Conference Review
A REVIEW OF THE EAS 2019 SOUTH CAROLINA CONFERENCE

Awards and Grants
CONGRATULATIONS TO OUR WINNERS!

Master Beekeepers
REVIEW AND LATEST NEWS
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Greetings!

It was such a pleasure to see so many familiar faces in South Carolina this summer and to make new beekeeper friends from all over. As always, the week goes by too fast.

Conference planning is a mighty task and many thanks are extended to past president, Buddy May, program chairs, Dewey Caron and Dave MacFawn, the South Carolina planning team, and the many members of EAS for their tireless efforts over the course of two years to ensure a successful week in Greenville. Thank you also to the South Carolina beekeepers who graciously welcomed us to their state and to all the EAS volunteers who contributed their time and talents to ensure the week's events ran smoothly.

We are very excited to host the 65th Short Course and Conference in Maine next year, the week of August 3 – 7, 2020, at the University of Maine in Orono. This will be another great opportunity for members to connect with other beekeepers, improve skills, and gain valuable knowledge to bring home to their apiaries, classrooms, and bee clubs.

In recognition of the wide range of topics associated with beekeeping, the theme for the 2020 conference is “The Art and Science of Beekeeping.” Our aim is to have something for everyone, from the biology of honey bees, to the art of seasonal management, to complementary crafts and products of the hive. Both Short Course and Conference will feature exceptional speakers and provide a variety of educational experiences.

To balance your classroom and apiary time, there will be fun excursions and evening activities, including a visit to a commercial beekeeping operation and our state's largest woodenware manufacturer. On Wednesday evening, we've scheduled a lobster bake and picnic along with an EAS favorite – the Bee Olympics. If you are a novice to our crustacean fare, we will make sure you have proper instructions to enjoy this quintessential Maine experience!

Maine is a beautiful state, especially in summer, full of plentiful opportunities to enjoy the natural world. We invite you to make plans to join us for another great beekeeping conference...and perhaps stay for vacation!

On behalf of the 2020 planning team, we look forward to seeing you in Orono next year.

Best regards,

Peggy McLaughlin
EAS 2019 by the Numbers

REGISTRATIONS BY STATE:

• Alabama - 8  
• Arizona - 1  
• Colorado - 2  
• Connecticut - 2  
• Delaware - 3  
• District of Columbia - 1  
• Florida - 8  
• Georgia - 35  
• Illinois - 1  
• Indiana - 2  
• Kentucky - 4  
• Maine - 5  
• Maryland - 44  
• Massachusetts - 5  
• Michigan - 3  
• Minnesota - 2  
• Missouri - 1  
• New Hampshire - 2  
• New Jersey - 24  
• New York - 25  
• North Carolina - 73  
• Ohio - 11  
• Oklahoma - 2  
• Pennsylvania - 31  
• Rhode Island - 5  
• South Carolina - 91  
• Tennessee - 7  
• Texas - 6  
• Utah - 2  
• Virginia - 31  
• Washington - 1  
• West Virginia - 2  
• Wisconsin - 1  
• Puerto Rico - 3
PHOTOS:
1. Queens Presentation by Jen Berry
2. Bee Well Honey Farm Tour
3. Master Beekeeper Group Photo
4. Outside Apiary
5. Queen Rearing with Jen Berry
6. Honeyshow Display
7. Greenville Historic Walkign Tour with John Nolan

PHOTO CREDITS:
Susan Jones 1, 4, 5; Mary Sadkowski 2, 3; Steve Genta 6
PHOTOS:
1. Greenville Historic Walking Tour with John Nolan
2. Children’s Program with Cathy Vorisek
3. Outside Apiary
4. Honey Show
5. Queen Rearing with Jennifer Berry
6. Iron Hill Brewery Tour
7. Insect Pollinator Display
8. Bee Well Honey Farm Tour
9. Presentation by Geoff Williams
10. Bee Olympics, Frame Assembly Competition

PHOTO CREDITS:
Susan Jones 2, 3, 5, 6; Mary Sadkowski 4, 8, 10
SPONSORS AND DONORS OF THE 2019 EAS CONFERENCE

Not only do we want to thank those people, businesses and organizations that support the 2019 program but also appreciate the value in products and information that they bring to the experience. Their participation enriches our knowledge of what services and products are out there.

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

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- Dorinda Priebe

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- Andrew Dewey
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- Union County Beekeepers

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**DRONE LEVEL**
- Sam Golston

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- Blueberry Hills Travelers Rest
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- Douglas Galloway
- Sam and Cindy Golston
- New Hope Honery Farm
- Wild Mountain Honey

**SPEAKER & EDUCATION FUND**
- Douglas Galloway
- New Hope Honey Farm
- Sam and Cindy Golston

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- Charleston Community Bee Gardens and Charleston Area Beekeepers
- Mountain Honey
- New Jersey Beekeepers Association

**Designated Sponsorships**

**CONFERENCE BAGS**
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**LANYARDS**
- Betterbee

**HONEY SHOW**
- American Bee Journal
- Bee Culture Magazine
- Buffy Bee Company
- Busy Bee Company
- Dadant
- Maine State Beekeepers Association
- Mann Lake Ltd.
- Maryland State Beekeepers Inc.
- South Carolina Beekeepers Association
- W. Fisher Bee Farm
VENDORS OF THE 2019 EAS CONFERENCE

VENDORS

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dadant.com
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beeclubsales.com
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beeculture.com
Bee Hive Thermal Industries
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BEEpothecary
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Better Bee
betterbee.com
Books and More
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honeyflow.com
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littlemulebee.com
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OxaVap LLC
oxavap.com
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pigeonmountaintrading.com/
Pollinator Stewardship Council
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veto-pharma.com
The Painted Hive Body Competition

By Jajala Schweiger

The 6th Annual Painted Hive Body Competition was a complete success. We were able to raise over $3,800 this year. After expenses, we are able give one grant for $1,500. We only received two grant applications this year with one being incomplete. Our club voted to give the applicant with the completed application the full grant. This year’s recipient is Zachary Lamas. Our new Painted Hive Body Competition will begin at the end of October. Anyone is eligible to compete and anyone doing honey bee research is eligible to apply for a grant. Updates on the Painted Hive Body Competition can be found on our Facebook page NBA Painted Hive Body. Thank you to EAS for allowing us to be there this year. I hope we will continue to be invited back, including the 2020 conference.
EAS 2019 Auctions

by Deborah Klughers

This year’s auctions were fun and profitable for EAS! Almost $11,000 was raised from savvy buyers who worked very hard to be the highest bidder on amazing auction items. Speaking of hard work, the auction volunteers and everyone who helped were greatly appreciated for their assistance. We held three silent auctions and one live auction, and everything worked out pretty good. Not bad for a bunch of new-bees! We were in good hands though, with smooth talking auctioneer Mr. Benjamin Clark leading the show. He started the night with a few fun games and great prizes, followed by the big live auction. We had so much stuff; the bidders were very happy.

Thanks again to everyone who donated; we couldn’t do it without you! (Please bring more next year!) I don’t know if the volunteers or the bidders had more fun at the auctions, but I do know that I had a blast with everyone and highly recommend volunteering for at an upcoming EAS conference.
Hello! My name is Cathy Vorisek from Northwest Pennsylvania. I was asked to present a children's program at EAS this year. I thoroughly enjoyed the task and I greatly appreciate being asked. My husband and I have been actively beekeeping since my husband continued the enterprise from two of our children used the beekeeping as their FFA project. My husband is currently running about 200 colonies. I am a certified teacher for Pre-K through 8th grade. I have been a substitute teacher- teaching all levels for 30 years. I visit local schools and do bee presentations and sell/educate our customers through various activities and festivals. We sell honey and wax products including hand cream, lip balm and other wax products.

For our activity at EAS, at our morning session I had introduced the children to various activities available for them at stations for them to participate in. I appreciate all the local Beekeepers of the area for bringing in and donating the equipment and knowledge that was used! There were six stations available for children to learn and appreciate the honeybees. One station included allowing the children to view an observation hive and see how the bees made honey and where they lived. Another station involved children learning about the queen, worker and drone- their physical characteristics and the jobs they do in the colony. Another station involved learning about the different parts of the hive and proper names. Children were permitted to dress up in the bee suits and try out the different gear that Beekeepers used. They also learned correct terminology and reasons for the protection. Children also were given the opportunity to make a blossom while naming the parts of the flower, learning what flowers need to produce fruits, and why the bees are important in the process. Lastly, the children were given the opportunity to see how the honey is extracted from the hive. They observed the frames of honey, they participated in the uncapping process and helped to spin the honey out of the frame. The fun part was- through the generous donation of the frames- each participant was given a jar of honey to taste and share with their family. Again- I need to thank all the local Beekeepers that helped this program to be successful.

The afternoon beekeeping activity involving children ages 4-6 years old.

Children came into the room and we sat in a big circle on the floor. As our special guest we had Princess Nicole- the American Honey Princess. We started out talking about the Queen, Worker and Drone while looking at large pictures. We learned how different they look and the different jobs they do. We learned- using a puppet- six different things about the honeybees, we demonstrated doing the bee waggle with the young ones and kept them physically active. Sitting is boring!! For two hours we buzzed around and did different things, learning about honeybees.

Children and helpers were asked to put a yellow thumbprint on a canvas banner where they were transformed into honeybees. Princess Nicole was then given the mission to fill the banner with thumbprints to make a good productive hive.

At the end of both sessions, children were offered snacks made with honey- like honey BBQ potato chips, honey graham crackers, and other healthy snacks.

It was a very educational day for everyone involved and I was very grateful for the opportunity to share my teaching methods.

I also, for several years, have had the opportunity to visit high school classes for 4-5 days where I can present a complete unit of bee information to older students.

Again- thank you to the EAS Committee for the invitation and the opportunity. Thank you to everyone who helped this activity to run smoothly- including my daughter who had recently moved to the Greenville area. She brought her three children to add to the activity, and also assisted at the sign in table.
A big thank you to all the participants in our Honey Show this year. We had 84 people submit 209 entries into the show. It was an 8% increase in entrants and a whopping 80% increase in entries over the show last year. Our judges really had to earn their keep. Let’s keep the ball rolling and see if you can top those numbers at the upcoming EAS conference in Maine!

We had terrific attendance during the public viewing of the honey show. There were visitors from 18 different states that signed our guest book, with many wonderful compliments about the show. As part of the show, we were able to have the visitors sample the top 6 entries in our Black Jar contest. Judging by the almost empty jars, I believe the public agreed with the judges’ choices. Our three judges for the Black Jar contest were:

Nicole Medina, the 2019 American Honey Princess
Roy Smith, Welsh judge from Florida
Pam Fisher, our outstanding EAS representative.

Well Done, judges!

Carmen Conrad, from Ohio, was our top participant in the show this year. She won numerous ribbons, 2 silver tray awards, the Sweepstakes award, and also the Best in Show silver cup. The entry that won best in show was her creamed honey, which she chose to donate 1 jar for the auction on Thursday evening. That 1 – 16 ounce jar, netted an amazing $575.00. I believe our judges all agreed that it was the best entry of creamed honey we have seen or tasted in a very long time. Excellent work Carmen and congratulations on a job well done!

In our Mead and Honey Beer category, Paul Tancibok from South Carolina entered the honey show with his first ever attempt at making a braggot. Paul had never entered a honey show before in any category. Not only did his braggot win a first place blue ribbon, but it also won the silver award for the Mead and Honey Beer category. Paul proved that you don’t have to have experience with honey shows to be a winner. So don’t be afraid to take a chance and enter the next honey show at EAS 2020 in Maine or in your own state.

Good things can and do happen.

