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2016

CONFERENCE PROGRAM

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AT A GLANCE

Sunday  Registration & Information
  Desk 3:00–7:00 p.m.

Monday  Registration & Information
  Desk 7:30 a.m.–4:40 p.m.
  Short Course 8:30 a.m.–4:40 p.m.
  BeeKeeping in Malawi 7:30–9:00 p.m.

Tuesday  Registration & Information
  Desk 7:30 a.m.–4:40 p.m.
  Short Course 8:30 a.m.–4:40 p.m.
  Vendor Exhibit 10:20 a.m.–4:40 p.m.
  Bus Trip–Atlantic City or Historic Smithville
    5:00–9:00 p.m.
  Next Gen Breakout Session 7:00 p.m.

Wednesday  Registration & Information
  Desk 7:30 a.m.–4:40 p.m.
  Short Course 8:30 a.m.–4:40 p.m.
  Conference 8:30 a.m.–4:40 p.m.
  Vendor Exhibit 8:30 a.m.–4:40 p.m.
  Dinner at Zoo 4:45–9:00 p.m.
  Lakeside Barbeque at Lake Fred 5:00–9:00 p.m.

Thursday  Registration & Information
  Desk 7:30 a.m.–4:40 p.m.
  Conference 8:30 a.m.–4:40 p.m.
  Apitherapy Symposium 8:30 a.m.–noon
  Vendor Exhibit 8:30 a.m.–4:40 p.m.
  Social Hour 5:00–6:00 p.m.
  Award Dinner & Live Auction 6:00–9:30 p.m.

Friday  Registration & Information
  Desk 7:30 a.m.–4:40 p.m.
  Conference 8:30 a.m.–4:40 p.m.
  Vendor Exhibit 8:30 a.m.–3:50 p.m.
  Social Hour 5:00–6:00 p.m.
  Banquet 6:00–9:30 p.m.
President’s Message

Welcome to the Garden State and Richard Stockton University!

Every year, the host state has a daunting task of improving on the program of past conferences. The 2016 Committee has done a tremendous job at putting together an amazing, top flight program. We are confident that you will enjoy all aspects of the conference. Each year, I look forward to seeing my beekeeping friends from all over the country, as well as the opportunity to meet new friends. There are evening activities scheduled throughout the week to give you a taste of our local area. The New Jersey Beekeepers are all ready to show off what we do best. Thanks for attending our conference and enjoy!

Jeff Burd,
President
Eastern Apicultural Society

Thank You to Our 2016 Queen & Worker Sponsors

**QUEEN SPONSORS**

“Education and Conferences, Master Beekeeper Certification, Honey Bee Research Grants”
- Dewey Caron

“Every Hive Counts”
- Richard Morris, Broodminder

“North American Native Plants and Honey Bees Grow Better Together”
- Lorette Cheswick

“Welcome to New Jersey! Thanks to the volunteers and vendors!”
- Jeff Burd

“Best wishes to all beekeepers at all levels. Enjoy, have fun and learn. EAS is the place to be.”
- Edward Karle

“Spectacular Leadership in Apiculture”
- David Morris

“Welcome to the Garden State!”
- Lou (Eloise) Naylor

“May Your Bees be Happy and Healthy”
- Earl Hoffman, Strong Microbials

“Knowledge Through Participation”
- Buddy May

“Remember the Native Bees and Native Plants”
- Don Coats

“Welcome to New Jersey!”
- Lou (Eloise) Naylor

John Baker

Andrew Dewey

Robert Sears

“Our thanks to all the outstanding volunteers, sponsors, vendors and speakers who make EAS possible.”
- David and Dorinda Priebe, EAS Master Beekeeper, NH

**WORKER SPONSORS**

“May the Bees Teach and Guide Us to a Better Level”
- Dewey Caron

“Apis mellifera: Live Long and Prosper”
- Brenda Klaunberg

“Real beekeepers attend EAS”
- David Meldrum

Hope Johnson, Vermont Quilt Bee

John and Judy Sullivan, SouthEast Bee Supply

Linda Cortiñas

Carol Cottrill

Mary Duane
Welcome From the Chair

Welcome to EAS New Jersey!

The New Jersey organizing team has an amazing week planned for you.

This program guide has all of the details of the week, but I do want to highlight a few features of this year’s schedule. Please note that there are some exciting new tracks in the Short Course this year. We encourage you to participate in as many of the different programs as possible. We have so much for you to choose from this year, including fantastic evening events, a tour to Harvey’s Honey, Apitherapy workshops, queen rearing – even yoga in the mornings to start your day off right! Please take advantage of the many opportunities to expand your beekeeping horizons.

Our goal, as always, is to provide an educational conference that is world class and also fun! Please make an effort to meet some new people, share a meal or glass of mead, and pay particular attention to how easy it is to make a friend when you start with a smile. “How are your bees doing?” is always a great conversation starter at EAS, whether you are speaking with a brand new first year beekeeper or accidentally sitting down for breakfast with a table full of Apiary Inspectors and researchers. (I know this from experience!)

I would like to extend a special welcome also to our 2016 Master Beekeeper Candidates. We are so pleased to have such great quality candidates this year; hard working, dedicated, collaborative beekeepers who are eager to join the ranks of EAS Master Beekeepers, certification of whom is central to our mission as an organization. Good luck to you all on your examinations!

This is my first year as Chair of EAS and I am thrilled to be part of the leadership team of the largest non-commercial beekeeping organization in the US. I am deeply grateful to the many volunteers who make EAS possible, particularly the EAS Executive Team and the Board of Directors. When you see these folks around at the conference, please take a moment to thank them for all of their hard work and share a story of how they have made an impression on you. If you would like to get involved in this dynamic organization, ask them, or ask me about open board and volunteer positions. We would love to have your energy and ideas as we continue on to the future!

So once again, welcome – we are thrilled that you are here, and have joined our community of committed, educated, enthusiastic beekeepers. We hope this week will be transformative for you and your apiary.

Best wishes to you and your bees,

Erin MacGregor-Forbes
Chair
Eastern Apicultural Society
America’s Leading Source for Honey Packaging
USA made Glass & PET Classics • Invertible PET Bottles • Closure Options • 8 oz & 1 lb Muth Jars

<table>
<thead>
<tr>
<th>Company</th>
<th>City, State</th>
<th>Phone/Email</th>
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<tbody>
<tr>
<td>Gunter Honey Co.</td>
<td>Berryville, VA</td>
<td>540-955-1734</td>
</tr>
<tr>
<td>Haefeli Honey Co.</td>
<td>Monte Vista, CO</td>
<td>719-850-1411</td>
</tr>
<tr>
<td>Harvey’s Honey</td>
<td>Monroeville, NJ</td>
<td>856-358-1010</td>
</tr>
<tr>
<td>Honey House, Inc.</td>
<td>Neosho, MO</td>
<td>417-451-4969</td>
</tr>
<tr>
<td>Jason Dodson</td>
<td>Columbia, TN</td>
<td>931-698-4959</td>
</tr>
<tr>
<td>Meadow View Beekeeping</td>
<td>Kutztown, PA</td>
<td>610-737-7676</td>
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<tr>
<td>Apiarios Caraballo Corp.</td>
<td>Yavco, PR</td>
<td>787-537-7246</td>
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<tr>
<td>BetterBee, Inc.</td>
<td>Greenwich, NY</td>
<td>800-632-3379</td>
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<tr>
<td>Blue Sky Bee Supply</td>
<td>Ravenna, OH</td>
<td>877-529-9233</td>
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<tr>
<td>Brushy Mountain Bee Farm</td>
<td>Moravian Falls, NC</td>
<td>800-233-7929</td>
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<tr>
<td>Dadant &amp; Sons</td>
<td>Hamilton, IL</td>
<td>888-922-1293</td>
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<tr>
<td>Deer Creek Honey Co.</td>
<td>London, OH</td>
<td>740-852-0899</td>
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<td>Glenn Sharpe</td>
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<td>Valley Bee Supply</td>
<td>Fishersville, VA</td>
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<td>Kings Honey</td>
<td>Winter Haven, FL</td>
<td>863-956-1800</td>
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<td>T.M. Klein &amp; Sons</td>
<td>Saint Charles, MI</td>
<td>989-865-9377</td>
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<td>Mann Lake Supply</td>
<td>Hackensack, MN</td>
<td>800-880-7694</td>
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<td>McCoy’s Sunny South Apliaries</td>
<td>Loxahatchee, FL</td>
<td>561-798-1120</td>
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<td>McLure Honey &amp; Maple Products</td>
<td>Littleton, NH</td>
<td>603-444-6246</td>
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<td>Merritt Container Co.</td>
<td>Sopchoppy, FL</td>
<td>850-962-9051</td>
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<td>Smitty Bee Honey Inc.</td>
<td>Defiance, IA</td>
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<tr>
<td>Miller Honey Co.</td>
<td>Salt Lake City, UT</td>
<td>801-486-8479</td>
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<td>Rossman Apiaries</td>
<td>Moultrie, GA</td>
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<td>Swan’s Honey Co.</td>
<td>Albion, ME</td>
<td>207-437-2251</td>
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<td>Walker Honey Co.</td>
<td>Rogers, TX</td>
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<tr>
<td>Walter T. Kelley</td>
<td>Clarkson, KY</td>
<td>800-233-2899</td>
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<tr>
<td>Wixson Honey Co.</td>
<td>Dundee, NY</td>
<td>607-243-7301</td>
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Call us for more information or contact a Gamber Container Distributor in your area
2220 Dutch Gold Drive • Lancaster, PA 17601 • (717) 393-1716 • fax (717) 393-8687
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## Schedule Overview

