



Journal of the Eastern Apicultural Society of North America, Inc.

VOLUME 49, NUMBER 3 FALL 2022



EAS 2022 Conference

CELEBRATING *BEEING SOCIAL*

Master Beekeepers

WELCOMING NEW MEMBERS

Honeybee Health Coalition

TOOLS FOR VARROA MANAGEMENT
GUIDE



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THE EAS JOURNAL, FALL 2022

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FAREWELL from the Outgoing President

EAS is BAAACK!! Yep! There was a great turn out of old and new friends. We sure were social. From the Dine Around Ithaca outing, to dozens of excellent presentations, field trips to Cornell for hands on Microscopy experience, and the bee all end all field trip to Kutik's All Things Bees in Oxford NY.

Our friends at Kutik's definitely raised the bar, serving authentic Mexican BBQ to 250 people and topping off the warm Summer evening with a fantastic fireworks display!

I am honored to have been EAS President for the conference in New York State. I am doubly honored to have had the opportunity to associate with all of the other volunteers who are actually responsible for making the hundreds of moving parts come together, and

function, for this wonderful event simply known as EAS.

Speaking of volunteers, as the world comes out of the Covid Twilight Zone, do yourself a favor and step up to help out. Whether for your local bee club, statewide organization or national organization, they all could use a hand. Put your non-beekeeping abilities and experience to good use. You will make new beekeeping friends, learn many things and have a good time doing it!

See you at EAS Amherst, Massachusetts, in summer of 2023!

Keep Beeing Social!



A MESSAGE from the Chair

I want to thank all of those who came to Ithaca and helped to make our conference a success. I hope you had as much fun as I did, made some new friends, hugged some old ones and learned things to increase your appreciation of bees and the work of helping them thrive.

Our upcoming conference has the theme of Past, Present and Beyond. For EAS planning it all happens at once. As we finish up with the details of our Ithaca conference, we are meeting regularly to plan the future conferences. If you have time and talents, please volunteer to help. Send an email to secretary@Easternapiculture.org

Amherst Massachusetts is up next and they are far along in planning for a fantastic 2023 conference. This has been years of work interrupted by Covid cancellations

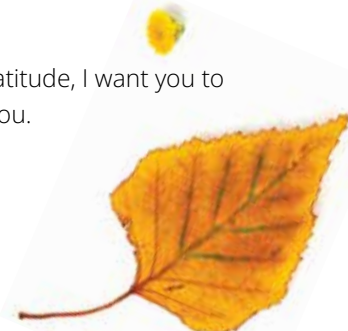
and the need to reschedule. Amherst University is a first class venue and the speaker line up is excellent.

Maryland has put in a bid for 2024 which we will vote to officially accept at our next Board of Directors Meeting. Maryland EAS members are a strong force and I am sure they will hold a great conference.

In 2025 we will be hosted by Michigan. It has been more than a decade since EAS was held there and we are really looking forward to it.

As we come into this season of gratitude, I want you to know that I am thankful for all of you.

Sincerely,



CONFERENCE REVIEW

Celebrating *Beeing Social* at EAS 2022



REGISTRATION: Final preparations for registration from dedicated volunteers Saranna Elkner, Bob Talkiewicz, Lou Naylor, Doris Morgan and Ned Morgan.

APIARY: Donald Hopkins and Jennifer Keller provided a number of opportunities to work with the bees in the apiary on the quad. *Photo by Anna Gallow*



SUNDAY EVENING SOCIAL: Social Meet and Greet on Terrace to reconnect or meet with new friends. *Photo by Joe Alvarez*



DINE AROUND TOWN: Over a hundred folks ventured out to dine around the town of Ithaca on Monday night. A wide range of locations and menus meant something for everyone and a great opportunity to chat bees and to meet fellow beekeepers.



KUTIKS: Wednesday classes were held at a commercial beekeeper farm - Kutik's Everything Bees in Oxford, NY. The great staff provided presentations and cooked up a wonderful pit-BBQ of pork, lamb and chicken with all the sides. Topped off by an amazing fireworks display! *Images by Joe Alvarez*



MICROSCOPY: (From top left to bottom right) Joan Mahoney assists with *Nosema spp.* sample collection and examination.

Dr. Christina Wahl assists registrants in the bee dissection portion of the Microscopy course

Dr. Debbie Delaney demonstrates examination of pollen grain samples.

Intense examination of bees under the dissecting microscope.





MASTER BEEKEEPER FIELD TESTERS. (Top Left) Bottom left to right: Dorinda Priebe, Alan Hayes, Larry Truchon, Landi Simone, Erin McGregor Forbes. Top left to right: David Burns, Paul Snellen, Jon Zawislak, Crystal Lehmaking, Dave Priebe, Ben Carpenter.



APIARY INSPECTORS OF AMERICA ATTENDEES IN ITHACA. (Top Right) Back row (left-right): Karen Roccasecca, PA chief; Dave Priebe, NH; Andrew Jones, PA inspector; Keith Tignor, VA. Third row: Joan Mahoney, NY chief; Emily Wine, DE.; Meghan McConnell, NJ. Second row: Don Hopkins, NC; Brooke Decker, VT; Kim Skyrn, MA chief. Front row: Hannah Blackburn, TX; Thalassa Raasch, ME; Jennifer Lund, ME chief; Nicholas Delaini, NY



STATE GROUPS. (Top Right to Bottom Right) Pennsylvania, Maryland, and New Jersey.

ATTENDEES BY STATE/PROVINCE AND BY COUNTRY: Beekeepers from 34 states and 4 provinces attended EAS 2022 along with participants from 4 other countries!

