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JULY 31 - AUGUST 4, 2017
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Clarkson, KY
800-233-2899

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Dundee, NY
607-243-7301

Gunter Honey Co.
Berryville, VA
540-955-1734

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2017

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AT A GLANCE

Sunday  Registration & Information
  Desk 3:00-7:00pm
Monday  Registration & Information
  Desk 7:30am–5:00pm
  Short Course 8:30am–5:00pm
  Tall Tales in the Apiary 7:00-8:30pm
Tuesday  Registration & Information
  Desk 7:30am–5:00pm
  Short Course 8:00am–5:00pm
  Vendor Exhibit 10:30am–5:00pm
  Jeopardee 7:30 - 9:00pm
  EAS Next Gen
  Breakout Session 7:30-11:59pm
Wednesday  Registration & Information
  Desk 7:30am–5:00pm
  Conference 8:30am–5:00pm
  Vendor Exhibit 8:30am–5:00pm
  Bus trip to Mount Cuba 1:00 – 4:45pm
  Honey Tasting
  workshop 9:30am – 12:30pm
  Liquid Alchemy
  Meadery Trip 5:45 – 9:00pm
  Dancing with the Bees 7:30 – 9:00pm
Thursday  Registration & Information
  Desk 7:30am–3:00pm
  Conference 8:25am – 5:00pm
  Vendor exhibit 8:30am – 5:00pm
  Bus trip to
  Nemours Mansion 1:45 – 6:00pm
  Dinner & Auction 6:00 – 8:30pm
Friday   Registration & Information
  Desk 7:30am–12:00pm
  Conference 8:30am – 5:00pm
  Vendor exhibit 8:30am – 5:00pm
  EAS Annual banquet 6:00 – 9:00pm
Welcome to Delaware!

When Dr. Dewey Caron and Dr. Debbie Delaney asked me if I would help organize the EAS Delaware conference, they gave me some flimsy excuse that they were too busy. One said, I have kids... the other said... I don't even live in this country. My first thought was... But I don't even like humans. I'm thinking... Organize a conference? Do I look like a Rocket Scientologist, or a Brain Sturgeon? Nope, I'm just a backyard beekeeper. They said “Great that's just what we need.”... and before I knew it, it was a DONE DEAL.... did I hear a choo choo train???

When I finally decided to help, my wife and I decided we might as well celebrate the decision. We were gonna do it up right. So I washed by best Harley t-shirt, and off we went. Ponderosa Steak House. What an evening.

It turns out, surprisingly, that beekeepers can be fun and exciting people. Way more exciting than the other group I am associated with,... the Cactus Club. In fact, right now I have a saguaro cactus that is growing a new arm. Anyone wanna come and watch?

Additionally, there is good news for all beekeepers. A recent study shows that beekeepers are 72% more virile than non-beekeepers. Good to hear. However there is a second portion of the study that is not as good. It turns out that beekeepers also have 72% fewer chances to prove it. Something about inhaling all that smoke? Hmm. I may be more familiar with that portion.

Well, after completing most of this journey, I really feel like I have won something special. My mom always said I was a winner... however she had a bit of an accent... she used to say, “Bob, you're a real wiener”. But I knew what she meant.

Finally, I want to bring everyone up-to-speed on the latest on Colony Collapse Disorder. We know nothing... there... you are now up-to-speed. We promise that you will have a chance to get up-to-speed on your beekeeping knowledge this week - the problem will be remembering it and also your bees might not have gotten the same information - hmmm how am I going to tell my badly neglected bees that it was all due to EAS duties? Next week bees - I promise - after the EAS gavel has passed to Virginia - oh poor Virginia bees.

By now it should be obvious that EAS has completely fried my brain....now this wiener - er winner - gets a chance to reacquaint himself with his family, my bees, start another cactus and even get back to the Ponderosa for another celebratory dinner. In all seriousness, I hope you have a GREAT time at EAS Delaware 2017 and you and your bees gain lots from our conference. It has been a great pleasure to serve as your COO COO (as in Chief Operating Officer doubled).

Safe travels.

Bob Bauer, President
Eastern Apiculture Society
WELCOME FROM THE CHAIR

EAS returns to Delaware!

We are so happy to share this exciting anniversary year EAS with our beekeeping community.

You may not already know that EAS has been in Delaware every other yellow queen marking year for the past four decades. The last time we were here Dr. Dewey Caron was still full time at UDel and he was also serving as past Chairman of EAS. This year he has graciously donated many many hours of his time to coordinating our educational programs for the week as well as advising the Master Beekeeper Certification Committee. If you have not yet personally met Dr. Caron, please take this opportunity to introduce yourself to a pillar of the EAS community and thank him for his service.

As you can see from the program schedule (page 26) we have another amazingly robust program this year, with multiple levels in the short course (including queen rearing!) and many inspiring speakers throughout the main conference. I am particularly excited to highlight the in-apiary workshops, which allow participants to learn hands-on and experience real world application of new hive management techniques.

We are looking forward to an exciting week of education, skill building and knowledge sharing. We hope you will find lots of time to meet people, make new friends, and catch up with colleagues.

I encourage you to attend as many of the evening events as you possibly can. These events are a fun break from the intense learning of the day, and also provide a unique opportunity to meet fellow beekeepers at all levels, make new friends and lasting connections, and share some laughs and good times. The Thursday night social and auction is always my favorite, and we have some amazing items in a fast paced auction this year. The Friday night Banquet awards will be great fun and we are excited announce the certification of new Master Beekeepers that evening. We have another very strong group of candidates this year, we applaud these people as they continue on their journey as bee ambassadors.

Please also accept and convey my deep appreciation for all of the volunteers who make this week possible. EAS is a volunteer run organization from top to bottom, and there are many people have been working on making this week happen two and three years. Bob Bauer and his team have been an amazing group to work with, the Executive Committee and Board of Directors are critical participants, and of course the Master Beekeepers have been working hard behind the scenes to make Eastern Apicultural Society one of the greatest beekeeping organizations anywhere. Thank you all to who have participated, and if you are new to EAS and wanting to get involved, please get in touch with any member of the Board and we will be happy to help you.

Enjoy!

Erin MacGregor-Forbes, Chairman
Eastern Apicultural Society
Dadant

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M60020 9 5/8” nuc box
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# SCHEDULE OVERVIEW  
Monday, July 31 to Friday, August 4 2017

## Registration Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
<td>3:00 pm–7:00 pm</td>
<td>Clayton Hall Conference Center</td>
<td>* If you are lost or cannot find the location for dorm check-in, please call: Christina Commons Registration Desk 1-302-831-1245</td>
</tr>
<tr>
<td>Monday</td>
<td>7:30 am–5:00 pm</td>
<td>*</td>
<td>Bob Bauer, EAS President 1 (302) 824 - 9090</td>
</tr>
<tr>
<td>Tuesday</td>
<td>7:30 am–5:00 pm</td>
<td>*</td>
<td>Dorm check in is open until 1:00 a.m. After hours call 1-302-831-1245</td>
</tr>
<tr>
<td>Wednesday</td>
<td>7:30 am–5:00 pm</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>7:30 am–3:00 pm</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td>7:30 am–NOON</td>
<td>*</td>
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## Master Beekeeper Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meet and Greet Candidates</td>
<td>Monday</td>
<td>1:30 pm–2:30 pm</td>
<td>Clayton Commons</td>
<td></td>
</tr>
<tr>
<td>Pre-Exam Q&amp;A</td>
<td>Monday</td>
<td>2:30 pm–3:00 pm</td>
<td>Clayton Commons</td>
<td></td>
</tr>
<tr>
<td>Volunteer Dinner</td>
<td>Monday</td>
<td>5:00 pm–7:00 pm</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>Written Exam</td>
<td>Tuesday</td>
<td>8:30 am–12:30 pm</td>
<td>Townsend Hall</td>
<td></td>
</tr>
<tr>
<td>Oral Exam</td>
<td>Tuesday</td>
<td>8:30 am–5:00 pm</td>
<td>Townsend Hall</td>
<td></td>
</tr>
<tr>
<td>Lab Exam</td>
<td>Wednesday</td>
<td>8:30 am–12:30 pm</td>
<td>Townsend Hall</td>
<td></td>
</tr>
<tr>
<td>Field Exam</td>
<td>Wednesday</td>
<td>10:00 am–4:30 pm</td>
<td>Farm Apiary</td>
<td></td>
</tr>
<tr>
<td>Annual Meeting</td>
<td>Friday</td>
<td>7:30–8:30 am</td>
<td>Pencader Cafeteria</td>
<td></td>
</tr>
<tr>
<td>Exam Review</td>
<td>Friday</td>
<td>2:30–4:30 pm</td>
<td>110 Clayton Hall</td>
<td></td>
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<tr>
<td>(Candidates receive scores and get questions answered.)</td>
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<td></td>
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## Society Meeting Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS Board of Directors' Meeting</td>
<td>Sunday</td>
<td>5:00-7:00 pm</td>
<td>Clayton Hall Lobby</td>
<td></td>
</tr>
<tr>
<td>EAS Annual Meeting</td>
<td>Friday</td>
<td>11:00 am–noon</td>
<td>Clayton Hall Auditorium</td>
<td></td>
</tr>
<tr>
<td>Everyone is encouraged to attend.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Life Members Banquet</td>
<td>Thursday</td>
<td>12:00–1:30 pm</td>
<td>215 Pencader</td>
<td></td>
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<tr>
<td>(Bring your cafeteria lunch.)</td>
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## Annual Honey Show Schedule

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<th>Event</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop Off Show Entries</td>
<td>Tuesday</td>
<td>3:00-6:00 pm</td>
<td>(Banquet Hall)</td>
<td></td>
</tr>
<tr>
<td>Tuesday 3:00-6:00 pm &amp; Wednesday 8:00-11:00am</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Top Awards Presentation</td>
<td></td>
<td></td>
<td>(Clayton Hall 119)</td>
<td></td>
</tr>
<tr>
<td>Thursday Evening, Dinner, Auction, and Honey Show Awards Social</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Show Open to Public</td>
<td></td>
<td></td>
<td>(Clayton Hall 119)</td>
<td></td>
</tr>
<tr>
<td>Honey Show Pick Up of Entries</td>
<td></td>
<td></td>
<td>(Clayton Hall 119)</td>
<td></td>
</tr>
<tr>
<td>Thursday 8:00am-5:00 pm &amp; Friday 8:00 am-3:00 pm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday 3:00-5:00 pm</td>
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SPONSORS OF THE 2017 EAS CONFERENCE

QUEEN LEVEL
John Baker
Robert Bauer
   The EAS Virginia 2018 team has been nipping at my heels all year long. Their journey starts Aug 4 2017 9Pm EDT. My Holiday starts. Bring a pickup. Love you.
Denise Bridgens
   Thank you, EAS, for all the wonderful work you do!
Jeffrey Burd
   Congratulations to Delaware on a fantastic EAS!
Chelsea Calabrese
Dewey Caron
   WOW what a fast year - trust bees are doing OK
Andrew Dewey
James Fraser
   No better place to bee!
Amy Gilley
Amy Hopkins
Edward Karle
   Congratulations to all attendees, great to meet many of you again and all new ones!
Timothy Mc Mahon
Linda Mizer
   While strength does come with numbers, it is the efforts of individuals that move the bee community forward!
Rich Morris
   Every Hive Counts!
Eloise Naylor
Tamara Horn Potter
Dorinda and David Priebe, EAS Master Beekeepers NH
   Our deep appreciation to all the EAS leadership, generous vendors and dedicated volunteers who create an incredible educational experience year after year.
Nathan Reid
   Barkman Apiaries is thrilled to be at EAS 17. We look forward to meeting all the amazing people who make this conference possible.
Stephen Repasky
Robert Sears
James Tew
George H. Wilson III and Karla Eisen
   In tribute to those who came before us.
Christopher Yates
   Thank you Delaware for a great conference.