Sad to say, there were 58 ribbons not awarded this year in several different categories. There were 2 categories that did not have even 1 single entry, Sparkling Mead and Circular Comb Honey. I am sure that there are beekeepers out there that produce Circular Comb honey and brew up some outstanding sparkling mead. We have a sponsor for circular comb that would like to supplement this category, but we need your entries. So make a plan now to enter next year, you might just come away with the top prize.

To sum it all up, we had a great show with terrific participation and plenty of winning entries. So make your plans now to enter the EAS 2020 honey show in Maine and grab some of the awards and glory that come from being an EAS Honey Show winner.

See you next year.

Steve Genta
2019 Honey Show Superintendent

PHOTO CREDIT: Karla Eisen
EAS 2019 SILVER AWARD WINNERS

**Arts & Crafts Silver**
- Nancy Simpson

**Beeswax Silver**
- Carmen Conrad

**Honey Cookery Silver**
- Meghan McConnell

**Gadgets Silver**
- Deborah Klughers

**Extracted Honey Silver**
- Monica Schmitt

**Comb Honey Silver**
- Carmen Conrad

**Black Jar Silver**
- Burton Beasley

**Mead & Honey Beer Silver**
- Paul Tancibok

**Photography Silver**
- Deborah Sasser

**Overall Sweepstakes**
- Carmen Conrad

**Best in Show**
- Carmen Conrad

EAS 2018 HONEY SHOW RESULTS

**ARTS & CRAFTS SHOW**

**A1 Gift Arrangement**
- 1st: Virginia Webb
- 2nd: Carmen Conrad
- 3rd: Meghan McConnell
- 4th: Pam Hepp
- 5th: None
- 6th: None

**B2 Tapers Dipped**
- 1st: Carmen Conrad
- 2nd: Doug Galloway
- 3rd: Virginia Webb

**B3 Tapers Molded**
- 1st: Virginia Webb
- 2nd: Jane Schweiger
- 3rd: Carmen Conrad
- 4th: Louise Leguizamon

**B4 Novelty Candles**
- 1st: Virginia Webb
- 2nd: Doug Galloway
- 3rd: Louise Leguizamon
- 4th: Daphney Glass
- 5th: Carmen Conrad
- 6th: Jane Schweiger

**BEESWAX SHOW**

**B1 Beeswax Block**
- 1st: Carmen Conrad

**C2 Yeast Bread**
- 1st: Linda Tillman
- 2nd: John DeBenedett

**C3 Cake**
- 1st: Betty Casgrove
- 2nd: Taffee Oakes
- 3rd: Martha Kiene
- 4th: Marilynn Parker
- 5th: Lou Naylor

**C4 Candy**
- 1st: Meghan McConnell
- 2nd: Taffee Oakes
- 3rd: Virginia Webb

**HONEY SHOW COOKERY**

**C1 Cookies**
- 1st: Carmen Conrad
- 2nd: Keneth Jenkinson
- 3rd: Crystal Lehmkanking
- 4th: Marilynn Parker
- 5th: Martha Kiene
- 6th: Betty Casgrove

**GADGET SHOW**

**G1 Gadgets Large**
- 1st: Marilynn Parker
- 2nd: Ronnie Brannon

**G2 Gadgets Small**
- 1st: Deborah Klughers
- 2nd: Marilynn Parker
- 3rd: John Cullom
- 4th: Nancy Simpson
HONEY

H1 Light Honey
1st Monica Schmitt
2nd Virginia Webb
3rd Doug Galloway
4th Daphney Glass
5th Taffee Oakes
6th Pam McFarland

H2 Amber Honey
1st Taffee Oakes
2nd Marilynn Parker
3rd Monica Siwiak
4th Carmen Conrad
5th Linda Hooten
6th Anne Fraser

H3 Dark Honey
1st Carmen Conrad
2nd Virginia Webb
3rd Julia Mahood
4th Harold Keiner
5th Ray Wise
6th Cindy Hodges

H4 Creamed Honey
1st Carmen Conrad
2nd Monica Siwiak
3rd Daphney Glass
4th Deborah Sasser

H5 3 Sections Boxes Comb
1st Virginia Webb
2nd Robert McClintock
3rd Patricia Campbell
4th Jody Moore

H6 Three Circular Sections Comb
No entries

H7 Three 4” Square Cut Comb
1st Carmen Conrad
2nd Daphney Glass

H8 Three 16oz Jars Chunk Honey
1st Carmen Conrad
2nd Clyde Strang
3rd Russell Sprangel
4th Daphney Glass

H9 Frame of Honey
1st Daphney Glass
2nd Becky Johnson
3rd Carmen Conrad
4th Meghan McConnell
5th Jody Moore
6th Pam Hepp

H10 Black Jar Honey
1st Burton Beasley
2nd Henry Campbell
3rd Carmen Conrad
4th Robert McClintock
5th Kamie McGlynn
6th Kaitlin Fanning

MEAD & HONEY BEER SHOW

M1 Mead Dry
1st Cindy Hodges
2nd William Hingst
3rd Becky Johnson
4th Burton Beasley
5th Jane Schweiger
6th Pam Hepp

M2 Mead Sweet
1st Cindy Hodges
2nd William Hingst
3rd Christy Hemenway
4th Becky Johnson

M3 Mead Fruit or Juice
1st William Hingst
2nd Cindy Hodges
3rd Burton Beasley
4th Christy Hemenway

M4 Mead Sparkling
No entries

HB1 Beer Light to Medium
1st Justin Kay

HB2 Beer Medium to Strong
1st Paul Tancibok
2nd Justin Kay

PHOTOGRAPHY

P1 Photography - Closeup or Macro
1st Monica Siwiak
2nd Martha Kiene
3rd Judith Stanton
4th Deborah Klughers
5th Deborah Sasser
6th Becky Johnson

P2 Photography - Scenic
1st Julia Mahood
2nd Monica Siwiak
3rd Carmen Conrad
4th Ronnie Brannon
5th Becky Johnson
6th Deborah Sasser

P3 Photography - Portrait
1st Meghan McConnell
2nd Carmen Conrad
3rd Monica Siwiak
4th Deborah Sasser
5th Deborah Klughers
6th Martha Kiene

P4 Photography - Essay
1st Deborah Sasser
2nd Meghan McConnell
3rd Carmen Conrad
4th Deborah Klughers
5th Nancy Simpson

PHOTO CREDIT: Karla Eisen
EAS WELCOMES ITS NEWEST MASTER BEEKEEPERS

by Landi Simone and Debbie Delaney

Dr. Debbie Delaney and the Master Beekeeper testing team put twenty candidates through their paces this year at the South Carolina conference. Eleven of these candidates were taking the exam for the first time; nine were re-taking one or more of the four rigorous tests that must be passed in order to earn the title of Master Beekeeper. Please join us in congratulating our newest EAS Master Beekeepers!

DAVID ELGIE MACFAWN

David has kept bees in Maryland (Dark German bees), Virginia (Italian), North Carolina (Italian), Colorado (Russian), and South Carolina (Italian and Russian Hybrid). He is a North Carolina Master Craftsman Beekeeper (October 16, 1997), Co-Founded the South Carolina Master Beekeeping Program, awarded 1996 South Carolina Beekeeper of the Year, assisted Dr. Fell at Virginia Tech in the Virginia Master Beekeeping Program, Incorporated the South Carolina Beekeepers Association as a 501 C 3 Non-Profit Corporation, and published several (over 30) articles in the American Bee Journal, Bee Culture, and Beekeeping: The First Three Years. He currently publishes a monthly article in Bee Culture or Beekeeping: The First Three Years. David has published two books, https://outskirtspress.com/BeekingTipsandTechniquesfortheSoutheastUnitedStatesBeekeepingFinance and https://outskirtspress.com/gettingthebestfromyourbees.

ADAM HICKMAN

Adam's great grandfather was a beekeeper and honey bees have always fascinated him, “I guess it is in my blood.” He started keeping bees in 2012 and has become a honey bee renaissance man of sorts; from catching swarms, hosting open hive tours, owning a honey bee supply business, caring for hives for various community members to educate the public about honey bees. Adam loves to teach and is excited to spread his love of honey bees to the people in Alabama. Adam received his Eastern Apiculture Master Beekeeper certification on July 19, 2019 in Greenville, SC. Congratulations Adam!

KEVIN INGLIN

Kevin Inglin hails from northwestern NJ, where he lives with his wife Sharon and their two sons. He has been keeping bees since 2008. He currently manages about 15 colonies in both traditional Langstroth and non-traditional hives such as Warre, top-bar, and movable frame log hives. Some of you may already know Kevin and his deep, mellifluous voice from his Beekeepers Corner Podcast, which provides detailed information on hundreds of beekeeping-related topics. When he’s not “doing bees,” he’s restoring vintage cars and watching his brother and nephews race.

In addition to having served as president of the Northwest NJ Beekeepers Association, Kevin is very active both in his local club and the NJ state association. He and his cameras are familiar sights at bee club meetings where he can usually be found filming engaging presenters and posting the videos on-line. A professional IT website architect, Kevin puts his knowledge to good use in disseminating solid, accurate beekeeping information. Kevin himself is a frequent presenter on topics ranging from dealing with marauding bears to making lip balm. The EAS Master Beekeeper team is delighted to welcome him to our ranks.
JOSEPH COFFEY

Joseph was first introduced to bees by his Dad when he was just 10 years old. That experience in combination with witnessing a swarm left a huge impression on him. In 2008 he began reading scientific articles describing colony collapse and became concerned because of the importance of honey bees to agricultural production. In 2010 Joseph and his wife Ellen attended a Beekeeping in Northern Climates class at the UMN taught by Dr. Marla Spivak. Later that spring he purchased his first package and hive equipment. Since that time the “study” has become a passion and a business and last year they managed 105 colonies. He plans to transition into beekeeping full time after leaving the engineering profession.

FRANK RUTHKOSKY

Frank Ruthkosky hails from Exton, PA and has been keeping bees since 2007. He manages some 80 colonies, raises queens and nucs, and does both pollination and honey production. In his third year of keeping bees, Frank “bribed” Jim Bobb to take him to Georgia to pick up packages from Gardner Apiaries – a trip he’s repeated on several occasions. In Georgia, Frank not only helped Mike Gardner to shake packages, cage queens, and graft larvae, he also went wild pig hunting! More recently, Frank, with two friends, built his own honey house, which was approved by the PA Department of Agriculture. When he’s not working bees, Frank spends time with his wife and two children, and has a “real” job in marketing. He teaches a local short course in beekeeping for the Chester County PA Beekeepers and is a frequent presenter on a variety of topics.

Congratulations, Frank! We’re excited to see you join the Master Beekeeper team!

NANCY WICKER

Nancy Wicker started keeping bees when she acquired three feral swarm cutouts that had taken up residence in the walls of her NY barn. She decided that, since she’d evicted her tenants, she’d best take responsibility for caring for them in their new homes. As happens to so many of us, the dalliance became passion and Nancy has been keeping bees ever since. Her learning curve accelerated when she became the librarian for her local bee club and housed the club’s collection of bee books in her home.

Nancy’s hobby became a full time job when she went to work for Betterbee in Greenwich, NY. At Betterbee, she works with the firm’s own bees, answers customers’ questions, and is Editor of the company’s Newsletter. She also writes on-line articles on a near-daily basis on a variety of beekeeping topics, but is particularly interested in bee husbandry and biology. And, like so many other Master Beekeepers, Nancy teaches classes in beekeeping. We’re so happy to have her join us!

2020 Master Beekeeper Certification Exam
by Carol Cottrill

The Master Beekeeper Certification Committee would like to invite qualified EAS members to apply for next year’s certification exam. Persons interested in applying should have a minimum of 5 years as a serious beekeeper in some aspect of apiary management such as a very dedicated hobbyist, a commercial beekeeper, working for a commercial beekeeper or as an apiary inspector. Anyone wishing to take the Master Beekeeper Certification Exam should submit an application and recommendation by email to mbcertification@easternapiculture.org or by mail to Carol Cottrill, EAS Secretary, 60 Rolling Hill Drive, Naples ME 04055. The application and Recommendation forms can be downloaded from the EAS website or requested from the Certification Committee. The deadline for application is June 1st. More information about the Master Beekeeper Certification application process and the exam can be found on the website (www.easternapiculture.org) by hovering over Master Beekeepers and then clicking on Certification.
COME SEE MAINE FOR EAS 2020!