State/Province	#	Indiana	6	Nevada	0	Tennessee	1	Total	535
Alabama	0	Iowa	1	New Hampshire	7	Texas	5		
Alaska	0	Kansas	1	New Jersey	41	Utah	0	Country:	#
Arizona	0	Kentucky	6	New Mexico	0	Vermont	4		
Arkansas	2	Louisiana	0	New York	135	Virginia	55	United States	525
California	4	Maine	10	North Carolina	25	Washington	0	Canada	10
Colorado	1	Maryland	69	North Dakota	0	West Virginia	1	Bermuda	1
Connecticut	15	Massachusetts	27	Ohio	4	Wisconsin	2	France	1
Delaware	4	Michigan	5	Oklahoma	0	Wyoming	0	Ireland	2
Florida	5	Minnesota	1	Oregon	1			Mexico	1
Georgia	5	Mississippi	0	Pennsylvania	62	Alberta	1		
Hawaii	0	Missouri	2	Rhode Island	4	Ontario	6		
Idaho	0	Montana	0	South Carolina	6	District of Columbia	6	Total	540
Illinois	1	Nebraska	0	South Dakota	1	Quebec	3		



KEYNOTE SPEAKERS: Michael Palmer - *Brood Factories*; Dr. David Tarpy - *Eight Important Milestones in Beekeeping*, and Dr. Tom Seeley - *Five Behavioral Wonders of Worker Bees*.. Photos by Mark Gingrich



FRIDAY BANQUET: Friday night banquet - great meal to finish off the conference and the announcement of the Divelbiss Award winner - Dr. Thomas D. Seeley. Photo by Mark Gingrich

AUCTION: A large variety of items, new and old were auctioned during the week's silent auctions. Meghan McConnell and Debbie Klugher's ran the Thursday live auction that featured quilts, artwork, hives and state. The virtual auction raised \$1,278, the silent auction \$4,373 and the live auction \$5,500 + flow hive. baskets. Photos by Mark Gingrich



HONEY EXCHANGE: Friday morning - Honey Exchange pick up - so many jars to choose from! Photo by Grai Rice



Sponsors and Donors of the 2022 EAS Conference

Not only do we want to thank those people, businesses and organizations that supported the 2022 program but also appreciate the value in products and information that they brought to the experience. Their participation enriched our knowledge of what services and products are out there.

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CHILDREN'S PROGRAM

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HONEY SHOW

Arts and Crafts Award – Maine Beekeepers Assoc.
Beeswax Award – ESHPA/NYSBA and Bee Culture Magazine
Black Jar Award – NYS AG. and Market
Best of Show – Barkman Honey
Best Tasting Honey Award - NYS AG. and Market
Comb Honey Award – Wixson Honey Inc.
Extracted Honey Award – Mann Lake Bee & Ag Supply
Gadgets Award – BetterBee
Honey Cookery Award – Bee Culture Magazine
Mead and Honey Beer Award – Fisher Bee Farm
Photography Award – Dadant and Sons
Sweepstakes Award – Buffy Bee Company

Additional Honey Show sponsors

First and Second Places in Extracted Honey in Gamber Glass - Gamber Glass

First place finisher in each comb honey class receives a Ross Round Super - Hungry Bear Farms & Ross Rounds

A free admission to the EAS conference to the Best of Show - Liberty Hill Enterprises.

Engraving on the Plates and Bowl

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Special thanks to the Ithaca Visitor's Bureau for their provision of copies of the Ithaca Visitor Guide for our registration bags and the Kutik BBQ glasses.

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EAS Honey Show Report

The Honey Show at EAS returned this year in Ithaca, NY after a 2-year absence due to Covid related decisions. We had 151 entries from 52 exhibitors. Quality helped make up for the smaller than usual numbers of entries. A big thanks to all those who entered and congratulations to all who participated in the honey show. The Silver Award winners and placings are listed below.

Our sponsors are the quiet supporters of the honey show and we need to show our gratitude to them by supporting them beyond the week of the EAS conference. They provide the funds for the silver awards, rosettes, ribbons and other expenses needed to have a quality show. A special thanks goes out to the following sponsors: Betterbee, Dadant, Mann Lake, Buffy Bee Company, Bee Culture Magazine, Wixson Honey, Pioneer Plastics, ESHPA, Barkman Honey, The Maine Beekeepers Association, NYS Ag and Markets, Fisher Bee Farm, Gamber Glass, Liberty Hill Enterprises, Hungry Bear Farms and Ashby Jewelers.

I need to shout out a special thanks to all the volunteers who worked throughout the week in the Honey Show. This includes the whole team of judges, some veterans,

some rookies and some who came to our rescue at the last minute due to cancellations and Covid. George Wilson and Karla Eisen were always there with their years of experience and expertise in running a honey show. And finally, Kris Kinsman, our secretary, Chris Delaney, Richard Reid our “gopher”, Orna Clum, the flawless Head Steward, the rest of the Stewards and the volunteers all deserve credit and a big thank you for putting on this year’s show. You certainly made my job stress free and so easy. Thank You!

All in all, we had a great honey show with good participation, quality entries and lots of participation from conference attendees. So, make your plans for Massachusetts next year. Mead makers, it’s time to ferment.