WORKER LEVEL
Julie Akers
Christine Anninos
Ann Breinig
Dean Burroughs
Jeffrey Cheskin
   Liquid Alchemy is proud to represent Delaware and the Mid-Atlantic region at 2017 EAS and look forward to a entertaining and educational (and tastey) lecture on Wednesday.
Linda Cortiñas
Carol Cottrill
John Gaut
Samuel Hall
Faith Kuehn
Cheri Martinez
Carl Roberts
   Be nice, Pete.
Eric Ullom
Bob Wellemeyer

DRONE LEVEL
Alexandra Bartsch
Janet Brisson
   Like Food? Get Bees!
Janet Brisson at Country Rubes
Kathleen Evans
Maryann Frazier
Janice Girard
Carol Hoffman
   You helped us help so many. Thank You The Hoffmans
Lorraine Leacock
   Lorraine@BluePointBee.com and The Beetique start-up wishes everyone an enjoyable and educational conference!
Lika Levi
Christopher Lewis
David Meldrum
   Contributing to my education every year.
by Dewey M. Caron, EAS Advisor

The EAS Master Beekeeper (MB) program is a significant part of our Annual Conference. EAS MBers are frequently featured on the EAS Short Course and Conference program and most are mentors — actively training beekeepers in their local, regional and state bee organizations. Many become or have been (or may be in the future) officers/leaders in their local/state beekeeping organizations. Look for and say hello to those sporting MB ribbons at this conference.

The EAS MB certification was designed to certify MASTERS in bee culture who wished to train others. The certification consists of qualified individuals being nominated to take exams to “test”/certify individuals who can demonstrate basic and applied bee knowledge at the equivalent level of a University course and the ability to open and manipulate bee colonies at a comfortable, experienced, practiced level. Additional testing of laboratory expertise with bees, their products and bee equipment and an oral exam to assess ability to pass bee information along to general audiences, have been added. Currently there are 4 “tests” to pass at and “A/B” grade level to be certified.

The EAS MB model (an Americanized certification based on a program in the United Kingdom) was “tested” at Cornell in 1978 and 1979, and, following the reinstatement of the EAS Short Course in 1980, first offered at the 1981 EAS at Rutgers with 8 of 16 candidates being certified. The Short Course was originally considered as educational instruction to assist in “review” for individuals taking the certification tests. Although it is no longer primarily used as a review, it still helps individuals update bee biology/beekeeping before taking the MB tests.

The certification process is a grueling two days, currently Tuesday and Wednesday, of 4 exams. The written and oral exams are the toughest to pass and annually less than 50% of those taking the test pass. Field and Lab tests are “easier” but not automatic passes. Those who pass some but not all 4 tests can return within a 5-year time period to retake ONLY the test(s) not passed the first time. In 2017, all the tests are at a south campus, Townsend Hall, with the field exam in the UD apiary. New MB will be introduced at the banquet Friday evening.

See the EAS website for more information on the EAS MB program. There is a listing of the currently certified Master beekeepers. The registration has closed for this year’s testing program. You are not likely to see much of the candidates or those EAS MBers involved in the testing program on Tuesday or Wednesday which is a significant endeavor involving over a dozen MBers each conference. Be sure to involve the newest, as well as our veteran MBers, in your personal beekeeping (as a mentor perhaps) and especially plan to use an EAS MB in your local/state bee club training program(s) and in outreach activities for your neighbors/potential new beekeepers.
KEYNOTE SPEAKERS

Wednesday Keynote Speakers

Jennifer Berry

Jennifer Berry – For over 17 years Jennifer’s been the Lab Manager and Apicultural Research Professional for the University of Georgia Honey Bee Program. In the past she was a frequent contributor (and president in 2006) to the EAS programs. Most recently she offered a queen rearing short course at the 2014 Kentucky EAS. Jennifer’s research objectives have focused on keeping bees alive, the sub-lethal effects of pesticides on beneficial insects and IPm techniques for varroa and small hive beetle control. Her extension duties include teaching beekeeping to people from all walks of life by offering bee courses in Central and South America, along with those imprisoned in Georgia’s maximum security prisons. Jennifer is also passionate about educating the public about the importance of beneficial insects and pollinators. She is a regular columnist for Bee Culture magazine, a mainstay of the Georgia Master Beekeeper program and an advisor for Graduate students studying entomology at UGA. On nights and weekends, she operates Honey Pond Farm, a honey bee venture that sells quality nucleus colonies while teaching how to raise superior queens at her farm in Georgia. At EAS 2017, in addition to her Keynote address Keeping Bees Alive, she will offer a workshop on Raising Healthy Queens on Thursday afternoon.

Jay Evans

Since joining the USDA-ARS Bee Research Laboratory as a Research Entomologist in 1998, Dr. Evans’ 140 research publications have focused on threats to honey bee health, from bacteria to mites, and on the ways bees and beekeepers can reduce these threats. He was an early proponent of the Honey Bee Genome Project and helped recruit and lead scientists interested in applied genomics for bees. Current projects involve searching for novel parasite and pathogen controls, improving bee immunity, and reducing the combined impacts of pesticides and disease. He has received the James Hambleton Bee Research Award from the Eastern Apicultural Society (2011) and the BA Early Career Scientist Award (2002). He serves on the Council of Fellows for the International Bee Research Association, and is an editor for several scientific journals. He holds an AB in Biology from Princeton and a PhD in Biology from the University of Utah.

He has served as Research Leader for the BRL since October, 2015.
Thursday Keynote Speakers

**MICHAEL PALMER**

Mike lives in St. Albans, Vermont with his wife Lesley, a cow named Meat, and Wilson, their Maremma Sheepdog. He is a transplant from New York City, attending UVM and falling in love with the Vermont lifestyle. Michael’s first colonies of honey bees were package bees, and over the following twenty odd years, he built French Hill Apiaries into a farm of nearly a thousand colonies. Mite arrival in the 1990’s changed his beekeeping and like for everyone else, beekeeping became more difficult and expensive. In 1998, Mike tried raising a few queens, wintering them in nucleus colonies. The results changed his beekeeping forever. Believing that quality should always trump quantity, a decision was made to cut back on the total number of production colonies in the apiary, and focus on raising the best queens possible. He will use this experience in his keynote address, catching us up to his present beekeeping with Sustainable/seasonal Bee Management and Workshop Queen Rearing in a Sustainable Apiary. When not in his honey production colonies (where he focus on golden cut comb honey, or spending countless hours in the queen rearing apiaries, Mike travels the world teaching sustainable beekeeping to attentive audiences.

**THOMAS D. SEELEY**

Tom is both an accomplished biologist and writer. He currently is a Professor in the Department of Neurobiology and Behavior at Cornell University. He teaches courses on animal behavior and does research on the behavior, social life, and ecology of honey bees. Tom is also an avid beekeeper initially becoming a beekeeper while a high school student, when he shook a swarm into a box and brought it home. Among many awards and recognitions, Tom was the EAS James I Hambleton Award recipient in 1994. His scientific work is summarized in four books: Honeybee Ecology (1985), The Wisdom of the Hive (1995), Honeybee Democracy (2010), and Following the Wild Bees (2016). Tom will give what is sure to be a highlight lecture Darwinian Beekeeping, a topic he is currently working into a new book, and he will lead a workshop later on Thursday on Bee Hunting (aka Bee Lining), the topic of his most recent book. Tom will also be at the author signing table on Thursday to autograph your personal copies of his books (including the highly quoted and readable Honeybee Democracy). If you don’t have a copy for him to sign yet, Tom’s books and those of other EAS authors can be purchased at vendor booths at our conference.
FAITH B. KUEHN, RON HAZLET AND RAY WALKER

Faith is Environmental Program Administrator of the Delaware Department of Agriculture’s Plant Industries. Specific program responsibilities include nursery, apiary, noxious weeds, and invasive species. In 2006, the Department received a Sustainable Agriculture Research and Education grant to catalog native bees in Delaware’s vegetable production areas, and work with farmers to establish bee conservation practices on their farms. She will discuss the outcomes of this project during the Short Course Farming Native Bees. In 2010, Faith began a new project to develop a Community and Therapy gardens at the State’s Holloway Campus and Delaware Psychiatric Center. This project has grown to become Planting Hope Urban Farm, with a Campus Market, CSA, and Planting Hope Apiary. It also has incorporated a Veterans Planting Hope project, whereby a service veteran is given training in beekeeping using the Project Hope apiary. Faith and the first veteran so honored Marine Ron Hazlett will be joined by a newest veteran selection and project Mentor Ray Miller for the Keynote address.

Faith has also helped develop and implement Delaware’s Pollinator Protection Plan (MP2). Chris Wade and Laura Mensch will talk about this plan on Friday afternoon. Faith represents Delaware on the National Plant Board and was host for their national meeting recently in Delaware.

Faith received a Ph.D. in Entomology from the University of Arizona in 1984, and an M.B.A from the University of Delaware in 1994. Before coming to the Delaware Department of Agriculture, Faith worked as Museum Director for the Insectarium in Philadelphia and prior to that in Research, Development, Marketing, and Technical Support positions within E.I. DuPont de Nemours & Co.’s Crop Protection Division.

One of Faith’s consuming interests, in her spare time, is exploring connections between art and the science of insect life. This involves investigating art that reflects the structure, function and cultural connections of insects, with a special emphasis on insect jewelry. If you have this interest catch Faith in the commons or between her talks – she will love to talk with you about your common interests.
MARLA SPIVAK

Marla is currently MacArthur Fellow and McKnight Distinguished Professor in Entomology at the University of Minnesota. She did her undergraduate degree at Humboldt in CA and her PhD at University of Kansas, one of many students of Orley (Chip) Taylor, who went on to become distinguished bee scientists after their degrees studies investigating the biology and impact of Africanized bees in the Americas. Marla did her thesis work in Costa Rica investigating the intrusion of Africanized bee genetic material into European bee populations at various elevations. EAS awarded Marla with our James I. Hambleton Research award in 2003. She is a Distinguished Alumni awardee from both her alma maters and several University awards for mentoring and Special Merit.

Marla teaches campus courses on Honey Bees and Insect Societies, Bee Management and Pollinator Protection in Managed Landscapes and as outreach Beekeeping in Northern Climates, Successful Queen Rearing Short courses, and an online course Healthy Bees.

The research efforts of Marla focus on breeding bees for their natural defenses against diseases and parasites, and on propagating floral rich and pesticide-free landscapes to support the nutrition, health and diversity of all bee pollinators. For her keynote address Marla will discuss Building a Better Future for Bees. The Minnesota website lists these 6 current projects that Marla is leading graduate students in their research projects: benefits of propolis (tree resins) to the health and immunity system of honey bees, identification and biological activity of honey bee collected resins, development of “bee-lawns” – pollinator habitat in urban landscapes; use of native forbs by honey bees through identification of collected pollen and decoding bees’ dance language; the health of commercial honey bee colonies and the evaluation of queen breeders efforts to select stocks for resistance to diseases and mite pests; novel methods to control Varroa mites in honey bee colonies; and surveys of native bees in MN Marla will also present a workshop on Thursday on her innovative and interesting work with Urban Bee Consultants.
The 2017 winner of the Roger A. Morse Outstanding Teaching/Extension Service/Regulatory Award supported by Anita Weiss Foundation from the Eastern Apicultural Society of North America is Paul Kelly. Paul is Lead Technician, University of Guelph Honey Bee Research Centre.

Paul is the second recent winner from Ontario; Doug McRory the Ontario Provincial Apiarist was our 2012 winner and the 4th Canadian recipient (Medhat Nasr was the 2015 winner and Don Dixon, Manitoba Provincial apiarist was the 2004 recipient). Paul was nominated by the Ontario Beekeepers Association with past Guelph student Heather Mattila and present Honey Bee research professor Ernest Guzman, our two most recent Hambleton award winners.

Among Paul’s many duties are care of the 250+ University colonies, coordinator of the student and faculty research projects, extension activities with Ontario, Canadian and US beekeepers, coordination of the practical beekeeping course, providing tours and demonstrations of the Honey Bee research Centre (he was most instrumental in the 2015 EAS conference at Guelph and was great a resource for our Master Beekeeping testing and our bee examination workshops), assisting the student apiculture club, and development of outreach publications such as educational pamphlets, videos and other publications. One special program Paul is managing is the Ontario Buckfast breeding program through selecting and raising queens mated in isolation. Paul has also managed his own bees since 1981.

