, libraries, houses of worship, business groups.... She is a strong proponent for honey bees and is active in honey bee and beekeeper advocacy. Deborah recently received a US trademark for her Coddle a Colony™ program and also writes a monthly column for a local newspaper, the Amagansett Star Revue. She is the proud mother of four adult children and two old cats.



Propolis Trapping and Tinctures

Wednesday, August 7, 2024

2:00-2:50 p.m.

Oakdale Room

Properties of propolis and what it is used for in and out of the hive. How to get the bees to make more propolis, how to harvest and make medicinal products.

Beekeeping Tools and Tips

Friday, August 9, 2024

2:00 - 2:50 p.m.

Crystal Room

How to make an all-in-one honey decrystallizing cabinet, bees wax renderer, and candle warming cabinet. How to make a super sterilizer to sterilize bee boxes and frames (also useful for rendering beeswax). How to make a 55-gallon sugar syrup mixer, and more handy tools and tips for beekeepers of all levels.

DR. PETRUSIA KOTLAR

Dr. Petrusia Kotlar is a Chiropractic Physician and alternative health care provider practicing for four decades, Vice President of the American Apitherapy Society, and a part-time farmer/beekeeper/research practitioner since 2004 on her New Jersey-based Linden Hill Farm and Apiary since 2006. The Towaco Honeybee Sanctuary was established here where she grows medicinal herbs, and linden trees to produce clean, high-quality apitherapy products.



She believes that apitherapy is a healing modality that is due to become integrated into the preventative health and wellness care system in our lifetime. She would like to be a part of this accomplishment. Dr. Kotlar has been a member of the American Apitherapy Society for many years and an active beekeeper. She now serves as Vice President on the Board of Directors. She also is affiliated with Penn State University International Program creating and participating in collaborations with Ukrainian researchers and beekeepers.

Unique Products of the Hive in Apitherapy and the Importance of Clean Products

Wednesday, August 7, 2024

2:00-2:50 p.m.

Oakdale Room

This presentation will emphasize the importance for Clean Hive Products for Apitherapy. Certain agrochemicals/miticides and beekeeper methods can affect the anatomy/physiology such as Hypopharyngeal, Mandibular glands, Fat Body,

venom gland and chitin production of the honeybee and clarifies how honeybee nutrition affects the production of Honey, Propolis, Beeswax, Royal Jelly and Bee Venom- all of which are apitherapy products used for medicinal purposes.

The benefits of unique products such as Beebread (Perga), Zabrus or Wax cappings, Spotted lantern Fly Honey, Honeydew Honey and their value for human health will be discussed.

The Search for Medicinal Properties of Spotted Lantern Fly Honey For Human Health

Thursday, August 8, 2024

2:00 - 2:50 p.m.

Amphitheater

Three researchers combined efforts and knowledge to prove that there can be a silver lining to some things that appear negative such as the invasion of the Spotted Lantern Fly in the Eastern United States. This presentation will outline the scientific method and medicinal benefits for human health tested for in NJ and PA honey samples. The antioxidant and phenolic content was compared to Manuka Honey with impressive results. This study establishes the value of defining the source of honey through objective chemistry testing versus subjective methods such as color, aroma and taste to potentially increase the value of the product of the hive.

REBECCA A. KRIMINS, DVM, MS

Dr. Rebecca A. Krimins is a veterinarian licensed in the states of Maryland and Virginia. She completed the University of Montana Master Beekeeping course and enjoys all aspects of beekeeping. Dr. Krimins learned the art, science and joys of beekeeping as an adult which allowed her to take the skills and learnings from veterinary school and apply this information to maintaining happy and healthy bees. She oversees a small apiary of 6-12 hives.



The Veterinary Feed Directive

Friday, August 9, 2024

2:00 - 2:50 p.m.

Oakdale Room

A VFD drug is intended for use in animal feeds and is permitted only under the professional supervision of a licensed veterinarian. This presentation will cover

when a VFD is required for honey bees, why a VFD is required and how to obtain a VFD.

DR. ZACHARY LAMAS

Zachary Lamas is a post-doctoral fellow under Dr. Jay Evans at the Bee Research Laboratory in Beltsville, MD. He studies Varroa behavior. When he identifies a behavior of interest he then finds out how that behavior drives viral transmission. His previous work uncovered that Varroa are very mobile actively switching and feeding on the adult bees in your colony. He's now weaponizing that information against Varroa as they try to make a bait trap for Varroa.



New drone-Varroa research

Monday, August 5, 2024

1:30 - 2:25 p.m.

Merriweather Room

Varroa form aggregated distributions, overwhelmingly preferring adult drones over worker bees. This finding flips our understanding of mite distribution on its head. This talk explains the consequences of this new discovery, seasonal variations in viral transmission, and holes in our current sampling methodologies.

DR. CRYSTAL LEHMANKING

Dr. Crystal Lehmaning, manages a handful of colonies in Somerset County, Maryland where she lives with her husband and family. Since her retirement from Pediatric practice, she has held adjunct positions teaching graduate human anatomy and physiology at University of Maryland and Salisbury University, while pursuing her Master Beekeeping certifications with Cornell and EAS. Now fully retired, she is pampering both her family and her bees.



The honey bee human: Physiology of a superorganism

Wednesday, August 7, 2024

1:00-1:50 p.m.

Amphitheater

Beyond just a bunch of bees living together, the honey bee colony unit possesses qualities quite distinct from those of each individual bee, with remarkable parallels to human physiology. These parallels are not only fascinating, but essential for understanding and managing our bees.

FRANK LINTON

Frank Linton started keeping bees in 2005, and currently runs a few colonies near Washington DC. He is an EAS-certified master beekeeper. He hosts three honey bee-related websites (<https://thebeekeeper.com>, <https://colonymonitoring.com>, and <https://beekeepingwithdisabilities.com>) and has hosted the International Colony Monitoring Technology conferences. He contributes articles to Bee Culture and the American Bee Journal, and he speaks at local, regional, and international bee conferences. Frank is the author of The Observation Hive Handbook: Studying Honey Bees at Home, and co-author of Hive Tour: The Insider's Guide to Honey Bees (also available in Spanish as: El Tour de la Colmena: Guía de Visita a una Colmena de Abejas de Miel).



Keep Bees Inside Your House

Tuesday, August 6, 2024

8:30 - 9:25 a.m.

Merriweather Room

You can learn more by living with your bees than you can by visiting them every week or two, a lot more. And the more you know, the better the beekeeper you will be. By keeping a small colony in a glass hive in your house, an observation hive, you will see more in a year than many backyard beekeepers see in a lifetime.

In this talk I will show you how to keep bees in an observation hive, specifically, you will first see the outcomes of the bees' and beekeeper's actions over the course of a year, and then learn how to select an observation hive, prepare the site, install the hive, and maintain the colony.

DR. MARGARITA LOPÉZ-URIBE

Dr. Margarita López-Uribe's biography can be found on page 16.

The Benefits and Promises of Organic Beekeeping

Thursday, August 8, 2024

8:45 - 9:30 a.m.

Research from our group at Penn State has compared various honey bee management systems that align with beekeeping philosophies. Our research has shown that the organic beekeeping management system is desirable for both beekeepers and bees. In this talk, I will walk you through the foundation of beekeeping philosophies and the data supporting the advantage



of using organic beekeeping practices for the bees and beekeepers.

Feral honey bees: Reservoirs of disease or sources for future breeding?

Thursday, August 8, 2024

2:00 - 2:50 p.m.

Tiffany Room

Honey bee colonies can persist in the wild escaping the management conditions imposed by beekeepers. These wild conditions put different selective pressures on feral colonies affecting their biology, disease pressure, and immune responses. In this talk, I review how different the selective pressures are between managed and feral environments and share some of the data learned from studies of pathogens and immunity in feral colonies. I also discuss the potential that feral honey bees can have for breeding programs.

The ecological impacts of beekeeping and the importance of beekeepers as stewards of the environment

Thursday, August 8, 2024

4:20 - 5:10 p.m.

Tiffany Room

This talk highlights the role of honey bees as critical components of agricultural systems, how agricultural intensification has negatively impacted the beekeeping industry, and some of the unintended consequences that beekeeping has on natural ecological processes such as pollination.

CLARE MAFFEI

Clare Maffei (she/her) is a pollinator biologist with the Interagency (USGS/USFWS) Native Bee Lab in Laurel, MD. As a pollinator biologist for the US Fish and Wildlife



Service, Clare completes the bee identification for collections and supports project managers conducting pollinator surveys. Additionally, she is actively involved in developing teaching materials to enhance bee identification skills among colleagues and assist national pollinator science teams in creating guidance materials. These materials aid biologists in effectively addressing pollinator conservation priorities.

Biodiversity of Native Bees

Tuesday, August 6, 2024

8:30 - 9:25 a.m.