**Sunday, July 25–Friday, July 29 2016**

### Registration Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
<td>3:00 PM–7:00 PM</td>
<td>Campus Center</td>
</tr>
<tr>
<td>Monday</td>
<td>7:30 AM–4:40 PM</td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>7:30 AM–4:40 PM</td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>7:30 AM–4:40 PM</td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>7:30 AM–4:40 PM</td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td>7:30 AM–NOON</td>
<td></td>
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</tbody>
</table>

* If you are lost or cannot find the location for dorm check-in, please call:
  Joe Alvarez, Volunteer Coordinator 1-609-675-4489
  Jeff Burd, EAS President 1-609-638-3151
*After hours, dorm keys are available from Joe Alvarez at the above number.*

### Master Beekeeper Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Day</th>
<th>Time</th>
<th>Location/Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meet and Greet Candidates</td>
<td>Monday</td>
<td>1:30 PM–2:30 PM</td>
<td>C135</td>
</tr>
<tr>
<td>Pre-Exam Q&amp;A</td>
<td>Monday</td>
<td>2:30 PM–4:40 PM</td>
<td>C135</td>
</tr>
<tr>
<td>Volunteer Dinner</td>
<td>Monday</td>
<td>5:00 PM–7:00 PM</td>
<td>Restaurant TBA</td>
</tr>
<tr>
<td>Written Exam</td>
<td>Tuesday</td>
<td>8:30 AM–12:30 PM</td>
<td>F119</td>
</tr>
<tr>
<td>Oral Exam</td>
<td>Tuesday</td>
<td>8:30 AM–4:40 PM</td>
<td>F119, F120, &amp; F122</td>
</tr>
<tr>
<td>Lab Exam</td>
<td>Wednesday</td>
<td>8:30 AM–12:30 PM</td>
<td>F121</td>
</tr>
<tr>
<td>Field Exam</td>
<td>Wednesday</td>
<td>10:00 AM–4:40 PM</td>
<td>Apiary</td>
</tr>
<tr>
<td>Annual Meeting</td>
<td>Friday</td>
<td>7:30 AM–8:30 AM</td>
<td>Campus Center Food Court</td>
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<tr>
<td>(Dorm residents can eat breakfast</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>at N Wing cafeteria from 7:00-7:30 AM)</td>
<td>Friday</td>
<td>2:30–4:40 PM</td>
<td>C135</td>
</tr>
</tbody>
</table>

| Exam Review                        |         |                  |                                         |
| (Candidates receive scores and get questions answered.) | Friday  |                  |                                         |

### Society Meeting Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Day</th>
<th>Time</th>
<th>Location/Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS Board of Directors’ Meeting</td>
<td>Wednesday</td>
<td>noon–1:30 PM</td>
<td>Campus Center Event Room</td>
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<tr>
<td>(Requires Wednesday lunch ticket.)</td>
<td></td>
<td></td>
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<tr>
<td>EAS Annual Meeting</td>
<td>Friday</td>
<td>10:55 AM–noon</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>Everyone is encouraged to attend.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Life Members’ Banquet</td>
<td>Friday</td>
<td>noon–1:30 PM</td>
<td>Campus Center Event Room</td>
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<tr>
<td>(Requires Friday lunch ticket.)</td>
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</table>

### Annual Honey Show Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Day</th>
<th>Time</th>
<th>Location/Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop Off Show Entries</td>
<td>Tuesday</td>
<td>1:30 PM–4:40 PM</td>
<td>C011</td>
</tr>
<tr>
<td></td>
<td>Tuesday</td>
<td>8:30 AM–noon</td>
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<tr>
<td>Top Awards Presentation (C011)</td>
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<tr>
<td>Show Open to Public</td>
<td>Thursday</td>
<td>noon–4:40 PM</td>
<td>Thursday Evening Dinner, Live Auction,</td>
</tr>
<tr>
<td>(D Wing Hallway)</td>
<td></td>
<td></td>
<td>Honey Show Awards 7:00 PM–9:30 PM</td>
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<tr>
<td>Post-Show Pick Up of Entries (D</td>
<td>Friday</td>
<td>3:50 PM</td>
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<tr>
<td>Wing Hallway)</td>
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<td></td>
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<tr>
<td>Thursday evening dinner, live</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>auction, and honey show awards</td>
<td></td>
<td></td>
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<tr>
<td>Thursday noon–4:40 PM &amp; Friday</td>
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<tr>
<td>8:30 AM–3:50 PM</td>
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<tr>
<td>Friday after 3:50 PM</td>
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</table>
**Microscope Course Descriptions**

**INTRODUCTORY MICROSCOPY**
For participants with little experience, this class reviews basic techniques (magnification and focus nuances) on compound scopes and stereoscopes. For a beekeeper’s practical value, Nosema screening, pollen identification, and bee anatomy will be exampled briefly. Both bargain and more expensive microscopes will be available to provide comparison options. A modest scope investment can provide personal enrichment and practical management guidance for beekeepers. Books/posters will be on display.

**STICKY BOARD ASSESSMENT**
Much more than Varroa assessment can be revealed in a sticky board three-day standard drop period. Wax moth frass (feces), cell cleansings, old bee bread, chalk brood, mold (humidity), and other conditions can be assessed without opening the hive. It is possible to relate patchy brood (disease) to abundant pupal parts showing up on the sticky board. Pollen ID can start with sticky board assessment. Don’t forget to look for diarrhea. Alternative simple tools of magnification will be demonstrated.

**WORKER ANATOMY, FOCUS ON TRACHEAL MITES**
This workshop concentrates on honey bee anatomy with a specific focus on tracheal mites provided by Diana Sammataro. As beekeepers strive to avoid pesticides, tracheal mites could become more common again. Tracheal tubes are easy to find with the dissecting scope. Archived mite slides will also be used for this class. Easily stained cells of Malpighian tubules might show toxic changes reflecting poison exposure.

**ASSESSING NOSEMIA INFECTION IN HONEY BEES**
Explore dissection of the honey bee digestive tract. Discuss any abnormalities that might or might not relate to signs of Nosema infection. Learn more about Nosema biology and pathology in the honey bee, how to identify Nosema spores with a compound microscope, and how to quantify infection levels. Samples will be provided, but attendees are encouraged to bring foragers in 70% isopropyl alcohol from their own hives to screen for Nosema infection. Bees from the inner cover will also serve quite well – and are easier to capture.

**EXAMINING FOR POLLEN**
Although pollen will be provided, participants are encouraged to bring their own - in honey, the blooms in season, and/or collected pellets. Finding pollen is fascinating and easily done by the amateur at 40X to 1000X. Stain options and slide mounting processes will be explored. Even though a limited number of plant species can be distinguished, learn techniques for identifying the source of the pollen. There will be a review of a primer of terms and methods of collecting pollen. Tips for digital camera sharing of microscopic images can be a fresh adventure available to the inquiring mind of citizen science beekeepers.

**DRONE & QUEEN REPRODUCTION ANATOMY**
Drones and queens will be dissected with consideration of artificial insemination. Depending on your fine motor skills with a microscope, you should find what avulses from the drone during mid-air mating. Computer monitor and other visual aids will illustrate the subjects that we seek. You are promised to see stored live sperm in the seminal vesicle of a drone and spermatheca of the queen.
Help your bees survive the winter with HiveAlive™.

- Promotes intestinal well-being
- Maximizes spring build-up
- Natural ingredients

Up to + 89% population increase*

2016

Meet our team at the EAS conference

* An international trial has shown that routinely feeding HiveAlive™ produces significantly stronger colonies when compared to control (syrup with standard syrup).