Ernesto called Paul “very knowledgeable...able to explain scientific beekeeping advancement in a practical way. His approach to teaching and technology transfers is such that trainees become highly motivated. Beekeepers refer to Paul for practical beekeeping advice.” The Ontario Beekeepers Association nomination spoke in detail how Paul is most deserving of all three components of the Morse award. They also pointed out his exceptional service to the 2015 Guelph EAS “his work contributing to the organization of the EAS, his interactions with beekeepers at workshops and the network of current and past researchers presenting who had worked with Paul — in many ways the success of the meeting was an important reminder that research technicians play such a key role in the success of beekeeping.”

Heather Mattila, who started as a student volunteer in 1994 with Paul as an undergraduate student at Guelph said “one of my greatest disappointments about leaving Guelph (after finishing her PHD in 2005) was that I would no longer get to work with Paul on a daily basis.” In her gracious comments of the many aspects of beekeeping she learned directly from Paul, she also writes “In addition to his deep knowledge of honey bees and bee research, and his bountiful energy and patience for sharing his understanding of bees with others, Paul is just a wonderful human being. His kind nature and winning social graces make him a magnet – people love to learn from him and one never feels that they are imposing on him in the process of borrowing his expertise.”

It is a pleasure to honor Paul with the Roger Morse award this year and to get to share his talents and expertise again at an EAS conference. Paul will be on our 2017 program Wednesday afternoon. His first talk title will be Buckfast Bee Breeding and Queen Rearing – Why We Keep Bees on Islands and he provides a workshop on Tips, Tricks and Tools for the Bee Yard on Thursday afternoon.
The James I. Hambleton Memorial Award was established by the Eastern Apicultural Society of North America to recognize research excellence in apiculture. Our 2017 awardee is Ramesh Sagili. Dr. Sagili is a honey bee research and extension faculty member in the Department of Horticulture at Oregon State University.

Ramesh earned both a B.S. and M.S. in Agriculture at Andhra Pradesh Agricultural University, India, in 1994 and 1998 respectively. Ramesh obtained his PhD in Entomology from Texas A&M University in 2007. After his PhD he continued his research at Texas A&M as a post-doctoral researcher until March 2009. He joined Oregon State University in 2009, initially as a non-tenured Assistant Research Professor. In 2011 after a national search, he was appointed as tenure-track Assistant Professor. Ramesh was promoted to Associate Professor this spring.

His primary research focus at Oregon State University is honey bee health, nutrition and pollination. His appointment also includes extension and hence he works closely with both beekeeper and producer stakeholders. He initiated the creation of Oregon Master Beekeeper Program in 2010 and chaired the Oregon Governor's Task Force on Pollinator Health in 2014. He has coordinated the Pacific Northwest (PNW) Honey Bee Tech transfer team in collaboration with the Bee Informed Partnership.

His research program addresses both basic and applied questions towards improvement of honey bee health and nutrition. The majority of his research projects are collaborative efforts involving stakeholders (beekeepers and growers). After initiating his research and extension program from scratch Ramesh has strived to develop a dynamic and vibrant honey bee program at OSU by securing more than $2.5 million in funding from diverse sources such as USDA, Western SARE, Oregon Department of Agriculture, National Honey Board, Almond Board of California, Central Oregon Seeds Inc., GloryBee Foods, Oregon State Beekeepers Association and several Oregon regional beekeeper associations.

Ramesh has authored over 25 peer-reviewed papers and a large number of Oregon and PNW extension publications, including the popular extension publication PNW 591 (and app) “How to reduce bee poisoning from pesticides” that is being used by many beekeepers, growers and pesticide consultants/applicators in the country. He was recognized last year by his college with the Outstanding Young Faculty Award and with OSU Extension Association Award for excellence in extension. The OSU Master Beekeeper Program was also awarded the OSUEA Search for Excellence Award in 2015. This past spring the Pacific Branch of the Entomological Society of America also recognized his research excellence with their award in Physiology, Biochemistry and Toxicology.

Ramesh's Hambleton award nomination was supported by Steve Sheppard of WSU (who was the 1997 EAS Hambleton Award winner recognized at UD EAS), and Marla Spivak another Hambleton Award winner. Ramesh will give a keynote address on Wednesday morning on his varroa research and a workshop Wednesday afternoon on bee nutrition at our conference.
The 2017 EAS Student award winner is Michael L. Smith. Michael is a PhD student at Cornell University under Tom Seeley; both Tom and Michael will be on the 2017 EAS program. His recommendation for our student award was supported by Heather Mattila, our 2016 EAS Hambleton Award winner. He is only the second Cornell student to be recognized by EAS (as student winner) of 31 total (Gene Robinson was the first Cornell student awarded the student award 32 years earlier).

Michael was initially introduced to honey bees after a chance encounter with a Welsh Beekeeper at Atlantic College in 2005. He then went on to complete his undergraduate degree at Princeton. His introduction to honey bee research began with Heather Mattila, at Wellesley College, where he worked summers as a research assistant. During his Cornell PhD, he has been supported by a National Science Foundation Graduate Research Fellowship, and a National Science Foundation Doctoral Dissertation Improvement grant.

Michael’s dissertation research project is an ambitious one. He is asking “How does a bee colony adjust investments into colony survival, growth, and reproduction, given its present condition and environmental state?” While new colonies concentrate on survival and growth, by building worker comb, rearing worker brood, and accumulating food reserves, colonies eventually invest also in reproduction (i.e. rear drones, and cast swarms). How do colonies make this switch from investing in growth and survival, to investing also in reproduction? This switch is akin to puberty in humans, but with bees it is at the colony level.

Building drone comb is the very first sign that a colony is prepared to invest in reproduction, so Michael has researched how does a colony know that it can “afford” to rear drones? Michael’s work (already published in Experimental Biology http://jeb.biologists.org/content/220/9/1597 has demonstrated that the number of workers in the colony is a key factor, and that the density of workers is an important cue of colony size.

Dr. Seeley calls Michael’s “investigations ...beautiful examples of experimental analyses conducted at the colony level” that he has sought to determine how bees detect their colony’s size. Heather speaks of Michael as “truly devoted to honey bees, both as a researcher trying to understand life inside a colony and as a beekeeper who relishes communicating his discoveries to other like-minded individuals.”

Michael has also published significant additional research during his time as a PhD student at Cornell. He has described how varroa mites can move from flowers to foraging honey bees, the water collection stimuli and storage in colonies, studies that crowding of hives in apiaries can lead to heavier mite infestation levels, how Nosema is transmitted via honey bee food exchange, and he described how the painfulness of honey bee stings varies by body location (for which he received the IG Nobel Prize honoring research that makes people laugh and then makes them think.)

Michael, in addition to the National Science Foundation support and the IG Nobel Prize in Physiology & Entomology (2015), garnered the first prize graduate student award for his presentation at the International Congress of Entomology (2016).

In addition to his research, Michael teaches a honey bee section for the summer program of the Cornell Institute for...
Biology Teachers, and also a honey bee section for the Conservation Medicine Summer Course. During the school year, he has taught a section on Animal Behavior, and taught for the Writing in the Majors program. He has taken on undergraduates as summer assistants, and includes their contributions on the resulting publications. He has, in addition to 14 peer-reviewed publications, published articles about his studies in Bee Culture and American Bee Journal and has been active in helping Universities organize beekeeping clubs for students (Atlantic College, Princeton University, Cornell University).

Michael will give two presentations. He will discuss his major PhD research on Thursday *How Does a Bee Detect Her Colony’s Size?* and a workshop on Friday afternoon on *How Colonies Manage Their Drone Comb*. The accompanying photo of Michael show both wild and managed comb construction. His research has been a bridge between the two worlds of the honey bee.

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2017 EAS CONFERENCE

WELCOME TO UNIVERSITY OF DELAWARE AND NEWARK
YOU’VE FOUND THE BEES IN NEWARK!

Welcome – we are happy to have you in Newark at UD for the 2017 EAS Conference.

The EAS 2017 program is packed full of interesting speakers and topics. We have scheduled social activities each evening to keep you occupied. Of course each attendee is an expert in bees in some way so we hope you take the opportunity to meet and greet not only our speakers but each other. Be sure to visit the vendors and look at the honey show entries (Thursday and Friday until 3Pm). Peter Lindner will have his photographs on display at the Lobby.

If you want to wander from Clayton/Pencader, there is plenty to do in the area. You should visit Main St – it is typical of a College town with lots of interesting stores to visit, a wide variety of places to snack or eat and an abundance of “wildlife” to see (nighttime brings out some of the “best”). You can walk easily to Main St – follow the walkway behind the dorms to the south (right) from the Pencader exit onto the dorm green then to the walk.

The University is mostly closed as summer school ends and sports academies wind down. Two world-class museums, the Old College Gallery and the Mineralogical Museum, will unfortunately be closed during our EAS. The DE Art museum in nearby Wilmington is worth the trip, but is closed Monday and Tuesday. The University green, from Main St south to Memorial Hall and then beyond is well worth the stroll. You will find the Library to your right. For a relaxing hike try the White Clay Creek or Mt Cuba Preserves (tickets for our Wednesday tour are sold out, but check at registration desk in case there is a last minute cancellation).

If you have transportation, there are some first-rate places to visit in a morning or afternoon break from the Conference. Stop by the Information desk and get a brochure and information about possibly visiting Longwood Gardens, Kennett square, PA, the Hagley Museum (original Dupont gunpowder site), Wilmington, DE), Winterthur Museum (a mansion of American rooms), Winterthur, DE, and if you do not get on the tour, the Nemours Mansion and Gardens (check at desk to see if tickets are still available for our Thursday guided tour).

If there are youngsters, consider The Zoo in Wilmington, It has an Observation hive, courtesy of the DBA and Ray Walker. Relive colonial history in New Castle, DE or take a short boat trip to Fort Delaware, a Civil War era fort in Delaware Bay. A drive to Lancaster County, PA to visit the Amish area is a pleasant side trip. Go north along Rt 896 until you reach Rt 30 (then after stopping at the outlets) return by any of the “backroads” to Route 1, then back to Kennett Square and Newark on 896.

Philadelphia is less than an hour away. You can take the SEPTA train from Newark (it has frequent stops) or even Amtrak (but service is limited). It is just over an hour away to see the Baltimore Aquarium and downtown sights. Orioles play in Camden Park adjacent to downtown (Royals and Tigers in town) and Phillies in Citizens Bank Park (Monday night Braves only). Wilmington Blue Rocks (Carolina League), are home to Buies Creek and Frederick - the park is conveniently located along I 95 in Wilmington.
Apiculture, the study and practice of beekeeping, has had a long history at the University of Delaware. The UD apiary was first established in 1949 by Dr. Dale Bray behind Townsend Hall, South campus, on the Newark teaching/research farm. Today the UD apiary is used for research, teaching and extension purposes, and hosts outreach events for Master Gardeners, the Delaware Beekeepers Association, local garden clubs and other organizations.

The apiary is self-supported by the honey the bees diligently make every season, which is sold at the UDairy Creamery and vended as "Dare to Bee" honey. The bees forage for floral resources such as black locust, clover, tulip poplar, along with a wide variety of other wild flowers. There often is a summer dearth in June and July before August when goldenrod, aster and many non-native floral sources such as knotweeds, Spanish needle and Joe-Pye weed begin flowering. These nectars, and the resulting honey, tend to be much darker in color and have a rich flavor.

Dr. Chuck Mason first taught Beekeeping as a UD course in 1978. Dr. Dewey Caron taught and did honey bee research and extension from 1981 until retirement in 2009. Currently, Associate Professor Dr Debbie Delaney, heads the honey bee teaching, extension and research effort.

The Apiculture Program’s main goal is to provide hands-on experience centered on the amazing honey bee and other native pollinators. Equally important is the desire to share the unique life history, biology and ecology of the honey bee with students and future and current beekeepers.