By Peggy McLaughlin

Come to Maine for the 65th EAS Short Course and Conference: “The Art & Science of Beekeeping,” August 3-7, 2020, at the University of Maine in Orono. It’s going to be an exceptional week of beekeeper education and fun!

Apiculturists of all levels will find something of interest in the multiple Short Course tracks – Beginner, Intermediate, and Advanced – as well as opportunities to go deeper on special topics such as Queen rearing and Microscopy. The Main Conference will feature keynote speakers, Ernesto Guzman, Sue Cobey, Samuel Ramsey, Cindy Bee, Tom Seeley, and others.

Do you have questions about honey bee health, varroa management, viruses? Come hear presentations on current research, learn practical seasonal management, and improve your skills in the bee yard. Interested in topics beyond everyday beekeeping? Attend one of the conference workshops: Cooking with Honey, Mead making, Photography, Beeswax crafts, Pollen identification, Recipe-to-Market, or Bee lining.

There will be plenty to do outside the classroom: field trips, restaurant tours, author book signings, and vendors. Bring your best hive products and crafts to enter in the Honey Show, and a few jars of your own honey to swap in the Honey Exchange. Enjoy a traditional Maine lobster bake on Wednesday night, help raise funds for honey bee research at the Thursday evening buffet and auction, and enjoy social time after the long week with fellow beekeepers at the Friday banquet and awards ceremony.

This year we will host a special Story Concert, a chance for you to share your best beekeeping tales. Stories inform, inspire, and strengthen our connections through shared experiences. Whether you participate as a storyteller or are part of the audience, it is guaranteed to be a great evening of entertainment. (See article on how to submit for the Story Concert on the next page.)

Mark your calendars, put in for vacation time, and plan your journey to Maine. EAS 2020 is going to be a great conference. You don’t want to miss it!

The fall hives are filling up, awaiting the winter chill... but don’t worry, the snow is usually gone by August.

Photo Credit: Janet Anker
You’ve Got a Story to Tell! Share it at EAS 2020

by Cindy Bee

If you’re a beekeeper, we know you have at least one really good story. And we want to hear it!

Whether it’s a story about processing your first harvest on the back porch so as not to mess up the kitchen, the fiasco of installing your first package, the time the bees taught you to slow down and listen, or what you went through to catch that swarm, you have a story. And we want to work with you to help you tell it. It can be funny, poignant, informative, or a lesson learned about yourself. After our judges choose those who will tell, we’ll contact you and begin the process of helping you craft your work.

Please send your intent to tell a story to Bee at beejourney2010@gmail.com. From there you will be instructed to send your actual story to a third party. Then from there your story will receive a number. No names will be on the stories themselves when the judges receive them in an effort to be impartial in our choosing.

Please try to craft your story with the intent that in the telling it will be no longer than five minutes. This is not an easy thing to do, so write your story out (about two pages double spaced maximum) and we’ll help you trim it down to the finest points. Remember, a story has a beginning, a middle, and an ending with something salient happening within. In the end, someone has typically changed (for the better or worse).

Know that you’ll be telling your story live. There will be no notes or props. You’ll be speaking into a microphone to a live audience of beekeepers who can certainly sympathize with your travels in the bee world. If you’d like an example of how this looks, google, Moth Radio Hour Episodes, and click on some of the stories there.

Here are some guidelines to keep in mind: The Four “Fs”

1. Your story should be Factual – a true story as best you can remember it.

2. First person – your story should be about YOU, not someone you know or something you heard about.

3. Free of notes – you’ll tell this from your memory, as if relaying it to a friend or at a party.

4. Five minutes – We’ll help you hone down your story but it should, in the end, be no longer than five minutes.

YOU CAN DO THIS! AND IT’S GOING TO BE A LOT OF FUN! SO SEND IN YOUR INTENT TO TELL: beejourney2010@gmail.com.

DEADLINE FOR SUBMISSIONS: MARCH 1, 2020
Meet a Maine Master Beekeeper

By Janet Anker

Andrew Dewey was recognized as an EAS Master Beekeeper at EAS Kentucky in 2014. As is typical of Master Beekeeper candidates, he had passed 3 of the 4 exams previously, and only had one exam to complete (the lab). When he found out he passed he “was excited to be admitted to a special club of beekeepers.” At an EAS conference Dewey met Dr. Jerry Bromenshenk of the University of Montana; that inspired Dewey to get recognized as a University of Montana Master Beekeeper in 2016.

“I looked at the Master Beekeeper designation as a type of union card,” Dewey explained. “I was teaching Beginning and Intermediate Beekeeping courses for the University of Maine’s Cooperative Extension and I wanted to enhance my credibility as a teacher.”

“Little did I realize that the Master Beekeeper designation is really the beginning of a lifelong curiosity about honey bees. Scratching that itch is something I hope to do forever.”

Dewey is currently the Executive Director of the non-profit, Maine Bee Wellness. “It’s about all bees – Honey and native. I believe there is plenty of room in the environment for both. What is most important is a healthy habitat with adequate foraging opportunities.”

He credits the EAS conferences, and the short courses in particular, with being wonderful learning opportunities for Master Beekeeper preparation. “At my first EAS conference in Ellicottville, NY, I took Larry Connor’s Microscopy course. I hadn’t touched a microscope since high school. He had us looking at virgin queens. Wow.”

“And getting to meet and talk with my beekeeping heroes, like Mike Palmer, Randy Oliver, Tom Seeley; priceless.” At other conferences he has attended short courses on topics from queen grafting to insights on varroa biology. Dewey says that while he reads about bees almost constantly between conferences, “it is really nice to hear knowledgeable speakers address topics they are passionate about.” This year’s conference attendees will know what I mean when I say, “Varroa sucks!”

Master Beekeeper candidates have to know honey bee biology and for Dewey, reading and answering questions over and over in on-line forums such as BeeSource, was his way of learning. “That, and going to every open hive I could AND reading every book about bees I could get my hands on.”

These days Dewey is one of the Admins for the Facebook group Northeast Beekeeping. He writes a weekly column - “as close to a blog as I’ll ever get.” - about various beekeeping topics. “Maybe someone will catch the bug,” he says, “that is my hope anyway.”

For his own beekeeping, he says he is “down” to 14 hives in one yard. “Langstroth of course, but also a Warre, Deep Horizontal and Kenya style Top Bar too. I wasn't going to keep the Top Bar this year, as the bees died. But then a swarm moved in.”

One of the hives is on a scale due to Dewey’s participation in the Bee Informed Partnership-Sentinal Apiary Program. This is the 4th year he's been involved, thanks in part to sponsorship by the Maine State Beekeepers Association. Citizen science is a big interest of this Master Beekeeper.

“I'm so looking forward to EAS Maine next year. Both my kids are graduates of the University of Maine, where the conference will be held next year. It is just a tremendous place for learning: great facilities! I've been pleased to take courses over the years there, most recently for Maine's Bumble Bee Atlas. It will be a terrific venue, and from what I've heard, there is no way I'd miss it.”
2019 Award Winners:

**THE ROGER A. MORSE OUTSTANDING TEACHING/EXTENSION SERVICE/REGULATORY AWARD SUPPORTED BY ANITA WEISS FOUNDATION**

by Peggy McLaughlin

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.

The 2019 recipient of the Roger A. Morse Award stands out in the world of apiculture not only for the depth and breadth of her teaching and outreach, but for her great generosity of spirit. The many letters of nomination received on behalf of Jennifer Berry were generous too, heaping well-deserved praise on someone whose efforts have been, according to one supporter, “deeply impactful...on so many individuals.”

Jennifer Berry is a Research Professional IV and Lab Manager for the Honey Bee Program, Department of Entomology, at the University of Georgia. For over twenty years, she has taught, mentored, organized beekeeper training programs, and presented to the beekeeping community around the world. Jennifer has been the major organizer for the annual Georgia Master Beekeeper Program training and testing at Young Harris University and a mentor for virtually all UGA students over the years. “She is the glue and resolve that has helped UGA develop a renowned Beekeeping Program,” wrote one supporter, and from another, “She is a model ambassador for bees and beekeeping.”

Jennifer has been instrumental in helping educate inmates of the Georgia prison system in the art of beekeeping, both in maximum and medium security prisons. To date nearly 100 individuals have been certified. She also developed the “Will Work for Food” program to teach young people about beneficial insects, including pollinators, and the need for conservation.

Jennifer lent her considerable expertise and talents to the team that coordinated the development and publication of Protecting Georgia’s Pollinators: A State Plan for promoting a large, healthy and diverse pollinator workforce and took the lead in publishing the final document. Her design skills were further utilized to create the “Georgia Bee Aware” flag.

Her teaching extends well beyond the state of Georgia and many beekeepers will recognize Jennifer from her regular articles in beekeeping journals. She has been extremely dedicated to EAS, where she has been a frequent speaker and participant at the annual conference. Her thoroughly prepared and enthusiastic presentations, workshops, and events, including a very popular queen rearing track, have been in high demand since 2003. Her fascination with bee biology is infectious and to those who know her she is “…a master at keeping her outreach engaging, relevant, and in alignment with the latest scientific findings.”

Jennifer Berry has touched many lives as a dedicated Extension Apiculturist. Her unique style of educating beekeepers and the general public alike about bees and beekeeping has influenced many. As one supporter stated so well, “What makes Jennifer exceptional is not just the sheer number of outreach and educational projects that she has pursued throughout her career, but the passion with which she does it and the exponential effects from these efforts on the beekeeping industry and on society at large.”
The James I. Hambleton Memorial Award was established by the Eastern Apicultural Society of North America to recognize research excellence in apiculture.

EAS is proud to present the 2019 James I. Hambleton Memorial Award to Dr. Reed Johnson, Associate Professor, Department of Entomology, Ohio State University. Dr. Johnson is a leader on the toxic effects of pesticides on honey bees and is considered by many to be the most prominent toxicologist in apicultural research today.

Dr. Johnson completed his PhD at the University of Illinois, Urbana-Champaign in 2008 under noted entomologist, Dr. May Berenbaum. His project merged new technologies from genomics with traditional toxicology on non-target insects such as honey bees. Regulatory agencies and beekeepers alike became aware of the sublethal effects of pesticides on honey bees because of his “trailblazing” research.

During a two-year post-doctoral position at the University of Nebraska with Dr. Marion Ellis, Dr. Johnson studied the synergistic effects of synthetic acaricides. This work, as noted by one of his nominating supporters, “...is still hailed today as some of the best examples of how pesticides can be fairly benign individually but can have a 1,000-fold increase in toxicity when used together.”

In his current position at the Experiment Station in Wooster, Ohio, Dr. Johnson conducts research, teaches, and provides beekeeper education through extension services. His lab focus seeks to understand how to protect pollinators from the pesticides and other toxins they encounter. He has been a leader in determining the impact of corn seed treatment insecticides on honey bee colonies and has investigated the potential harmful role of inert ingredients on honey bees when exposed to pesticides. Additional areas of research include the effects of urbanization and management techniques on beekeeping, pollen barcoding for high-throughput analyses of foraging sources, and pesticide exposure in agroecosystems.

Dr. Johnson’s extensive and diverse published papers are “simply an outstanding contribution to honey bee science,” and to the hobbyist beekeeper, his extension work, information notes, presentations to local, state, and regional beekeeper groups, and citizen science project on brood frames, consistently enlighten and inform.