Mark Fiegl

EAS 2022 Honey Show Superintendent





Silver Awards

A) ARTS & CRAFTS

Sponsored by: *The Maine Beekeepers Association*

Cecelia Berg | 1st Place | Entry #42

B) BEESWAX SILVER

Sponsored by: *ESHPA and Bee Culture*

Bethany Viau | 1st Place | Entry #40

C) HONEY COOKERY SILVER

Sponsored by: *Bee culture*

Crystal Lehmaning | 1st Place | Entry #7

G) GADGETS SILVER

Sponsored by: *Betterbee*

Frank Linton | 1st Place | Entry #0

H) EXTRACTED HONEY SILVER

Sponsored by: *Mann lake*

Doug Galloway | 1st Place | Entry #14

H) COMB HONEY SILVER

Sponsored by: *Wixson Honey*

John DeBenedett | 1st Place | Entry #39

H) BLACK JAR SILVER

Sponsored by: *NYS Ag and Market*

Greg Gentry | 1st Place | Entry #32

M) HB MEAD & HONEY BEER SILVER

Sponsored By: *Fisher Farm apiary*

Deborah Klughers | 1st Place

P) PHOTOGRAPHY

Sponsored by: *Dadant*

Meghan McConnel | 1st Place | Entry #27 |
Score 99

SWEEPSTAKES

Sponsored by: *Buffy Bee Company*

Deborah Klughers | 1st Place | Entry #29 |
Score 110

BEST IN SHOW

Sponsored by: *Barkman Honey*

Cecelia Berg - For her Arts and Crafts entry

Divelbiss Award

2022 WINNER: THOMAS D. SEELEY

As the recipient of the 2022 Divelbiss Award, Dr. Thomas D. Seeley has been recognized for having contributed to both the bee science community and the beekeeping community. He continues to provide education about the behavior of honey bees to fellow scientists, beekeepers, naturalists, and laypersons alike. Congratulations Dr. Seeley!

Tom grew up in Ithaca, NY. When a high school student, he held summer jobs with Professor Royse P. Murphy, a plant geneticist at Cornell University, and Professor Roger A. Morse, the director of the Dyce Laboratory for Honey Bee Studies at Cornell University.

He received his undergraduate degree in chemistry from Dartmouth College in 1974 and his Ph.D. in biology from Harvard University in 1978. Over the next fourteen years, he held positions at Harvard University, as a postdoctoral student, and at Yale and Cornell Universities, as an Assistant and then an Associate Professor. He became a Full Professor at Cornell University in 1992. He has served as a Visiting Professor at the University of Würzburg (in Germany) and as the Chairman of the Department of Neurobiology and Behavior at Cornell University. He was appointed the Horace White Professor in Biology at Cornell in 2013. Over his 40 years as a professor (1980-2020), he taught courses on animal behavior and animal cognition, and he

MANN LAKE EAS YOUTH SCHOLAR: CLAIR GREEN

Thank you for awarding me the Mann Lake EAS Youth Scholarship. Every part of the experience was amazing! I particularly enjoyed being able to dissect bees with Dr. Mizer and Dr. Delaney and learning more about breeding queens with Scott McArt and Mike Palmer. I have been a huge fan of Dr. Seeley since I first read his book *Honeybee Democracy* my junior year of high school. Hearing him speak in person was so exciting. Also thank you to all the beekeepers for making me feel welcome, even letting me share a room and giving me rides. I just turned 18, but no one made me feel lesser because of my age. I thought it was funny at the conference dinner when they handed me a ticket for a free alcoholic drink. I am sure not many under 21s usually attend. I promise I didn't use it, but I will use all the knowledge I gained as I start my entomology program this fall at Mississippi State. I am lucky enough to have an independent study in a bee research lab as a first semester freshman where I am being trusted to lead a project to identify pollen samples and build a phenology wheel for Mississippi and the Southeast that hopefully will

investigated the behavior, social life, and ecology of honey bees. Since his retirement, he has held the position of Professor of Biology Emeritus, in the Department of Neurobiology and Behavior at Cornell University.



Dr. Seeley has received multiple honors over his career including the Morse Prize Fellowship from Yale University in 1983, the Hambleton Award from the Eastern Apicultural Society in 1994, and the Alexander Von Humboldt Senior Scientist Prize in Biology in 2001. In addition to over 175 scholarly publications, he has written 5 books: *Honeybee Ecology: A Study of Adaptation in Social Life* (1985); *The Wisdom of the Hive: The Social Physiology of Honeybee Colonies* (1995) - for which he received the Gold Medal from Apimondia for the Best Science Book; *Honeybee Democracy* (2010); *Following the Wild Bees: The Craft and Science of Bee Hunting* (2016); and *The Lives of Bees: The Untold Story of the Honey Bee in the Wild* (2019).

He is currently completing his final book: *Bee Works. Solving 20 Mysteries of Honey Bee Behavior*. It will be published in Spring, 2023 by Princeton University Press. In it, he will share both "the products and the processes of our investigations" of the wondrous behavior of worker honey bees.

lead to greater understanding of a variety of bee nutrition issues. My goal is to continue to be involved in bee research throughout my four years of undergraduate work and then to pursue either a graduate research degree or a veterinary medicine degree.



Being able to attend the conference let me know I was on the right track. I found so much about the conference, particularly the presentation of the research studies, so interesting. Throughout my research career, I want to find ways to stay close to those doing the work in the field. In this case, that's you, the beekeepers. Thank you to all the beekeepers who patiently answered my questions and took time to share stories with me. I always will remember the opportunity you gave me and the warm way you all welcomed me. I hope I can pay you back one day by contributing research or knowledge that will help advance beekeeping practices.

MASTER BEEKEEPERS

Meet the New 2022 EAS Master Beekeepers

Landi Simone

EAS in Ithaca was, as always, a stellar event, replete with old friends and new, all “bee-ing social,” plus lots of opportunities to increase our knowledge and skills. For some people, the conference was centered around the question, “Will I go home with that Master Beekeeper certificate and pin? Will I pass the test?” Five of the twenty-five candidates we tested this year were able to answer those questions with a triumphant, “Yes!” I’d like to introduce you to them. And for those of you who took the exam but did not pass all four of its brutally rigorous, demanding parts, I hope you found the experience to be a springboard to new knowledge. Personally, I believe one of the greatest benefits of preparing for and undergoing the testing was having my eyes opened to some of the things I had yet to learn. The very best beekeepers – indeed, the best people in any field – are always learning.

Of particular interest is the fact that all but two of our new Master Beekeepers hail from Maryland and the two non-Maryland beekeepers are part of a Maryland study group that’s been in existence for several years now and must be doing something right. Good work, guys and gals!