Tiffany Room

Join us for an engaging lecture on the biodiversity of native bees in the U.S. Learn to distinguish native bees from honey bees and other insects, explore their unique behaviors and nesting habits, and discover which bees you can spot in your garden. We'll also share practical tips for supporting native pollinators through plant choices and gardening practices.

JOAN MAHONEY

Joan Mahoney is the current New York State Apiary Program Manager with the New York State Department of Agriculture and Markets, a new role for 2024. She has been with the Department's Division of Plant Industry for 27 years. She began her career at the Department as a horticultural inspector and later became a supervisor, Field Operations Manager and State Apiculturist for the Division. Joan was also the Asian Longhorned Beetle Program Manager for 17 years and, in that role, successfully saw the eradication of Asian Longhorned Beetle from Staten Island, Manhattan, Brooklyn, Queens and Islip.



Joan has kept bees for the past 15 years as a hobbyist and is a Cornell Master Beekeeper. She has also been serving as a Course Facilitator for the Cornell University Master Beekeeping Program since 2019 and is a member of the Apiary Inspectors of America.

Nosema- Biology, Impact and Management

Monday, August 5, 2024

11:00 - 11:55 a.m.

Waterford Room

Monday, August 5, 2024

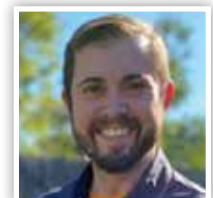
1:00 - 5:00 p.m.

Community College of Baltimore County

This 2-part workshop will give an in-depth view of *Nosema ceranae*, with disease biology, impacts on honey bee health and disease management. The second half of the workshop will provide a hands-on training on preparing a lab sample and identifying *Nosema* spores under a microscope.

ERIC MALCOLM

Eric is the Apiary Manager and Extension specialist at the University of Maryland Bee Lab, after joining the



lab in 2017. His primary focus is on apiary management, extension, and helping beekeepers make informed decisions using their own observations, monitoring techniques, and scientifically supported best management practices. He is a sideline beekeeper and owner of Backyard Apiaries, an apiary management business, and was a co-coordinator for Bee Informed Partnership's citizen science program, the Sentinel Apiary Program. He is passionate about beekeeping, helping beekeepers, wild edible and medicinal plants and mushrooms, enjoying time with his family, travelling, camping, backpacking, and a good hug!

Regional Beekeeping

Wednesday, August 7, 2024

3:20-4:10 p.m.

Merriweather Room

The Mid-Atlantic is one part of a three-part panel presentation looking at similarities and differences between regions on the East coast. This short talk will focus on timely aspects of managing colonies in the mid-Atlantic region, Varroa monitoring and management, feeding, and as many of the things that fall in-between as time will allow. Joint Q&A / Discussion to follow the 3rd presentation.

MIKE MARKOWITZ

Mike Markowitz is a member of the American Numismatic Society, the Ancient Numismatic Society of Washington, DC, a director of the Ancient Coin Collectors Guild and vice-president of the Fairfax Coin Club. He has been a serious collector of ancient coins since 1993, and a contributing writer for CoinWeek.com since 2014. He is an award-winning wargame designer, historian, and defense analyst. He has degrees in History from the University of Rochester, New York, and Social Ecology from the University of California, Irvine. Born in New York City, he lives in Fairfax, Virginia.



Honey Bees on Ancient Coins

Thursday, August 8, 2024

11:30 a.m. - 1:00 p.m.

Waterford Ballroom

Long before people developed agriculture and lived in settled communities, honey gathered from the hives of wild bees was valued as a precious, almost magical commodity. The honeybee (*Apis mellifera*) is

native to the lands around the Mediterranean Sea. Management of the honeybee as a pollinator was vital for the growth of many fruit crops. Because of this importance, images of the bee as a symbol appear very early in the development of ancient coinage.

TIMOTHY M. MCMAHON

Tim McMahon is an EAS Masterbeekeeper since 2014 and has been keeping bees for almost 20 years now. At the height of his beekeeping he had as many as 28 hives but is now down to just six. Tim has also found in interest in Native Bees and has been involved with a multitude of Native Bee project here in Maryland, in Arizona and in Costa Rica and does some volunteer work at both the USGS Native Bee Lab and at the Smithsonian Museum. At home Tim has over 30,000 pinned specimens of native bees that he works on identifying down to the species level. In his spare time Tim is a Chemical Engineer for the US Patent Office and coaches high school Cross Country and Track.



Native Bees Versus Honey Bees: Is It Really a Competition

Tuesday, August 7, 2024

9:35 – 10:30 a.m.

Tiffany Room

Friday, August 9, 2024

1:00 - 1:50 p.m.

Oakdale Room

Honey bees are only one of about 4000 difference species of bees found in the US and most of us beekeepers don't really know how they differ from all the rest. Native bees are highly varied and have many unique behaviors. These differences will be covered by pointing out what the honey bees do and how the native bees handle the same functions in their own ways.

KIM MEHALICK

Kim Mehalick is an engineer by day and beekeeper by night and weekend. An EAS Master Beekeeper, her favorite part of beekeeping, after mentoring new beekeepers, is making queens through a variety of backyard beekeeper methods. Sharing the wonder of opening a hive and discovering how the bees think is a wonderful thing to do. Kimberly is the past President of the Maryland State



Beekeepers Association (MSBA) and is active in her local clubs. She is proud of developing the BUMBA teaching apiary to encourage and teach new beekeepers. Kimberly and her husband Mike keep about 80 hives on their property and various out yards throughout Maryland and DC as part of “The Queen’s Honey” apiary.

Plan to Succeed: Making a Personalized Action Plan

Monday, August 5, 2024

4:00 - 4:55 p.m.

Tiffany Room

An action plan is a structured strategy that pinpoints steps, tasks, and resources vital to turning a goal into reality. Successful beekeepers all develop a system for handling their bees throughout the year. We will walk through how to set goals for your beekeeping journey, creating a calendar of important dates, and developing your own monthly beekeeping plan. Although all beekeeping is local, you should be able to set up the framework for creating success with your own beekeeping regardless of where you live.

Making Splits & Nucs, Bee Math, and Its Importance

Tuesday, August 6, 2024

8:30 – 11:55 a.m.

Amphitheater

The biology of the honey bee does not change, but as beekeepers we need to understand how that biology drives timing decisions for making splits in our own apiaries. Bee math is a tool we all need in our back pockets. From easy to hard, Bee math can be fun. Come learn how to determine when and how to time your increases in your own yards.

Using a Snelgrove Board for Swarm Prevention and Making Splits

Tuesday, August 6, 2024

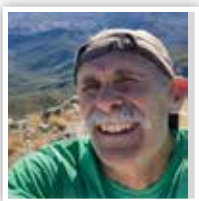
8:30 – 11:55 a.m.

Amphitheater

In The Queen’s Honey apiaries, we use Snelgrove boards in the spring to prevent swarms and keep our honey crops. See how we use this great tool to make splits in the spring and learn a variety of other uses throughout the year.

DR. WILLIAM MEIKLE

Dr. William Meikle received his PhD in Entomology at the University of California Berkeley, where he worked on issues in subsistence agriculture



in West Africa. After graduation he spent 8 years at the International Institute of Tropical Agriculture in Benin working on stored product pest management, and then 8 years in France at a USDA lab where he focused on bee colony behavior and Varroa mite control. Since 2012 he has been at the USDA Carl Hayden Bee Research in Tucson where he conducts research on continuous monitoring of various parameters of honey bee colonies and linking those data with bee colony growth and activity. He is currently involved in investigating the effects of factors such as queenline and cold storage on colony growth, foraging activity, thermoregulation, CO2 management, and brood production.

How Technology Can Improve Your Beekeeping Knowledge: Continuous Monitoring

Tuesday, August 6, 2024

11:00 a.m. - 11:55 p.m.

Merriweather Room

In order to maintain desired conditions within the hive, honey bees need to behave collectively by regulating parameters such as temperature and CO2. Sensors installed in or around bee hives can reveal information on colony behavior and health without frequent colony disturbance and can reveal facets of colony health that are otherwise unobservable. Technological advances have resulted in smaller, cheaper, and more accurate sensors that make monitoring colonies easier, revealing new facets of colony behavior.

CATHY MISKO

Cathy Misko, Centerview, MO., Mama of 8 and known as the “Bee Lady” since 1989, Cathy is President of the Johnson County MO Beekeepers Assn. She serves as Legislative Liaison, Missouri State Beekeepers Assn.; Founder, Heartland Beekeeping Partnership; Past President, Midwestern Beekeepers (Kansas City area), and in her 3rd year as founding editor of the Apiary Buzz newsletter. Cathy has a passion for education and has launched various clubs’ Beekeeping Youth Scholarship Programs, conducts beekeeping class for veterans at Camp Valor Outdoors, and assisted with passage of 2 Missouri beekeeping laws. Maintaining a focus on genetics, she practices “as natural as possible” management with a commitment to IPM, averages 25 colonies, and has been chemical free for 15 years. Cathy is an Eastern Apicultural (EAS) Certified Master Beekeeper and enjoys mentoring, teaching, sharing sweetness from



Dancing Bees Ranch, and loving on her family, especially her physician hubby of 44 years and 12 grands!