Dr. Johnson’s research has advanced our scientific understanding about honey bees, in particular, the potential threats they endure from pesticides. We look forward to his future contributions in the fields of toxicology and apiculture.
The EAS Student Apiculture Award was established to recognize students studying apiculture at the undergraduate or graduate level in a recognized college or university in the United States or Canada.

This year’s Student Apiculture Award recipient is Lauren Rusert from North Carolina State University. Lauren joined Dr. David Tarpy’s lab in 2017. Her graduate studies are focused on honey bee queens, their biology, and their application to apiculture.

Lauren’s interest in apiculture began during an undergraduate class at Penn State University taught by Maryann Frazier, where she worked as the lab’s field technician for 3 years. During her last year at Penn State, she worked with nutritional diets in Brazil in David De Jong’s lab. After graduation, she moved to Hawaii where she took a job as an apiary technician and helped develop the Hawaiian Department of Agriculture’s new Apiary Inspection Program. Her last two years there, she oversaw the entire program and was the Hawaii Apiary Section Chief. In Hawaii, she worked closely with large-scale commercial queen producers and conducted research. The Hawaiian Islands provided a unique opportunity for Lauren to study queens from both varroa-free and varroa-infested islands. According to Dr. Tarpy, Lauren’s work on mating biology and population genetics is “poised to make a significant impact” in the field of apiculture.

In addition to her current MS work at NCSU, Lauren conducted research this past summer on queen acceptance into new colonies. She has been a dedicated instructor and practitioner of extension and outreach, and has co-authored many articles and extension notes on a variety of topics. She has been described by co-advisor Dr. Jeff Pettis as “an excellent role model” and “the type of student we want to promote in Apiculture, Entomology and science.”
Ed & Elaine Holcombe Distinguished Speaker Awards 2019

by Dewey M. Caron

At EAS 2017 we started a new tradition of recognizing a Distinguished Speaker Award. This new award, similar to the Roger Hoopingarner Award for the American Bee Federation Distinguished Speaker, was made possible by a generous contribution to EAS by Ed and Elaine Holcomb, EAS Life Members of Shelbyville Tennessee. Mike Palmer was our initial Distinguished Speaker at Delaware in 2017 and Jamie Ellis of University of Florida was recognized at VA EAS in 2018.

This year at 2019 EAS in Greenville, SC, two individuals were recognized as Ed and Elaine Holcombe Distinguished EAS speakers, one for our Short Course and the other for Program. Our EAS Distinguished Program Speakers in EAS 2019 in Greenville, SC were Bill Hesbach, EAS MB from Connecticut and Cindy Bee. Both received certificates at the Annual Banquet in recognition of this accomplishment.

Mann Lake Eastern Apicultural Society Master Beekeeper Scholarship

by Patrick Harrison

First, Thank you to the EAS Scholarship committee and Mann Lake for helping me and paying my way to and from South Carolina this July. I first heard of the scholarship from Master Beekeeper Landi Simone. Landi and I manage about 200 colonies of bees in northern New Jersey.

I really enjoyed the diverse talks offered at the conference, but in particular I found talks pertaining to queens and queen rearing most captivating. I have yet to start to raise my own queens, but talks by Jennifer Berry on the subject have put things in motion. Points made like keeping diversity in the operation and breeding with a focus on Varroa fascinate me.

In the next couple of years I plan to grow my operation of honey sales and my concierge beekeeping service in northern New Jersey.

Special thanks to Landi Simone, John Gaut, Pam Fisher, and of course Brenda Kiessling.
Call for Nominations

By Carol Cottrill

CALL FOR NOMINATIONS:

- EAS James I. Hambleton Memorial Award
- Roger A. Morse Outstanding Teaching/Extension Service/Regulatory Award
- Student Apiculture Award

2020 DIVELBISS AWARD

At each annual conference, the Eastern Apicultural Society presents the Charles and Evelyn Divelbiss Education Award. This award is presented to that person or couple who has - over a period of years - reached out to the non-beekeeping public to explain the value of honey bees in our lives. The nominee does not need to be from your own state or province.

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

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

The deadline for submissions is April 30th. Nominations and letters of support should be emailed to Secretary@easternapiculture.org.

2019 EAS MANN LAKE SCHOLARSHIP

This scholarship, sponsored by Mann Lake Ltd. and created and administered by the EAS Master Beekeepers, was established to encourage a worthy young individual to pursue an interest in honey bees and beekeeping. The Scholarship will provide financial assistance for the selected candidate to attend an annual EAS conference. In addition to the waiver of registration fees by EAS for the short course and the main conference, the Scholarship will provide up to $1,000 to the successful candidate to offset other conference expenses such as travel and lodging.

The candidate may be any young person between the ages of 18 and 25 who is a full-time student, or is not a full-time student but is currently employed by a commercial or sideliner beekeeper and plans to pursue a career in apiculture. If the candidate is a veteran of any branch of the U. S. armed forces, the age limit is 30. The candidate must have been keeping bees for a minimum of one year by the time the conference for which the scholarship is requested begins and although they may have a beekeeping mentor, they must be primarily responsible for the care of their bees. The candidate must also have participated in a local short course in beekeeping.

Qualified candidates must complete an application form (available on the EAS website) and must provide letters of recommendation from at least two experienced beekeepers, preferably a mentor and another beekeeping individual familiar with the candidate’s experience and qualifications. Candidates must also write an essay of no less than two, and no more than three, double-spaced typewritten pages describing their reasons for wanting to attend the EAS conference. The essay should also outline the candidate’s ambitions with respect to beekeeping, including both short and long-term plans.

Applications must be received by the Chairperson of the Mann Lake Scholarship Committee by April 30th. Additional information and the application form can be found on the EAS website: http://www.easternapiculture.org/master-beeknees/youth-scholarship.html. Questions can be sent to the scholarship committee at: MannLakeScholarship@EasternApiculture.org or to Brenda Kiessling, 10610 Hunters Valley Rd., Vienna, VA 22181.
**2020 JAMES I. HAMBLETON MEMORIAL AWARD**

This award was established by the Eastern Apicultural Society of North America to recognize research excellence in apiculture. Award nominations must include a biographical sketch of the nominee, a c.v. that includes a current list of their publications, specific identification of the research work on which the nomination is based, and an evaluation and appraisal of the significance of the research accomplishments of the individual. One letter of nomination and an additional letter of recommendation supporting the nomination are required (minimum 2 total). Additional documentation or support letters regarding the individual’s research accomplishments are welcomed, but not necessary. The deadline for submissions is **February 1st**. Nominations and supporting documents should be emailed to AwardNomination@easternapiculture.org.

**2020 EAS STUDENT APICULTURE AWARD**

The Student Award was established to recognize students studying apiculture at the undergraduate or graduate level in a recognized college or university in the United States or Canada. The award nomination must include a biographical sketch of the nominee, a list of any publications, specific identification of research work and an evaluation and appraisal of the accomplishment of the nominee for up to a five-year period. A minimum of one letter of recommendation, in addition to the nomination letter, in support of the nomination is required; additional support letters are welcome. The deadline for submissions is **February 1st**. Nominations and supporting documents should be emailed to AwardNomination@easternapiculture.org.

**2020 ROGER A. MORSE OUTSTANDING TEACHING/EXTENSION SERVICE/REGULATORY AWARD SUPPORTED BY ANITA WEISS FOUNDATION**

This award is given annually to recognize an individual in teaching/extension and/or regulatory activity in the field of apiculture. Nominations for this award are welcome from any person in the field of apiculture. Self-nominations are acceptable. Nominations shall consist of a letter documenting the achievement of excellence in any or all the areas of teaching/extension and/or regulatory activities in apiculture. Some indication of the appointment responsibilities should be included. In addition, a suitable CV or resume documenting the activities of the nominee must be submitted. One letter of nomination and an additional letter of recommendation supporting the nomination is required (minimum 2 total). Additional documentation or support letters documenting the individual’s accomplishments are welcomed, but not necessary. The deadline for submissions is **February 1st**. Nominations and supporting documents should be emailed to AwardNomination@easternapiculture.org.

**2020 EAS FOUNDATION FOR HONEY BEE RESEARCH GRANT**

This is a competitive grant program developed from donations received from beekeepers and others interested in funding research on topical problems in honey bees. Proposals are solicited annually with award amounts to be determined the spring before the EAS annual meeting. Proposals are welcome from any individuals conducting research on honey bees.

Proposals should briefly outline the objective and a plan of work, to be completed within one year of funding, and a justification for the proposed work. Evaluation of proposals will be made on scientific merit, relevance of the proposed project to beekeeping, reasonableness of the budget proposal to the actual work to be performed, potential for securing or adding to funding from other sources, and finally, interest of proposed research to EAS members.

Additional submission details can be found at www.easternapiculture.org/honey-bee-research, and further inquiries can be directed to HoneyBeeResearch@easternapiculture.org.

An electronic copy of the proposal should be submitted by **February 1st** to the email account, HoneyBeeResearch@easternapiculture.org.
2019 EAS Foundation for Honey Bee Research

Two research projects were awarded EAS Foundation Grants in 2019. There was a total of 14 very competitive grants were submitted on a variety of topics.

**GRANT 1:**

A grant for $6600 was awarded to Emma Mullen, Dr. Christina Wahl and Dr. Bryan Danforth from Cornell University for their grant titled "Honey bee viruses found in comb from dead overwintered colonies"

As most beekeepers are aware, there are many factors that play a role in honey bee colony losses, but the major cause is Varroa mites and their associated viruses. While feeding, mites can transmit several viruses to the bees. Samples collected in 2016 by the NYS Beekeeper Tech Team at Cornell University found that 96% of colonies tested positive for DWV, 52% for acute bee paralysis virus, 15% for Lake Sinai virus 2, 10% for Israeli acute paralysis virus, and 1% for Kashmir bee virus.

Comb is a valuable resource that takes bees considerable energy and resources to construct so it is widespread practice for beekeepers to reuse comb from dead colonies. While various sterilization protocols exist to disinfect equipment from pests, bacterial diseases, and gut parasites, no disinfection protocols currently exist for viruses. Honey bee viruses are detected in comb in living colonies, and it is likely that they can remain viable in stored comb for weeks or even months.

The question arises: Is it safe for a beekeeper to the reuse comb from hive that died from viral infection? Mullen et al. aims to start addressing this question by:

1) determining whether some of the most common honey bee viruses persist in combs after the colony dies, and
2) ascertaining whether management practices and Varroa levels influence virus levels found in these combs.

Since at least one of the most prevalent and pathogenic viruses (DWV) is stable in the environment over time, the research team predicts that viruses will be present at varying levels in comb from colonies that died over winter. If virus levels in comb are influenced by Varroa levels and beekeeper management practices, the team predicts viruses will be higher in

1) combs from colonies that had high Varroa populations the previous beekeeping season,
2) colonies in crowded apiaries where bee drifting (and therefore Varroa drifting) is commonplace, and
3) colonies transported to southern states during winter where warm temperatures permit Varroa to reproduce throughout winter.

The researchers will aim to answer their questions by working with several beekeepers that had previously been assessed for mites by the NYS Tech Transfer Team and had hives that died over the winter. Comb from colonies that died over winter will be removed and viral loads will be quantified using quantitative PCR. The samples will be screened for the seven most common viruses found among New York State colonies: deformed wing virus, acute bee paralysis virus, chronic bee paralysis virus, Israeli acute paralysis virus, Kashmir bee virus, Lake Sinai virus 2, and Varroa destructor virus 1. The researchers hope that the findings from this project will allow them to better understand the longevity of viruses in comb after the death of a hive and identify management techniques that may minimize viruses in comb.
GRANT 2:

A grant for $5319 was awarded to PhD candidates Pierre Lau and Alexandria Payne from Dr. Juliana Rangel lab at Texas A&M for the grant titled “Optimizing macronutrient ratios in honey bee (Apis mellifera) diets as a mechanism for pathogen defense”

Honey bee pathogens are a concern for the beekeeping community. Two of the more common pathogens infecting honey bees are the microsporidian Nosema ceranae and Deformed Wing Virus (DWV). Currently, there are no available registered treatments for colonies infected with either of these diseases. Other insects have been shown to alter their diets to self-medicate for the diseases. Unfortunately, the research on ecological immunity in social insects is rather limited.