**Keynote Speakers**

**WEDNESDAY KEYNOTE SPEAKERS**

**DENNIS VANENGELSDORP, MD**

Dr. Dennis vanEngelsdorp is Assistant Professor at the University of Maryland. He received both an undergraduate and master’s degree at the University of Guelph. Dennis was part of the Ontario Beekeepers’ Tech Transfer team, followed by extension specialist at Cornell University, working with program enhancement of the NY Master Beekeeper program. He was Acting Chief Apiary Inspector in Pennsylvania, while he worked simultaneously on his PhD (2011) studying under Diana Cox-Foster. He has broad interests in bees and beekeeping which he describes as all-fitting within the broad topic of pollinator health. He is avidly sought as a component of research/extension efforts directed toward bee and pollinator health issues. The focus of his current work involves the application of epidemiological approaches to understanding and (importantly) improving honey bee health. Dennis is also the director of the Bee Informed Partnership (BeeInformed.org), which attempts to provide a platform to collect “big data” on the state of health of managed honey bee colonies. Analysis of these data is providing important insights into the role beekeeper management practices and environmental factors (such as landscape pesticides and climate) have on bee health. He is the 2010 recipient of the EAS Roger A. Morse Outstanding Teaching/Extension Service/Regulatory Award.

**MEDHAT NASR, AB, CANADA**

Dr. Medhat Nasr, is the Alberta Provincial Apiculturist in the Crop Research and Extension Branch, Ministry of Alberta Agriculture and Forestry, Edmonton, Alberta, Canada. His responsibilities include regulatory, research, and extension. His research program is focused on honey bee health management including breeding, pest surveillance, biosecurity and integrated pest management. Medhat was born and raised in Cairo Egypt. He earned his doctoral degree at University of California, Davis, California, under guidance of Christine Peng, our EAS James Hambleton Award winner (1990). Following his degree he was at the University of Guelph (site of our EAS conference last year), as Leader of the Ontario Beekeepers’ Tech Transfer Program. He was also on the staff of Rutgers University as Assistant Extension Professor, stationed at the Blueberry/Cranberry Experimental Station from 2001 to 2004. This unique field station is about 20 miles from Richard Stockton University in the NJ Pine Barrens. He is the recipient of Alberta Beekeepers Achievement Award, Fred Rathjie Memorial Award for Outstanding Innovative and Creative Contributions from the Canadian Honey Council and a Roger A. Morse Outstanding Teaching/Extension Service/Regulatory Award from the Eastern Apicultural Society last year (2015). He is currently President of Canadian Association of Professional Apiculturists (CAPA). Medhat is also a lifetime member and frequent invited speaker to many beekeeping organizations across Canada and USA. It is a pleasure to welcome Medhat back to New Jersey. He always has much to share. Be sure to talk with him during the conference—he is a wealth of beekeeping fact and lore.
THURSDAY KEYNOTE SPEAKERS

JEFF PETTIS, USDA, BELTSVILLE

Dr. Jeff Pettis is a Life Member of EAS. He attended his first meeting while in graduate school as an EAS Student Award winner (1990). He is now a Research Entomologist in the USDA-ARS Bee Research Laboratory in Beltsville and has been Lab Chief of the Beltsville Lab. Dr. Pettis leads a broad research effort to improve colony health by limiting the impact of pests and diseases on honey bee colonies. His research areas include: IPM techniques to reduce the impacts of parasitic mites and disease, effects of pesticides and pathogens on queen health and longevity, host-parasite relationships and bee behavior. Dr. Pettis serves as President of the Bee Health Commission of Apimondia and on several other international committees concerning bee health. He takes time to speak at many bee meetings and is frequently interviewed by the media for his opinions on worldwide pollinator declines. Dr. Pettis received an undergraduate and MS degree from the University of Georgia and his doctoral degree in Entomology from Texas A&M University in 1992. In addition to being recognized with the EAS Student award, Jeff received the EAS James Hambleton Award for Research Excellence in 2004.

JON ZAWISLAK, AR

Jon Zawislak is the apiculture specialist for the University of Arkansas Division of Agriculture. He first became fascinated with honey bees in 1998, and became an EAS Master Beekeeper in 2009. He continues to support the EAS MB program, this year organizing the beginners short course. With a background in botany and entomology, he coordinates honey bee research and education across Arkansas. Jon works with commercial and hobbyist beekeepers, as well as the general public, educating people on the importance of bees and other pollinators. He is a skilled illustrator and his work is frequently included in apicultural publications. He and his family operate Walnut Valley Honey in Little Rock, Arkansas, producing good products from the hive and supplying pollinators for area community gardens.

JAMES FRAZIER, PENN STATE

Dr. James Frazier received his PhD in Entomology with a specialty in insect physiology at the Ohio State University in 1970. He went through the academic ranks from Assistant to Full Professor at Mississippi State University from 1970 – 1980. He moved to be a Senior Scientist at DuPont Agricultural Products from 1981-89. For the next ten years, Jim served the Penn State University as Department Head of Entomology. He continued on the faculty at Penn State until his recent retirement to his farm, an hour south of the Penn State campus. Dr. Frazier has researched chemical ecology of herbivorous insects for most of his career and helped develop a center for excellence in that field at Penn State. Together with Chris Mullin, Insect Toxicologist, and Maryann Frazier, Senior Honeybee Extension Specialist at Penn State Jim has concentrated on the impacts of pesticides on honey bees for the past 10 years. He has served on several national level policy bodies, including organizer for a USDA-APHIS-EPA National Stakeholder Conference on Bee Health (2011), the Pelliston Conference on Pollinator Risk Assessment (2010), and has been science advisor to the National Honey Bee Advisory Board since 2009. Dr. Frazier recently received the Friend of the Industry Award from the American Honey Producers Association (2014), and the Presidents’ Award and the Hoopingarner Award from the American Beekeeping Federation (2015). He has the background and interest in the development of pesticides and their potential negative effects on honey bees and the commitment to tell the story to both beekeepers and policy makers. We are most fortunate that Jim will be able to inform us about this important topic at NJ 2016 EAS.
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2016 EAS Award Winners

The Roger A. Morse Outstanding Teaching/Extension Service/Regulatory Award Supported by Anita Weiss Foundation

The Roger A. Morse Outstanding Teaching/Extension Service/Regulatory Award Supported by Anita Weiss Foundation is given annually to recognize an individual in teaching/extension and/or regulatory activity in the field of Apiculture. EAS will recognize Dave Tarpy, North Carolina State University, as the 2016 Roger Morse Outstanding Teaching/Extension Service/Regulatory Award winner. EAS has recognized five individuals as both Student Awardees and Hambleton winners, but Dave will be the first individual honored with both Hambleton (2010) and Morse awards.

Dave was a biology undergraduate at Hobart and William Smith Colleges (Geneva, NY), 1993 and completed a master's degree in biology at Bucknell University in 1995. He was a PhD student at UC Davis from 1995, completing his degree in 2000, after which time he returned to the East, as a NSF (National Science Foundation) and USDA Postdoctoral Fellow at Cornell University (with Tom Seeley). He has been at North Carolina State University since 2004 with varied responsibilities including Graduate program, Entomology Department and Extension Apiculturist. He was promoted to full professor in 2014 and is currently recognized as a University Scholar for 2015-2020.

Dave has had a distinguished number of undergraduate advisors and graduate students plus post-doctoral students in his 15-year tenure at NC State. His publication list is extensive and varied with numerous collaborators. He has been a major contributor to both the CAP- and BIP-funded national bee health initiatives. He has received numerous awards for his research funded through a variety of grants.

Dave was nominated both for his distinguished teaching and extension accomplishments. He is a caring and considerate mentor and helps all students as part of the faculty advising and mentoring committees. He was honored with the Gertrude Cox Award for Innovative Excellence in Teaching and Learning with Technology for his Advanced Bee Biology course. He consistently gets good reviews (overall 4.8 out of 5) for his Introduction to Beekeeping course. He also teaches Social Behavior of Insects. He is a frequent guest lecturer in other entomology and biology courses at NC State. Dave credits his interest in teaching to his undergraduate and masters days.

Our Morse awardee has considerable accomplishments, in addition to his being a leading bee scientist and University instructor, in his Extension Service and outreach to the beekeeping and public community. Dave has been recognized as Alumni Outstanding Extension and Outreach Award recipient, inducted into the NC Academy of Outstanding Faculty engaged in Extension and has received an Outstanding Extension Service Award. In addition to over 77 referred research publications, he has an extensive list of extension/general publications, presentations and outreach activities. He is a popular EAS speaker and has been included now several years on our annual program and short course. He is a Journal of Apidologie editor and served on the EAS Board from 2004 to 2014.