Keep the Buzz Going: Customize a Youth Scholarship Program

Friday, August 9, 2024
1:00 - 1:50 p.m.
Amphitheater

This presentation will provide tidbits and tools to smoothly and successfully launch a youth scholarship program or tweak an existing program. Investing in the youth is a gift, providing a legacy that reaches future generations. Supporting digital documents to start a scholarship program will be available for club and personal use.

DR. LINDA MIZER

Linda Mizer is a British subject, a Canadian citizen and a Permanent Resident of the US! She holds a DVM from the Ontario Veterinary College in Guelph, Ontario, Canada and a MSc and PhD from The Ohio State University in Columbus, Ohio. Linda recently retired from 30 years in academia at the College of Veterinary Medicine, Cornell University where she taught gross anatomy, histology and embryology. Linda started beekeeping about 16 years ago and is on a steady curve of learning from experience, mentors and groups, such as the Finger Lakes Beekeeper Club (FLBC) and EAS. She currently serves as Vice-President of the FLBC and the Vice-Chair of EAS and Editor of the EAS Journal. She enjoys gardening and having time with her three grandchildren and their parents.



Honey Bee Anatomy – from the Hive to the Microscope

Monday, August 5, 2024
8:30 – 9:25 a.m.
Waterford Room

Monday, August 5, 2024
1:00 – 5:00 p.m.
Community College of Baltimore County

This 2-part workshop will give an introduction to the aspects of honey bee anatomy that are relevant to a beekeeper. A lot can be learned from training your unaided eyes to examine the external anatomy of the adult honey bee and brood. The laboratory component takes this a step beyond to examine the

honey bee under a dissecting microscope, adding a deeper appreciation of these fascinating insects.

DR. FERHAT OZTURK

Dr. Ferhat Ozturk is an esteemed Assistant Professor of Practice at the University of Texas San Antonio, where he combines a strong Ph.D. background in gene therapy, molecular and cellular biology, bioinformatics, and biochemistry research with a fervent passion for exploring the medicinal use of honey.



With a keen focus on the unique biological and chemical compositions of various mono-floral honey varieties from across the globe, Dr. Ozturk is unraveling the ancient wisdom surrounding honey's therapeutic benefits. His groundbreaking research is dedicated to identifying exceptional U.S.-based honey sources characterized by high bioactivity levels and potent medicinal properties, poised to not only rival but surpass current medical-grade honeys.

Dr. Ozturk's exceptional contributions to the field have earned him the prestigious USDA-NextGen grant, amounting to 2.9 million dollars. This grant is a testament to his dedication to advancing the understanding of medicinal honey and beekeeping, while also nurturing the educational growth of UTSA students.

Dr. Ozturk's work promises to unlock the full potential of honey as a therapeutic agent and inspire the next generation of scholars in this fascinating field.

Plants for Medical-Grade Honey

Wednesday, August 7, 2024
1:00-1:50 p.m.
Oakdale Room

Embark on a journey into the fascinating world of apitherapy with a focus on the medicinal potential of honey derived from select plants. Explore how plants influence honey's antioxidant and antimicrobial properties based on their terroir. Join Dr. Ozturk, as he delves into the botanical intricacies that shape the diverse array of honey types, offering insights into their medicinal benefits and modern applications in human health and wellness.

Medicinal Use of Honey: Evidence-based Applications

Wednesday, August 7, 2024
4:20-5:10 p.m.
Oakdale Room

Honey has been used for centuries as a natural remedy for various ailments, including the prevention and treatment of wounds, infections, diabetes, cancer, and asthma, as well as cardiovascular, neurological, and gastrointestinal diseases. Due to its nutritional value and therapeutic potential, honey has been identified as a nutraceutical product. In this presentation, Dr. Ozturk will give a brief outline about use of honey as a therapeutic agent for centuries, as well as provide evidence-based information about the bioactivity potential of different honeys and use of honey for wound healing in clinical settings.

DR. DAVID T. PECK

Dr. Peck is the Director of Research and Education at Betterbee in Greenwich, NY, where he assists in product development and research, and teaches classes and develops scientifically-sound educational materials. His doctoral work in Cornell University's Department of Neurobiology and Behavior was supervised by Professor Tom Seeley. His dissertation research focused on the transmission of mites between bee colonies, as well as the mite-resistance traits of the untreated honey bees living in Cornell's Arnot Forest.



After earning his degree, he has continued to research varroa/bee interactions, including fieldwork in Newfoundland, Canada (where varroa still have not arrived) and Anosy Madagascar (where varroa arrived only in 2010 or 2011). He has served as a teaching postdoctoral fellow in Cornell's Department of Entomology, and is still affiliated with Cornell through the Honey Bee Health program in the College of Veterinary Medicine. Dr. Peck has kept bees for more than a decade, though his home apiary is often full of mite-riddled research colonies so he doesn't usually produce much honey.

Honey Bee Digestion

Wednesday, August 7, 2024
 3:20-4:10 p.m.
 Crystal Room

What should my bees be eating? What shouldn't they eat? How does the honey bee digestive tract process and absorb nutrients from what the bees consume? What are the dietary needs of different bees at different times in their lives? What stressors, like pesticides or pathogens, can affect our bees' digestion? By exploring how a honey bee's body absorbs what it eats, perhaps we can gain insights into what nutritional aids

our bees may want or need from us.

DR. JEFF PETTIS

Dr. Jeff Pettis's biography can be found on page 15.



Recognizing a good vs bad colony
 Thursday, August 8, 2024
 2:00 – 2:50 p.m.

A bee colony can tell you all you need to know about how it is doing, if we only can read the signs. This workshop will show some of the clues that we as beekeepers need to be in tune with as we examine colonies. Is this colony OK or do I need to help it? Join us in the apiary.

Coming to an apiary near you? The threat of new pests, hornets, mites and more

Thursday, August 8, 2024
 4:20 – 5:10 p.m.
 Crystal Room

Beekeepers have been dealing with Varroa, Small hive beetle and more in recent years. Times continue to change as the recent introduction of two exotic hornets into the US has demonstrated. We are not alone. We can learn from how these new pests have been affecting others around the globe and not have to reinvent the wheel.

Beekeeping in a changing world

Friday, August 9, 2024
 10:00-11:00 a.m.
 Grand Ballroom

The world around our bees is changing. Climate change with erratic rains and shifting blooming times makes our old beekeeping calendar a bit obsolete. We as beekeepers need to read what is happening in the colony and the environment in order to best manage our colonies. An overview of some of these challenges will be discussed.

CYBIL PRESTON

Cybil Preston is the State Apiarist/ Chief Apiary inspector for the Maryland Department of Agriculture. She started as a hobbyist backyard beekeeper in 1997 and became a regional Apiary Inspector for the Maryland Department of Agriculture in 2004. Former president of the Susquehanna Beekeepers Association, Cybil continues to educate new beekeepers by teaching the short course



for Susquehanna Beekeepers in conjunction with Harford Community College. She became an EAS certified Master Beekeeper in 2013 at West Chester College. In 2014 Cybil was promoted to the State Apiarist position for the MDA. In 2015, she trained with the Maryland Department of Corrections and Public Safety along with her Dog Mack to become certified in American Foulbrood disease detection. In 2018 Trained a second dog, a springer spaniel named Tukka. Mack and Tukka are currently the only certified American Foulbrood detector dogs in the United States. In addition to working her own honeybee colonies she enjoys vegetable and flower gardening with her husband on their small farm with their 3 dogs, 4 senior miniature donkeys and 2 goats.

The Maryland Department of Agriculture's Apiary Inspection Service... How Humans and Dogs are Keeping Maryland Honey Bees Healthy.

Monday, August 5, 2024
2:35 - 3:30 p.m.
Tiffany Room

Get to know your State's inspectors.....Who are these crazy "BOOTS on the GROUND" bee lovers? State Apiarist and Chief Apiary Inspector for the Maryland Department of Agriculture.

Examining Hives Like a State Inspector

Tuesday, August 6, 2024
9:35 – 10:30 p.m.
Apiary

Pests & Diseases (part 1)

Tuesday, August 6, 2024
1:30-2:25 p.m.
Crystal Room

Honey bee pests and diseases class explains the main pest threats to bees and shows how to check hives for signs of pests and diseases. We will cover basic principles of honey bee health and disease. We will identify common pests and pathogens and discuss diagnosis and treatment options. We will identify how to tell if a colony is in good health, or if further action is needed. Providing beekeepers with the skills to recognize, monitor and manage the impact of pests and diseases on honey bee colonies.

- Check your hives for pests and diseases.
- Identify the major pests and diseases of honey bees.
- Take action after finding a serious pest or disease in your hive.