The UD Apiculture Program also shares a unique role with other Universities and Beekeeping Associations in the Mid-Atlantic region. A regional consortium, Mid-Atlantic Apiculture Research and Extension Consortium MAAREC, established in 2005, is provided to the 6-state area beekeepers and general public with information on Best Management Practices and tools to enhance honey production and bee stewardship. Dr Delaney currently oversees this consortium effort.

UD Apiculture program, in conjunction with Delaware Beekeepers Association and Delaware State University, provides workshops and short courses throughout the year that range from beginner beekeeping to intermediate and advance topics in beekeeping. These courses are designed to equip and update beekeepers and growers on proper management and new technology in the field. Listings of courses and workshops can be found on the Delaware Beekeepers Association website (http://www.delawarebeekeepers.com). IN April, Ag Day, an annual gathering around Townsend hall organized and featuring College of Ag students, includes live bees and beekeeping information.

Research at UD covers a wide number of topics from risk management for honey producers to evolutionary biology and population genetics of U.S. Honey Bees. Specific projects utilizing citizen science based approaches. EAS 2017 will feature many of these on-going studies and the students involved in the program will be active participants.

This will be the 4th time EAS has visited Delaware – the last time was 10 years ago in 2007. There is an abbreviated History of DE Beekeepers association on the Delaware Beekeepers website http://www.delawarebeekeepers.com/history.html and a feature on beekeeping in Delaware, 2nd smallest US State (DE the small Wonder, The Frist State) is still BIG on beekeeping. See the EAS website for this information. http://www.easternapiculture.org/images/stories/extentions/BeekeepingAtUofDel.pdf

2017 Dr Debbie Delaney & Dewey Caron
VOICES of Bee Culture
The Magazine Of American Beekeeping

COME HEAR THE VOICES OF BEE CULTURE SPEAKING THE WAY THEY WRITE

ANN HARMAN – Cooking with honey and being a better beekeeper
CLARENCE COLLISON – The science of honey bees
TONI BURNHAM – Urban bees and beekeeping
KIM LEHMAN – Kids and bees
ED COLBY – Tales from Colorado
JAY EVANS – Found in Translation
PHIL CRAFT – Ask a Q, he’ll have an A
LARRY CONNOR – Bee biology and more

JESSICA LOUQUE – Honey bee research, in person
KIM FLOTTUM – Herding cats
KATHY SUMMERS – Keeping it all on time
NOT IN PERSON, BUT FROM THE MAGIC OF TECHNOLOGY...
JIM TEW – Beeyard thoughts from Ohio and Alabama
JENNIFER BERRY – Raising queens and cane
ROSS CONRAD – From Vermont, Naturally

PLUS –
All day Friday, Root Candles Factory Tours so come early and see that show.

SIGN UP ON REGISTRATION FORM

Friday, September 22:
Tours all day 10AM – 4PM, then, 5PM – 7PM meet the speakers, social hour up close and personal.

Saturday, September 23:
8:30 – 4:30, speakers all day, bring your camera and notebook, a Wonderful lunch included, plus live demos, and weather permitting, be in the beeyard with Bee Culture’s beekeepers (bring your veil)

Sunday, September 24:
8:30 – 4:30, speakers all day, bring your camera and notebook, a Wonderful lunch included, plus live demos, and weather permitting, be in the beeyard with Bee Culture’s beekeepers (bring your veil).

Schedule details, updates and information on our web page and in the next issue.

HOTEL ACCOMMODATIONS:
Holiday Inn Akron West: 4073 Medina Road, Akron OH, p: 330.666.4131
Hilton: 3180 W. Market St., Akron OH, p: 330.867.5000
Hampton Inn: 3073 Eastpointe Dr., Medina, OH, p: 330.721.9855
Spitzer House B&B: 504 W. Liberty St., Medina, OH, p: 330.952.2129
Super 8 Motel: 5161 Montville Dr., Medina, OH, p: 330.723.8118
Quality Inn: 1435 S. Carpenter, Brunswick, OH p: 330.225.1112

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REGISTRATION
checking in for Dorm housing is at the front desk in the Christiana Commons building (purple bldg. on the map). The
desk is staffed between the hours of 6am to 1am. Check in is at 3pm and check out is at 11am. If you are running late
and need to contact the front desk their phone number is 302-831-1245, after 1am the call will forward to the on-call
Building Manager.

MEALS & MORE
Our conference center has a University cafeteria upstairs from the workshop rooms. Breakfast, lunch and evenings
meals will be available Monday through Friday. The cafeteria has food stations (sandwich makings, pizza, salads, hot
items etc). You can eat as little or as much as you like. Our morning and afternoon snacks will not have much food
included as offerings. You will be given a magnetic card that will have your selections loaded in advance. We anticipate
the waiting times will be less than a few minutes. There is handicap access.

If you registered as walk-in there will be some cafeteria meals still available for purchase. For those who pre-registered
there may be some cafeteria meals still available for purchase. Check with the registration desk. Since magnetic cards
are pre-loaded, we have limited ability to reimburse meal purchases (due to our having to guarantee numbers) but
check with registration desk just in case. Maybe we can facilitate a trade if you need to make a change.

The University does not permit food carts. If not eating in the cafeteria, or as an alternative, we recommend you walk
to Main Street. We have an hour and half break for lunch and there is time before the evening events to allow you to
get there, eat and get back in time. They have wide food offering possibilities from typical student foods (pizza, burgers,
bagels) to relaxed family dining places and even gourmet dining. It is a short 5-10 minute walk from the dorms over. You
will not have to contend with traffic along most of the mostly shaded walk. Main Street Newark is NOT to be missed
in your EAS trip. To eat or to join the nighttime ‘wildlife’ cruisin’ the ‘drag’. On Main Street, check out the honest-to-
goodness ‘5 and dime’! Great site for inexpensive UD souvenirs.

THURSDAY EVENING
Our Thursday evening meal event is a buffet in Clayton 101. There will be a cash bar (alcoholic and non-alcoholic
beverages) open prior to the meal and continuing into the evening activity. The meal will be followed by announcement
of honey show winners and an auction in the commons area of Clayton. You do not need to attend the meal to join the
auction or show awards ceremony. The meal had to be purchased in advance. If you didn’t sign up with registration
or are a walk-in registrant, there will be a limited number of buffet tickets available. Check with registration desk if you
would like to join the meal.

The auction is both fun and vital as a way for us to cover some of the costs of our conference. We are seeking to have
unusual and unique items for your bidding pleasure. A highlight will be our Delaware Secretary of Agriculture, a real-life
auctioneer (of DE produce). Listen for his DE style cadence as he confirms your bid. Be prepared to bid early and often
to insure you get what you want. Bidders will have an assigned number, available at the auction itself. Winning bids will
be keyed to bid numbers. You can pay our EAS treasurer by check, or credit card (and even cash) following the auction
or next day at the registration desk.

There will be a silent auction Thursday as well – it will close following the meal before the honey show announcements
and live auction. If there are sufficient items there will also be a Friday Silent auction. Silent auction items will displayed
in the commons area of Clayton.
FRIDAY EVENING

Our Friday evening meal event is our traditional banquet. You needed to have registered for this in advance – there may be limited tickets available so check with the registration desk if you want to join us. Cash bar will open prior to and stay open during the meal. The meal feature DE pollinated foods. The real treat however is following the meal we will have chance, again this EAS as 10 years ago, to hear ‘words of wisdom and wit’ from the incomparable Jim Tew. We never know what exactly Jim will talk about but we do promise it will be lively, entertaining and bee-related in content, at least until Jim gets off on some tangent (his dog stories, tales of cemeteries, the kids/grandkids who say the darnest things, or some of the mail Jim gets, mostly but not always, related to bees).

The banquet will also honor our newest Life Members, our new Certified EAS Master Beekeepers, a host of other awards and very specially this year a Distinguished Speaker Support Award in honor of Leslie H. Little and in recognition of Tammy Potter, Elaine Holcombe and Clarence Collison. This award was made possible by a generous program support donation from EAS MB Ed Holcomb of Tennessee. Concluding the awards we will have the annual but rarest of events, the passing of the “official” EAS gavel from DE to next year’s host Virginia. President Bob Bauer will then have, we predict, the biggest smile possible as he gets to finally relax after all the work that goes into putting on an annual EAS Conference.

VENDORS

August 1 – 4, 2017

Many thanks to our Vendors - they will be set up from 10:30 a.m. on Tuesday, August 1st – 3:00 p.m. on Friday, August 4th in 101B, 119 and 120 (all in Clayton Hall). Visit any time during the day. Morning and Afternoon Breaks will be hosted in the Vendor Area providing a relaxed time to visit with representatives from vendor companies and check out their products and services!

- Api Holdings
- Bee Craft
- Bee Hive Thermal Industries
- BeeSmart Designs
- Blue Point Bee ~ The Beetique
- BroodMinder
- Brushy Mountain Bee Farm
- Country Rubes & Shastina Millwork Beekeeping Equipment
- Dadant
- Gamber Container
- Gold Star Honeybees
- Hungry Bear Farms
- Kelley Beekeeping
- Mann Lake Ltd.
- Nod Apiary Products Ltd.
- OxaVap
- Pollinator Stewardship Council
- Reid’s Apiary Supply
- Rossman Apiaries Inc.
- Royalty Hives
- Strong Microbials Inc. Triad
- Solutionbee
- The Hive Butler
- Veto-Pharma
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## Short Course Schedule:
### MONDAY, JULY 31

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop Options:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONDAY, JULY 31</td>
<td>BEEGinners Course</td>
</tr>
<tr>
<td>8:30-9:20</td>
<td>Honey Bee Biology</td>
</tr>
<tr>
<td>9:20-9:30</td>
<td>10 Minute Break</td>
</tr>
<tr>
<td>9:30-10:20</td>
<td>Starting your Inspection Outside</td>
</tr>
<tr>
<td>10:20-10:50</td>
<td>30 Minute Break</td>
</tr>
<tr>
<td>11:00 - 11:50</td>
<td>Bee Hives, Bees &amp; Apiaries</td>
</tr>
<tr>
<td>11:50-1:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:30-2:20</td>
<td>Inspecting your Livestock as They Expand with the Season</td>
</tr>
<tr>
<td>2:20-2:30</td>
<td>10 Minute Break</td>
</tr>
<tr>
<td>2:30-3:20</td>
<td>IN THE APIARY</td>
</tr>
<tr>
<td>3:50-5:00</td>
<td>Solving Problems for the New Beekeeper</td>
</tr>
<tr>
<td>4:30- 5:00</td>
<td>Q &amp; A</td>
</tr>
<tr>
<td>7:00-8:30</td>
<td>Tall Tales In The Apiary</td>
</tr>
</tbody>
</table>