Matthew Brandes

Matthew is “that guy from Kansas,” and the adopted drone of the Maryland Master Beekeeper study group. He is a collector of hobbies, beekeeping being his latest endeavor, and Matthew rarely does anything halfway. An engineer by trade, it won’t surprise anyone to learn that he is a private pilot, built his own airplane, volunteers as a firefighter/EMT, is an auctioneer and restores vintage campers. As if that weren’t enough, Matthew’s tried his hand at both skydiving and long-distance hiking.

Matthew’s father kept bees when Matthew was young and, thinking he might want to start up again later in life, he and Matthew collected a swarm together in 2017 and managed that hive together the first year. When his dad moved away the following year, Matthew and his wife decided to begin keeping bees on their own after they ran

out of honey from Matthew’s father’s hive.

Matthew says he loves beekeeping because there is always something new to learn and lots of friends to make. He currently manages 25 hives for himself and an additional five for a neighboring family. Matthew and his honey sell their honey at local farmers markets and are about to start selling retail. In typical engineering fashion, his hives are outfitted with temperature sensors and scales that feed into a custom monitoring platform. Matthew currently serves as Vice President of the Northeastern Kansas Beekeepers Association. He has the distinction of being only the second EAS Master Beekeeper to hail from Kansas.



Cathy Misko



Cathy Misko is the second “honorary” Marylander and hails from Centerview, Missouri. She’s the mother of eight and grandmother of nine grandkids. She and her physician husband love living on their hobby farm, where they home-educated their eight kids over the course of 27 years.

Cathy’s beekeeping journey started in 1989 after a swarm chose her while she, baby strapped to her back, was gardening. Her young sons helped throw together a makeshift veil using a football helmet and the baby’s playpen netting. She scaled the roof of her VW bus and caught the swarm. However, she did not think of tucking in the 4 foot “veil” and it became a butterfly net around the swarm, trapping a few dozen bees up close and personal. You get the point; Cathy got a lot of points, but, remarkably, she didn’t quit. Thirty-two years later, Cathy is now known as the “older” bee lady as neighbors watch her speeding down the highway with a swarm of bees in the back of her bus.

Like so many beekeepers, Cathy is a true lover of the outdoors. She rides horses, gardens the five acres of flowers around her home, and is an adept fisherwoman, too. The fishing arose from a high school graduation gift of rod, reel, and tackle box from her folks.

Cathy currently manages 30 colonies with a focus on sustainable/varroa-resistant genetics. Her bees have been chemical-free since 2010 but not treatment-free. She takes IPM seriously, keeps records, and propagates gentle, disease-resistant genetics, which helps maintain low mite counts.

Bees have led Cathy to civic duty. She was instrumental in the passage of two Missouri laws: The Honey Law 2015 (limiting commercial kitchen requirements), and The Honey Bee Law 2018 (MO State Sales Tax Exemption for Bees/Beekeeping Supplies). She gives guidance to those testifying on behalf of beekeeping in their local communities, enjoys organizing teams to present beginning beekeeping workshops, and has helped “plant” six new Missouri beekeeping clubs. Passionate about helping others, one of her most rewarding endeavors has been to help launch and chair Missouri’s first Beekeeping Youth Scholarship Program (2011.) During her 6-year chairmanship, forty kids were awarded scholarships. She is presently working on another youth program in her home county.

Cathy is Past President of the Midwestern Beekeepers Association (KC Area) and holds Missouri State (MSBA) and Midwestern (MBA) Beekeeper of the Year Award(s). She currently serves as: President, Johnson County MO Beekeepers Association; MSBA Legislative Liaison; Founder, Heartland Beekeeping Partnership; Editor, Apiary Buzz; and conducts beekeeping classes for Veterans at Camp Valor Outdoors Apiary. Awestricken and humbled to receive EAS Master Beekeeper Certification, Cathy looks forward to continual learning, networking, and doing her best to serve as a faithful steward of the incredible honey bee.



David Shultz

David and his wife Jennifer live about 30 minutes west of Baltimore, MD with their two dogs, Herbie and Athena. David has been a civil engineer concentrating on geotechnical, forensic, and construction quality control and quality assurance for nearly 37 years, working his way up from Staff Engineer to President of the company. As a Principal Engineer, He is now able to work at a more comfortable pace. Jennifer is an associate professor at Goucher College in Towson MD in the Peace and Conflict Resolution Department and teaches courses in Public Health and Native Studies.

David is an avid woodworker and makes almost all his own woodenware, including non-traditional hive components for Layens, and horizontal hive equipment. David and Jennifer have enjoyed riding and caring for horses for the past 35 years and also enjoy traveling to the American southwest to vacation in the country's beautiful native desert mountain region.

David began keeping bees with Jennifer in 2014 and has grown his apiary to over 40 colonies located at his homeyard and several outyards. For the past seven years David has, with his mentor Philip Krista, been teaching the Honeybee Outyard Continuing

Education group class, held weekly, teaching hands-on beekeeping skills and helping to mentor new beekeepers.

David rears honey bee queens for sale and sells nucleus colonies. In 2019, David started his journey to become an EAS Master Beekeeper. The following year, he began a Journeyman Beekeeping Training Course for advanced beekeepers, and is a co-creator of the MD Master Beekeeper Study Group. In 2021 David was awarded the George W. Imirie award for Excellence in Beekeeping Education by the Maryland State Beekeepers Association (MSBA). In the spring of 2022 David became a Maryland State Bee Inspector for the Frederick and Carroll County regions.

David is active in the Maryland State Beekeepers Association (MSBA), the Carroll County Beekeepers Association (CCBA), the Frederick County Beekeepers Association (FCBA), the Eastern Apicultural Society (EAS), and the Howard County Beekeepers Association (HCBA) and is the past Vice President and current President of the HCBA club.



Russell Sprangel

Russell started keeping bees in 2017 with a hive setup and a new beekeeper's course as a Christmas present from his wife Lisa - a gift she has regretted giving ever since. She got the list of supplies to buy from Russell's father Ted, who became a beekeeper later in life. One reason Russell decided to become a beekeeper was because his father would call him and tell him all about what those darn bees were doing that day. Not knowing anything about bees, Russell could just listen to the stories and scratch his head.