- Minimize the impact of pests and diseases on your hives.

Pests & Diseases (part 2)

Tuesday, August 6, 2024
2:35-3:30 p.m.
Crystal Room

Honey bee pests and diseases class explains the main pest threats to bees and shows how to check hives for signs of pests and diseases. We will cover basic principles of honey bee health and disease. We will identify common pests and pathogens and discuss diagnosis and treatment options. We will identify how to tell if a colony is in good health, or if further action is needed. Providing beekeepers with the skills to recognize, monitor and manage the impact of pests and diseases on honey bee colonies.

- Check your hives for pests and diseases.
- Identify the major pests and diseases of honey bees.
- Take action after finding a serious pest or disease in your hive.
- Minimize the impact of pests and diseases on your hives.

Scent Detection Demonstration. How Humans and Dogs are Keeping Maryland Honey Bees Healthy

Wednesday, August 7, 2024
1:00-1:50 p.m.
Crystal Room

The Maryland Department of Agriculture's Apiary inspection Canine Disease detectors.

DORINDA PRIEBE

Dorinda Priebe was introduced to the sweetness, industriousness, and rhythm of Beekeeping at a very young age by her Grandpa John. This would place the idea of having at least a hive of her own in her heart that was finally realized in 2003. As a biology major, the science of the art of beekeeping quickly engaged her, leading to study for and completing the EAS Master Beekeeping Exams in 2011. Dorinda is a consultant to the New Hampshire Agricultural Department working closely with her husband David in his role as state Apiary Inspector. Caring for bees and the people who keep them has become their mission; promoting The Five Fundamental Principles of Beekeeping in their own management and guiding how they instruct others.



Perpetual Beekeeping

Friday, August 9, 2024

1:00 - 1:50 p.m.

Tiffany Room

The European Honeybee Colony is a superorganism equipped to thrive year over year in various climates with changing resources. Explore our understanding of what our bees are doing and how we can assist them to their greatest potential. Lay hold of the Five Fundamental Principles of Beekeeping when considering what our bees need from us and when.

European Foul Brood and Me, a "Real Hive"

Situation

Friday, August 9, 2024

3:20 - 4:10 p.m.

Tiffany Room

Every Beekeeper remembers (or will someday) the feeling of discovering a brood malady in their bee colony. Join Dorinda on a journey of detection, diagnosis and deterring of *Melissococcus plutonius*. Gain confidence in understanding European Foulbrood (EFB) and considering options for a management approach to EFB's control.

NATHAN REID

Nathan is a lifelong beekeeper with 15 seasons of practical research and commercial experience in managing honeybees. In 2017, he embarked on a migratory career, managing colonies for both honey production and pollination across the US. Fortunate to have collaborated with beekeepers and research institutions since then, Nathan became a skilled field tech in his own right. Now working with Dalan Animal Health, he is excited to help bridge the gap between science-based research and practical application thereof.



American Foul Brood Vaccine

Wednesday, August 7, 2024

4:20-5:10 p.m.

Crystal Room

Learn about the science behind the immune priming and the first ever honeybee vaccine. The steps that need to be taken in order for the queen to pass along immunity to her offspring. How beekeepers can apply this management in their own apiary.

STEPHEN REPASKY

A second-generation beekeeper, Stephen Repasky is a nationally recognized speaker, author and consultant from Pittsburgh, PA. He is a certified Master Beekeeper through the Eastern Apicultural Society and is the past-President of the Pennsylvania State Beekeepers Association. Stephen is an active member of the Penn State Center for Pollinator Research Advisory Board and the Pennsylvania State Apiary Advisory Board. He manages approximately 200 colonies (mostly as single brood chambers) in western Pennsylvania as well as the apiary program at Pittsburgh International Airport which is home to the largest apiary program in the country located entirely on airport property. Stephen had his first book published by Wicwas Press in 2014 entitled "Swarm Essentials".



The Nucleus Colony - Honey Producer and Resource Hive

Monday, August 5, 2024

9:35 - 10:30 a.m.

Tiffany Room

Utilizing nucleus colonies as a resource hive will save a beekeeper money and time. Nucleus colonies can be utilized as a keystone in your bee yard. Learn to take advantage of all that a nucleus colony has to offer in order to become self-sustaining in the long run throughout your operation.

Single Brood Chamber Management

Tuesday August 6

2:35-3:30 p.m.

Oakdale Room

Double brood chambers can be exhausting! Managing your colonies in a smaller, more efficient method can result in higher honey yields, higher survival rates, potentially less swarming and less lifting! Learn how to manage colonies utilizing only a single deep hive body year round!

GRAI ST. CLAIR RICE

Grai St. Clair Rice is an organic beekeeper, with 19 years of experience, as well as a writer/artist based in NYC. Grai co-founded HoneybeeLives in 2005, and in 2022 began her solo company Bee Joy (beejoy.org) to teach beekeeping, and spread the love through creative endeavors.



Comb and Nest Architecture

Thursday, August 8, 2024

2:00 - 2:50 p.m.

Amphitheater

“Comb and Nest Architecture” looks at how honeybees construct comb using their unique physiology. It is both an act of community building and a feat of precise, structural integrity. Knowing how honeybees transform crystalline beeswax into the dynamic skeletal structure of this superorganism has the capacity to transform simple beekeeping habits into complex appreciation.

JONNA SANDERS

Jonna Sanders is a former military analyst with the Department of Defense, a military spouse, and a Rhode Island-based beekeeper using Slovenian AŽ beehives. Her adventures with an AŽ hive apiary began with a need to address her lifting challenges due to Scoliosis. In response, Jonna transitioned her apiary to the Slovenian AŽ beehives common in her family's ethnic homeland of Slovenia. She now runs her import company, AŽ Hives North America LLC, and is a vocal advocate for adaptive beekeeping methods for Veterans, children and the disabled. Jonna has recently launched the 501c3 nonprofit Project Bee Strong & the American Center for Young Beekeepers.



AŽ Hive Discussion

Thursday, August 8, 2024

3:20 - 4:10 p.m.

Waterford Room

This talk will explore the rich history of beekeeping in the Republic of Slovenia, including cultural roots, environmental challenges, and the adoption of the bee house and AŽ beehives in the 17th century as a solution to those challenges. We will demonstrate the components of an AŽ hive and discuss differences in management between AŽ and Langstroth hives. Lastly, we will show the adaptive options with the AŽ system that can allow disabled or elderly beekeepers to set up an AŽ apiary and leave the lifting behind.

MONICA SCHMITT

Monica Schmitt has devoted her life to helping individuals find purpose and meaning through beekeeping. As the Co-Founder and Head Director of Mission Believe, Monica has assisted countless people in discovering the healing benefits of bees. She strongly believes that beekeeping can be a therapeutic activity that can help reduce stress and anxiety. Through her work, Monica has become a true leader in the field of beekeeping and a beacon of hope for those seeking a deeper connection with nature, themselves, and the community.



Therapeutic Value in Keeping Bees

Thursday, August 8, 2024

4:20 - 5:10 p.m.

Waterford Room

Join us for an enlightening presentation on the unique intersection of mental health and beekeeping with Monica Schmitt, a passionate advocate for holistic well-being. In this session, she will share their personal journey of using therapeutic beekeeping as a powerful tool for mental wellness. Attendees will discover the profound benefits of connecting with nature and nurturing bee colonies for cultivating resilience, reducing stress, and promoting emotional balance. Whether you're a seasoned beekeeper or simply curious about the therapeutic potential of this ancient practice, this presentation offers valuable insights and practical strategies for enhancing mental health and fostering a deeper connection with the natural world.

DAVID S. SCHULTZ

In 2014 David took two beginner beekeeping courses and began keeping bees that same year. In 2018 David became the VP for HCBA and in 2019 became a candidate and began his exams for the EAS Master Beekeeper program. After serving as HCBA President for 2 years, he is currently the past President of HCBA and is the current 1st VP for the Maryland State Beekeepers Association (MSBA). In 2021 David was awarded the George W. Imirie award for Excellence in Beekeeping Education by the Maryland State Beekeepers Association. In the spring of 2022 he became an apiary inspector for the Maryland Department of Agriculture. David became an EAS Certified Master Beekeeper in the summer of 2022.



The Strength of Study Groups, and Evolution in Maryland

Tuesday, August 6, 2024
1:30-2:25 p.m.
Waterford Ballroom

Seven years ago a couple of EAS Master Beekeeper Exam Candidates collaborated to form a small study group in order to bolster their chances of becoming Certified EAS Master Beekeepers. The Master Beekeeper (MBK) Study Group is now international and has resulted in an amazing fellowship of experienced and dedicated beekeepers all working together to achieve their goals and improve the greater beekeeping community. Can you start a MBK Study Group in your region? Join us to hear about our journey and maybe start your own.