### Workshop Options:

#### BEEGinners Course
- **Mike Embrey**
- Organizer
- Pencader 117

#### INTERMEDIATE Course
- **Dave Priebe**
- Organizer
- Auditorium 125

#### Support (nuc) Hives
- **Larry Connor**
- Organizer
- Pencader 115 A

#### Mite sampling & Control
- **Dewey Caron**
- Organizer
- Pencader 115 B

#### ADVANCED Course
- **Dewey Caron**
- Organizer
- Pencader 106

### Courses:
- **Honey Bee Biology**
  - **Brielle Hermstedt**, DE
- **Bringing Hives into Spring**
  - **Frank Licata**, PA.
- **Multiple uses of Nuc Hives**
  - **Larry Connor**, MI
- **Varroa sampling-Basics**
  - **Dewey Caron**, OR
- **Sustainability in Beekeeping**
  - **Paul Dill**, DE
- **Starting your Inspection Outside**
  - **Lindsay Barranco**, MD
- **Reducing Pesticide Dependence**
  - **Jon Zawislak**, AR.
- **Year-round Nucleus Management**
  - **Ed Karle**, MA
- **Oxalic Acid in Varroa Management Plan**
  - **Steve Repasky**, PA
- **Three Most Essential Inspections - How to Take Needed Action**
  - **David Burns**, IL
- **Bee Hives, Bees & Apiaries**
  - **Mike Embrey**, MD.
- **IN THE APIARY**
  - **with Dave, Frank and Jon**
- **The Urban Nucleus Hive**
  - **Steve Repasky**, PA.
- **Sentinel Apiaries - Real-Time Colony Health Monitoring**
  - **Kelly Kulhanke**, BIP student, MD.
- **Ecosystem Pressure on Bee Colonies**
  - **Dave Priebe**, NH
- **Inspecting your Livestock as They Expand with the Season**
  - **Dean Burroughs**, MD
- **Timing It-Managing Bees for Optimal Health & Honey Production**
  - **Landi Simone**, NJ.
- **Making & Managing Nucs IN THE APIARY**
- **BIP Survey Directs Colony Bee Health Management Decisions**
  - **Nathalie Steinhauer**, BIP student MD.
- **Improving Bee Forage**
  - **Tammy Horn**, KY
- **IN THE APIARY**
  - **Practice with Mike, Dean & others**
- **Integrated Colony Management - the Perpetuality of a Bee Colony**
  - **Dorinda Priebe**, NH.
- **Selling Nucleus Hives**
  - **Steve Repasky**, PA.
- **Chemical-free Using Powdered Sugar, Drone Brood Removal & Natural Foundation**
  - **Janet Brisson**, CA
- **Value of a Monthly Apiary Photo Log – A 2 Year Record**
  - **Ed Karle**, MA
- **Solving Problems for the New Beekeeper**
  - **Keith Tignor**, VA.
- **Essential Late Summer & Fall Nutrition for Winter Survival**
  - **Dave Burns**, IL
- **Year-round Nucleus Hive Managements**
  - **Larry Connor & Ed Karle**
- **Penn State & UD Mite Control Programs**
  - **Katy Ciola**, PA.
- **Role of Microbials in Bee Management**
  - **Earl Hoffman**, MI
- **Mite Sampling & Control demo w/ Steve Repasky**
  - **IN THE APIARY**
- **Q & A**
# Short Course Schedule:

**TUESDAY, AUGUST 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30-7:30</td>
<td><strong>Yoga</strong> on the dorm green (weather permitting) or CLayton Lobby</td>
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<tr>
<td></td>
<td><strong>EAS Master Beekeeping Tests</strong> (AM Written test; AM/Pm oral exam -by appointment) Townsend Hall</td>
<td></td>
</tr>
</tbody>
</table>
| **Workshop Options:** (50 mins) | **BEEGinners Course**  
Pencader 117 | **INTERMEDIATE Course**  
Auditorium 125 (Clayton) | **Native Bees**  
Tm McMahon, Organizer  
Pencader 115 A | **Apiary Inspectors**  
Pencader 115 B | **Microscopy**  
Don Coats, Organizer  
Pencader 106 |
| 8:30-9:20 | **Starting New Colonies**  
Meghan McConnell, DE. | **Varroa Biology & Control**  
Frank Licata, PA. | **How Honey Bees differ from Natives**  
Tim McMahon, MD. | **NC Inspection Practices**  
Don Hopkins, NC. | **Prep Info, Intro to Microscopes**  
Don Coats. |
| 9:20-9:30 | 10 Minute Break                                                          |                  |
| 9:30-10:20| **The Overwintering Challenge**  
David Smith, MD | **Swarm Biology and Behavior**  
Steve Repasky, PA. | **Farming with Native Bees**  
Faith Kuehn, DE | **PA Inspection Services**  
Karen Roccasecca, PA | (Con’t) **Analysis of Pollen - Bring Honey & Blooms** |
| 10:20-10:50 | 30 Minute Break                                                        |                  |
| 11:00 - 11:50 | **IN THE APIARY – Looking at Seasonal Development & Feeding**  
Jon Zawislaw, AR | **Queens & Genes – Bees Adapting to New Situations**  
Jon Zawislaw, AR | **Overview of 800 Eastern Native Bees – Their Relationships with Plants, Habitats & Conservation**  
Sam Droge, MD | **Sampling & Inspection in KY**  
Tammy Horn, KY | (Con’t) **Easy Nosema Spore Counting & Easy Gut Dissections** |
| 11:50-12:30 | **BEE AUTHORS** Autographs in Clayton Hall Lobby                        |                  |
| 12:30-1:30 | Lunch                                                                    |                  |
| 1:30-2:20 | **Keeping Your Colony Healthy & Disease-free**  
Keith Tignor, VA | **IN THE APIARY w/ Bee Wranglers**  
Grace Savoy Burke, DE | **Woodland Bee Project (Wild Bees of Forrest Patches)**  
Cybil Preston, MD | **The MD Inspection Program**  
Meghan McConnell, DE  
DE State Apiarist | (Con’t) **Bee Anatomy Necroscopy - Cell Staining, Cell Pathology** |
| 2:20-2:30 | 10 Minute Break                                                          |                  |
| 2:30-3:20 | **Marketing Honey Locally**  
Dean Burroughs, MD | **Role of Pheromones in Colony**  
Communication Vince Aloyo, PA | **Nutrition – Its About the Numbers**  
Kim Flottum, OH | **DE Apiary Program**  
Meghan McConnell, DE  
DE State Apiarist | (Con’t) **Advanced Topics - Cell Staining, Cell Pathology** |
| 3:20-3:50 | 30 Minute Break                                                          |                  |
| 3:50-4:40 | **Wrap up – What do You Still Need to Know?**  
Mike Embrey, MD | **Creating a Sustainable Apiary Wrap Up**  
Dave Priebes  
Frank Licata, PA | **Transitioning from Hobbyist to Sideline Beekeeping**  
Dean Burroughs, MD | **Inspection Program in VA**  
Keith Tignor, VA | (Con’t) **Advanced Topics - Wrap Up** |
| 4:40- 5:20 | **Making Beeswax Flowers**  
Debbie Delaney, DE |                          |                  |                  |                        |
| 7:30-9:00 | **BEE Jeopardy** w/ Howland Blackiston In Clayton Lobby                  |                  |
| 7:30-11:59 | **Next Generation** with Sarah Laird, Site TBA                          |                  |

Short Course registrants welcomed at Wednesday Conference Program
### Conference Schedule: Follow the Bees to Newark

**WEDNESDAY, AUGUST 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30-7:30</td>
<td>Yoga on the dorm green (weather permitting) or Clayton Lobby</td>
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<tr>
<td>8:30-8:45</td>
<td><strong>Introductions &amp; Welcome</strong> at Clayton Hall Auditorium</td>
<td>Clayton Hall Auditorium</td>
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<tr>
<td>8:45-9:35</td>
<td><strong>Our Expanding Knowledge of Bee Disease</strong>, Keynote Jay Evans, USDA Beltsville, Auditorium</td>
<td>Auditorium</td>
</tr>
<tr>
<td>9:00-12:00</td>
<td><strong>MB EXAMS - AM Lab 9-12; AM to Pm Field Exams - Townsend Hall</strong></td>
<td>Townsend Hall</td>
</tr>
<tr>
<td>9:35-9:40</td>
<td>5 Minute Break</td>
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<tr>
<td>9:40-10:30</td>
<td><strong>Keeping Bees Alive</strong>, Keynote Jennifer Berry, Univ of GA, Auditorium</td>
<td>Auditorium</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>30 minute vendor break</td>
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<tr>
<td>11:00-11:50</td>
<td><strong>Three Decades Post Varroa: Lessons Learned and the Future of Bees.</strong> Ramesh Sogli, J.I. Hambleton Award winner</td>
<td>Auditorium, Auditorium 125</td>
</tr>
<tr>
<td></td>
<td><strong>Latest from our Vendors</strong></td>
<td>Pencader 115 A&amp;B</td>
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<tr>
<td></td>
<td><strong>Bee Photography - a Picture is Worth 1000 Words</strong> Peter Lindtner</td>
<td>Pencader 117</td>
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<tr>
<td></td>
<td><strong>Identifying Honey Bee Pathogens &amp; Pests - A Hands-on Workshop for New &amp; Experienced Beekeepers</strong> Special speaker Bart Smith, MD</td>
<td>Pencader 106</td>
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<tr>
<td>12:00-12:30</td>
<td><strong>BEE AUTHORS Autographs in Clayton Hall Lobby</strong></td>
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<tr>
<td>12:00-1:30</td>
<td>LUNCH</td>
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<tr>
<td>1:00-1:45</td>
<td><strong>Field trip to a Flower Tour</strong> at Mt Cuba with Peter Lindtner</td>
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<tr>
<td>1:30-3:30</td>
<td><strong>Kids ‘n Bees Fly-In Workshop</strong>, Organized by Sarah Red Laird with special need deaf students. How to effectively reach youth -open to all Bee Educators</td>
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</tr>
<tr>
<td>1:30-2:20</td>
<td><strong>Translating Bee Research into Management of Stress &amp; Disease</strong> Jay Evans, MD</td>
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<td></td>
<td><strong>Honey Bee Anatomy</strong> Brielle Hermstedt, DE</td>
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<td></td>
<td><strong>On the Radar – Bee Health, Honey Markets &amp; More</strong> Featured Speaker Kim Flottum, OH</td>
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<td><strong>The NE NJ Mentoring Program - Helping New Beekeepers be Successful</strong> John Gaut, NJ</td>
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<td><strong>Bee Vet</strong> Don Coats, PA</td>
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<td>2:20-2:30</td>
<td>10 Minute Break</td>
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<tr>
<td>2:30-3:20</td>
<td><strong>Buckfast Bee Breeding and Queen Rearing - Why We Keep Bees on Islands</strong> Paul Kelly, ON, Roger Morse Award winner</td>
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<td><strong>Day in the Life of an Apiary Inspector</strong> Cybil Preston, MD</td>
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<td><strong>Beekeeping in the South of Delaware</strong> Ray Banks and Cal Hollis, DE</td>
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<td><strong>A Honey Bee Collective: An Educational Endeavor in Mountains of West Virginia</strong> Debbie Delany, DE</td>
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<td></td>
<td><strong>Small Hive Beetle</strong> Mike Embrey, MD</td>
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<tr>
<td>2:30-5:00</td>
<td><strong>Bee Yard Time with EAS Bee Wranglers:</strong> Don Hopkins &amp; Jen Keller, NC + Bob Mitchell, DE + DE Beekeepers</td>
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</tr>
<tr>
<td>3:20-3:50</td>
<td>30 Minute Break</td>
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<tr>
<td>3:50-5:00</td>
<td><strong>Honey Bee Nutrition - What We Know and Need to Know</strong> Ramesh Sogli, J.I. Hambleton Award winner</td>
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<td></td>
<td><strong>Modern Day Mead Making (Tasting)</strong> Dr. Jeffrey Cheskin, DE</td>
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<td></td>
<td><strong>Beekeeping in Central Jersey – Giving Back on Behalf of the Bees</strong> Jeff Burd, NJ</td>
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<td></td>
<td><strong>The DBA and three DE County Associations</strong> Kathy Hossler, DE</td>
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<td></td>
<td><strong>Lazy Beekeeping - Simplifying the Process Through the Season</strong> Keith Jardine, PA</td>
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<tr>
<td>5:45-9:00</td>
<td><strong>Bus Trip to Alchemy Beverages</strong>, Newark, DE</td>
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<tr>
<td>7:30-9:00</td>
<td><strong>Dancing with the Bees</strong> with Cliff Sunflower</td>
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</tbody>
</table>

Schedule may be subject to minor changes.