Dave has been in the vanguard to move the NC Extension Apiculture program to a novel IT delivery of written Extension content and delivery. This helps insure accurate and up-to-date information data base that is interactive on topics such as SHB (Small Hive Beetle), Africanized bees and topics related to
The James I. Hambleton Memorial Award was established by the Eastern Apicultural Society of North America to recognize research excellence in apiculture. Our 2016 award goes to Heather Mattila. Heather became interested in honey bees as an undergraduate at University of Guelph in 1997, when she did an undergraduate project on wintering of bees at the Guelph Bee Lab. Following her undergraduate degree (1998), she continued at Guelph as a graduate student to work on a thymol-based miticide for controlling varroa and another on butterflies. She completed her PhD program in 2005 with Gard Otis on the role played by pollen nutrition in colony growth and worker physiology.

Heather did a postdoc with Tom Seeley at Cornell on intra-colonial genetic diversity. In 2009, she joined the faculty of Wellesley College, a private, women’s liberal-arts college located in the town of Wellesley, Massachusetts. Her research program focus is on mechanisms of social communication and organization, including honey bee behavior, the chemical ecology of colonies and microbiology of queens and workers. She has involved over 30 Wellesley undergrads with grant funding from USDA, National Sciences and Engineering Research Council of Canada, National Honey Board, the NAPPC (North American Plant Pollinator Protection campaign), and National Geographic Society. She has published 38 scientific papers to date (several with previous Hambleton award winners Tom Seeley (1994), Gard Otis (1999), Dave Tarpy (2010) and Christine Grozinger (2013) in journals such as Science, Proceedings of the National Academy of Sciences, Current Biology, Apidologie and Proceedings of Royal Society of London.

Heather was nominated by Gard Otis who called her “one of the most gifted young honey bee researchers in the world today”. Tom Seeley said “her lengthy list of publication and a steady stream of honors…..and outstanding talent for organizing people into efficient teams….and a sparkling personality makes her a natural as teacher and speaker. Also Christina Grozinger, commenting on her nomination said, “Heather’s ability to maintain an internationally renowned research program while inspiring large cohorts of students and being a responsive and creative collaborator is incredibly impressive.”

Heather will give a keynote address on Wednesday morning to open our 2016 conference. She will also be presenting a workshop Wednesday afternoon at our conference.
Student Award

William Cameron Jasper is the 2016 EAS Student Apiculture Award winner. He began his PhD program September 2014 at the University of California, Davis, in the Department of Entomology and Nematology. Dr. Elina Lastro Niño, the EAS Student award winner of 2011 while at Penn State, is his major advisor.

Cameron's undergraduate degree, a B.S. in General Biology, was from University of California at San Diego and he earned a M.S. from San Francisco State University in 2011. He worked initially with Dr. Brian Johnson at UC Davis on the evolutionary genetics of honey bee division of labor, RNA-sequencing and applied bee projects before Dr. Niño joined the faculty. He cooperated with Dr. Eric Mussen, now-retired Extension Apiculturist at UC Davis, in a study of high fructose corn syrup and probiotics on growth of new honey bee colonies (published 2015 in *Jour Apiculture Research*). His dissertation topic will be determining the role of microRNA in regulating caste-specific patterns of honey bee pheromone biosynthesis.

Cameron's biology interest was sparked in high school. He won statewide recognition as a high schooler. As a student research assistant at San Diego, he studied the relationship between flower visitation and population genetics in a *Mimulus* flower species (common name monkey-flower). His master's degree was on social insect epigenetics. SFSU studies were supported by the Robert Will Max Scholarship. His UCD studies have been twice recognized by the JASTRO Research Fellowship Award, and he has support of the George H. Vansall Award and Teledyne Endowments.

Cameron has served as a teaching assistant in Entomology and Biology courses at Davis. He has been guest lecturer for the new Apiculture course at Davis and serves as mentor for undergraduate students using the facility of the Harry Laidlaw Jr Honey Bee research facility on the edge of the UC Davis campus – where the widely acclaimed Häagen Daz Honey Bee Haven flower garden is located. He has 7 published papers in a wide variety (mostly non-apiculture) Journals and three in preparation with his activities with Dr. Niño.

In her nomination letter Dr. Niño mentioned Cameron's drive and confidence and summed up her recommendation “there is no doubt that with his intelligence, dedication and tenacity Cameron will continue to be a great asset to the scientific community”. It is great pleasure to award him as our 2016 EAS Student Apiculture Award recipient. Cameron will give his keynote address Friday morning and offer a workshop in the afternoon.

Student Award - Honorable Mention

Megan McConnell is a graduate student in entomology at the University of Maryland, currently studying nonchemical control of varroa mites in honey bee colonies. She is a former member of the Bee Informed Partnership (BIP) team where she was instrumental in various programs, including the Real Time Disease Load Monitoring Project, which was supported by EAS in 2014.

Megan is a passionate advocate for honey bees, and is particularly eager to teach others about honey bees and pollinators. She has contributed to a number of extension and outreach projects and regularly speaks regionally and nationally on BIP programming, her own research projects, and general hive management topics.
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The campus is within easy driving distance of major metropolitan areas including New York City, Philadelphia, Baltimore and Washington, DC. Stockton University, a premier regional educational institution, is ranked at #12 among the best public regional universities of the North by U.S. News and World Report and is one of The Princeton Review's Best Northeastern Colleges. For more information, visit Stockton.edu.
**WIFI Access at Stockton University**

Stockton University will be providing free WiFi access. Visit the registration desk for your individual account and password—always great to stay connected!

**Registration Bags**

Many thanks to the New Jersey Beekeepers Association for the generous donation of the registration bags. They are full of information and goodies supplied by businesses and individuals. Please note the Conference Survey—please make the time to fill this in—your comments are much appreciated and will help form the upcoming 2017 EAS Delaware Conference.

**Parking**

Parking is free in the lots in front of the Conference Center. Lots 1, 2, and 3 are the closest to the Conference Center.

**Vendors**

**July 26-29, 2016**

Many thanks to our Vendors— they will be set up from 10:30 a.m. on Tuesday, July 26–3:50 p.m. on Friday, July 29 in D Wing. 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! (Registered vendors as of July 8)

- BC Bee Books
- Bee Craft
- BetterBee
- Blythewood Bee Co.
- BroodMinder
- Brushy Mountain Bee Farm
- Cedar Creek Apiary, LLC
- Clemenson Farms Native Nursery
- Country Rubes & Shastina Millwork Beekeeping Equipment
- Create Full Circle
- Dadant
- Gamber Container
- Gold Star Honeybees

**Can’t Find Your Housing?**

If you are lost or cannot find the location for dorm check-in, please call:

- Joe Alvarez, Volunteer Coordinator, 1-609-675-4489
- Jeff Burd, EAS President, 1-609-638-3151

After regular registration hours, dorm keys are available from Joe Alvarez at the above number.

**Lockouts and Lost Keys/Card Access**

Please report lockouts or key problems to the Office of Residential Life located in the Housing 4, 82-4 office. The office is open Monday – Thursday, 8:00 am – 5:15 pm. For after hours assistance, contact the Stockton Campus Police Department at (609) 652-4390. Lost keys/cards should be reported to the Stockton Campus Police Department immediately. Please do not lose your keys. **You will be charged $75 for lost or keys that are not returned after checkout!**

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- NOD Apiary Products Ltd.
- OxaVap
- Propolis-etc
- Rossman Apiaries, Inc.
- SouthEast Bee Supply
- Strong Microbials Inc.
- Triad
- Vermont Quilt Bee
- Veto-pharma
- Wicwas Press LLC
### Conference Schedule: Monday, July 25 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
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|          | **Course Options:**  
|          | Beginners Course | Intermediate Course | Queen Rearing Course | Varroa Sampling & Control | Train the Trainers | Master Beekeepers |
|          | C134 | F111 | B126 | Alton | B125 | C135 |
| 8:30-9:20| Bee Biology & Behavior  
Jon Zawislak, AR | Keeping Bees in Mediums  
Landi Simone, NJ | Introduction to Queen Rearing  
Vince Aloyo, PA | Tools for Varroa Management  
Dewey Caron, OR | Presentation Skills  
Janice Girard, VT |
| 9:30-10:20| Seasonal Fall & Winter Management  
David Burns, IL | Move to Alton for: Reducing Chemical Dependency: Feasible or Not?  
Vince Aloyo, PA | Using a Cloake Board for Raising Queens  
Vince Aloyo, PA | Reducing Chemical Dependency: Feasible or Not?  
Kent Williams, KY | Beyond the Basics Intermediate Courses  
Erin Forbes, ME |
| 11:00-11:50| Seasonal Spring & Summer Management  
Steve Repasky, PA | Record Keeping as a Management Tool  
Landi Simone, NJ | Honey Bee Sex and Breeding  
Vince Aloyo, PA | How we manage mites.  
Ben/Kim Carpenter, NY | Organizing a Bee School  
Carol Cottrill, ME |
| 1:30-2:20| Bottling & Marketing Liquid Gold  
Jon Zawislak, AR | Tips and Tricks to Keeping Bees  
Grant Stiles, NJ | Mating Nucs  
Vince Aloyo, PA | Basics of Mite Biology  
Diana Sammataro, AZ | Reaching Youth  
Toni Burnham, DC | Meet and Greet Candidates |
| 2:30-3:20| Swarming Biology & Management  
Steve Repasky, PA | Insulating Hives & Winter Survival  
John Gaut, NJ | Grafting IN APIARY  
Vince Aloyo/Jennifer Keller, NC | Varroa in NJ  
Tim Schuler NJ | Addressing Next Generation  
Sarah Red-Laird, OR | Pre-Exam Q & A |
| 3:50-4:40| Reading the Frames IN APIARY  
Tim Schuler, NJ | Creams, Lotions & Lip Balms  
Landi Simone, NJ | Producing Queen Cells Without Grafting  
Erin Forbes, ME | Evaluation of Summer Splits on Varroa Mite Reduction and Colony Productivity  
Katy Ciola Evans, DE | Speaking to Civic/Garden Groups  
Lorette Cheswick, NJ | Pre-Exam Q & A |
| 5:30-7:00| Dinner* (N Wing Cafeteria) | MB Volunteer Dinner |
| 7:30-9:00| Beekeping in Malawi with Tim Schuler, NJ (Alton) |