(Overseeing) Encouraging New Beekeepers to Step Up. Keeping the Young Alive

Tuesday, August 6
2:35-3:30 p.m.
Waterford Ballroom

Utilizing educational groups such as a Continuing Education Beekeeping Class, and a Journeyman Beekeeping Course our beekeeping community has seen a new energy of volunteerism and public education. In this talk we will discover how we structured these programs and what the realized benefits have been.

Honey Bee Navigation

Tuesday, August 6, 2024
4:00-4:55 p.m.
Oakdale Room

In this talk we will explore the fascinating and improbable skills exhibited by our favorite insect the Western Honey Bee. We will learn about scientific studies designed to help us understand how Honey Bees do the near impossible feat of their everyday pilotage in a range extending beyond a 3 mile radius from their home."

LANDI SIMONE

Landi Simone is a small-scale commercial beekeeper in northern New Jersey, owner of Gooserock Farm LLC. She manages about 100 colonies, raises queens and nucs, and produces varietal honeys, artisan honey spreads,



beeswax cosmetics and handmade beeswax soaps. Landi has kept bees since 1997 and was certified as an EAS Master Beekeeper in 2004. She served as Chair of the Master Beekeeper Certification Committee for EAS for ten years. She is committed to beekeeping education, and has taught a local short course in beekeeping for over twenty years, as well as being a frequent presenter at both EAS and multiple other venues. Landi's practical approach to beekeeping stems in part from her background; she is a retired consulting civil engineer with degrees from Columbia University and Rutgers. She finds her second career in apiculture every bit as challenging as engineering and a lot more fun.

Creating a Self-Service Store to Sell Your Products

Friday, August 9, 2024
2:00 - 2:50 p.m.
Merriweather

In the right situation, a self-service sales venue can be easy to set up and far more profitable than either a traditional store or selling wholesale. This talk will show you how to do it successfully. Landi's Gooserock Farm "Honey House" has been in operation for a quarter century and evolved into a beloved local landmark. It's the reason that, with only 100 hives, Landi is able to earn a living from her bees.

ERIC SMITH

Eric Smith is an EAS Certified Master Beekeeper from Danville, Pennsylvania and serves as president of the Beekeepers of the Susquehanna Valley, the local club which serves



beekeepers across five counties of central PA. Eric's beekeeping interests lie at the intersection of beekeeping and technology, with a focus on the development of new tools and techniques for use in the beeyard. Eric can be reached at eric.smith@cyberstoics.io

Setting up a Home Microscopy Workshop

Friday, August 9, 2024
3:20 - 4:10 p.m.
Oakdale Room

Join us for an introduction to the world of hobby microscopy! For less than the cost of a hand-cranked extractor, you can add a very capable, useful, and fun microscopy lab to your beekeeping operation. In this talk, we'll share our experiences regarding the physical buildout of the lab -- everything from dealing with



Facebook marketplace sellers to the safe storage of glass slides. We'll leave you with several fun and practical experiments that you carry out from your new lab.

DR. ALAN SOKOLOFF

Dr. Alan K. Sokoloff, or "Dr. Sok", as his patients refer to him, is the owner/clinic director of the Yalich Clinic Performance and Rehabilitation in Glen Burnie, MD, where he has practiced for over 38 years.



Since 1999, he continues to be one of the team chiropractors for the 2-time World Champion Baltimore Ravens of the NFL. He is also a medical team member for the Baltimore Orioles Major League Baseball team, as well as the Bowie Baysox (Baltimore Orioles AA Team). Dr. Sok has been a part of the University of Maryland Sports Medical Team since 1991. He is the immediate past-president of the Professional Football Chiropractic Society. He was a past 2 term president of the Maryland Chiropractic Association. Dr. Sokoloff did his residency at the Olympic training center in 1997, going on to the Goodwill Games in 1998 and the Pan Am Games in 1999.

Dr. Sok is an active board member of BASH, Baltimore Area Sports Health Initiative, helping to provide healthcare to inner city schools as well as health educational opportunities for Baltimore City students.

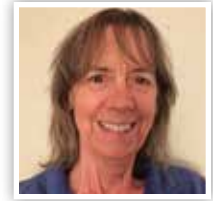
You Can "Bee" a Healthier You; Apiculture Does Not Have to be Back Breaking

Monday, August 5, 2024
8:30 - 9:25 a.m.
Merriweather Room

There are so many reasons why building an apiary and raising Honeybees, continues to grow. We all know there is more to being a beekeeper than learning vocabulary, buying Honeybees, and connecting with nature. We know without a healthy Queen, the colony's future is in peril, but how often have you thought about you, the beekeeper?

This session will discuss strategies learned on the "50-yard line" that can be used by beekeepers to prevent and care for common injuries in the apiary. Whether you are a Beginner or Master Beekeeper, you can help yourself to be a Healthier Beekeeper.

SUZY SPENCER



Suzy Spencer has been keeping bees for over 35 years, primarily in downtown Raleigh NC. She's a Master Craftsman in the NC Master Beekeeper Program and has served as the NC State Beekeepers Association's Membership Secretary. Her local Chapter is Five County Beekeepers where she has served in several roles including Treasurer. She is the organizer of the NCSBA "black Jar" honey contest for which she utilizes a procedure she developed that allows for an unlimited number of judges. She has traveled to California and Connecticut to obtain training in honey sensory analysis and has presented on this topic at North Carolina, West Virginia, and Maryland state beekeepers associations' conferences as well as to numerous local NC Chapters. She looks forward to sharing information on these topics at the EAS short course.

The Basics of Honey Tasting

Monday, August 5, 2024
8:30 - 9:25 a.m.
Oakdale Room

This is a short introduction to the process of really tasting honey and using terms taken from honey flavor wheels to describe the flavors. Participants will begin to learn to recognize and name the flavors using guided-tastings of one-source honeys accompanied by group discussions. Resources for continuing education will be presented.

The Basics of Honey Tasting (continued): Holding a Black Jar Contest with Many Judges

Monday, August 5, 2024
9:35 - 10:30 a.m.
Oakdale Room

In a "black jar" honey contest, the only criterion for judging is the taste. Normally there are only one or two judges even though judging is very subjective. In this presentation, participants will learn how to have a different type of "black jar" honey contest for a club or other organization that allows for a nearly-unlimited number of judges, making it a "people's choice" award and an entertaining activity for a large group of people.

RUSSELL SPRANGEL

Russell Sprangel started keeping bees in 2017 with a hive setup and a new beekeeper's course as a Christmas present, from his wife Lisa, which she totally regrets to this day. He is the past VP and President of CCBA and past Vice President of HCBA. He is an EAS Master Beekeeper certificated in Ithaca, NY in 2022. He teaches during the beekeeping calendar in the clubs training Apiary, and any aspects of beekeeping that students request. Early in his second year of beekeeping he decided that queen rearing could not be the black magic everyone said, and you do not need 10 years of experience to do it. So, with a little book learning, and no formal instruction, he jumped in to find what the fuss was about. Turns out it is magical, but in a good way, and can be one of the most rewarding aspects of beekeeping even on the small hobby scale. He will be presenting on "Make a New Queen for \$20".



Making a New Queen for \$20

Monday, August 5, 2024

4:20-5:10 p.m.

Tiffany Room

Are you a 2nd or 3rd year beekeeper and want to make some queens for your own use or a few to sell? Queen rearing isn't that hard and you can do it for under \$20 in new supplies. Learn some simple tips and tricks to make the whole process easier skipping a lot of trial and error.

Almost Every Device Under the Beekeeping Sun

Wednesday, August 7, 2024

3:20-5:10 p.m.

The Terrace on the Green

You think you know beekeeping equipment? Stop in and see how many pieces of equipment you not only know the name, but the functional use. This is a stop in and walk through at your own pace session.

DR. NATHALIE STEINHAUER

Dr Steinbauer is an entomologist specializing in questions related to honey bee health. Originally from Belgium where she completed a master's in biology, and following a postgraduate research master's in Ecology, Evolution



and Conservation from Imperial College London (UK), she graduated with her PhD from University of Maryland Honey Bee Lab in 2017. From 2018 to 2023, she acted as the Research Officer for the Bee Informed Partnership, a nonprofit organization whose goal was to support beekeepers to keep healthier bees through research and extension. At BIP, she collaborated on the development, implementation, and data analyses of BIP's national monitoring programs and field trials, in particular the annual Loss and Management Survey. Nathalie now works under Dr Ramesh Sagili as Research Associate for Oregon State University. Self-described R-enthusiast, and beekeeper since 2009.

Splits and Nucs – Backed by data

Monday, August 5, 2024

11:00 a.m. - 12:00 p.m.

Tiffany Room

Splitting colonies is a way for beekeepers to attempt to harness and direct the growing potential of colonies. In this talk, we aim to clarify the science behind the methods, and how our scientific understanding of bee behavior, genetics, and disease management inform best practices in splitting. We will examine and discuss the (sparse) scientific studies that aimed to determine the impact of colony splits on bee health, including varroa, and colony productivity.