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**HONEY SHOW entries (until 10AM Clayton Lobby); HONEY SHOW EXCHANGE entries ALL DAY**

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**Worship Options:**

- **BEE Science and EAS Award Winners**
  - Auditorium
- **Beekeeping**
  - Auditorium 125
- **Getting information to Beekeepers**
  - Pencader 115 A&B
- **Training our Newest (& Veteran) Beekeepers**
  - Pencader 117
- **Sustainability**
  - Pencader 106

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- 11:00 – 11:50
  - Three Decades Post Varroa: Lessons Learned and the Future of Bees. Ramesh Sogli, J.I. Hambleton Award winner
  - Latest from our Vendors
  - Bee Photography - a Picture is Worth 1000 Words Peter Lindtner
  - Identifying Honey Bee Pathogens & Pests - A Hands-on Workshop for New & Experienced Beekeepers Special speaker Bart Smith, MD
  - Women in Apiculture Featured speaker Tammy Horn, KY

- 12:00-12:30
  - BEE AUTHORS Autographs in Clayton Hall Lobby

- 12:00-1:30
  - LUNCH

- 1:00-1:45
  - Field trip to a Flower Tour at Mt Cuba with Peter Lindtner

- 1:30-3:30
  - Kids ‘n Bees Fly-In Workshop, Organized by Sarah Red Laird with special need deaf students. How to effectively reach youth -open to all Bee Educators

- 1:30-2:20
  - Translating Bee Research into Management of Stress & Disease Jay Evans, MD
  - Honey Bee Anatomy Brielle Hermstedt, DE
  - On the Radar – Bee Health, Honey Markets & More Featured Speaker Kim Flottum, OH

- 2:20-2:30
  - 10 Minute Break

- 2:30-3:20
  - Buckfast Bee Breeding and Queen Rearing - Why We Keep Bees on Islands Paul Kelly, ON, Roger Morse Award winner
  - Day in the Life of an Apiary Inspector Cybil Preston, MD
  - Beekeeping in the South of Delaware Ray Banks and Cal Hollis, DE
  - A Honey Bee Collective: An Educational Endeavor in Mountains of West Virginia Debbie Delany, DE
  - Small Hive Beetle Mike Embrey, MD

- 2:30-5:00
  - Bee Yard Time with EAS Bee Wranglers: Don Hopkins & Jen Keller, NC + Bob Mitchell, DE + DE Beekeepers

- 3:20-3:50
  - 30 Minute Break

- 3:50-5:00
  - Honey Bee Nutrition - What We Know and Need to Know Ramesh Sogli, J.I. Hambleton Award winner
  - Modern Day Mead Making (Tasting) Dr. Jeffrey Cheskin, DE
  - Beekeeping in Central Jersey – Giving Back on Behalf of the Bees Jeff Burd, NJ
  - The DBA and three DE County Associations Kathy Hossler, DE
  - Lazy Beekeeping - Simplifying the Process Through the Season Keith Jardine, PA

- 5:45-9:00
  - Bus Trip to Alchemy Beverages, Newark, DE
  - Dinner on Main Street, Newark, DE
  - Dancing with the Bees with Cliff Sunflower
# Conference Schedule

**THURSDAY, AUGUST 3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30-7:30</td>
<td>Yoga on the dorm green (weather permitting) or Clayton Lobby</td>
</tr>
<tr>
<td>8:15-8:25</td>
<td><strong>Introductions</strong> at Clayton Hall Auditorium</td>
</tr>
<tr>
<td>8:25-9:25</td>
<td><strong>Sustainable/Seasonal Bee Management</strong> [Featured speaker Mike Palmer, VT, Auditorium]</td>
</tr>
<tr>
<td>9:25-9:30</td>
<td>5 Minute Break</td>
</tr>
<tr>
<td>9:30-10:30</td>
<td><strong>Darwinian Beekeeping</strong> [Keynote Address Tom Seeley, Cornell University, Auditorium]</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>30 Minute Vendor Break</td>
</tr>
<tr>
<td><strong>Workshop Options:</strong> (50 mins)</td>
<td><strong>Our Award Winners</strong> [Auditorium]</td>
</tr>
<tr>
<td>11:00 – 11:50</td>
<td><strong>Hows Does a Bee Detect Her Colony Size</strong> [Michael Smith, NY EAS Student Award winner]</td>
</tr>
<tr>
<td>12:00-12:30</td>
<td><strong>BEE AUTHORS</strong> Autographs in Clayton Hall Lobby</td>
</tr>
<tr>
<td>12:00-1:30</td>
<td>LUNCH</td>
</tr>
<tr>
<td>1:30-3:30</td>
<td><strong>Kids and Bees “Fly In”</strong> [Sarah Red Laird]</td>
</tr>
<tr>
<td>1:45-6:00</td>
<td><strong>Bus Trip to Nemours Gardens and Mansion</strong>, Peter Lindtner &amp; Ken Darsey, Horticulturist</td>
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<tr>
<td>1:30-2:20</td>
<td><strong>Queens, Queens, Queens</strong> [EAS Roger Morse Awardee (2007) Clarence Collison]</td>
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<td><strong>Supplementing Income with Bees</strong> [Dean Burroughs, MD]</td>
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<td></td>
<td><strong>The Artistry of Producing Quality Comb Honey</strong> [Ben &amp; Kimberly Carpenter, NY]</td>
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<td></td>
<td><strong>Gadgets you Keep Bees Without but Won't Want To</strong> [Allen Hayes, MD]</td>
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<td><strong>Queen Rearing in a Sustainable Apiary</strong> [Michael Palmer VT]</td>
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<tr>
<td>2:20-2:30</td>
<td>10 Minute Break</td>
</tr>
<tr>
<td>2:30-3:20</td>
<td><strong>Tips, Tricks and Tools for the Bee Yard</strong> [Paul Kelly, ON Roger Morse Award Winner 2017]</td>
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<td><strong>Sideline (Small-Scale) Pollination</strong> [Bob Wellemeyer, VA]</td>
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<td></td>
<td><strong>Joy of Making Art with Beeswax - Encaustic Painting</strong> [Ann Breining, NJ]</td>
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<td><strong>Non-Invasive Colony Monitoring Technology</strong> [Ray Walker, DE.]</td>
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<td></td>
<td><strong>Small Sale Nuc Production</strong> [Ken Outten, DE]</td>
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<tr>
<td>3:20-3:50</td>
<td>30 Minute Break</td>
</tr>
<tr>
<td>3:50-5:10</td>
<td><strong>Bee Hunting</strong> [Tom Seeley, NY Past Hambleton Winner]</td>
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<td><strong>EAS MB Program</strong> [Landi Simone]</td>
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<td></td>
<td><strong>The 2017 Honey Show – Points &amp; Pointers</strong> [George Wilson and Carla Eisen, VA]</td>
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<td></td>
<td><strong>Urban Bee Consultants</strong> [Marla Spivak, MN]</td>
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<tr>
<td></td>
<td><strong>What it Takes to Rear Quality Queens</strong> [Jennifer Berry]</td>
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<tr>
<td>All Day</td>
<td><strong>Kids and Bees Beekeeping Academy</strong> with Sarah Red Laird</td>
</tr>
<tr>
<td>Evening</td>
<td><strong>Auction and Announcement of Honey Show Winners</strong></td>
</tr>
</tbody>
</table>

Schedule may be subject to minor changes.
## Conference Schedule

**FRIDAY, AUGUST 4**

<table>
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<th>Time</th>
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</tr>
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<tbody>
<tr>
<td>6:30-7:30</td>
<td>Yoga on the dorm green (weather permitting) or Clayton Lobby</td>
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<td>8:15-8:30</td>
<td>Introductions at Clayton Hall Auditorium</td>
</tr>
<tr>
<td>9:20-9:30</td>
<td>10 Minute Break</td>
</tr>
<tr>
<td>9:35-10:35</td>
<td>Keynote Marla Spivak, U Minn. <strong>Building a Better Future for Bees</strong>, at Auditorium</td>
</tr>
<tr>
<td>10:35-11:00</td>
<td>25 Minute Break</td>
</tr>
<tr>
<td>11:00-11:15</td>
<td>VA Next Year Karla Eisen, VA Welcomes you</td>
</tr>
<tr>
<td>11:15-12:00</td>
<td>EAS Annual Business Meeting</td>
</tr>
<tr>
<td>12:00-12:15</td>
<td>HONEY EXCHANGE pickups</td>
</tr>
<tr>
<td>12:00-12:30</td>
<td>BEE AUTHORS Autographs in Clayton Hall Lobby</td>
</tr>
<tr>
<td>12:00-1:30</td>
<td>LUNCH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Workshop Options:</th>
<th>Beekeeping</th>
<th>Expanding horizons</th>
<th>Working with Others</th>
<th>Bee Research Advances</th>
<th>Sustainability</th>
</tr>
</thead>
<tbody>
<tr>
<td>(50 mins)</td>
<td>Auditorium</td>
<td>Auditorium 125</td>
<td>Pencader 115 A&amp;B</td>
<td>Pencader 106</td>
<td>Pencader 117</td>
</tr>
<tr>
<td>1:30-2:20</td>
<td>Beekeeping is Thriving – WHY? Featured Talk; Jim Tew, OH</td>
<td>Discussing, Developing, and Implementing a MP3</td>
<td>A Club Based Nuc Program- The Sustainable Bee Club</td>
<td>Overwintering - Improving Your Odds Featured talk: Maryann Frazier, PA</td>
<td>Why and How to Rear Quality Queens Featured speaker: Vince Aloyo, PA</td>
</tr>
<tr>
<td>2:20-2:30</td>
<td>10 Minute Break</td>
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<td></td>
</tr>
<tr>
<td>3:20-3:30</td>
<td>30 Minute Break</td>
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**All Day**: In the Beeyard: Don Hopkins & Jen Keller, with Ronnie Quillan, and Oliver Collins

**Evening Banquet**: Some Secrets Old Beekeepers Should Never Tell: Jim Tew

*Schedule may be subject to minor changes.*
FRIDAY EVENING BANQUET SPEAKER

DR. JAMES E. TEW

Jim is the Beekeeping Specialist for the Alabama Cooperative Extension System, Auburn University and Emeritus Professor, The Ohio State University, Wooster where he currently resides. Jim has taught classes, provided extension services, and conducted applied research on honey bees and honey bee behavior - specifically pollination behavior at Ohio State, Wooster campus before his retirement. In 2000, he received the first EAS Roger A. Morse Teaching/Extension/Regulatory Award. He contributes monthly articles for national beekeeping publications and has written: Beekeeping Principles, Wisdom for Beekeepers, The Beekeeper’s Problem Solver, and Backyard Beekeeping. He is a frequent speaker at state and national meetings and has traveled extensively to observe beekeeping techniques.

Jim is our Banquet speaker. After our meal, featuring DE pollinated foods, we will have the chance again this EAS as 10 years ago, to hear ‘words of wisdom and wit’ from Jim. We never know what exactly Jim will talk about but we do promise it will be lively, entertaining and bee-related in content.

Jim will also offer a workshop Friday afternoon at EAS Beekeeping is Thriving – WHY?

Harvest The Best…
with SUNDANCE™ POLLEN TRAPS and COMPLETE ROSS ROUND SUPERS.

SUNDANCE POLLEN TRAPS
Imagine the cleanest pollen available with no heavy lifting, chalkbrood mummies or risk of foulbrood scales. There is no substitute for the Sundance Trap quality and cleanliness. Leading experts from the USDA and universities as well as commercial beekeepers and hobbyists agree that Sundance Traps are the best pollen traps available.

COMPLETE ROSS ROUND SUPER
Produce comb honey with no dripping from cut edges and no liquid honey in the consumer package with Ross Rounds equipment. Easily shipped or delivered, stocked on shelves, purchased and taken home without danger of leaking. Enjoy providing locally grown, unprocessed, all-natural honey with a complete Ross Rounds Super.

For dealers near you please email sales@rossrounds.com.
Monday, July 31

TALL TAILS IN THE APIARY

Monday 7:00-8:30pm

Following the first day of the Short Course we will have a Tall Tales in the Apiary – if too hot or rain this will move to the Clayton Hall Commons. Individuals are encouraged to tell their tales of beekeeping. For refreshments, BYOB (Bring your own Beverage) and tall boots in case some of the stories get too deep.
Tuesday, August 1

JEAPARBEE
WITH HOWLAND BLACKISTON!
Tuesday 7:30-9:00pm

Don't miss our Tuesday evening event. It's going to be a blast! A live interactive presentation modeled like a TV Game Show in which two contestants and the audience members compete for prizes as they learn a thing or two about bees and beekeeping from "host", Howland Blackiston.