Lau's overarching research goal is to determine if different macronutrient ratios in honey bee diets can affect the survivorship and expression level of genes important for growth, development, and immunity in bees infected with either N. ceranae or DWV.

Their two main objectives are to determine:

1. The macronutrient intake of uninfected honey bees in a caged laboratory choice assays using artificial diets.

2. The effect of different macronutrient ratios in honey bee diets on the survivorship and the expression of genes important for growth, development, and immunity in honey bees infected with Nosema or DWV parasitism.

To reach the objectives, Lau and Payne will present newly emerged bees with two different diets: a low protein (5:1) and a high protein (15:1) diet. Food resources will be weighed daily to quantify the macronutrients consumed. Bees in each diet group will be infected with either N. ceranae or DWV. The effect of diet on growth, development, and immunity in bees will be assessed by comparing hypopharyngeal gland size, total lipid content and the expression of Vitellogenin, glutathione-S-transferase activity, phenoloxidase activity, and alkaline phosphatase activity of the bees. The researchers hope that their research will lead to better understanding of the role that diet plays on the survivorship and expression level of genes in bees infected with either N. ceranae or DWV.
by Tammy Horn Potter and Dewey M. Caron

Tammy Horn Potter, EAS representative, welcomed the Honey Bee Health Coalition stakeholders to Kentucky for our annual work session. Dewey Caron attended as WAS representative. There were two presentations on Queen Breeding:

Selecting for Behavioral Resistance to Varroa Destructor
- Krispin Given, Apiculture Specialist, Purdue University Department of Entomology

Krispin, as he did for EAS meeting last year in VA, covered the ways and means of doing Bee breeding. He discussed both varroa sensitive hygiene (VSH) and mite-biting/chewing bee (sometimes called ankle-biters). The grooming by bees as a mite reduction bee behavior is a selection from years of effort at Purdue University. VSH behavior, defined as behavior of a worker bee that opens a capped cell and pulls out pupae when varroa mites are reproducing, was a selection of the USDA Bee Breeding Lab in Baton Rouge in Louisiana.

Krispin labels Varroa as the most consequential honey bee health risk, especially as it transmits Deformed Wing Virus (DWV), plus other viruses. The Purdue breeding program points to Mite biting being a recessive trait. Unfortunately he related that once the mite-biting queens are open mated, or if continuous rigorous seasonal selection of high mite-biting is stopped, the “mite-biting” trait quickly disappears.

Breeding for Improved Varroa Resistance to Support Honey Bee Health and Crop Pollination Services
- Danielle Downey, Executive Director, Project Apis M.

The “holy grail” of beekeeping is finding a bee that can help themselves and control the varroa mite without the necessity of beekeeper intervention. Beekeeping needs to get off the chemical treadmill. Miticides are expensive, they may leave residues and continued use increases the possibility of resistant mites. Danielle expressed the opinion that breeding could help solve problems that commercial beekeepers have had for decades; she discussed a demonstration research project focused on the VSH trait.

The reality is continuing unsustainably high winter/annual losses means beekeepers have to rebuild half of their eventual colony number every year. This demand for replacement bees is outstripping the supply of queens needed by split hives. The breeding effort by USDA researchers Drs. John Harbo and Jeff Harris, resulted in the VSH trait being made available to replicate/promote by the queen rearing industry to use in their own programs.

To demonstrate how this might be accomplished Danielle outlined a program in Hawaii. Hawaii is great place for queen breeding because one can breed year-round and 4 large-scale queen rearers are concentrated in one area of the Big Island Hawaii. Since there is no winter to act as natural mite pressure, it is a good place for mite research. With Apis-M and other support, a research team in Hawaii began to test VSH stock against commercially available stock in side-by-side comparisons. Trials started in 2017 and expanded in 2018. Thus far, the research is revealing consistently good results: i.e. good mite control. The researchers have been able to reduce number of annual miticide treatments needed with stock in Hawaii. One unexpected negative consequence is the VSH stock is showing slightly lower honey production.

The shortcomings of both breeding programs was brought out in discussion. Increasing the VSH trait requires drones that also have the VSH trait and mite grooming requires continuous selection to maintain the trait. This makes it difficult for the commercial queen production industry to incorporate such behaviors with focus only on quality queen stock. One take away was that scaling up and seeking to incorporate one or both of these useful traits to reduce mite numbers will need involve a dual focus – both queens and the drones the queens will mate with.

Other news from HBHC was the release of new
information on Best Management Practices In cooperation with industry association, beekeepers and growers. BMPs of canola and corn were developed and are available on the HBHC website https://honeybeehealthcoalition.org/honey-bee-health-coalition-members-release-corn-canola-guides-for-bee-protection/. The two new BMPs join an earlier one for soybean growers and the recently developed one for Beekeepers https://honeybeehealthcoalition.org/hivehealthbmps/

Newly released by HBHC is critical information for beekeepers on the foulbrood diseases and the Veterinary Feed Directive. Use of the antibiotic oxytetracycline for EFB now requires a prescription from a veterinarian, a VFD. The flyer helps focus on how to look for and confirm an EFB diagnosis. It also discusses why antibiotic use for AFB is not the best practice. Tylosin also needs a VFD for purchase. The reason why a VFD is required and how to seek one is included. Dewey was one of the authors with Tammy a reviewer.
Honey Bee Health Coalition, April 17-18, 2019, Louisville, KY
Tammy Horn Potter welcomed the Honey Bee Health Coalition stakeholders to Kentucky. Mary Reed and Barbara Bloetscher also represented AIA

Presentations on Queen Breeding:
Selecting for Behavioral Resistance to Varroa Destructor -- Krispn Given, Apiculture Specialist, Purdue University Department of Entomology
- Varroa transmits Deformed Wing Viruses and perhaps other viruses; varroa is still biggest honey bee challenge
- Mite biting seems to be recessive trait
- A big Issue with open mating/stopping selection means the “mite-biting” trait quickly disappears

Danielle Downey, Executive Director of Project Apis M, gave a second presentation on Queen Breeding: “Breeding for improved varroa resistance to support honey bee health and crop pollination services”

Below are some notes from her talk:
- The “holy grail” of beekeeping is finding bee that can help itself, get off chemical treadmill, breeding could solve problems that commercial beekeepers have had for decades
- With losses so high, beekeepers having to rebuild half colonies every year, and the demand for bees is outstripping the supply of queens for spilt hives
- Hawaii is great place for queen breeding because can breed year-round. Also, since there is no winter to act as natural mite pressure, it is a good place for mite research
- Controlling drones is hard part of breeding
- Miticides expensive, leave residues, increase possibility of resistant mites
- The VSH behavior is defined as behavior of a worker bee that opens a capped cell and pulls out pupae when varroa mites are reproducing. This is a different behavior from “mite chewing” behavior described by Krispn Given.
- The VSH trait was observed at USDA lab in Baton Rouge and researchers, notably Drs. John Harbo and Jeff Harris, tried to replicate/promote that trait in hopes of industry picking it up in their own breeding programs, but industry didn’t.
- After breeding, a research team in Hawaii began to test VSH stock against commercially available stock in side-by-side comparisons. Trials started in 2017 and expanded in 2018 to a few other states.
- Thus far, the researchers are seeing consistent results: good mite control but slightly lower honey production. The researchers have been able to reduce number of annual miticide treatments needed with stock in Hawaii
- Summation: This research looks promising and the team is looking for more partners and funding to scale up project.
- The shortcoming is that it requires drones to have VSH trait, it is hard for the commercial queen production industry to adapt to that because breeders used to controlling queens only

Photos: Alli Langley (3) and Tammy Potter (1)
Pollen Identification

by Linda Mizer

As fall approaches we find our beloved honeybees, along with a wide variety of pollinating wild bees and other insects, flitting from flower to flower bringing in the last of the nectar and pollen, at least up north. A few examples are pictured below from the Montreal Botanical Gardens in Quebec, Canada and a wild field in NY State. The images of pollen granules below match one of these flowers and show once again the beauty that lies within the field of a light microscope.

1. Black-eyed Susan, *Rudbeckia hérissée*
2. Statice, *Limonium sinuatum*
3. New England Aster, *Symphyotrichum novae*
4. Willow Aster, *Symphyotrichum lanceosolatum*
5. Goldenrod, *Solidago spp.*

POLLEN CREDIT:

Many thanks to Stewart Spinks, Norfolk Honey Company, for providing these pollen images from Goldendrod plants – I am a patron of his work and hope you will check him out for providing these pollen images from Goldendrod.
Drones have been used in war, espionage, research, videography — and farming. If you use your computer’s search engine and enter the word drone, you get hits for the artificial drones of technology, almost never finding references to the drones we know in our bee colonies. Wikipedia, the on-line encyclopedia, has 5 subheadings of drones; one includes honey bee (and ant) drones but the other subheadings: Science and Technology; Arts; Entertainment; and Media each have many more sub-listings.

Use of artificial drones in agriculture is enjoying a steep growth phase. Dropcopter [www.dropcopter.com], a company advertising their mission as “Aerial Pollination for Agriculture,” reports producing “way more fruit using a drone than when using honey bees … a 25-60% pollination set on cherries and almonds and significantly increasing the pollination of king blooms on applies.”

May Berenbaum, Univ Illinois, discussed drones in her Buzzwords (American Entomologist) column Bot-Flying. She reported that Walmart (yes that Walmart) has received a patent on Pollinator “drones” because they wish “control over its future food supply chain in the post-bee-apocalypse hellscape.” Hmmm... something we need to begin to plan for? Will blueberries be the next crop to benefit from drones?

Use of drones as a grower tool in blueberries is actively being investigated. Drones can spot troubled areas in a blueberry patch in a fraction of the time it takes to scout on foot. David Bryla, USDA horticulturist, says: “What’s new is that we’re building drones for more specific use with berries. We’re taking it to the next level.”

Drones take aerial images and gather data when flying over blueberry patches. They work best mid-day and when wind is not a factor. They can pick up on stresses such as low nitrogen or pathogens, measure the density of canopy cover, tell the temperature of plants, and estimate pollination success. With a thermal camera, a drone can detect drought stress — which can help manage water use or identify leaks or gaps in irrigation coverage.

The research project includes developing a phone app for real-time analysis. A Washington State Department of Agriculture specialty crop grant is funding the research in both Oregon and Washington, states where blueberry production has expanded extensively. Drone technology can help farmers lower production costs and improve efficiency, needed in the current competitive market for this crop.
The Apimondia World Beekeeping Awards, or what we more commonly refer to as the “honey show”, was an interesting event. Much of the reported focus featured the high rate of disqualified extracted honey entries, allegedly as a result of failing laboratory testing. On a brighter note, several EAS members were proud award winners and a few served as judges. Congratulations to Mark Fiegl for taking home two gold and two silver awards for Beeswax Block, Tapered Candles, Decorated Candles, and Comb Honey; Albert Chubak who won silver for his incredible historical beekeeping book collection, and to Deborah Klughers who won a bronze for her innovation of a top bar hive feeder-treater. Thanks to all other EAS members who may have entered the show (and please forgive me if I left any award winners out unknowingly). While most of the judges came from the United Kingdom and Ireland, EAS members, Ann Harman, Virginia Webb and Mary Cahill-Roberts also assisted as judges.