ALLAN STORM

Allan Storm, from Maryland, has been a long-time connoisseur of honey and was finally able to take-up beekeeping after he retired from the U.S. Marine Corps. He has traveled and studied beekeeping in Japan, Korea, Spain, Turkey, and throughout the Balkans, where he was even able to spend a few days at the Beekeeping Academy of Slovenia. He has kept bees in Belgium for six years incorporating European management standards. An academic, he has completed University of Montana's Beekeeping Certificate program which consists of three university-level courses at the apprentice, journeyman, and master levels, culminating in a certificate as a "Master Beekeeper." He has also attended the first honey sensory training course in the U.S. taught by the Italian National Register of Experts in Sensory Analysis of Honey. This training also assists him as a certified Maryland Honey Show Judge. In addition to being a member of several Maryland (and DC) beekeeping clubs, "Storm" is also one of the Maryland



Apiary Inspectors. In his spare time, he keeps close to 100 colonies in an assortment of hive configurations, which include Langstroth (of course), Layen, Slovenian AŽ, Top-Bar, and Warre. He is also a MD State leader for Hive for Heroes, a national non-profit service organization focusing on sustainability, conservation, and providing a healthy transition from service, by connecting mentors with mentees.

Inspecting Top Bar Hives Correctly

Monday August 6, 2024

4:00-4:50 p.m.

Apiary

The Top Bar hive is designed with *beekeepers* in mind, both in terms of construction effort and management. Completely self-contained, bees build comb directly down from each of these “top bars.” Lacking foundation, meaning bees create their own comb, the fragility of this comb, can initially be a challenge for new beekeepers. (In the bee yard - bring your veil and/or suit.)

Hives Langstroth Did Not Invent

Wednesday August 7, 2024

4:20-5:10 p.m.

Apiary

Ask a Langstroth owner about their beehive and you will get a knowing smile of satisfaction of their choice. This course will briefly describe the “what,” “how,” and “why” of some of the different types of beehives. These will include Layen, Slovenian AŽ, Top-Bar and Warre...and even the Flow Hive with its innovative honey extraction technology. (In the bee yard - bring your veil and/or suit.)

DR. CLYDE STRANG

Clyde is an EAS certified master beekeeper and retired Urologist. He was introduced as a child to beekeeping by his father. Has been keeping his own bees for 23 years and cares for 50 colonies.



Wax Moth Life Cycle, Protecting Your Comb

Monday, August 5, 2024

4:00 - 4:55 p.m.

Merriweather Room

Wax moths are a destructive pest of honey bee comb found throughout the world. We will discuss

the life cycle and various ways to limit wax moth damage. Comb is a valuable commodity and is critical to protect it. Methods to preserve comb will be discussed.

DR. BARRY THOMPSON

As a teenager, I undertook, in 1954, to learn and practice beekeeping and have continued off and on until the present. Much of the time, I was a sideler (up to 150 colonies for honey production and pollination). Through the kindness of more-experienced beekeepers, my bees and I survived the early years. Over the decades, I've learned from fellow beekeepers, migratory/ commercial beekeepers, and researchers. While meeting the demands of my day job as a physician-geneticist, I've been active in local, state, national, and international organizations. In numerous venues, I've tried to carry out the mission of EAS Master Beekeepers to help the public understand honey bees and beekeeping. Mentoring other beekeepers has been one of life's greatest pleasures. A token apiary at a “Neighborhood Garden” near Houston is now my lot, but I continue to present to the public and to assist those who seek to practice the craft we love.



Why Did My Hive Die?

Monday, August 5, 2024

1:30 - 2:25 p.m.

Tiffany Room

An “autopsy” of the deceased colony to aid the beekeeper in identifying the cause(s) of colony loss and in preparing to avoid a repeat of that event.

Bees Don't Bite: Facts About Bee Stings That Every Beekeeper Should Know

Thursday, August 8, 2024

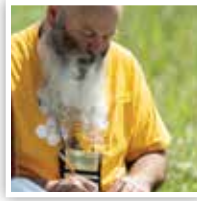
4:20 - 5:10 p.m.

Merriweather Room

Expand your understanding of honey bee stings and the effects of venom on the human body. Review normal responses to stings, learn to identify sting hyper-sensitivity, and be able to take the steps needed to protect an individual from potentially fatal anaphylaxis.

LARRY TRUCHON

Larry Truchon is an EAS Certified Master Beekeeper. In 2019, he was the recipient of the George W. Imirie Award for Excellence in Beekeeping Education from the Maryland State Beekeepers Association. He believes that knowing and understanding honey bee biology is a major component in being a successful beekeeper.



Honey Bee Biology (part 1)

Monday, August 5, 2024
1:30 - 3:30 p.m.
Amphitheater

This presentation is a “deep dive” into the honey bee & the biology of the hive.

Honey Bee Biology (part 2)

Monday, August 5, 2024
3:30 – 4:55 p.m.
Amphitheater

This presentation is a “deep dive” into the honey bee & the biology of the hive.

VALERIE WAMPLER

Valerie Wampler, EAS Certified Master Beekeeper and American Dahlia Society Senior Judge started growing and competitively showing Dahlias which led to beekeeping. 10 years of beekeeping has provided Valerie opportunities for outreach activities that combine all her favorites: teaching, mentoring, outreach with public supporting gardening and pollinators, soap and lotion making, woodworking, knitting/weaving and a thirst for learning.



Lotion Making

Monday, August 5, 2024
11:00 a.m. - 12:00 p.m.
Oakdale Room

Do you want to make natural lotions and creams that you can use and sell? This class will teach you everything that you need to know about making luxurious lotion products. The beauty of making your own lotion for skin care is you get to hand pick the finest and healthiest ingredients that will retain moisture and combat dry skin naturally. Learn about carrier oils, butters, essential oils, infusing herbs and labeling requirements for packaging your lotions.

Some tips, tricks and recipes will be shared.

What Honey Bees Eat? Why and How They Get It.

Monday, August 5, 2024
2:35 - 3:30 p.m.
Oakdale Room

Covering the W's - who, when, where, why, plus how.

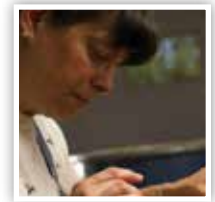
NUCS in your Backyard

Tuesday, August 6, 2024
8:30 a.m.-11:55 a.m.
Amphitheater

This presentation will cover the biology of NUCS, creating resource NUCS, buying and selling.

VIRGINIA WEBB

Virginia Webb is a full-time commercial beekeeper in Northeast Georgia. For more than fifty years, she has championed the role of the honeybee in helping to sustain global agriculture. She has worked with beekeepers in almost every state and has traveled to Europe and the Caribbean teaching beekeeping for the U.S. Dept. of Agriculture. Teaching others about honeybees and their roll in agriculture is an important service that Virginia has provided. Virginia has been awarded four gold medals at the World Honey Show, sponsored by the Apimondia, for Best Honey in the World. She holds three master beekeeper certifications, Georgia, Florida and Eastern Apicultural Society.



Rendering Wax from Comb to That Pretty Block

Monday, August 5, 2024
1:30-2:25 p.m.
Crystal Room

Easy ways to render small quantities of beeswax, cleaning then pouring that perfect block. Starting with 1 oz. to 5 pounds blocks.

Wax On, Wax Off: Making Award Winning Candles

Monday, August 5, 2024,
2:35 - 3:30 p.m.
Crystal Room

Wednesday, August 7, 2024

2:00-2:50 p.m.
Tiffany Room

Learn techniques in selecting molds and pouring competition candles for tapers, pillars or decorative

candles. Plus, what judges look for in judging this class. It all depends on the little details you give your beeswax candles.

RICHARD WHITLOW

In 2010, Richard Whitlow started his education in beekeeping as a member of the Loudoun County Beekeeper Association. He took beekeeping courses taught by Billy Davis and Bill Bundy. Richard worked under Billy Davis for 8 years, as part of the Sustainable Honeybee Program (SHP) in Northern Virginia. In 2016, Richard became the apiary supervisor at SHP, maintaining the program mission, mentoring beekeepers, and teaching stress-free beekeeping for noncommercial beekeepers by using quiet boxes and quiet cloths. Richard leads a team of volunteers at SHP.



Stress-free Beekeeping by the Sustainable Honey Bee Program (SHP)

Thursday, August 8, 2024

4:20 - 5:10 p.m.

Apiary

During this hands-on demonstration, Richard Whitlow will speak about stress-free beekeeping techniques used and taught at SHP and display a method for inspecting hives without using smokers. He will demonstrate the use of a quiet box and quiet cloth to protect the queen during inspections. This method reduces the disruption to the hive during routine inspections.