* Must be prepurchased  ** Included with dorm registration
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### Conference Schedule: Tuesday, July 26 2016

<table>
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| 7:30-8:30  | **Course Options:**
|            |   **Beginners** | **Intermediate** | **Bees AM: PM** | **Varroa Sampling & Control** | **Microscopy** | **Master Beekeepers** |
|            | Course         | Course          | Queen Rearing   | Continued                   |               |                     |
|            | C134           | F111            | B126            | Alton (AM)                  | F002          |                     |
| 8:30-9:20  | Expanding the Apiary David Burns, IL                                    |
|            | Practical Dance Language App Kent Williams, KY                           |
|            | Microbes and Bees Diana Sammataro, AZ                                   |
|            | ASK PHIL—About Varroa/ Apivar & What Works Best for Varroa              |
|            |工 Phil Craft, KY                                                      |
| 9:30-10:20 | Beyond Honey: Other Hive Products David Burns. IL                       |
|            | Moving Bees: Biceps to Fork Lifts Grant Stiles, NJ                      |
|            | Human Side of Urban Beekeeping Toni Burnham, DC                         |
|            | Summer Splits: New Queens for Mite Reduction Doug Vinson, NC            |
|            | Worker Anatomy, Focus on Tracheal Mites Don Coats, PA                   |
|            | 30 min Break (Vendor Atrium)                                           |
| 11:00-11:50| Small Hive Beetle Jon Zawislak, AR                                      |
|            | Catch That Swarm Steve Repasky, PA                                      |
|            | Reading the Frames Part 1: Landi Simone, NJ, IN CLASSROOM               |
|            | Overwintering Nucs Vince Aloyo, PA                                      |
|            | BIP Diagnostic Projects & Resistance Assay Heather Eversole, MD         |
|            | Sticky Board Assessment Don Coats, PA                                   |
|            | Master Beekeeper Written Exam & Oral Exam                               |
| 1:30-2:20  | Diseases Jon Zawislak, AR                                               |
|            | Reading the Frames Part 1: Landi Simone, NJ, IN CLASSROOM               |
|            | Overwintering Nucs Vince Aloyo, PA                                      |
|            | BIP Diagnostic Projects & Resistance Assay Heather Eversole, MD         |
|            | Sticky Board Assessment Don Coats, PA                                   |
|            | Master Beekeeper Oral Exam                                             |
| 2:30-3:20  | Fighting Mites Steve Repasky, PA                                        |
|            | Reading the Frames Part 2: Tim Schuler, NJ, IN APIARY                    |
|            | Nuc Set-up Demonstration Vince Aloyo, PA IN APIARY                      |
|            | BIP Non-Chemical Controls Megan McConnell, MD                           |
|            | Assessing Nosema Infection in Honey Bees & vocabulary                   |
|            | Master Beekeeper Oral Exam                                             |
| 3:50-4:40  | Varroa Mite Sampling Jon Zawislak, AZ & Steve Repasky, PA IN APIARY     |
|            | Replacing & Banking Queens Kent Williams, KY                            |
|            | Checking Grafts & Wrapping Vince Aloyo, PA IN APIARY                    |
|            | Varroa Mite Sampling Jon Zawislak, AR & Steve Repasky, PA IN APIARY     |
|            | Drone & Queen Reproduction Anatomy                                     |
|            | Master Beekeeper Oral Exam                                             |
| 5:00-9:00  | Bus Trip to Atlantic City or Town of Historic Smithville***, Dinner with a New Jersey Beekeeper or N-Wing Cafeteria* | 30 min Break (Vendor Atrium)  |

* Must be prepurchased  
** Included with dorm registration  
*** Bus Trip must be prepurchased. Alternatively, both sites available within a 5-15 minute drive from Stockton University with ample parking. (AC parking typically $5-10. Free parking at Smithville.)
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### Conference Schedule: Wednesday, July 27 2016

<table>
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<td>8:30-8:45</td>
<td>Introductions Janet Katz, Angelo Trapani, New Jersey Secretary of Agriculture</td>
<td>Master Beekeepers</td>
<td></td>
</tr>
<tr>
<td>8:45-9:35</td>
<td>Conference Keynote Address Dennis vanEngelsdorp, MD Keeping Colonies Alive—It Takes a Village</td>
<td>Master Beekeepers</td>
<td></td>
</tr>
<tr>
<td>9:40-10:30</td>
<td>James I Hambleton Award Recipient Address Heather Mattila, MA Busy Bees Come from Well-Mated Queens</td>
<td>Master Beekeepers</td>
<td></td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Conference Keynote Address Medhat Nasr, AB . Canada State of Bee Health in Canada: How are the Bees doing up North?</td>
<td>Master Beekeeper Lab &amp; Field Exam</td>
<td></td>
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<tr>
<td>LUNCH* 12:00 - 1:30 PM (Vendor Atrium)</td>
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<td>EAS Board of Directors Meeting (Campus Center Event Room)</td>
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<tr>
<td>5:00-9:00</td>
<td>Visit to Zoo, Observation Hive, and Dinner by Zoo Staff* Board bus at 4:45PM. or Lakeside Barbeque at Lake Fred**</td>
<td>Master Beekeeper Field Exam</td>
<td></td>
</tr>
</tbody>
</table>

* Must be prepurchased ** Included with dorm registration

***AAS Informed Consent Form must be signed ahead of time for people participating in practical workshops
About Us:

We are located in Blythewood South Carolina and we are a veteran-owned business. We have a full line of beekeeping products as well as quality woodenware, ventilated and standard beekeeping suits and jackets and much, much more.

We are also known for our product innovation. Our three newest creations are Swarm Commander Premium Swarm Lure, Bee-Lively Feeding Stimulant and Honey-B-Gone Honey Bee Repellant.

Swarm Commander is the #1 Swarm Lure in America and has found both national and international success. We also have a 90 DAY SWARM LURE called Swarm Commander Super Lure. Come by and check out our product offerings and take advantage of our free shipping on all wholesale orders.

WHOLESALE ORDERS DURING SHOW ARE SHIPPED FREE!
**Conference Schedule: Thursday, July 28 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30-7:30</td>
<td>Beginning Yoga for Beekeepers with Jason Cooper (The Lodge at the Lakeside) Mats will be provided.</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>7:00-7:30</td>
<td>Breakfast** (N Wing Cafeteria)</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>7:30-8:30</td>
<td>New Jersey Conference Board Meeting with Delaware Conference Board Representatives Conference Center Food Court (7:30-8:30)</td>
<td>Campus Center Event Room</td>
</tr>
</tbody>
</table>

**Theme: Communication**

**Apitherapy**

- Frederique Keller & Patrick Fratellone B125

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:30-8:40</td>
<td>Introductions</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>8:40-9:35</td>
<td>Conference Keynote Address</td>
<td>Campus Center Event Room</td>
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<tr>
<td>10:30-11:00</td>
<td>Conference Keynote Address</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Conference Keynote Address</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>12:00-1:30</td>
<td>LUNCH* 12:00 - 1:30 PM (Vendor Atrium)</td>
<td>Campus Center Event Room</td>
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<tr>
<td>1:30-2:20</td>
<td>Using an Apiary as a Pedagogical Resource</td>
<td>Campus Center Event Room</td>
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<tr>
<td>2:30-3:20</td>
<td>Predicting Swarm Flight</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>3:50-5:10</td>
<td>Predicting Swarm Flight</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>5:00-6:00</td>
<td>Social Hour</td>
<td>Campus Center Event Room</td>
</tr>
<tr>
<td>6:00-9:30</td>
<td>Live Auction, Honey Show Award Ceremony, and Dinner* (Campus Center Event Room)</td>
<td>Campus Center Event Room</td>
</tr>
</tbody>
</table>

* Must be prepurchased                             ** Included with dorm registration

***AAS Informed Consent Form must be signed ahead of time for people participating in practical workshops
Honey Bee Farm
We Are Building Our Equine Facility At Our Farm This Summer (!)
With Honey Bees And Horses, We Are So Busy
We Regret This Year We Will Not Be Able To Attend EAS ...
But, For Our Customers, Mention EAS When Placing
Online Or Telephone Orders And
We Will Offer A 25% Discount!