Honey Shows are a representation of the good news about beekeeping. We all should be encouraged to make a small effort to showcase our craft. Participating in a honey show helps you practice producing a superior product, and this should be the same quality seen on a store shelf, a farmer’s market or sold from home. Apimondia 2019 was a wonderful example of the good friends, experiences, and doors that bees have opened to us on a world-wide scale. It’s not just about showing off, but learning to provide the highest quality product for the customer. The EAS Honey Show committee hopes to see your entries on the show bench at EAS Maine 2020!
Bekeeping together within agriculture

DEB KLUGERS
Photo credit: Karla Eisen

MARK FIEGL
Photo credit: Karla Eisen

ALBERT CHUBAK
Photo credit: Karla Eisen

Photo credit: Tom Graves, Jr. Central VA Images
EAS UPDATES

EAS State Meetings

**VIRGINIA**
Karla Eisen
Virginia State Beekeeping Association (VSBA) Fall Meeting - 2 November 2019 at Blue Ridge Community College, in Weyers Cave, VA. Featured speakers will be North Carolina State University's Alison McAfee & Wellesley College's Heather Matilla. [https://www.virginia-beekeepers.org](https://www.virginia-beekeepers.org)

**KENTUCKY**
Tammy Horn Potter, KY State Apiarist
Nov. 9. KSBA fall meeting. Featured speaker, Leslie Cobb, Food Label Specialist at Kentucky Department of Food Safety. Bullitt Central High School, Shepherdsville. Free to members, lunch included. Break-out sessions.
Nov. 16. Kentucky Queen Bee Breeders Association, Featured speaker, Brock Harpur, Purdue University. Kentucky State University Farm. Free to members. Lunch included.

**MARYLAND**
Patti Wong
Fall Meeting and Honey Show
SATURDAY, November 02, 2019
9:00am - 4:00pm
Maryland Department of Agriculture 50 Harry S Truman Parkway, Annapolis, MD

**NEW JERSEY**
John Gaut
The Northeast NJ Beekeepers will host this year’s state meeting on Saturday, Nov. 9. Speakers include: Dr. Weiner, Ramapo College on the Importance of Native Plants; Ramapo students on their bee-related projects; David Gilley, Department of Biology at William Paterson. The keynote speaker will be Christina Grozinger, a distinguished professor of entomology and director for the Center of Pollinator Research at Pennsylvania State University. A Roundtable discussion on “The Future of Honeybee Problems/Pests/Pathogens” will also be held with Grant Stiles of Stiles Apiaries, former state apiarist Tim Schuler, Gilley and Grozinger. The meeting will take place at Pascack Hills High School, 225 W Grand Ave, Montvale, NJ. For details [http://www.njbeekeepers.org/](http://www.njbeekeepers.org/)

New Jersey Beekeepers Association meeting in February, 2020 will feature Dr. Keith Delaplane, University of Georgia. Details can be found at [http://www.njbeekeepers.org/](http://www.njbeekeepers.org/)
Missoula, Montana
July 9–11, 2020

43rd Annual Western Apicultural Society Conference

HONEY BEE HEALTH

Conference Presenters

Jerry Bromenshenk, University of Montana and Bee Alert Technology
Scott Debnam, University of Montana Master Beekeeping Program
Sandra Hope, Microbiology and Molecular Biology Department, Brigham Young University
Randy Oliver, Scientific Beekeeping
Alyssa Piccolomini, State Entomologist, Montana Department of Agriculture
Steve Sheppard, Department of Entomology, Washington State University
Jenifer Walke, Department of Biology, Eastern Washington University
Dave Wick, BVS Inc
And More!

westernapiculturalsociety.org

WAS2020 is followed by the 4th International Hive Monitoring Conference, July 12–13. The Holiday Inn Missoula Downtown has set aside a block of rooms for both groups.
EAS BUSINESS MEETING MINUTES
July 19, 2019 – 11:30 a.m.
Greenville Convention Center
Greenville, SC

Call to Order and Welcome: Chairman Erin MacGregor Forbes presided over the 64th EAS Annual Business Meeting at the Greenville Convention Center on July 19, 2019 and called the meeting to order at 11:30 am.

Secretary’s Report - Carol Cottrill
Approval of August 17, 2018 Virginia Business Meeting Minutes (Published in the Journal). A motion was made to approve the minutes as published, the motion was seconded, voted and passed.

Treasurer’s Report/Audit Report - Jacky Hildreth
The 2018 Conference in Virginia made approximately $47,000. It appears that this year’s conference will break even or make a small profit. EAS showed a loss last year due to market fluctuations in investments. Investments have improved in the first six months of 2019.

Chairman’s Report – Erin Forbes
Erin thanked everyone for their support and hard work during her term as Chairman. Lou Naylor will become Chairman after this conference.

Past President’s Report (EAS 2018) - Pam Fisher
Pam thanked all the volunteers who helped to make the 2018 Virginia conference a success.

President’s Report (EAS 2019) - Buddy May
Buddy thanked all who worked on this year’s conference and noted attendance was 629.

Vice President’s Report (EAS 2020) – Peggy McLaughlin
Peggy gave a presentation on EAS 2020, which will be held at the University of Maine in Orono, prior to the business meeting.

Sites:
• 2020 - Maine
• 2021 – Massachusetts would like to host
• Georgia, New York and Pennsylvania have expressed interest in hosting

Committee Reports

Awards
Hambleton - Reed Johnson – Ohio State University
Morse - Jennifer Berry – University of Georgia
Student - Lauren Rusert – North Carolina State University
Membership – Lou Naylor
EAS has 1842 members – 105 have joined in the past 30 days. States that are interested in hosting a conference are encouraged to recruit members in advance of the conference.

Nominations for Officers and Directors:
Chair: Lou Naylor
Vice Chair: Linda Mizer
Secretary: Carol Cottrill
Treasurer: Jacky Hildreth
President: Peggy McLaughlin (ME)
The nominated officers were approved by a vote of the membership present.

States without Directors:
Rhode Island, Washington D.C, Illinois, Mississippi, Ohio, Vermont, Wisconsin, Canadian Maritime Provinces, Ontario, Quebec

Honey Bee Health Coalition
EAS is a dues paying member of the coalition. Matthew Mullica did a presentation on their work.

Honey Show – Steve Genta
Eighty individuals placed entries into the honey show this year.

Journal
Linda Mizer is doing a great job on the Journal – she is always looking for content!

Life Membership - Mary Duane
There were 26 new Life Members this past year and there are 532 Life Members total. Dr. Debbie Delaney stepped in as speaker for the Life Member Lunch on Thursday when our scheduled speaker was unable to attend.

Mann Lake EAS Scholarship – Brenda Kiessling
Patrick Harrison was this year’s Mann Lake Scholarship winner. Applicants can receive up to $1,000 to cover travel and lodging expenses and fees for the conference are waived.

Master Beekeeper Certification - Landi Simone
There were eleven new and ten retesting candidates this year. Six new Master Beekeepers will be announced at the Banquet tonight.

NEW BUSINESS
Resolutions - Erin MacGregor Forbes presented the 2019 Resolutions (copy attached).

ADJOURNMENT
A motion was made to adjourn the meeting. The motion carried, and the meeting was adjourned at 12:02 pm.

Submitted by Carol Cottrill, EAS Secretary
2019 Eastern Apiculture Society Resolutions

BE IT RESOLVED THAT:

1. EAS thanks Buddy May for his leadership as President
2. EAS thanks the South Carolina Beekeepers Association for hosting and sponsoring the 2019 Short Course and Conference.
3. EAS thanks the Greenville Convention Center, Visit Greenville, and The Hilton Hotel for working with us to make this year’s conference a success.
4. EAS thanks all who served as committee chairs and worked to make the EAS 2019 meeting a huge success including Erin MacGregor-Forbes, Linda Mizer, Pam Fisher, Carol Cottrill, Jacky Hildreth, Bob Talkiewicz, Erik Brown, Ned Morgan, Steve Genta, Lou Naylor, Bob Bauer, Doris Morgan, Barbara Tate, Brad Cavin, David MacFawn, David Weir, Debbie Klughers, Keith Inglis, Henry Campbell, Kerry Owens, Larry Coble, Larry Vickory, Dewey Caron, Muff Harner, Thomas Dailey, Cathy Vorisek, Jane Schweiger.
5. EAS thanks Buddy May for opening the Conference with a Welcome from Harry L. Ott Jr. of South Carolina Farm Bureau Federation.
6. EAS thanks our Co-Chair Program committee Dr. Dewey Caron and David MacFawn for developing a wonderful program.
7. EAS thanks Linda Mizer for producing this year’s program guide.
8. EAS thanks Debbie Klughers and Benjamin Clark for organizing and conducting our fundraising auctions.
9. EAS thanks Master Beekeeper Advisor Debbie Delaney, Dewey Caron, Landi Simone, Carol Cottrill, Dorinda Priebe, Richard McLaughlin and the many other Master Beekeeper volunteers who planned and carried out candidate testing.
10. EAS thanks Danny Cannon, David Weir, Leis Cauble, Mark Sweatman, Kim Pettit & Joy Deer, Chris Rucker, and Steve Jones for providing honeybee colonies for use throughout the meeting.
11. EAS thanks Honey Show Chair Steve Genta, and all who acted as judges and assistants for their work on our Honey Show.
12. EAS thanks David Weir and Brad Cavin Co-Apiary Chairs, and Don Hopkins, Jennifer Keller and Lewis Cauble for their work in the apiary.
13. EAS thanks Larry Coble for his help with the promotional material.
14. EAS thanks Cathy Vorisek and Barb Tate for organizing and conducting our Children’s Program.
15. EAS thanks Muff Harner for organizing our field trips and tours.
16. EAS thanks the EAS Executive Committee, Board of Directors and Committees for helping to make our organization a continuing success.
17. EAS thanks all volunteers who gave their time to assist in any way needed to create a warm welcome to our members and guests.
18. EAS thank all of the speakers for their presentations and for working for the improvement of the honeybee industry.
19. EAS thanks all volunteers who provided transportation to the airports and wherever needed.
20. EAS thanks each and every Vendor that participated.
21. EAS thanks Kerry Owen and The Bee Well Honey Farm for inviting us to tour their facilities.
22. EAS thanks all of the newspapers, magazines and TV stations that have continued to produce materials to bring awareness of honeybees and beekeeping to the public.
23. EAS thanks all of our Colony, Queen, Worker and Drone Level, Honey Bee Research and Speaker & Education Fund donors.
24. EAS thanks all of our Bronze and Silver Level, Children’s Program, refreshment break and Honey Show sponsors.
25. EAS thanks all who have so generously donated items to our auctions.
26. EAS thanks the Master Beekeepers who fulfill a core part of our mission.
27. EAS thanks all who have donated the time talents and resources to make this EAS a great success.
CALL TO ORDER
Erin MacGregor-Forbes called the meeting to order at 7:45 pm.

STATES/PROVINCES IN GOOD STANDING
Alabama, Connecticut, Delaware, Florida, Georgia, Indiana, Kentucky, Louisiana, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, District of Columbia

STATES/PROVINCES WITH EXPIRED DUES
Illinois (vacant), Michigan, Mississippi (vacant), Wisconsin (vacant), Canadian Maritime, (vacant), Ontario (vacant), Quebec (vacant)

PROXIES – None

ELECTION OF NEW DIRECTORS
The following nominations were received and approved by the Board:
- Marilynn Parker – AL (2023)
- Bob Bauer - DE (2023)
- Roger Blanco - FL (2023)
- John Gaut - NJ (2023)
- Mary Cahill Roberts - GA (2021)

ROLL CALL OF OFFICERS AND DIRECTORS
Erin MacGregor Forbes, Chairman; Carol Cottrill, Secretary;; Peggy McLaughlin, Vice President, ME; Pam Fisher, President Emeritus; Marilynn Parker, AL; Bob Bauer, DE; Mary Cahill Roberts, GA; David Hocutt, IN; Steve Repasky, Master Beekeepers; Dorinda Priebe, NH; John Gaut, NJ; Ben Carpenter, NY; Doug Vinson, NC; Lou Naylor, Chairman elect.