Russell has two children, Ryan and Kelly. Ryan - out of college and working - also got the beekeeping bug. He keeps two colonies in VA, making him a third-generation beekeeper. Kelly is finishing up college so still lives at home where she often hears "It's time to save the villagers!". She throws on some long pants and jumps in the truck to help

catch a swarm, head to the training apiary or local club meeting. She is getting better at catching a swarm of bees dropped off a garage roof, but does she really enjoy it? She also is a great helper to her father when he teaches his "Queen Rearing for under \$20" class. Kelly passes out tools, sets up the grafting stations and grabs the frames for the students to practice grafting. She also shows her own skills in grafting when students need help. She has helped so many times she may begin to teach grafting to the beekeeping club she belongs to at college.

After taking the new beekeeping course, the next five years were packed with beekeeping activities. Russell served two years as the Vice President and two years as the President of the Carroll County



Beekeepers Association (CCBA) in Maryland. After turning over the reins of CCBA, he became the Vice President of the Howard County Beekeepers Association, (HCBA) and also a 2nd VP of the Maryland State Beekeepers Association (MSBA). Russell is also a member of a whole series of other local, state, and international clubs, and enjoys what is offered from each one. He continues to be very active in CCBA and attends every meeting and almost every outreach event. He assists in

Valerie Wampler

Valerie Wampler, of Ellicott City, MD, started growing and competitively showing dahlias in 2012. Looking into becoming a hybridizer of new dahlias, Valerie took a 1st year beekeeping class to learn about pollination. As a result, she then joined the ranks of backyard beekeepers, starting with two colonies in 2014 and growing to her current 29 colonies across four outyards and an additional 18 via a co-op.

From writing organic gardening and pollination articles for the National Capital Dahlia Society, attaining Senior Judge for the American Dahlia Society, Valerie enjoys participating in many outreach activities. She's helped at the Howard County GreenFest, assisted at various Robinson Nature Center events, and has partnered with youngsters working on their Girl Scout Silver Award projects on pollination and bees. Volunteering as the Treasurer of the Howard County Beekeepers Association for four years, working as a mentor with Mission Believe, leading Field Days and teaching in the Howard County One-day and 1st year Beekeeping class, Valerie's life is rich with the rewards of being an advocate and teacher. Valerie has given talks to Maryland beekeeping clubs on Building Bait Hives, Making Splits, Rendering Wax, Native Bees, Black Jar Honey Contests, and

organizing and teaching the CCBA new beekeeping short course and teaching hive skills each month at the CCBA teaching apiary. These events are commonly referred to as "Hive Dives." Being able to participate in the Maryland Master Beekeeper study group over the last 2 years was a blessing to Russell and he was able to become an EAS Certified Master Beekeeper at this year's EAS conference in Ithaca, NY.



Making Soaps and Lotions – both Basic and Advanced. Beginning this year, Valerie partnered with Clarks Ace Hardware to establish a training apiary and run monthly beekeeping-related events. One of the most enjoyable aspects of beekeeping for Valerie is the expansion of her wood shop, where she builds her own hive equipment. Valerie and her co-op partner sell their Ellicott City nucs and local queens, as well as honey, soaps and lotions to several stores in Baltimore, Ellicott City and Columbia.

In addition to gardening, showing, and competing with dahlias, and judging for the MD State Fair, Valerie volunteers for the Maryland Sheep and Wool Show each May and the Howard County Fair in August. She spins, weaves and knits any free moment she can find and regularly knits hats and mittens for local elementary schools and hats for premies. Humbled to receive EAS Master Beekeeper Certification and join such an august group, Valerie looks forward to the next chapter in the quest for continual learning, networking, and being an advocate for the honey bee and other pollinators.

Congratulations to our new Master Beekeepers! Given what you've already accomplished, we feel confident that you will continue in the tradition of EAS Master Beekeepers' commitment to service and education, and we hope to see you in Massachusetts in 2023.

Finally, I want to thank the extraordinary team of beekeepers who are responsible for administering the test, and especially Dr. Deborah Delaney, our Academic Advisor, who creates and grades the demanding written and laboratory exams, and Dorinda Priebe and David Burns, our Oral and Field Exam Team leaders. All have done an amazing job coordinating the efforts of dozens of volunteers who, together, create a testing regimen that makes the title of EAS Master Beekeeper among the most respected in the world.

HONEY BEE HEALTH COALITION

Honey Bee Health Coalition Releases 8th Edition of the Tools for Varroa Management Guide



New Edition includes extensive revisions, treatment tables updates

Keystone, Colo., August 22, 2022— The Honey Bee Health Coalition unveiled the 8th Edition of the Tools for Varroa Management Guide today. The guide provides information on the latest tools and options for beekeepers in the USA and Canada to keep bees healthy and manage varroa mites, which spread disease within and among honey bee colonies.

“As an Apiculture Extension Educator, I often hear from devastated beekeepers who struggle to keep their honey bee colonies healthy and alive. The successful management of varroa mites is critical to keeping honey bees healthy. This guide provides comprehensive information about management options for one the most serious threats to honey bee health,” said Ana Heck, Apiculture Extension Educator at Michigan State University.

An expert team of beekeepers, entomologists, Extension agents, apiary inspectors and federal regulators spent more than six months editing the document to bring it up-to-date with changes in best practices and treatment options. The guide details new information on varroa control products including new products that have been approved for release since the 7th edition was released in 2018.

“The Varroa Management Guide is the most valuable tool to include in your varroa management toolbox,” said Dewey Caron, Emeritus Professor of Entomology & Wildlife Ecology at the University of Delaware, and a principal author of the guide. “It has what you need to know in one streamlined and concise package. It should help improve overwintering success by helping you flatten the varroa growth curve and reduce bee colony viral epidemics.”