Honey Bee Farm

 Mellifera Millinery©
Custom Couture Beekeeping and Gardening
Hats and Veils, Shirts and Gloves
Beeswax and Honey Balms, Blushes and Soaps
Honey Pendants

www.HoneyBeeFarm.org
(203) 938-5645
Helping The Honey Bees
(Donation Made With Each Purchase To The American Beekeeping Federation)
**Conference Schedule: Friday, July 29 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>6:30-7:30</td>
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<tr>
<td>7:00-8:30</td>
<td>Breakfast** (N Wing Cafeteria)</td>
</tr>
<tr>
<td></td>
<td>Master Beekeeper Meeting** Conference Center Food Court (7:30-8:30)</td>
</tr>
</tbody>
</table>

**Theme: Solutions:** Campus Center Event Room

8:30-8:40  | Introductions  
            | Jeff Burd, EAS President  
8:40-9:35  | Conference Keynote Address  
            | Roger A. Morse Teaching Outstanding/Extension Service/Regulatory Awardee  
            | David Tarpy, NCSU  
            | The NC State Queen & Disease Clinic—One Scientist’s Journey from Basic Science to Practical Beekeeping Application  

9:35-10:25 | Student Apicultural Award Recipient Address  
            | W. Cameron Jasper, UC Davis—How Honey Bees can help us understand Gene Expression  
10:25-10:55 | 30 min Break (Vendor Atrium)  
10:55-11:15 | EAS 2017 DE Preview  
            | University of Delaware, Newark, DE July 31-August 4, 2017, The Place to Be in '17  
11:15-12:10 | EAS Annual Meeting  
            | Erin MacGregor-Forbes, Presiding  

**LUNCH**  
12:00 - 1:30 PM (Vendor Atrium)  
Life Members Luncheon & Speaker* (Campus Center Event Room)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 1:30-2:20  | Differences in Beekeeping in the Western U.S. Compared to the East!  
            | Dewey Caron, OR  
            | Beekeeping in an Urban Setting/ Rooftop Hives  
            | Joe Lelinho, NJ  
            | Food Safety  
            | Meredith Melendez, NJ  
            | Queen Reproductive Quality: Queen and Colony Perspectives  
            | Dave Tarpy, NC  
            | Microbiota Suppression of Honey Bee Fungal Pathogens  
            | Lana Vojvodic & Rowan Univ Student  

2:30-3:20  | Well-Beeing, A New App for Field Diagnosis of Honey Bee Maladies  
            | Maryann Frazier, PA  
            | American Honey Princess – Buzzing across America  
            | Tabitha Mansker, TX  
            | Small Business Dos & Don'ts  
            | Rusty Schwartz, NJ  
            | Chemicals in the Life of Bees - the Good, the Bad, & the Amazing Jim Frazier, PA  
            | Microbiota Suppression of Honey Bee Fungal Pathogens (Cont.). Lana Vojvodic & Rowan Univ Student  

3:50-4:40  | Bee Extractions/ Removals  
            | Robert Simonofsky & Gary Schempp, NJ  
            | Gadget Garage  
            | Kevin Inglis, NJ  
            | Programs of the UC Davis Honey Bee Lab  
            | W Cameron Jasper Davis, CA  
            | What Are My Bees Eating?  
            | Debbie Delaney, UD  
            | Nucs My Way  
            | Billy Davis, VA  
            | Microbiota Suppression of Honey Bee Fungal Pathogens (Cont.). Lana Vojvodic & Rowan Univ Student  

5:00-6:00  | Social Hour (Campus Center Food Court)  
6:00-9:30  | Banquet and Award Ceremony* (Campus Center Event Room)  
            | Speaker Maryann Frazier, PA  

* Must be prepurchased  
** Included with dorm registration
Social Events

Tuesday Eve. Dining Options Abound!

For those who wish to relax on campus, there will be a dinner buffet offered at the N Wing Cafeteria (tickets prepurchased). In addition, there are two bus destinations available, as well as a drive yourself option to dine with a NJ Beekeeper.

Towne of Historic Smithville

Feel like an evening out without the hassle of driving or parking? EAS has arranged bus transportation to Atlantic City or Historic Smithville. The charge of $10/person (limited to the first 45 people) covers the cost of transportation. Board the bus for the short ride to Atlantic City or the Towne of Historic Smithville. Bus leaves Stockton University on the parking lot side of the Conference Center (just outside of the registration desk) at 5:00pm.

Stroll the boardwalk and have dinner at your choice of restaurants. New Jersey beekeepers will lead small groups to a variety of restaurants with different price points and types of food and drink. There will be sign-up posters in the registration area displaying menus, take your pick. The bus will get you back on campus safely by 9:00pm.

Drive to Dine with a NJ Beekeeper.

 Prefer to drive yourself to Atlantic City (15 minutes, $5.00-$10.00 parking) or Historic Smithville (5-10 minutes, no parking charge)? Sign up in the registration area for dinner with a group led by a New Jersey beekeeper or find a restaurant on your own in Atlantic City. Or go to Historic Smithville, where there are a variety of shops and restaurants. http://www.historicsmithvillenj.com/dining
**Wednesday Evening Events: Dine Out with EAS on Campus or at the Cape May Zoo!**

For those who wish to relax on campus Wednesday night, there will be a BBQ buffet hosted at Lake Fred on campus. If you wish to dine off campus in an exotic setting, a bus has been arranged to take you to the Cape May Zoo for a BBQ dinner with the zookeepers and private tour of the zoo.

**BBQ at Lake Fred on Campus**

$25/person. This event starts around 6:30pm. Come see how New Jersey throws down. We will have an open cash bar, and a variety of salads, grilled burgers, and BBQ chicken. As the sun sets over Lake Fred, listen to live Bluegrass music and the sounds of the pines. Rumor is there could be some drone-spitting competitions. Show off your waggle dance moves, tell your tallest bee story and walk back to your dorm room with a smile on your face when the night is over. You are sure to make some new friends.

**Dine and Tour at the Zoo**

$25/person Limited to first 150 people. The bus will leave at 4:45 for the 30-minute drive to the Cape May Zoo. Board the bus on the parking lot side of the Conference Center (outside the registration desk). Included in the price of the evening is transport and a meal at the zoo, under a pavilion, where the zookeepers themselves will be serving salads and grilling BBQ chicken, beef and veggie burgers, and hot dogs. Then, when the zoo closes, the zookeepers will lead us on a private, after-hours tour. One of the highlights of the zoo is the observation hive. Bring lots of questions about how observation hives are maintained at public places (or kept for your own enjoyment)! We will return to campus by 8:30. (This is a nonalcoholic event.)
Social Events

Thursday Events

Bus Trip to Harvey’s Honey

Hear how Dottie Harvey’s hobby that went out of control turned into a profitable family business. Farmers along the East Coast depend on Harvey’s bees to pollinate their crops. With over 5000 hives, this year seven tractor-trailers full of Harvey’s bees went to California to help pollinate the almonds. Harvey’s Honey sells varietal honeys and beeswax and manufactures quality woodenware.

We will board the bus at 9:15 am with our boxed lunches for the ride to Harvey’s Honey. Board the bus on the parking lot side of the Conference Center (outside the registration desk). You must select a Thursday lunch on your registration. We will see the new extracting and bottling room. We will watch how the woodenware is manufactured, and then go out to see the bees. Observe how they quickly inspect their hives. The open feeding station is a sight you will not want to miss. We can also visit the store and purchase small items to take back on the bus with us. We will have our picnic lunch at the farm. We will return to Stockton by 3:30 so that we can hear Grant Stiles and the other final class session speakers.

Tickets are required to attend this event.

Honey Show Award Ceremony

The Honey Show Awards will be presented Thursday evening, after dinner. 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! The Honey Show Award Ceremony will be held in the Conference Center Event Room.
Thursday Dinner

Before the Thursday evening Honey Show Award Ceremony and Live Auction, join us for happy hour at 5:00 pm and dinner at 6:00 pm in the Campus Center Event Room. Tickets are required to attend dinner.