Attending via WebEx: Linda Allen Mizer, Vice Chairman; Jack Hildreth, Treasurer; John Baker, CT; Patty Wong, MD; Vincent Aloyo, PA; Karla Eisen, VA; Sam Golston, WV.

Absent: Buddy May, President, SC; Jim Bobb, Chairman Emeritus; Roger Blanco, FL; Linda Tillman, GA; Tammy Horn Potter, KY; Wesley Card, LA; Mary Duane, MA; Rich Weiske, MI; Jane Dennison, RI; Michael Coulter, TN; Peter Scott, Washington DC; Keith Inglin, Webmaster.

Guests: Erik Brown, Betty Cosgrove, Brutz English, Rick Fisher, Dave Galloway, Kris Kinsman Richard McLaughlin, Jerry Muller, David Priebe, Bob Talkiewicz.
SECRETARY’S REPORT - Carol Cottrill
The minutes of the March 16, 2019 Board of Director Meeting were distributed via email. A motion was made to approve the minutes as distributed, voted and passed.

States currently vacant:
- Illinois
- Mississippi
- Ohio
- Rhode Island
- Vermont
- Wisconsin
- District of Columbia
- Canadian Maritime Provinces
- Ontario
- Quebec

TREASURER’S REPORT - Jacky Hildreth
The interim financial reports were distributed by email (copies attached). The 2018 taxes have been completed. The conference in Virginia made approximately $47,000 last year. The interim results for the South Carolina conference currently show a loss but final income figures are not in. Last year ended with an overall unrealized loss of $22,000 due to market fluctuations in EAS investments. The Delaware Funds and the Honey Bee Research Fund suffered losses but some have been reversed due to better market conditions so far this year.

CHAIRMAN’S REPORT – Erin MacGregor Forbes
Massachusetts has indicated that they are interested in hosting the 2021 EAS Conference. Mary Duane and Dan Conlon are working on getting the information needed to present at the next board meeting. Mary Cahill Roberts indicated that Georgia is interested in hosting in 2022.

PAST PRESIDENT’S REPORT (EAS 2018) - Pam Fisher
The Virginia conference made money last year due to an awesome team effort by all involved!

VICE PRESIDENT’S REPORT (EAS 2020) – Peggy McLaughlin
The 2020 conference will be held at the University of Maine in Orono, August 3 – 7, 2020. The campus location is flat, ADA compliant, and sessions will be held in 3 to 4 adjacent buildings. Bees for the apiary will be supplied by Swan’s Honey. Accommodations will be available on campus in dorms as well as at nearby motels, hotels and campgrounds. Blocks of rooms will be reserved at a conference rate with reservations to be available in February. Lunches will be a la carte at the cafeteria. A lobster dinner is planned as one of the evening meals (with non-seafood alternatives available). Speakers have been contacted, the contract with the University will be available in August, and promotion materials have been developed. Save the Date cards are available for Directors – stop by the EAS 2020 table to pick up a supply. The vendor/sponsorship packet is being reviewed and revised and will be ready to go out this fall.
SITES:
- **2021** – Massachusetts is interested
- **2022** – Georgia is interested
- New York and Pennsylvania are also interested in hosting in the future

COMMITTEE AND OTHER REPORTS

**Awards 2019** - Peggy McLaughlin
- Hambleton - Reed Johnson – Ohio State University
- Morse - Jennifer Berry – University of Georgia
- Student - Lauren Rusert – North Carolina State University

**Divelbiss** - no nominations this year

**Finance** – Jacky Hildreth
Sam Golston, CPA, did a review of the 2018 financial reports and internal controls to assure EAS compliance with non-profit and IRS practices. Funds need to be used for the EAS purposes of education of beekeeping. He noted items that need better documentation: travel and entertainment and use of credit cards. Cash sales (e.g. tee shirt sales at conferences and auction item sales) need to have better documentation of the procedures used. Copy of his report is attached.
Peter Richardson, Certified Financial Planner, did the 2018 audit. Report attached.

**Membership** – Lou Naylor
Current membership is 1810 with 532 Life Members. South Carolina had 37 members in 2018; their membership is now 123.

**Historian** – vacant
EAS historical material is currently in storage in Maine. The materials have not been inventoried so it is unclear what material (objects, paperwork?) is included. Albert Chubak is interested in the Historian position and Karla Eisen is willing to work with him to assess the materials and determine how they can best be preserved and made available to the membership. A motion was made and seconded to appoint Albert Chubak as EAS Historian. The motion passed.

**Honey Bee Research** – 2019 grants
Grants were paid out of the General Fund so that the endowment would not be drawn down.
- Pierre Lau, Alexandria Payne, Dr. Juliana Rangel - Texas A&M: Optimizing macronutrient ratios in honey bee (Apis mellifera) diets as a mechanism for pathogen defense (amount requested $6,000)
- Emma Mullen, Dr. Christina Wahl, Dr. Bryan Danforth - Cornell University: Honey bee viruses found in comb from dead overwintered colonies (amount requested $5,319)

**Honey Bee Health Coalition** –
Links to the new material on the HBHC website were sent out to all Directors.
Honey Show
The Honey Show materials have been picked up from George Wilson in Virginia for use this year.

Journal – Linda Mizer
There were three issues of the Journal this year; although we would like to expand it to four, the fourth effort is currently the Conference Program. Directors need to send information on their upcoming meetings so they can be put in the Journal. The next deadline is August 26th.

Life Membership – Mary Duane
532 Life Members

Mann Lake EAS Scholarship – Steve Repasky
Patrick Harrison is the 2019 Mann Lake Scholarship winner. Patrick has worked for Landi Simone for a year, he owns HarBee Beekeeping and has a concierge beekeeping business in northern New Jersey. He has about 75 hives of his own and has helped a beekeeper in NC prepare bees for almonds. Patrick is 23 years old and a graduate of Ramapo College with an Environmental Science degree. He plans to make beekeeping his career.

Master Beekeeper Certification
There are eleven new candidates and ten retest candidates this year.

Policy & Procedures – Carol Cottrill
A revision to the EAS Privacy Policy was prepared by the committee and sent to the board for review. A motion was made and seconded to accept the revised policy as presented. Voted and passed. The revised policy will replace the one from 2012 currently in the EAS Policy and Procedure Manual. Copy attached.

NEW BUSINESS

Nomination of Officers with terms expiring:
Jack Hildreth was nominated for another term as Treasurer and Carol Cottrill was nominated for another term as Secretary.
Vice Chair – Linda Mizer – this position is appointed by the Chair. Linda Mizer has agreed to continue as Vice Chair.

Honey Show
Mary Cahill Roberts presented a proposal (copy attached) to promote education and consistency for honey show judging. After discussion it voted to form an ad hoc committee for Honey Show judge training and education.

ADJOURNMENT
The meeting was adjourned at 9:06 p.m.

Submitted by Carol Cottrill
EAS Secretary
### Balance Sheet Previous Year Comparison

**Jan - July 2019**  |  **Dec 31, 18**  |  **Dec 31, 17**  |  **Dec 31, 16**  
---|---|---|---
**INTERIUM** &nbsp; 

#### ASSETS

**Current Assets**

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<th>Description</th>
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<th>Dec 31, 16</th>
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**Other Assets**

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**TOTAL ASSETS** | **486,833.90** | **386,079.52** | **406,571.07** | **392,938.88** |

#### LIABILITIES & EQUITY

**Liabilities**

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**Other Current Liabilities**

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**Total Current Liabilities** | **128,713.47** | **69.00** | **4,450.24** | **2,060.25** |

**Total Liabilities** | **128,713.47** | **69.00** | **4,450.24** | **2,060.25** |

**Equity**

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<th>Description</th>
<th>Jan - July 2019</th>
<th>Dec 31, 18</th>
<th>Dec 31, 17</th>
<th>Dec 31, 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retained Earnings</td>
<td>-16,110.31</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Fund</td>
<td>2019</td>
<td>2019</td>
<td>2019</td>
<td>2019</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td><strong>Temporarily Restricted</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Ed Holcombe Distinguished Fund</td>
<td>14,000.00</td>
<td>14,000.00</td>
<td>14,000.00</td>
<td>14,000.00</td>
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<td>Ed &amp; Anita Weiss Memorial Fund</td>
<td>1,000.00</td>
<td>1,000.00</td>
<td>1,000.00</td>
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<td>Honeybee Research Fund</td>
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<td>0.00</td>
<td>2,708.00</td>
<td>15,051.00</td>
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<td>MB Youth Scholarship Fund</td>
<td>3,952.00</td>
<td>3,952.00</td>
<td>3,117.00</td>
<td>2,117.00</td>
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<td>Roger Morse Award Fund</td>
<td>0.00</td>
<td>0.00</td>
<td>-54.00</td>
<td>997.00</td>
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<td><strong>Total Temporarily Restricted</strong></td>
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<td>18,952.00</td>
<td>20,771.00</td>
<td>32,165.00</td>
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<td><strong>Unrestricted Net Assets</strong></td>
<td>383,168.83</td>
<td>383,168.83</td>
<td>370,107.63</td>
<td>351,428.11</td>
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<tr>
<td><strong>Translation Adjustment</strong></td>
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<tr>
<td>Net Income</td>
<td>-27,890.09</td>
<td>-16,110.31</td>
<td>11,242.20</td>
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<td><strong>Total Equity</strong></td>
<td>358,120.43</td>
<td>386,010.52</td>
<td>402,120.83</td>
<td>390,878.63</td>
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<tr>
<td><strong>TOTAL LIABILITIES &amp; EQUITY</strong></td>
<td>486,833.90</td>
<td>386,079.52</td>
<td>406,571.07</td>
<td>392,938.88</td>
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</table>
Eastern Apicultural Society of N.A,
Profit & Loss Previous Years Comparison

<table>
<thead>
<tr>
<th>Ordinary Income/Expense</th>
<th>Jan - July 19</th>
<th>Jan - Dec 18</th>
<th>Jan - Dec 17</th>
<th>Jan - Dec 16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Income</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumulative Translation Adj</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Del. Comm. Foundation Income</td>
<td>0.00</td>
<td>0.00</td>
<td>42,302.10</td>
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<tr>
<td>Donations Income</td>
<td>2,983.15</td>
<td>2,636.25</td>
<td>2,638.10</td>
<td>2,074.96</td>
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<td>EAS Journal Ads</td>
<td>160.00</td>
<td>950.00</td>
<td>0.00</td>
<td>0.00</td>
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<td>Exam Income</td>
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<td>2,250.00</td>
<td>2,250.00</td>
<td>2,150.00</td>
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<td>Interest Income, Other</td>
<td>0.00</td>
<td>419.14</td>
<td>519.18</td>
<td>222.05</td>
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<tr>
<td>Membership Dues</td>
<td>9,870.00</td>
<td>27,265.00</td>
<td>21,980.00</td>
<td>18,955.00</td>
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<tr>
<td>Unrealized Gains/Losses</td>
<td>0.00</td>
<td>-22,468.19</td>
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<tr>
<td><strong>Transfers</strong></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td>13,988.15</td>
<td>11,052.20</td>
<td>69,689.38</td>
<td>38,034.75</td>
</tr>
<tr>
<td><strong>Gross Profit</strong></td>
<td>13,988.15</td>
<td>11,052.20</td>
<td>69,689.38</td>
<td>38,034.75</td>
</tr>
<tr>
<td><strong>Expense</strong></td>
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<td></td>
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<td></td>
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<td>Bank Service Charges</td>
<td>3,089.26</td>
<td>5,244.12</td>
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<td>Board of Directors Meeting Exp.</td>
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<tr>
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<td>30.94</td>
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<td>Dues Reimbursement</td>
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<td>EAS Journal Print</td>
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<td>Interest Expense</td>
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<td>0.00</td>
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<td>Licenses and Permits</td>
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<td>502.51</td>
<td>175.00</td>
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<td>Master Beekeeper Prog. Expense</td>
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<td>0.00</td>
<td>309.62</td>
<td>800.00</td>
</tr>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
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<td>Office Supplies</td>
<td>50.04</td>
<td>93.15</td>
<td>143.52</td>
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</tr>
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<td>Postage and Delivery</td>
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<td>624.46</td>
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<tr>
<td>Professional Fees</td>
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<td>Program Expense</td>
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<td>QuickBooks Payments Fees</td>
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<tr>
<td>Reproduction/Copies</td>
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<td>Repairs</td>
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<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Staff Per diem</td>
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<td>345.00</td>
<td>295.66</td>
<td>468.00</td>
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<td>Web Site</td>
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<td>74,679.00</td>
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<td><strong>Net Ordinary Income</strong></td>
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Other Income/Expense