Varroa mites represent one of the greatest threats to honey bee health, honey production, and pollination services. Untreated or ineffectively treated colonies can fail, causing economic losses to beekeepers, potentially

impacting agricultural food production. Colonies infested with varroa are also a potential source of mites and diseases that can spread to other colonies and apiaries.

Effective varroa control will reduce colony losses and avoid potential spread of infectious disease among honey bee colonies. The Tools for Varroa Management Guide explains practical, effective methods that beekeepers can employ to measure varroa infestations in their hives and select appropriate control methods.

Tammy Horn Potter, Kentucky State Apiarist and EAS Representative to the Honey Bee Health Coalition points out that the “Tools Management Guide makes it clear that varroa mites defy the “one-size-fits-all approach. Beekeepers need to be aware of the season, mite population level, whether honey is on the hive, what the temperature is, etc. This guide helps a beekeeper simplify the process of choosing the right mite product at the right time”.

The full guide is offered free of charge at the Honey Bee Health Coalition’s Website: <https://honeybeehealthcoalition.org/resources/varroa-management/>

Also revised is the six page HBHC leaflet Mitigating Foulbrood in Honey Bee Colonies and Reducing the Use of Antibiotics. Meghan Milbrath, Michigan State, Jay Evens, USDA and original author Dewey Caron updated information on American and European Foulbrood (AFB/EFB) focusing on when and how to obtain and use approved antibiotics with the Veterinary Feed Directive (VFD). Both distinctions and differences of the foulbroods and different antibiotics are detailed.

The revised guide is offered free of charge at the Honey Bee Health Coalition’s Website: <https://honeybeehealthcoalition.org/resources/varroa-management/resources/managing-foulbrood/>

About the Honey Bee Health Coalition

The Honey Bee Health Coalition brings together beekeepers, growers, researchers, government agencies, agribusinesses, conservation groups, manufacturers, brands and other key partners to improve the health of honey bees and other pollinators. Its mission is to collaboratively implement solutions that help achieve a healthy population of honey bees while also supporting populations of native and managed pollinators in the context of productive agricultural systems and thriving

ecosystems. The Coalition focuses on accelerating the collective impact of efforts in four key areas: forage and nutrition; hive management; crop pest management; and communications, outreach and education.

The Honey Bee Health Coalition is a project of the Keystone Policy Center, a nationally recognized nonprofit that brings together diverse stakeholders to find collaborative, actionable solutions to public policy challenges.



FEATURED ARTICLES

Notes from the Lab: The Latest Bee Science Distilled

By Scott McArt as published in *American Bee Journal*, November 2021



Scott McArt, an Assistant Professor of Pollinator Health, helps run the Dyce Lab for Honey Bee Studies at Cornell University in Ithaca, New York. He is particularly interested in scientific research that can inform management decisions by beekeepers, growers and the public.

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Pollinator Network: pollinator.cals.cornell.edu
Facebook: facebook.com/dycelab | Twitter: @McArtLab

Harmful pesticide exposures during crop pollination come from beyond the farm

As I write this, it's currently pollination season throughout the northern U.S., which means lots of beekeepers are bringing lots of bees to lots of farms. In New York, pollination is worth ~\$400 million per year to the state's fruit and vegetable farmers. In other words, this annual early-summer movement of pollinators isn't just a curiosity, it's vital to the economy. And that means it's in everyone's best interest to make sure that bees, our main agricultural pollinators, aren't exposed to harmful

pesticides while performing their pollination services.

We know that bees are almost always exposed to pesticides during crop pollination. For example, a recent analysis of bee-collected pollen during Michigan blueberry pollination season found that honey bee colonies are simultaneously exposed to 35 pesticides, on average (Graham et al. 2021). Managed bumble bees fare a bit better and are exposed to 19 pesticides, on average. That's still quite a few pesticides!

The important question is this: Are pesticide exposures during crop pollination dangerous, or are they simply trace amounts of contaminants that are unlikely to impact bee health? Perhaps more importantly, if some harmful exposures do occur, where do they come from? If we understand the sources of high-risk exposures, we can work to reduce exposures from those sources in the future. These are the topics for the fifty-fifth Notes from the Lab, where I summarize "*Pesticide risk to managed bees during blueberry pollination is primarily driven by off-farm exposures,*" written by Kelsey Graham and colleagues and published in the journal *Scientific Reports* [2022]. Full disclosure: I am a co-author on this study.

For their study, Graham and colleagues focused on two species of bees used for commercial blueberry pollination (Photo 1) in Michigan and elsewhere, the Western honey bee

(*Apis mellifera*) and the common Eastern bumble bee (*Bombus impatiens*). To measure the magnitude and sources of pesticide risk, the authors first sampled bee-collected pollen from multiple honey bee and bumble bee colonies at highbush blueberry farms during peak bloom. Pollen from honey bees was sampled in each of two years from 21 fields that were managed using conventional pest management, organic pest management, or no chemical pest management at any time of the year. Pollen from bumble bees was sampled at 15 fields in the second year of the study at conventional or unsprayed farms (Photo 2). Blueberry flowers, foraging honey bees and bumble bees, and wax from honey bee colonies were also collected at each of the fields.

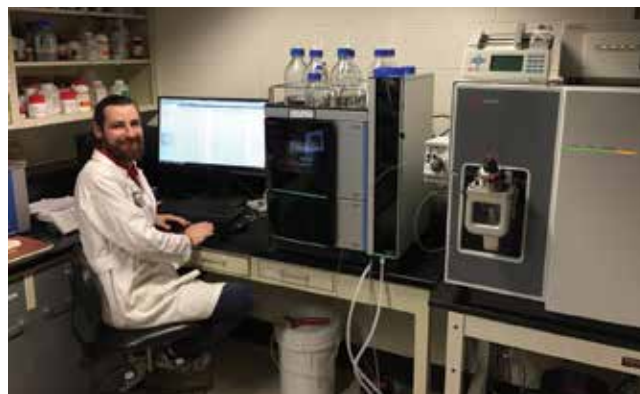
All samples were immediately frozen and shipped to my lab at Cornell University. At the lab, we extracted the samples, then used liquid chromatography with tandem mass spectrometry (LC-MS/MS) to screen for and quantify 261 potential pesticides via our multi-residue analysis (Photo 3). Note: we've opened this analysis to the public (details here: <https://blogs.cornell.edu/cccf/>) — please feel free to get in touch and send us samples from your hives if you think you have reason to be concerned about pesticides.