Thursday Live Auction

Come and bid on unique and interesting offerings at the Live Auction to be held in the Campus Center Event Room, immediately following the Thursday dinner and Honey Show Award Ceremony. An excellent opportunity to try different hive products and purchase unique baskets, arts, crafts and memorabilia.

Friday: Banquet and Award Ceremony

Wrap up the week with a Meet & Greet pre-banquet mingle at 5:00 pm in the Campus Center Event Room. Then at 6:00 pm, join us for a the Friday Banquet and our Annual Award Ceremony. At the dinner, there will be great food, awards, a few surprises, and you will meet the Delaware crew for 2017!

Tickets are required to attend this event.
Friday Evening Banquet Speaker: Maryann Frazier

Banquet speaker Maryann Frazier received her B. S. in Agriculture Education from Penn State University in 1980. In 1983 she completed a Masters of Agriculture in Entomology, specializing in apiculture. She has worked as the Assistant State Apiary Inspector in Maryland and for two years as a beekeeping specialist in Sudan and later in Central America. For the past 27 years, she held the position of Senior Extension Associate in Penn State's Department of Entomology and had responsibility for honey bee extension throughout the state and cooperatively across the Mid-Atlantic region. She has worked collaboratively with members of PSU's Center for Pollinator Research (CPR) to understand how pesticides impact honey bees and other pollinators. In addition, she has worked with a team of CPR and Kenyan researchers to understand the impacts of newly introduced Varroa mites on East African honey bee subspecies and help Kenyan beekeepers become more productive. She has taught courses in beekeeping, general entomology and teacher education and has participated in the Entomology Department’s innovative public outreach program. While Maryann retired in January of 2016, she continues to actively participate in applied research and extension in Pennsylvania and East Africa. Maryann is a Roger A. Morse Teaching/Extension Service/Regulatory Award winner and was the President of EAS, having planned the EAS conference in PA in 1994. She has been a frequent participant in EAS and will provide a stimulating finish to our 2016 NJ EAS meeting.

2016 American Honey Princess: Tabitha Mansker

Tabitha is the 20-year-old daughter of Gary and Wanda Mansker of Nevada, TX. She is pursuing studies in business and marketing and hopes to become a teacher. Tabitha stays busy helping to manage her family's 16 hives of bees and extracting honey for many commercial beekeeping operations.

As the 2016 American Honey Princess, Tabitha serves as a national spokesperson on behalf of the American Beekeeping Federation (ABF), a trade organization representing beekeepers and honey producers throughout the United States. The Honey Queen and Princess speak and promote in venues nationwide, and as such, Princess Tabitha will travel throughout the United States in 2016. Prior to being selected as the American Honey Princess, Tabitha served as the 2015 Texas Honey Queen. In this role, she promoted the honey industry at fairs, festivals, and farmers’ markets, via media interviews, and in schools.

The beekeeping industry touches the lives of every individual in our country. In fact, honey bees are responsible for nearly one-third of our entire diet, in regards to the pollination services that they provide for a large majority of fruits, vegetables, nuts and legumes. This amounts to nearly $19 billion per year of direct value from honey bee pollination to United States agriculture. Join Tabitha Friday afternoon for an Expanding Horizons workshop.
“Building a Sweeter Future” is the goal of every beekeeper. Join the American Beekeeping Federation (ABF), the American Honey Producers Association (AHPA) and the Canadian Honey Council (CHC) in Galveston, Texas, for the 2017 North American Beekeeping Conference & Tradeshow and we’ll build that future together.

FEATURES OF THE CONFERENCE INCLUDE:

- General sessions by industry and research leaders
- Presentations for Beginning, Serious Sideler and Commercial Beekeepers
- A vibrant tradeshow with over 120 vendors with the latest innovations in beekeeping
- Networking with 1200+ participants from all over the world to exchange beekeeping tips
- The 2017 American Honey Show and much more!

**REGISTER TODAY!** NABEEKEEPINGCONFERENCE.COM

**HOTELS:**
Galveston Island Convention Center and the San Luis Resort Properties
5222 Seawall Boulevard | Galveston, TX 77551

Guest room rates range from $99-$119 (plus tax).

JOIN THE MOVEMENT, GET INVOLVED AND BEE EDUCATED. **REGISTER TODAY!**

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**SCHEDULE AT A GLANCE**
(subject to change)

<table>
<thead>
<tr>
<th><strong>Tuesday, January 10</strong></th>
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<tbody>
<tr>
<td>All Day: Board and Committee Meetings</td>
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<tr>
<th><strong>Wednesday, January 11</strong></th>
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<tbody>
<tr>
<td>All Day: General Session</td>
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<tr>
<td>Noon: Tradeshow Opens</td>
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<tr>
<td>Evening: Welcome Reception &amp; Honey Queen Candidate Entertainment</td>
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<tr>
<th><strong>Thursday, January 12</strong></th>
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<tbody>
<tr>
<td>All Day: Track Sessions for Beginning, Serious Sideler and Commercial Beekeepers</td>
<td></td>
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<tr>
<td>All Day: Tradeshow</td>
<td></td>
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<tr>
<td>Lunch: Auxiliary Lunch/Meeting*</td>
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<tr>
<td>Evening: Social Activity – Moody Gardens Rainforest*</td>
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<thead>
<tr>
<th><strong>Friday, January 13</strong></th>
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<tbody>
<tr>
<td>Morning: Kids and Bees Program</td>
<td></td>
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<tr>
<td>All Day: General Session</td>
<td></td>
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<tr>
<td>All Day: Tradeshow</td>
<td></td>
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<tr>
<td>Lunch: Foundation for the Preservation of Honey Bees Lunch/Meeting*</td>
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<tr>
<td>Afternoon: ABF Business Meeting</td>
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<tr>
<td>Afternoon: 2017 Honey Show Live Auction</td>
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<tr>
<td>Evening: AHPA Banquet*</td>
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<tr>
<th><strong>Saturday, January 14</strong></th>
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<tbody>
<tr>
<td>Morning: Commercial Beekeepers Breakfast/Meeting</td>
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<tr>
<td>Morning: AHPA Business Meeting</td>
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<tr>
<td>All Day: Concurrent Hands-On Workshops</td>
<td></td>
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<tr>
<td>Evening: ABF/CHC Banquet with the Coronation of the 2017 American Honey Queen and Princess*</td>
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*Additional Charges

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**EARLY REGISTRATION**
by 10/31/2016
**REGULAR**
11/1/2016 - 12/16/2016
**ONSITE**
after 12/16/2016

<table>
<thead>
<tr>
<th><strong>PAYING MEMBER</strong></th>
<th><strong>NON-MEMBER</strong></th>
<th><strong>PAYING MEMBER</strong></th>
<th><strong>NON-MEMBER</strong></th>
<th><strong>PAYING MEMBER</strong></th>
<th><strong>NON-MEMBER</strong></th>
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<tbody>
<tr>
<td>Single Registrant Full Conference</td>
<td>$250.00</td>
<td>$310.00</td>
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<tr>
<td>Family Full Conference (2 adults &amp; any children)</td>
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<td>Single Registrant Day Rate</td>
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<td>Family Day Rate</td>
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<tr>
<td>Student/Educator Rate</td>
<td>$50.00 per day (must provide current student ID)</td>
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Paying member = Current ABF, AHPA and CHC dues-paying members. Rates are in US dollars. Non-member rates include a basic one-year membership to both ABF and AHPA.
**New Jersey Pinelands**

The New Jersey Pinelands is home to the most extensive surviving forest on the Eastern Seaboard between Maine and Florida. The Pinelands is a region of 1.1 million acres defined by federal and state legislation enacted to protect the unique ecological values of the Pine Barrens ecosystem by controlling development on a regional basis. The Pinelands landscape consists of generally flat, sandy and acidic soils deposited over millions of years of rising and falling sea levels. Early European settlers gave this region the derogatory name of “Pine Barrens” not because the region is barren of life, but simply because its acidic, sandy soils are an unfriendly medium for crops like wheat and vegetables. Indeed, the New Jersey Pine Barrens is a lush ecosystem that provides a haven for a growing number of rare species adapted to its unusual conditions. At least half of the Pinelands are privately owned and is not protected as state and local nature preserves.

The realization that the Pine Barrens is underlain by one of the continent's largest fresh water aquifers, and that the Pines also serve as home for many rare and endangered plants and animals, led to passage of federal and state legislation to protect the area's natural resources. Section 502 of the National Parks and Recreation Act of 1978 created the Pinelands National Reserve. New Jersey adopted the Pinelands Protection Act the following year. This Act implemented the federal statute, created the Pinelands Commission, and directed the Commission to adopt a Comprehensive Management Plan (CMP) to manage development throughout the region. In 1988 the Pinelands National Reserve was recognized as an International Biosphere Reserve by UNESCO, an agency of the United Nations. More than 20 million people live within an hour’s drive of the Pinelands, so this region represents a key recreational resource for this part of the country.