KENT WILLIAMS

Kent Williams, beekeeper for 35+ years; work as one of a three man crew that owns/manages 1200 colonies in KY and MS; pollinate almonds, produce and wholesale nucs, honey and queens; operate a three day, free of charge, hands on beekeeping school on our farm in KY each April with the intent of helping area beekeepers become better at their craft.



Regional Beekeeping (In The South)

Wednesday, August 7, 2024

3:20-4:10 p.m.

Merriweather Room

A snapshot of the differences in the overall

management, the timing of various activities and interventions pertaining to similar issues in other regions (forage, treatments, feeding, etc.)

Business Models: Do You Really Need All of Those Bees?

Thursday, August 8, 2024

2:00 - 2:50 p.m

Merriweather Room

Choosing the business model that best fits your skill set; location, as in length of season; opportunities available for marketing your product i.e. pollination, honey market, value added etc. and making the best use of the colonies you have to work with.

BRIDGETT WILSON

Bridgett Wilson is a Yoga Alliance RYT-200 yoga teacher from Virginia who was trained in the Ashtanga yoga lineage that traces from Pattabhi Jois and David Williams to Jonny Kest and his LifePower yoga teacher training. She specializes in Gentle, Hatha and Vinyasa classes in her teachings and personal practice.



In her class, expect a gentle flow with progressive sequencing that starts slowly and builds in intensity. Suitable for all levels.

Yoga

Monday, August 5 - Thursday, August 8, 2024

Waverly Room

In her class, expect a gentle flow with progressive sequencing that starts slowly and builds in intensity. Suitable for all levels.

DR. JAMES WILSON

James is a Collegiate Assistant Professor, Extension Apiculturist at Virginia Tech in Blacksburg Virginia. James enjoys taking beekeeping Extension on the road throughout Virginia, and teaching Virginia Tech's undergraduate Bees and Beekeeping class and lab, as well as teaching Insects and Human Society courses. Through his continued work in Integrated Pest Management, James leverages an agricultural perspective with a great passion for beekeeping into all his work to protect pollinators and further beekeeping in Virginia. James completed his PhD at Virginia Tech in 2016 working with bees, pumpkin



pests, and their associated parasitoid wasps, as well as novel insecticide risk qualification in bees. With this full circle approach to improving pollinator protection and pest management in Virginia pumpkin production, James looks forward to keeping bees safe and working in agriculture systems into the future. Lastly, James is working to reach young bee enthusiasts to help welcome new beekeepers to our greater beekeeping community.

Insect Societies; from Kings & Queens to Just Plain Wasps

Thursday, August 8, 2024

1:00 - 1:50 p.m.

Amphitheater

Honey bees are at the top of the list when it comes to social insects, how does that compare to the wasps in our yards? From the paper wasps to the best-mated honey bee queens, social insects employ many tactics to make sure that their genes get passed on from one year to the next. Explore the social insects that surround us, see what makes them so different from honey bees, and maybe learn a little more about how unique honey bees are.

Pheromones: Chemical Communication in the Hive

Friday, August 9, 2024

2:00 - 2:50 p.m.

Waterford Ballroom

Our favorite bees are hard at work building and maintaining a whole insect society inside of our hives. Here we will look at the role that signal chemicals, pheromones, play in the hive. From controlling queens and hungry brood to experienced foragers, pheromones keep the honey bee colony ticking right in time.

DR. JON ZAWISLAK

Dr. Jon Zawislak is an assistant professor of apiculture and urban entomology for the University of Arkansas System Division of Agriculture, in Fayetteville, Arkansas.



He has worked and played with honey bees since 1998, and is equally at home in the bee yard, the laboratory or the classroom. He presents lectures, workshops and short courses for new and experienced beekeepers throughout Arkansas and beyond. His teaching emphasizes understanding of the biology and behavior of honey bees as cornerstones of keeping them

productive and healthy. He also spreads the word about the importance of pollinators to the non-beekeeping public. Jon has a background in botany and entomology and was certified as an EAS Master Beekeeper in 2009. He and his family operate Walnut Valley Honey Company, producing good products from their hives.

Underappreciated Drones

Thursday, August 8, 2024

1:00 - 1:50 p.m.

Tiffany Room

Beekeepers may consider them just lazy moochers in the hive, but those guys are important to the future of the colony and to bee society. Learn what you can tell about your colony from its drones, and find out more about their mysterious behaviors.

CARIN ZINTER

Carin "Z" Zinter serves as an assistant professor of business and entrepreneurship at Greenfield Community College. An EAS certified Master Beekeeper, Z started keeping bees as a backyard hobbyist in 2002 and has been teaching beekeeping since 2014.



Why Beekeeping? What Do I Get From It?

Monday, August 5, 2024

11:00 a.m.-12:00 p.m.

Crystal Room

Join EAS master beekeeper "Z" for this fun, lighthearted, yet deeply personal narrative. Learn about the adventures of a Minnesota farm kid turned New York City urban beekeeper, driven by a profound love for the natural world, a commitment to environmental stewardship, and a desire to foster social change. This engaging session will offer a glimpse into the transformative power of beekeeping as a conduit for connection, conservation, and community.

SPECIAL EVENTS AND CONFERENCE FEATURES

Monday, August 5



DINE AROUND TOWN

The Dine Around Town event has proven very popular at the EAS Conferences. This year, the event is scheduled for Monday, August 5th and provides interesting venues to visit. Drivers and participants will meet in front of the Turf Valley Resort Hotel Entrance (see page 7 map).

Tuesday, August 6

PICNIC/BBQ

EAS has been invited to Larriland Farm for an evening of good food and great company. Two departure times are listed, one at 4:00 p.m. and one at 6:00 p.m.

Participants were required to pre-register and indicate their preferred departure time. This trip is closed and there are no “walk-ins” or “drive-overs” to this event.

Check the Contact Board by the EAS Registration Desk to see if anyone is offering their ticket for sale.



Wednesday, August 7

EAS BEE OLYMPICS

Returning this year, the EAS Bee Olympics is a friendly competitive way for teams of beekeepers to show off their bee skills that are embedded in a series of special events. Form a team of four members and be creative in naming your team! Sign-ups for teams will be at the registration desk Sunday through Tuesday. A team may represent states, clubs or de novo groups. This year, events may include smoker lighting, frame assembly, caging worker bees, queen finding, and drone spitting. Ribbons are given to all participants! If you aren't participating on a team, come cheer on the various teams!



GROUP PICTURE

On Wednesday, August 7th, EAS will continue its revived tradition of taking a group photo of attendees. This will be taken at 6:15 p.m. outside the Turf Valley Resort Hotel Registration area entrance (see map above). Hope to see you all there!!

Right: Group photo from EAS 2023



Bus Trips

The following bus trips required pre-registration and payment that included the cost of transportation and entrance fee, when applicable. These trips are closed and there are no “walk-ins” or “drive-overs” to these events.

Check the Contact Board by the EAS Registration Desk to see if anyone is offering their ticket for sale.



Fort McHenry National Monument and Historic Shrine

Wednesday August 7, Morning trip departing at 8:30 a.m.

The defense at Fort McHenry in 1814 inspired Francis Scott Key to pen the words that would become the U.S. national anthem. Tour the grounds’ scenic waterfront promenade and step back in time with a tour of the Historic Zone and Star Fort.



Historic B&O Railroad Museum

Wednesday August 7, Afternoon trip departing at 1:00 p.m.

Known as the birthplace of American railroading, the B&O Railroad Museum gives visitors the chance to experience the story of American railroading at the very place where it began.



USDA Bee Research Laboratory - Beltsville, MD

Thursday, August 8, Morning trip leaves at 8:30 a.m., the afternoon trip leaves at 1:00 p.m.

Meet the scientists, see the lab space and where you send your samples.

TOUR BUS PICK UP

The pick-up area for all these bus trips is in front of the Turf Valley Resort Hotel entrance (see map on page 7). There will be personnel checking your name – please wear your EAS Conference Name Tag. If you have changed your mind about going on one of these trips please contact the [registration desk](#) so we are not waiting for you to load the bus.

Throughout Conference

PAINTED HIVES

Youth groups of Maryland, including 4-H groups, Girl Scouts, and a Future Farmers of America group have been busy painting hive bodies and decorating them to be sold in a silent auction to beekeepers and others wishing to beautify their apiaries, shops or even their living rooms! The youth groups have reported that they had fun doing this and any funds raised will be returned to them for any of their projects or some would like to donate the money to support pollinators. These Painted hives will be available for viewing and bidding during the conference, so please check them out and participate in the bidding.



KEEP FIT, FLEXIBLE AND RELAXED WITH YOGA AND ZUMBA!

EAS 2024 will offer both Yoga and Zumba exercise. Zumba will be offered from 7:00 – 8:00 a.m. by Erin Evans and Yoga will be offered 5:15 - 6:00 p.m. by Bridget Wilson. Both of these exercise programs will be offered in the Waverly Room.