Other Income
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<thead>
<tr>
<th>Description</th>
<th>2019</th>
<th>2018</th>
<th>2017</th>
<th>2016</th>
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<tr>
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<td>28,574.00</td>
<td>34,880.00</td>
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<tr>
<td>Conference Attendee Fees</td>
<td>88,975.00</td>
<td>148,105.00</td>
<td>130,668.00</td>
<td>114,270.00</td>
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<tr>
<td>Conference Auction</td>
<td>0.00</td>
<td>11,591.00</td>
<td>9,944.50</td>
<td>10,854.47</td>
</tr>
<tr>
<td>Conference Sponsorships</td>
<td>2,725.00</td>
<td>4,600.00</td>
<td>3,750.00</td>
<td>12,550.00</td>
</tr>
<tr>
<td>Conference Vendor's Fees</td>
<td>34,060.00</td>
<td>34,375.00</td>
<td>15,245.00</td>
<td>14,500.00</td>
</tr>
<tr>
<td>Honey Show Sponsorship</td>
<td>4,900.00</td>
<td>5,900.00</td>
<td>5,800.00</td>
<td>4,700.00</td>
</tr>
<tr>
<td>Conference Attendee Fees</td>
<td>88,975.00</td>
<td>148,105.00</td>
<td>130,668.00</td>
<td>114,270.00</td>
</tr>
<tr>
<td>Conference Auction</td>
<td>0.00</td>
<td>11,591.00</td>
<td>9,944.50</td>
<td>10,854.47</td>
</tr>
<tr>
<td>Conference Sponsorships</td>
<td>2,725.00</td>
<td>4,600.00</td>
<td>3,750.00</td>
<td>12,550.00</td>
</tr>
<tr>
<td>Conference Vendor's Fees</td>
<td>34,060.00</td>
<td>34,375.00</td>
<td>15,245.00</td>
<td>14,500.00</td>
</tr>
<tr>
<td>Honey Show Sponsorship</td>
<td>4,900.00</td>
<td>5,900.00</td>
<td>5,800.00</td>
<td>4,700.00</td>
</tr>
<tr>
<td>Raffle Tickets</td>
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<tr>
<td>Short Courses</td>
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<td>0.00</td>
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<tr>
<td>Souvenirs</td>
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<td>4,515.00</td>
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<td>3,000.00</td>
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<tr>
<td><strong>Total Other Income</strong></td>
<td>130,660.00</td>
<td>209,326.00</td>
<td>197,671.50</td>
<td>194,754.47</td>
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<tr>
<td><strong>Other Expense</strong></td>
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<tr>
<td>Conf. Accommodations</td>
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<td>5,133.22</td>
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<td>Conf. Meals Special Events</td>
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<td>72,554.22</td>
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<td>Entertainment Expense</td>
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<td>Equipment Rental, Conf.</td>
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<td>5,170.00</td>
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<td>158.21</td>
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<td>Exchange Gain/Loss</td>
<td>0.00</td>
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<td>0.00</td>
<td>5,534.19</td>
</tr>
<tr>
<td>Honey Show Expenses</td>
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<td>1800.13</td>
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<td>Speakers</td>
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<td>20,617.00</td>
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<td><strong>Total Other Expense</strong></td>
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<td>191,793.49</td>
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<tr>
<td><strong>Net Other Income</strong></td>
<td>-1,264.67</td>
<td>47,516.49</td>
<td>5,878.01</td>
<td>27,035.81</td>
</tr>
<tr>
<td><strong>Net Income</strong></td>
<td>-27,888.09</td>
<td>-16,110.31</td>
<td>11,242.20</td>
<td>7,285.52</td>
</tr>
</tbody>
</table>
Dear Jacky,

I have examined the various documents provided to me in order to determine that the accounting procedures are in proper order. I reviewed the 2018 expense records and revenue records to conduct and then determine my observations and recommendations to you. The main objective here is to take a look at the internal controls in place. This is a process for assuring the EAS objectives in operational effectiveness and efficiency and compliance with laws (IRS rules) and policies.

Regarding the expense cycle, I found two areas of concern. One is the travel and meal expenses. The IRS requires that documentation of these type of expenses must include the name of the participants, the purpose—as to how it is benefitting EAS, and the relationship of the attendee to EAS. The policies and procedures manual should reflect this requirement. The second area is credit card purchases. The purchaser who holds the card should itemize what the purchase entails and provide more than the credit card receipt. I am not aware if there exists a master list of who is authorized to make credit card purchases and who approves usage of that particular card.

Regarding the revenue cycle, the procedure appeared fine with the dues flowing through the membership registrar utilizing “Wild Apricot” and PayPal transmittals. In the review of documentation for cash sales, I need to get a better understanding of how the procedures work concerning silent auction, live auction, t-shirt sales and miscellaneous cash transactions. In my opinion, and this may be what is occurring, the person in charge of function should sign and date transmittal to you, the treasurer, prior to you making deposit.

During the conference, I would like to sit down with you and go over the procedures for cash sales and petty cash disbursements to gain a better understanding. Consequently I will be able to offer some recommendations for improvement in internal controls.

If I missed any aspects that you wanted me to investigate or comment on, please let me know.

Respectfully submitted,

Sam Golston

Jacky Hildreth
EAS Treasurer
North Yarmouth, ME
EAS maintains investment accounts with Edward Jones and the Delaware Community Foundation.

Balances as of December 31, 2108 were as follows:

- Edward Jones Account $55,615
- Delaware Community Foundation (“DCF”):
  - Endowment Fund (donated by associations), account # EA964
    - Balance at 12/31/2017: $179,670
    - Balance at 12/31/2018: $164,840
  - Endowment Fund (donated by individuals), account # EA9964
    - Balance at 12/31/2017: $2,831
    - Balance at 12/31/2018: $2,597
  - The Honey Bee Research Fund, account # EA961
    - Balance at 12/31/2017: $129,313
    - Balance at 12/31/2018: $118,639

The Edward Jones account is invested in money market funds and CDs. This appropriately matches its purpose as a liquidity reserve.

2018 was a roller coastal year in the equity markets and the DCF funds dropped a bit in market value during the course of the year. After some ups and downs throughout the year, things took a turn for the worst in the fourth quarter, when the U.S. equity markets dropped by about 20%. The monies at DCF are in its “Flagship Fund”, a pooled fund designed for long-term growth. As such, about 60% of the portfolio is invested in equities, with the balance in less volatile holdings such as bonds and alternatives. While the portfolio is balanced and diversified, it is sensitive to changes in the equity markets, hence the decline in value year-over-year. With that said, after the close of our fiscal year (December 31), the markets perked up considerably as did the performance of the Flagship Fund.

Community foundations like DCF provide a level of professional management within their pooled funds that is not usually available to smaller investors such as EAS. The long-term portfolio return of the DCF funds is consistent with their benchmark and is reflective of a well-diversified portfolio constructed to achieve growth. This is suitable for the purposes of the EAS endowment and research funds.

My “credentials”:

I currently am employed as an investment adviser for R. M. Davis, Inc., an SEC registered investment advisory firm. My responsibilities include the management of funds for not-for-profit organizations.

Respectfully submitted,

Peter F. Richardson, Certified Financial Planner
Member Privacy

At the Eastern Apicultural Society, respecting the privacy and security of the membership’s personal information is important to us. **EAS does not sell or share any information about our membership to anyone.** The following paragraphs outline how the Society accomplishes that task.

Collection of Information

The Society collects personal information from the membership, conference speakers and vendors via several methods, including the following:

- Wild Apricot when registering as a new member or changing membership information.
- Wild Apricot when registering for the annual conference via the internet.
- The mail-in conference registration forms.
- Through mail-in membership application/renewal notices.
- Through Signup Genius when signing up as a conference volunteer.

What Information May be Collected

Members, conference speakers and vendors provide personal information, such as name, address, telephone numbers for home and work, email addresses, family/bundle names, and emergency contacts when registering for the annual conference and credit card numbers for prepayment of annual conference fees.

Uses of Information

Member personal information will only be used by EAS officials in execution of their official duties. Some of the ways personal information may be used include:

- Preparation of address labels for mailing copies of the EAS Journal.
- Use of email address to send links to the EAS Journal.
- Use of email address to send dues notifications.
- Use of email addresses to send notification of EAS events, schedules and opportunities to support the EAS mission.
- Prepayment of annual conference registration fees.
- Payment of items purchased at the annual conference.
- Preparation of rosters for smooth management of the annual conference.
- Contacting volunteers who sign up for annual conferences.
Periodically, EAS may publish a roster of members within the EAS Journal. A notice will be placed in the EAS Journal prior to publication of the roster asking members to opt in if they want their contact information included in this roster.

**Access to Personal Information**

Members of the EAS Executive Committee, the EAS Journal Editor, the Webmaster and the Conference Registrar will have routine access to Wild Apricot and the data that it contains in order to maintain the program, produce reports and mailing lists and manage data needed for the annual conference. Additional access to member information in Wild Apricot and/or Sign-Up Genius will be given only for a limited time frame if needed to assist in these tasks. At no time may access granted be shared with others without permission of the Executive Committee.

**Disposition of Personal Information**

Within 90 days of the close of the end of the annual conference the registrar will shred all registration documents that contain credit card information.

October 20, 2012
Rev. July 2019
July 14, 2019
Re: Honey Judges Certification
   (Honey Judges Association)

To the EAS board for consideration.

The EAS has a long-standing history of education, giving research grants, the master beekeeper program and honey shows. One part of EAS mission is education around honey products and presentation that may not get the attention that other areas of the mission do. EAS provides for a honey show every year, but may not provide for persons that know how to handle, or have the appropriate experience to judge products. EAS members deserve to have education around product preparation. Consumers deserve high end items from the apiary presented in a pristine manner. Educated Honey judges can help the entrants to improve their presentation to help meet this goal. As consumers become more educated around raw, natural and hive products the demand will increase for A+ products. EAS could meet this goal by supporting a honey judge certification association. EAS could partner with the association to allow its members access to certified honey judges. Although beekeepers take much effort and energy to produce and present their products in the show, the judges may have different backgrounds and viewpoints to judge various items. Judging may not be standard. The education of the judges may not be standard. The Honey Judges Association is a new organization to help any entity that is presenting a honey show to provide judges that are well educated, experienced and knowledge about apiary products. EAS has an opportunity to begin participation in this association as it grows to encompass honey shows.

The honey show:
It is an opportunity for beekeepers to showcase their products that they produce from the hive. It is also the opportunity to improve the standard and appearance of their apiary products. With award winning products the consumer can feel good about supporting the local beekeeper. Overall, it builds a good public image. It provides beekeepers an opportunity to learn how to present their products to the best standard to sell to consumers.

Presented by Mary Cahill Roberts
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