Once the pesticides were quantified from the flowers, bees, wax, and bee-collected pollen, the authors assessed

Kelsey Graham



Photo 1 A honey bee visits a cluster of blueberry flowers during blueberry pollination season in southwestern Michigan.



(L) Photo 2 Jessica Greer, field technician at MSU, samples pollen from common Eastern bumble bee workers as they return to their colonies at a blueberry farm. **(R) Photo 3** Co-author Nico Baert quantifies pesticide residues in pollen samples via our LC-MS/MS. Author's note: This machine is worth more than my house.

whether there were potentially harmful exposures via the Risk Quotient, or RQ. This metric is used by researchers and regulatory agencies (e.g., the U.S. Environmental Protection Agency) to determine pesticide risk to bees. The metric is a simple combination of exposure (e.g., quantity of a pesticide in pollen, measured in parts per billion) and toxicity (measured as LD_{50} , or lethal dose of that pesticide which kills 50% of honey bees tested). The RQ for each sample is calculated as the sum of risk from pesticides detected in the sample. In other words, for a pollen sample that contains 35 pesticides, the RQ is the sum of risk from all of the 35 individual pesticides.

Finally, Graham and colleagues determined which pesticides were registered for use in blueberry fields in Michigan. For pesticide detections not registered for use in blueberry fields, the authors looked into other crops where those pesticides were registered for use.

So, what did they find? Were the bees ever exposed to harmful levels of pesticides during pollination? Yes. As shown in Figure 1, there was a great deal of variation in risk from pesticides among sample types (flowers, bees, wax, bee-collected pollen) and among farms. Most samples were below RQ thresholds set by the EPA and European Food Safety Authority (EFSA); the horizontal green dashed line in Figure 1 represents the EFSA level of concern (LOC) for 10-day chronic oral exposure, the blue dashed line is the EFSA LOC for acute contact exposure, and the red dashed line is the EPA LOC for acute contact exposure. All data points *below* those dashed lines indicate harmful exposures are unlikely, while all data *above* the thresholds indicate harmful exposures are likely, as defined by the EPA and EFSA.

No flower, bee, or wax samples were above the EPA or EFSA LOCs for contact exposure, while 3.4% of honey bees and 3.5% of wax samples were above the EFSA 10-day chronic oral exposure LOC ($RQ > 0.03$; Figure 1). The story was very different for pollen, however. Overall, 72.4% of honey bee-collected pollen samples in 2018 and 45.4% in 2019 were above the 10-day EFSA chronic oral exposure LOC, while 46.7% of bumble bee pollen samples exceeded this level. Because managed bees typically conduct pollination for at least 10 days, the 10-day chronic exposure LOC is relevant. This said, only 1.0% of honey bee pollen samples from 2019 were above the EPA acute contact exposure LOC ($RQ > 0.4$) and 5.2% were above the EFSA acute contact exposure LOC ($RQ > 0.2$; Figure 1).

What were the pesticides that contributed most to risk? For honey bee- and bumble bee-collected pollen, the insecticides chlorpyrifos, clothianidin, and carbaryl contributed most to RQ from contact exposure and the insecticides clothianidin, imidacloprid, and chlorpyrifos contributed most to RQ from oral exposure.

Risk was lower for all other sample types (flowers, bees, and wax). The fungicide fenbuconazole contributed most to RQ from flowers, the insecticide carbaryl and fungicides carbendazim and fenbuconazole contributed most to RQ in bees, and the insecticide chlorpyrifos contributed most to RQ from wax.

Did the high-risk exposures come from blueberry fields or elsewhere? Mostly elsewhere. As shown in Figure 2, the vast majority of the RQ came from pesticides not registered for use at any time on blueberries.

For honey bee-collected pollen from 2018, 69% of the RQ from contact expo-

sure and 63% of the RQ from oral exposure came from pesticides not registered for use on blueberries (Figure 2). In 2019, 93% of the RQ from contact exposure and 82% of the RQ from oral exposure came from pesticides not registered for use on blueberries. For bumble bee-collected pollen in 2019, 65% of the RQ from contact exposure and 87% of the RQ from oral exposure came from pesticides not registered for use on blueberries.

Well, that's troubling. So where did the high-risk exposures come from? That's the million-dollar question, and unfortunately it's impossible to say for sure. At some point, I would love to use unique isotopically-labeled pesticides on all farms within the flight radius of a honey bee colony to assess this question. But that would be very expensive, of course! In the meantime, let's use the data in hand and evaluate the three highest-risk pesticides in pollen: clothianidin, imidacloprid, and chlorpyrifos.

The neonicotinoid insecticides clothianidin and imidacloprid are used to control various sucking and chewing insects in a variety of crops, most commonly as seed treatments in corn and soybeans, which are grown in the landscape surrounding the blueberry fields evaluated in this study. Clothianidin is not registered for use on blueberries and imidacloprid is used at some conventional blueberry farms in the region, but not at organic or no-spray farms, where several pollen exposures occurred. Thus, it seems likely that at least some of the clothianidin and imidacloprid exposures came from corn and soybean fields, perhaps via contaminated weedy flowers surrounding the fields.