AUCTIONS

EAS auctions will be virtual, silent and live again this year! Items will be posted on a virtual auction site, open to all EAS members, that will continue into Thursday, August 8th. These items will vary from vendor offerings to personally donated items. Bids may be placed on www.biddingowl.com/EAS2024

Each day of the conference, items will be laid out in the morning and changed out in the afternoon for bidding in the silent auction.

Items will range from clothing, equipment, bee supplies and home decorating items. See the Schedule Overview on page 5 of this program for times and locations.

The live auction will be held on Thursday, August 8th following the Thursday night dinner in the Grand Ballroom. It will feature select items donated by vendors and individuals including award-winning items from the Honey Show.

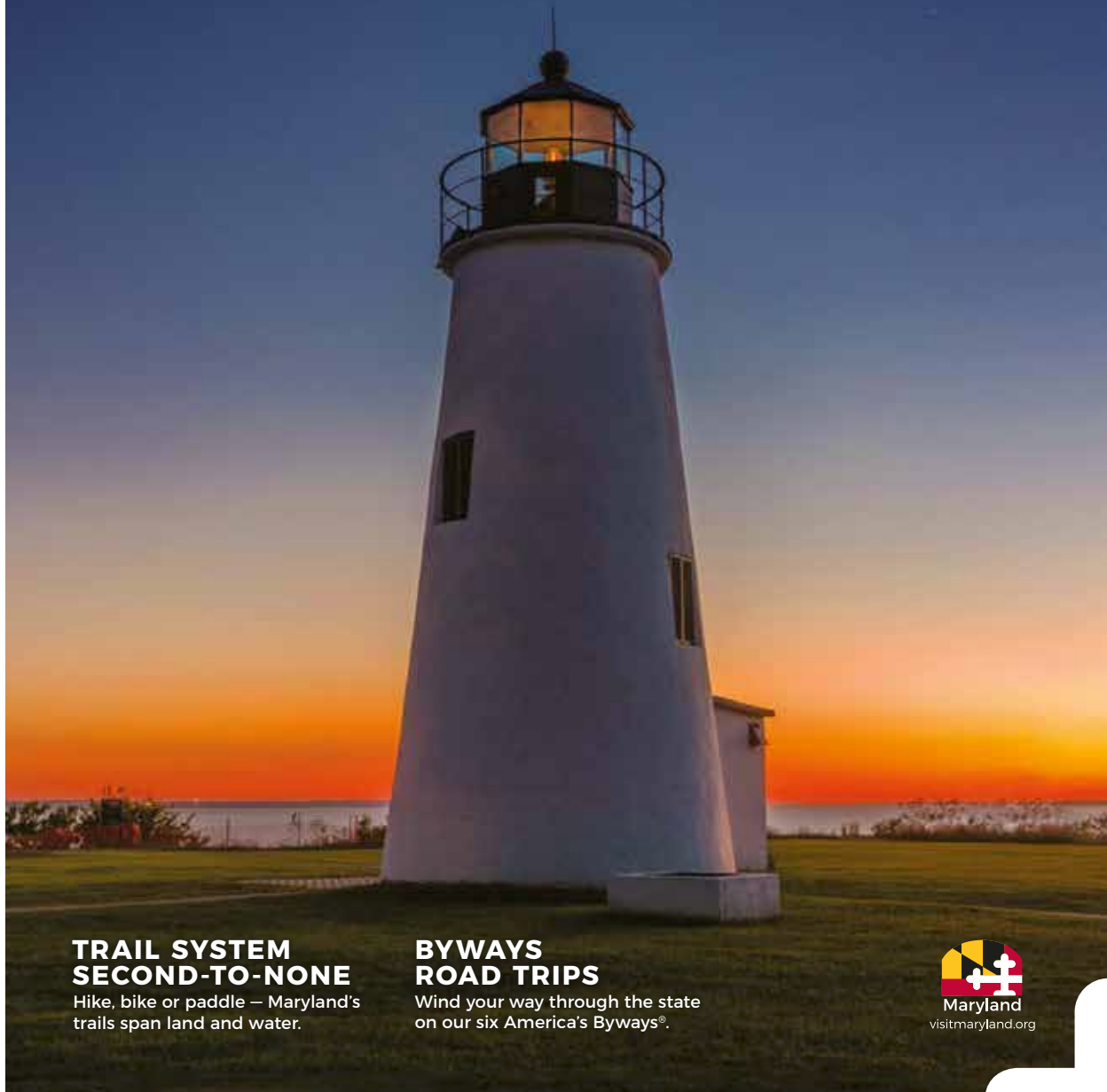




OTHER LOCAL ATTRACTIONS AND EVENTS

DESTINATION **MARYLAND**

OFFICIAL MARYLAND TRAVEL MAGAZINE



TRAIL SYSTEM SECOND-TO-NONE

Hike, bike or paddle — Maryland's trails span land and water.

BYWAYS ROAD TRIPS

Wind your way through the state on our six America's Byways®.



MARYLAND VISITORS GUIDE

Official Visitor Guide to Maryland has generously been provided in our Conference Bags. It is a source rich in information about Ellicott City and the surrounding areas!



HOWARD COUNTY FAIR

EAS 2024 is not only hosted in the state of Maryland, but it is located in the heart of Howard County, a diverse community that is continually ranked amongst the most affluent, advanced, and educated communities in the United States.

Even with all of the accolades, Howard County has its roots in agriculture and the 2024 Howard County Fair will be taking place August 3-10, 2024 only 6 miles away from Turf Valley at the Howard County Fairgrounds. So if you are missing the smells of the farm or want to meet fellow beekeepers from the Howard County Beekeepers Association, or need that deep fried indulgence, stop on by. On Monday only, EAS registrants will be given a \$5 discount. Please have your nametag with you.

2210 Fairgrounds Road
West Friendship, MD 21794
howardcountyfairmd.com



TURF VALLEY RESORT

You should plan ahead, if you are interested in partaking in added amenities at Turf Valley Resort during EAS 2024.

The Spa at Turf Valley Resort is the place to refresh and rejuvenate after long days in the apiary. Body treatments, facials, and massages are just some of the treatment you can partake. Contact the Spa at Turf Valley Resort (410-203-2755 or thespa@turfvalley.com) to schedule an appointment.

What better way to escape the buzz than playing Turf Valley's Championship Golf Courses. Turf Valley has two Championship 18-hole golf courses that are open to members and resort guests. Plan ahead and reserve a tee time by calling 410-465-1500.



NEW!



HONEY BEE FEED IN CONVENIENT PATTY FORM

5% NATURAL POLLEN



ULTRA BEE ROCKET FUEL

Scientifically Formulated Complementary Bee Feed

SAME GREAT FORMULA AS ULTRA BEE PLUS WITH THE INCLUSION OF 5% NATURAL POLLEN AND APIS BIOLOGIX MAKING IT THE ULTIMATE POLLEN SUBSTITUTE.

Apis Biologix Bio-Activator fills the gap between pollen substitutes and natural forage for bees. It contains vital nutrients from natural pollen: vitamins, carotenoids, amino acids, enzymes, and trace minerals aiming to offer a balanced alternative for bee health.

Respecting and mimicking nature in the finest of details, Apis Biologix Bio-Activator is intended to bring the nutritional profile of pollen supplements into alignment with that of floral pollen.

FOR STRONGER, HEALTHIER BEES!

Pro-Sweet
LIQUID FEED

- NO FERMENTATION
- PREFERRED CHOICE
- READY TO USE
- NO MIXING

Pair Pro-Sweet & Pro Health for stronger, healthier bees!

PRO HEALTH
Feeding Supplement with Essential Oils

- STIMULATES BEES TO FEED
- AIDS IN OVERALL HEALTH
- BUILDS UP YOUR COLONY

HIVE ALIVE
Feed Supplement

- MORE BEES & MORE HONEY
- REDUCED OVERWINTER LOSSES
- PROMOTES HEALTHY BEE GUT

Scientifically backed product!



got brood?



See what's new in 2024

- 5+ Year Battery Life
- Bees App Upgrade
- BroodMinder-WPro
- BeeTV / MiteMinder

broodminder knows

We watch while you're away...

BroodMinder is the industry leader in the wireless gathering, monitoring and disseminating of hive information to enhance honeybee health.

This simple idea began when a backyard beekeeper with an engineering background realized that there was no reliable data that gave an accurate picture of what was happening in hives... especially in colder months. With BroodMinder products, now you can know.

BroodMinder benefits:

- **Temperature, humidity, weight, and activity** information sent wirelessly
- **Better tools** to assess hive distress and provide insight
- **Improved outcomes** by helping develop solutions and new interventions
- **Data sharing** among the beekeeping community through the BeeCounted.org website
- **Over 32,000 devices** in use since 2015
- **Detect swarms, nectar flows** and other events

Stable temperature in the Brood Zone indicates bees are raising brood. Note queen loss March 9 and loss of thermal regulation 21 days later.