Our game-show host Howland Blackiston is the author of "Beekeeping for Dummies" and "Building Beehives for Dummies". Collectively, Howland's publications have been translated into 16 languages. He has been a featured speaker in 40 countries at various conferences, club events and on many national television and radio programs. His presentation style is humorous, lively and participative. This presentation will be light-hearted and fun. It is not intended to test anyone's skill or knowledge.

NEXT GENERATION WITH SARAH LAIRD
Tuesday 7:30-11:59pm

What’s a “Next Generation Beekeeper”? “Next Gen” is defined as, “The step forward that perpetually propels us into our impending destiny.” We are the next generation in our family of beekeepers, we are the drivers of the next stage of development in the products, services, expertise, and knowledge our industry provides. This beekeeper is a commercial or small scale beekeeper, or works as an educator or researcher. They are passionate about bees, and want to be involved in future beekeeping innovation, research, policy, technology, advocacy, or community leadership.

This breakout session will feature free beer, music, great networking opportunities, and an organized, interactive group session. The session is designed to develop a few ideas for addressing the issues new beekeepers face, as we join this industry. You tell us what that needs to be done, we'll listen and help to develop a positive action plan to propel your beekeeping and ultimately our industry forward.
FLOWER FIELD TRIP TO MT. CUBA
Wednesday 1:00-4:45pm

Mt. Cuba Center is a botanical garden unlike any other. One of Delaware’s true endless discoveries are the beautiful, lush natural gardens of the First State. Peter Lindtner and docents will serve to help you understand this unique feature of Delaware. The tour will not be guided, you will be able to move at your own pace. Price $20 will include charter bus. If warm, we suggest you bring water. Bus leaves 1:00Pm (eat lunch before departure) and returns by 4:45Pm. Limit 40 persons. See website http://mtcubacenter.org/

LIQUID ALCHEMY FIELD TRIP
Wednesday 5:45-9:00pm

Delaware has a meadery and EAS has a field trip there! Liquid Alchemy is the state’s first meadery and owners Jeff Cheskin and Terri Sorantino are on the cutting edge, creating innovative flavors by blending meads with items such as Thai chilies, fresh limes, Oregon sour cherries, Madagascar bourbon vanilla beans for intriguing craft beverages. You’ll be able to keep a running tab with your credit card if you so choose. Plus save your dinner appetite! Terri has arranged for two excellent food trucks to be at Liquid Alchemy. Catch one of our two round-trip busses for only $10. This evening is for our group only so hop on board and see what the rave reviews have been all about.

SPECIAL EVENT LINEUP
Wednesday, August 2
**MOO MOBILE**  
*Wednesday 6:30-8:30pm*

The Moo Mobile will be parked in the Circle outside of Clayton Hall the night of August 2, 2017 between the hours of 6:30pm to 8:30pm, serving 10 flavors of hand-dipped ice cream fresh from the UDairy Creamery.

The milk from UDairy’s 200 Holstein cows is shipped to Cumberland Farms in Cumberland, New Jersey to be made into an ice cream base. The plain ice cream base is sent back to the UDairy Creamery storefront location where it is flavored with their own unique recipes, frozen and packaged by UD student employees in the production area of their Creamery.

Lick into this special treat!

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**DANCIN’ WITH THE HONEY BEES**  
*Wednesday 7:30-9:00pm*

This activity will be lots of fun, educational and entertaining. Cliff Wright-Sunflower, EAS master beekeeper (1986), environmental educator, storyteller and performer will get us Dancin’ with the Honey Bees. Cliff, with help from his wife Lois, annually provides over 125 assembly/workshop programs for schools and groups throughout a 5-state region. His program *Dancin’ with the Bees*, which he presented at 2007 EAS to rave reviews, brings the scientific magic of the honey bee hive to life. His program targets grade school age youngsters but is fun for all levels of students and adults; it was amazing to see the EAS beekeepers, young and old, up and Dancin’ in 2007. Dancin’ with the Honey Bees uses storytelling, poetry, prose, puppetry, music, dance and participatory theatre, woven into a delightful participatory exercise. The program includes concepts, facts and ideas about the Ecology of the natural world of bees. If you ever give programs for schools about your beekeeping you will be sure to pick up several useful pointers watching and joining our King Bee Cliff.
**BUS TRIP TO NEMOURS MANSION**  
*Thursday 1:45-6:00pm*

Nemours mansion tour followed by guided Garden tour with Peter Lindtner & site horticulturist Ken Darsey. Mansion visit included. Price $25 includes charter bus; if warm bring water. Limit 40 individuals (sign up early to insure a spot — remember guests of registered EAS registrants can register without paying the conference fee if not otherwise attending the lectures/presentations). Returns at approximately 6pm.

**HONEY SHOW AWARD CEREMONY**  
*Thursday 6:00-8:30pm*

The Honey Show Awards will be presented during the evening—join us as we congratulate the winners who put so much time into the preparation and presentation of their hive products, arts and crafts and gadgets. If you do have items to donate for the live auction, please take them to the Registration Desk before noon on Thursday. Perhaps you will be among the winners, yourself!
SOCIAL AND AUCTION
Thursday 6:00-8:30pm

Dinner will be a buffet $40/person. Seating will be limited first come-first served on the registration. One of the highlights of an EAS conference is the Thursday night auction and this one will be no exception. Please join us even if you do not reserve the dinner – auction to begin around 8:30Pm. It’s a fun time with the serious purpose of raising money for bee research. Many unique and unusual items to be featured. We solicit donations of auction items from any EAS member (receipts provided for tax purposes).

FRIDAY EVENING BANQUET AND AWARD CEREMONY
Friday 6:00-8:30pm

This is our Annual Banquet and awards dinner. Featured speaker is the ever popular Jim Tew. Jim was the banquet speaker 10 years ago (2007), the last time EAS met in Delaware. We give Master Beekeeper awards, announce the Charles and Evelyn Divelbiss Education Award and recognize the host committees. At end of the evening, Bob Bauer, 2017 EAS President, will pass the gavel to Pam Fisher and we will be adjourned by Pam until August 13-17, 2018 (see this Program and the EAS website for advance information on 2018).

Tickets are required to attend this event.
**SPECIAL EVENTS**

**Author Autographing**

*Signings will occur throughout the week.*

A number of EAS speakers have books on bees and beekeeping. We have organized author signing of their books for the first part of the lunch breaks. The authors, on the days they are speaking and perhaps other days as well, have consented to be at the author table in the Commons from 12 to 12:30pm. Here is the list of those speakers who have books they would be willing to autograph.

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**TUESDAY**

Howland Blackston
*Beekeeping for Dummies & Building Beehives for Dummies*

Larry Connor
*Beekeeping Essentials, Bee Sex Essentials, Increase Essentials, Queen Rearing Essentials, Bee-essentials & with Steve Repasky Swarm Essentials, & Mating Biology of Honey Bee*

William Hesbach
*Splits and Varroa*

Steven Repasky
*Swarm Essentials*

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**WEDNESDAY**

Kim Flottum
*The Backyard Beekeeper, Better Beekeeping, & with Marina Marchese Honey Connoisseur*

Peter Lindtner
*Garden Plants for Bees*

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**THURSDAY**

Dewey Caron
*Honey Bee Biology & Beekeeping, Observation Hives, Africanized Honey Bees & with Maryann Frazier Field Guide to Honey Bee Maladies and Beekeeping Basics*

Clarence Collison
*What do you Know*

Larry Connor *(see Tuesday listing)*

Tammy Horn Potter
*Bees in America & Beeconomy*

Tom Seeley
*Honeybee Democracy, Following the Wild Bees, Honeybee Ecology*

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**FRIDAY**

Dewey Caron *(see Thursday listing)*

Maryann Frazier
*Field guide to Honey Bee Maladies & Beekeeping Basics*

Marla Spivak

Jim Tew
*Wisdom for Beekeepers, & Beekeepers Problem Solver*

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If you did not remember to bring books by these authors to EAS or do not have the latest copy, you can purchase books from one of our EAS vendors and bring it to the author to sign – there WILL NOT be books for sale at the author signing table. You can, of course, catch authors in the hall at other times and ask for their autograph.
Honey Show

Entries are being accepted in Clayton Hall, Room 119 on Tuesday, August 1st from 3:00 to 6:00pm and Wednesday, August 2nd from 8:00 to 11:00am.

You are cordially invited to participate in the EAS Honey Show! This annual event dates back to 1957 and is one of the top attractions of the Conference. Dedicated to the promotion of excellence in honey and hive products, the Honey Show is open to all conference attendees on Thursday and Friday. Please join us in Clayton Hall, Room 119, to enjoy the show. Many tips and ideas about honey and hive product preparation can be heard in the show room. NEW this year, we invite you to sign our guestbook and leave your comments.

Entries are being accepted in Clayton Hall, Room 119 on Tuesday, August 1st from 3:00 to 6:00pm and Wednesday, August 2nd from 8:00 to 11:00am. Entrants will be sporting a yellow ribbon on their badges. Honey Show Rules will be available on site.

The Honey Show Committee has assembled a top team to produce and judge this event. A virtual who’s who of honey show judges will conduct the judging including; Michael Palmer, Bart Smith, Marina Marchese, and Bob Wellemeyer. Judging will take place on Wednesday afternoon and results will be available on Thursday.

Thanks to our many sponsors, Silver Awards will be presented, at the Thursday dinner. Afterwards, and open to everyone, is the live auction. You will find jars of the Blue Ribbon winners from the Extracted Honey Classes and other Blue Ribbon winners, donated by the entrants, for the benefit of EAS.

A workshop on the honey show focusing on tips and tricks to produce winning entries will be offered on Thursday afternoon at 3:50pm.

It will be the pleasure of the entire EAS Honey Show Team to welcome you to the Honey Show. It promises to be quite a special event.

Regards,

George H. Wilson III
EAS Honey Show Chairman

Honey Exchange

Back by popular demand is the EAS Honey Exchange. You bring one or more (limit of 3) of your bee products, honey certainly but other bee products acceptable, and get a coupon to pick an equal number of products from another participating beekeeper.

Entries will be accepted until Thursday afternoon – bring to registration/information area in Clayton Lobby. At noon of Friday those with coupons will get to pick up their exchange.
How to Taste Honey: Matching Flowers to Flavors

Wednesday 9:30am-12:30pm

Tasting and evaluating honey is a skill earned through consciously tasting a wide variety of honeys to identifying their sensory qualities to identify aromas and flavors in a honey sample. Learn the methods of sensory analysis used by sommeliers to taste and evaluate honey like an expert. If you are looking to improve your knowledge of honey and your tasting skills you should attend this workshop. The art of being a honey tasting expert is as complex as being a wine or olive oil sommelier.

- Learn the difference between taste and flavor through sensory exercises.
- Taste and learn about important honeys and their floral sources.
- Learn how to identify 9 basic aromas and flavors families in honeys.
- Enrich your vocabulary for describing honey through descriptors.
- Write detailed tasting notes using the honey aroma and flavor wheel.
- Brush up on the composition and physical properties of honey.
- Understand the how’s and why’s of crystallization, and how to evaluate its qualities.
- Learn about the causes of defects in honey and how to avoid them.

Marina Marchese is the founder of the beloved brand Red Bee Honey and the author of HONEYBEE and co-author, with Kim Flottum (editor of Bee Culture Magazine) of The Honey Connoisseur. She is a the first American resident to complete the training and be accepted into the Italian National Register of Experts in the Sensory Analysis of Honey which led her to establish The American Honey Tasting Society (AHTS). Marina has presented honey tastings for EATALY, Murray's Cheese Shop, the Museum of Food and Drink(MOFAD) Culinary Institute at Greystone with the National Honey Board as well as numerous corporate consulting clients.