The Pinelands protection laws do not create a vast national or state park. Instead, they recognize that this unique landscape is still a working landscape, and that more people are coming to the region every year. These laws, therefore, seek to accommodate regional demand for housing and commerce within the Pinelands boundaries by planning for growth, rather seeking to exclude or stifle growth altogether. The Pinelands Comprehensive Management Plan recognizes preexisting towns and cities, directs new development into designated growth areas around the Pinelands edge, and provides the nation's most successful transfer of development rights system to compensate landowners in the most severely restricted preservation and agricultural areas.

Through its first thirty-five years, the Pineland protection program has been remarkably successful in preserving large contiguous habitats in the nation's most crowded and intensively developed state. Given its broad geographic scale and the intense economic and political pressures to which this program is daily subjected, however, the Pinelands protection rules are always under assault and suffer from gaps and weaknesses that threaten many local habitats of great ecological value. The Pinelands Preservation Alliance (PPA) was founded in 1989 to serve as the public's voice in defending the Pinelands protection program, engaging the public in this effort, and advocating for actions and policies to make the program stronger.

**Organizational History:** The Pinelands Preservation Alliance is now in its 27th year of advocacy and public education for Pinelands' ecological and historic resources. PPA was founded in 1989 to serve as an alliance of individuals and organizations interested in protecting the Pine Barrens ecosystem and advancing the innovative regional land use protections embodied in the Pinelands Protection Act and Comprehensive Management Plan. PPA has a staff of 7 full time and 2 part time employees, a Board of 23 scientists, lawyers, philanthropists and citizen activists, a large body of volunteers, and a membership of over 3,000 households and organizations. PPA staff have developed unique expertise in Pinelands conservation and regulations.

**WHAT ARE THE PINE BARRENS?**

New Jersey's Pinelands cover over 1.1 million acres, or about 20% of the state. It includes pitch pine forests, wetlands, coastal ecosystems like Barnegat Bay and unique historical resources.
Its sandy soils create acidic low nutrient conditions that only certain plants and animals are adapted to. As a result the Pine Barrens support plants and animal communities that are unique on earth. A growing number of species now have their greatest stronghold in the Pine Barrens, like the Pine Barrens Treefrog, because their habitats are rapidly being destroyed elsewhere.

Underneath the sandy soils of the Pine Barrens is vast supply of pristine water – held in the Kirkwood-Cohansey Aquifer. Over 17 trillion gallons of water is estimated to exist in the sand beneath our feet and it sustains all life in the Pine Barrens.

**HOW ARE THEY PROTECTED?**

This beautiful and unique area was once seen as a potential site for what would have been the largest jetport in the world (in the mid-1960’s) and city of 250,000 people called “New City” in the Pine Barrens.

The plan called for the creation of a city of 250,000, an industrial park and the largest airport on earth. An airport 4 times as large as Newark, LaGuardia, and JFK put together. Supersonic jets would land there from Paris, shuttle jets would take people to airports in the USA and high speed trains would take people to Philadelphia and New York.

The Forked River Mountains would be in the middle of the proposed city.

The jetport would take up 32,500 acres including the upper and lower dwarf pine plains, and Brendan Byrne State Forest.

The potential to lose this globally unique place prompted John McPhee to write his book – The Pine Barrens – which was first published in 1967.

McPhee’s book and the threat of the jetport galvanized citizens to protect what is now the largest open space on the eastern seaboard between Maine and the Florida Everglades. A mixture of citizen activists, environmental organizations and enlightened leaders pushed and pushed for protection for the Pine Barrens ultimately resulting in the establishment in 1978 of our country’s first National Reserve.
PINELANDS PRESERVATION ALLIANCE HISTORY

In 1989 leaders of major New Jersey conservation organizations and concerned citizens met to discuss the importance of protecting the New Jersey Pinelands. This included the Sierra Club, Environmental Defense Fund, Trust for Public Land, ANJEC, League of Women Voters of NJ, NJCF, and NJAS to name a few.

Out of this gathering came the creation of the Pinelands Preservation Alliance, which in 1989 became a private, non-profit membership organization dedicated to protecting and preserving the natural resources of the Pinelands. They saw a need to create an organization that could stand up to the pressures that were gradually eroding some of the protections put in place by the CMP (the extensive regulations created to manage growth in the Pinelands).

The Alliance was formed in recognition that the Pinelands Commission and the CMP are vulnerable to political pressure and compromise. PPA is the only private, non-profit membership organization dedicated to protecting the Pinelands.

MISSION:

PPA’s mission is to protect and preserve the resources of the New Jersey Pinelands.

GOALS ARE:

to preserve the Pine Barrens ecosystem, its plants and wildlife, its water, and its landscape throughout the National Reserve.
Promote wide public awareness of the values of Pinelands Resources and issues involved in their preservation
Advance permanent acquisition of land and development rights by private and public conservation agencies

(Reprinted with permission from Pinelands Preservation Alliance, www.pinelan)
Want to try out some different honeys? Exchange up to three jars of honey with another beekeeper!

Drop off up to three jars of honey, clearly labeled, when you arrive at the Registration Desk. You will receive a ticket for each jar. After noon on Friday, bring your tickets and exchange the tickets for jars of honey.

It's as simple as that.

We can help you share your insights through self-publishing. No stigma attached.

Cross-Pollinate!

Graphic design, self-publishing and web design from one beekeeper to another.
Visit malishpagonis.com.

Give us a buzz. 610.660.9044 or email Penelope: penelope@malishpagonis.com
We invite you to Delaware following New Jersey. Please join us next year for the 2017 EAS meeting in Newark, DE, July 31–August 4. If you are a faithful EASer you know the great EAS conference we hosted in 2007. Well, this one will be even better.

We will again be hosted by the University of Delaware, Clayton Hall Conference Center. Everything is in one big area from cafeteria to meeting rooms to vendors to shows and, of course, the program itself. Dorms are right there, adjacent to the meeting. If dorms are not your preference, there are a large selection of motels of every price range within a 5-minute drive of the Conference Center in Newark on Routes 273 and 896. And if you prefer something other than cafeteria-style food, main street (USA) is a pleasant 10-minute walk. If not to seek food, drink or lodging, be sure to stroll main, a 50s style experience with all the local townie/student “color” and variety.

We will deliver the usual excellent speakers and variety from the very practical beekeeping to the more scientific bee talks. The short course will have a beginner, an intermediate and more advanced beekeeping tracks. Conference mornings will feature our award winners and keynoters of note, and the afternoon will feature several options for workshops. We will have an auction night event on Thursday and our banquet on Friday night on-site. Tours will include some of the outstanding DuPont property mansions and gardens of the area. Or stroll over to the beeyard for a look at our local colonies.

Something for everyone. Plan now. July 31–August 4, University of Delaware, 2017 EAS. Our 60th and Dewey’s 50th year since first attendance (but he has not attended all of them over the years.) Respectfully submitted by Dewey M. Caron and Debbie Delaney.
Lyson 4 Frame Tangential Extractor
Holds 4 medium or two deep frames. Adjustable legs with a steel gear crank. The perfect entry level model at a great price.
Model: LYS0N2019N
$279

Lyson Radial 12 Frame Extractor
500mm diameter drum fits 12 medium or shallow frames. Includes two deep frame tangential adapters.
Free LTL shipping in the lower 48.
Manual Hand Crank Model: $695
Electric Motor Model: $895
Electric Motor Upgrade Kit: $275

Lyson 20 Frame Premium Radial Extractor
Holds 20 medium or 8 deep frames. Easy to use digital controller for the 350 watt (~1/2 HP) DC motor. Made for a lifetime of extracting and includes a five year warranty.
Model: LYS0NW230P
$1499

Lyson Honey Bottler
Actuated by foot pedal and pumps from a tank through an intake hose into containers. Fill about 350 one pound jars per hour.
Model: LYS0NW204001 BOTTLER
$2025

Lyson Heated Bottling Tank
Features digitally controlled heating elements in the walls and floor, preventing the need for a messy water jacket that needs to be constantly monitored.
Free Bottling Valve included.
50L Model: $850
70L Model: $950
America’s Oldest & Largest Beekeeping Supplier

A Wide Selection of Honey Containers

Protein Patties AP23

Varroa Controls

Extractor Kits

Suits V01250 Ventilated Suit (shown here)

Starter Kits M58101 Beginner’s Kit (shown here)

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