Attendance will be limited to this workshop scheduled 9:30am -12:30pm on Wednesday August 2. Sign up for workshop when you pick up your registration materials. You are encouraged to bring your own honey.
Flower Field Trip to Mt. Cuba with Peter Lindtner

Wednesday 1:00-4:45pm

Peter Lindtner is an accomplished horticulturist and beekeeper, originally from Czechoslovakia, where he first began following his dreams. He has extensively studied at Rehor Mendel University of Agriculture and Forestry, Purdue University and the University of Delaware. Currently and throughout his career, Peter has given many lectures presented his photography to various audiences including students in the Academy of Lifelong Learning at the University of Delaware, local garden clubs and various beekeepers associations.

His love of photography and microscopy has greatly assisted him with his studies and culminated in the completion of Garden Plants for Honey Bees. This is Peter’s way of sharing, educating and illustrating the benefits of planting nectar – and pollen-rich plants while mutually benefitting honey bees with their pollination services and honey production.
Kids Events

Kids and Bees is an American Beekeeping Federation program designed to introduce children to bees and beekeeping in a positive, educational, and engaging way. We are excited to collaborate with the Eastern Apicultural Society for the fourth year in a row!

Why is the work of the Kids and Bees program important? It will be up to the next generation to not only understand the importance of our bees, but to take action in their conservation, and maybe even step into a pair of beekeeping boots to carry on the tradition.

The Kids and Bees program teaches kids why our bees are essential to everyday life and how they can be honey bee heroes. This year we are offering two opportunities for EAS conference attendees, and local families, to participate: the one hour “Fly In” program, a collaboration with the Delaware School for the Deaf, and the full day “EAS Beekeeping Academy.”

KIDS AND BEES “FLY IN”

On, Wednesday, August 2nd, up to 30 elementary school-aged kids from the Delaware School for the Deaf are invited to join us at EAS for a brief and entertaining honey bee lesson, followed by hands-on activities. The activity session will consist of four stations: honey, beeswax, bees and beekeeping, and bee habitat.

There is also an opportunity for you to participate! Join Kids and Bees Program Director, Sarah Red-Laird, for this dual purpose program, where EAS attendees will have a chance to both volunteer for the program, and also get ideas and an outline to take home and develop, or build on, your own Kids and Bees program.

The workshop will go from 1:30 - 3:30. The first 30 minutes will be a briefing for EAS attendees. Then we’ll invite the kids’ group in for an hour, where attendees will observe and participate in the program. The last 30 minutes will be a debrief and Q&A session for the adult attendees, and you will leave with an education pack full of ideas and resources.

KIDS AND BEES EAS BEEKEEPING ACADEMY

The Beekeeping Academy is a one day camp for up to twelve kids going into grades four through six. On Thursday, August 3rd from 9:00am to 3:00pm, students will spend their day in a fun and educational immersion into the world of the bee. During the morning hours, we will take an in-depth look into bee anatomy, biology, and sociology, and their vital role in our food system. The afternoon will be spent up close and personal with honey bee hives and native bee observations. Throughout the day students will learn about the present challenges bees face, and how they can be part of the solution in the bee’s survival.

Students can register at https://2017easbeekeepingacademy.eventbrite.com
Dancin’ with the Bees

Wednesday at 7:30-9:00pm

Our Wednesday evening activity will be lots of fun, educational and entertaining. Cliff Wright-Sunflower, EAS master beekeeper (1986), environmental educator, storyteller and performer will get us Dancin’ with the Honey Bees. Cliff, with help from his wife Lois, annually provides over 125 assembly/workshop programs for schools and groups throughout a 5 state region. His program Dancin’ with the Bees, which he presented at 2007 EAS to rave reviews, brings the scientific magic of the honey bee hive to life. His program targets grade school age youngsters but is fun for all levels of students and adults; it was amazing to see the EAS beekeepers, young and old, up and Dancin’ in 2007. Dancin’ with the Honey Bees uses storytelling, poetry, prose, puppetry, music, dance and participatory theatre, woven into a delightful participatory exercise. The program includes concepts, facts and ideas about the Ecology of the natural world of bees. If you ever give programs for schools about your beekeeping you will be sure to pick up several useful pointers watching and joining our King Bee Cliff.

You are welcome to come in uniform – dress as a bee, wear your antennae and be ready to be entertained and have some fun.

From the Dancin’ informative website, a Levittown School Principal wrote: “What a sheer delight! From the laughter and the genuine, heartfelt applause, you could tell that the teachers, parents and students thoroughly enjoyed the program. There is an old adage that the best instruction is that which teaches as it pleases and involves the child in the process... the Dancin’ assembly program and workshops were a prime example of just how effective that method can be... It was teaching at its best!”

When not in a classroom somewhere, Cliff and Lois keep bees on a small farm, Bear Honey Farms, in Bath (Lehigh Valley), PA. They sell honey, pollen and a large selection of candles from their internet site.
FOR IMMEDIATE RELEASE

Bee Hive Thermal Industries Breaking News, Honey Bee Varroa Mite Infestations Organically Targeted and Killed

Bee Hive Thermal Industries (www.beehivethermalindustries.com) joined forces with OVEN Industries (www.ovenind.com), experts in temperature control, for a joint effort in targeting and killing Varroa Mite infestations. The end product, developed through this joint effort, is a noninvasive organic and no pesticide approach in caring for honey bees.

Even if you’re not in the bee keeping business, commercially or as a Hobbyist, you may have heard that, “honey bees are in trouble”. There are a few main reasons that we could list in this dilemma and most experts will most likely agree that the Varroa Mite is near or at the top of that list. Bee Hive Thermal Industries designed this Thermal System utilizing an industrial grade heater blanket and electronic controls which are easily installed and removed from the hive. The end goal of the product is to raise the temperature of the hive to a programmed temperature, killing the mites without harming the bees based on studies done in Europe.

In the fight against today’s Varroa Mites, beekeepers are often, if not always, resorting to pesticides as the solution. Bees have many other predators and hardships to endure, including weather related issues such as cold temperatures, moisture and diseases. The effect of the Mite on the overall colony is paralyzing to both general activity and honey production within the hive. This revolutionary product is showing positive results in killing and controlling mites and hive beetles, with only a few applications annually.

Bee Hive Thermal Industries, located in beautiful Pageland South Carolina, is to be recognized as a global leader in the design, development and distribution of organically suitable products for the bee industry globally. The company strives daily to provide unique and safe solutions for bee keepers everywhere, providing them with high quality, value and reliability. Caring for our bees is very important to the mission of Bee Hive Thermal Industries.

Michael Pastal  
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President & CEO  
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www.beehivethermalindustries.com
PA HONEY QUEEN AND PRINCESS

2017 PENNSYLVANIA HONEY QUEEN: KAYLA FUSSELMAN

Kayla, 22, is the daughter of Brian and Diane Fusselman of Kempton, Pa. She is a graduate of Kutztown University, where she majored in art education. While in high school, Kayla was a member of FFA, the horticulture club, student council, chorus, National Honor Society and Tri-M Music Honor Society. She has previously served as the Kempton Fair Queen. In her free time, Kayla enjoys writing, making clay jewelry, painting and flower arranging.

2017 PENNSYLVANIA HONEY PRINCESS: SAMANTHA STOUFFER

Samantha, 20, is the daughter of Kimberley Stouffer of Shippensburg, Pa. She is a graduate of Shippensburg Area Senior High School, where she was a member of FFA, serving in several officer positions. Previously, Samantha served as the Cumberland County Dairy Princess and Cumberland Ag Expo Princess. Currently, she is employed full time at Kalmbach Feeds of Pennsylvania. In her free time, Samantha enjoys fishing, riding motorcycles and completing numerous craft projects.

As the 2017 Pennsylvania Honey Queen and Princess, Kayla and Samantha travel throughout the state promoting the beekeeping and honey industries by providing educational presentations to schools and community groups, and by attending fairs, festivals and participating in media interviews.

For more information on the Pennsylvania Honey Queen Program, visit us at http://pastatebeekeepers.org/queen.htm.
COMING UP NEXT YEAR...

AFTER A 22-YEAR HIATUS AS A HOST STATE, VIRGINIA IS EXCITED TO EXTEND A WARM WELCOME TO ALL EAS MEMBERS.

Following Delaware, we invite you to EAS 2018 to be held at the Hampton Roads Convention Center in Hampton, Virginia. So grab your bee gear and your bathing suits and mark your calendar for Aug 13 – 17, 2018 as a family vacation that offers something for everyone.

Easily accessible by car, train or air, Hampton is conveniently located along the Mid-Atlantic seaboard. The convention center and attached hotel are within five minutes of I-64 by car, 15 minutes from the train station in Newport News, and 20 minutes from either Norfolk International Airport or Newport News/Williamsburg International Airport.

Hampton, Virginia is steeped in history being one of the first English settlements in the New World after Captain John Smith surveyed the area in 1607 and declared it “a little isle fit for a castle”. Fort Monroe, the largest stone fort ever built in the United States, was constructed on the site and still stands today as a sentinel guarding the harbor and the passage by water to Virginia, Maryland and the capital. Now decommissioned, the historic site and its Casemate Museum is a destination for history buffs. Hampton also boasts miles of sandy beaches as well as a historic waterfront packed with shopping and dining. Nearby attractions include the Virginia Air and Space Museum, Grandview Nature Preserve, Langley Speedway, and The Virginia Living Museum. Kids of all ages will enjoy the Hampton Carousel, a restored 1920’s merry-go-round, or a cruise around the harbor on the Miss Hampton II. At less than an hour away, the bustling boardwalk of Virginia Beach or the recreated 18th-century city of Colonial Williamsburg are easy day trips.

Accommodations in 2018 will be a little more posh than most EAS conferences. The convention hotel, Embassy Suites by Hilton Hotel & Spa, is attached to the convention center by a covered walkway. All rooms are suites featuring a private bedroom and a separate living area with a sofa bed offering the flexibility for an
entire family to enjoy the week. Start each morning with a complimentary made-to-order breakfast and end the day with a free evening reception including bar drinks in the hotel’s atrium. Four other partner hotels within minutes of the convention center are offering reduced rates for EAS attendees and camping is available nearby on the ground of historic Fort Monroe.

As in years past, EAS 2018 will have a lineup of speakers covering everything from practical beekeeping for use in day to day apiary management to the latest findings from leading honey bee researchers. The Short Course will offer beginning, intermediate and advanced tracks featuring specific areas of interest such as the latest in electronic hive monitoring, queen rearing, and excellence in honey and hive products. An apiary on site will provide the opportunity for hands-on experiences. The conference will consist of morning presentations from award winners and keynote speakers as well as afternoon workshops. Confirmed speakers (in alphabetical order) include: Celia Davis, NDB (National Diploma in Beekeeping from the UK), and author; Dr. Jamie Ellis, University of Florida; Dr. Rick Fell, Virginia Tech; Dr. Wyatt Mangum, University of Mary Washington; Dr. Meghan Milbrath, Michigan State University; Bonnie Morse, Bonnie Bee & Company, Bee Audacious; Randy Oliver, Scientific Beekeeping; Mike Palmer, French Hill Apiaries, Vermont; German Perilla, George Mason University; Fred Proni, Proni Bees, North Carolina Grown; Sam Ramsey, University of Maryland; Dr. Juliana Rangel, Texas A & M; Dr. Jennifer Tsuruda, Clemson University, Charles Walters, Russian Bee Breeders Association; and Michael Young, MBe, Institute of Northern Ireland Beekeepers.

Planned social events are the Wednesday evening Beekeepers’ Beach Bash, the Thursday evening Auction and the Friday evening Awards Banquet. A field trip to Jamestown, where honey bees were first introduced to the New World, is in the works as is a visit to a local brewery with an apiary on site to provide honey for craft brews. A free evening screening of Queen of the Sun will be held at the convention center for attendees and the public.

Virginia is thrilled to once again host EAS. Please join us as we celebrate the 100-year anniversary of the Virginia State Beekeepers Association and be a part of “Where it all Began”!
Citizen science needs you!

Join in a national citizen science initiative to explore the relationships among our bees, our weather, and hive weight, temperature, and humidity.

Already 5,000 delivered toward the goal of 10K in 2017
All data will be public domain.

BroodMinder-CS wireless hive monitor $269
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