The organophosphate insecticide chlorpyrifos is not registered for use in blueberry but was found in 89% of

pollen samples. Chlorpyrifos is registered for trunk applications to control insects in vineyards and orchards, as well as in corn and other field crops

in the study region. This breadth of use makes it a bit harder to speculate on specific crop origin(s). However, chlorpyrifos was recently banned by

the EPA, mostly due to the fact that it's been linked to neurological problems in human children. Given the prevalence of chlorpyrifos in bee-collected pollen, this ban could provide substantial reductions in risk for pollinators if exposures are primarily from current applications and not legacy residues in the environment.

Overall, the study by Graham and colleagues highlights that pesticide risk to bees is a landscape-scale issue in mixed agricultural landscapes. High-risk pesticide exposures can occur when some crops are in bloom and others have completed bloom, thereby allowing higher-risk insecticide applications. To me, this means practicing Integrated Pest Management (IPM) is by far the clearest way to reduce high-risk exposures while growing the food we all need to eat. Yet surprisingly few farmers (or beekeepers, by the way) practice IPM to the level needed for significant reductions in pesticide risk. Instead, pesticides are often applied on a calendar-based schedule with little or no knowledge of pest levels. If we're going to improve the sustainability of U.S. agriculture, this has to change.

Until next time, bee well and do good work.

Scott McArt

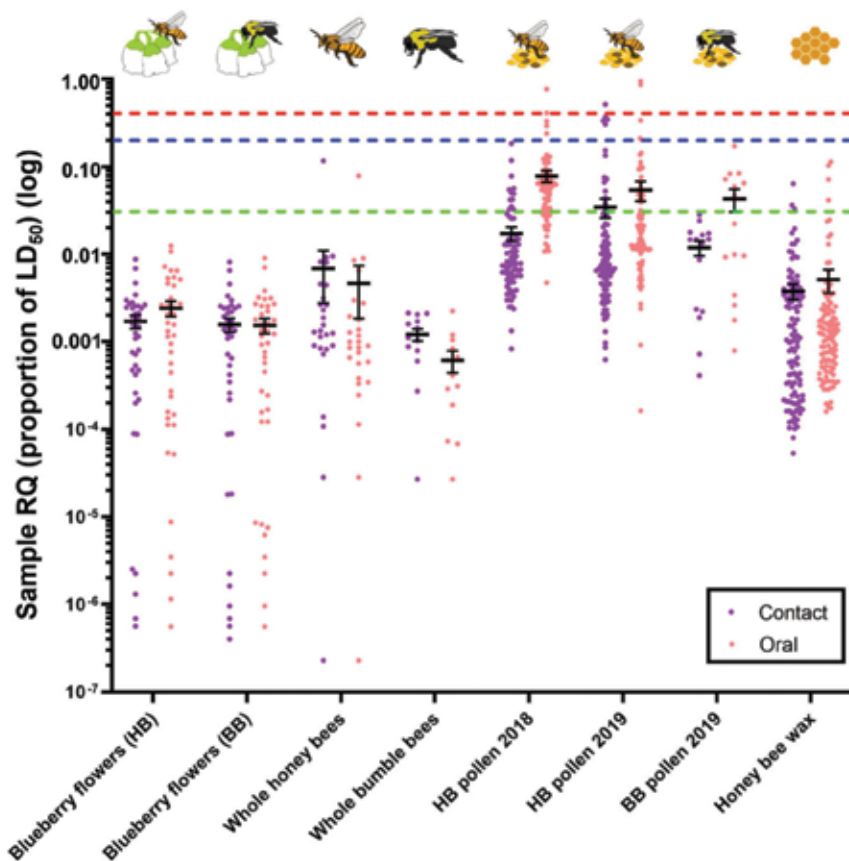


Figure 1. Average sample risk quotients by sample type. Risk quotient (RQ) calculated with contact (purple) and oral (pink) toxicity (LD_{50}) values and data are presented as proportion of LD_{50} . Toxicity data for *Apis mellifera* or *Bombus terrestris* were used, depending on the sample type. Individual sample RQs are represented by the dots, horizontal black lines are the mean, and the error bars represent standard error of the mean. RQ is displayed in relation to the EPA and EFSA levels of concern; green dashed line is the EFSA level of concern for 10-day chronic oral exposure, blue dashed line is the EFSA level of concern for acute contact exposure, and red dashed line is the EPA level of concern for acute contact exposure.

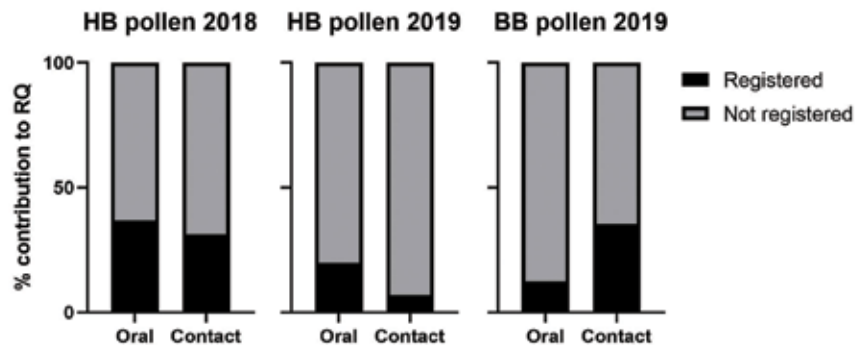


Figure 2. Contribution of pesticide active ingredients to pollen risk quotient (RQ) values based on whether they are registered for use on blueberries, or not. A product was considered registered for use on blueberries if the label indicated it's permitted to be applied to blueberry bushes at any time of the year. RQs were calculated with contact LD_{50} values and oral LD_{50} values for *Apis mellifera* or *Bombus terrestris*, depending on which species collected the pollen (HB-honey bees, *Apis mellifera*; BB-bumble bees, *Bombus impatiens*).

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Graham, K. K., M. O. Milbrath, Y. Zhang, A. Soehnen, N. Baert, S. H. McArt and R. Isaacs. 2021. Identities, concentrations, and sources of pesticide exposure in pollen collected by managed bees during crop pollination. *Scientific Reports* 11:16857 <https://doi.org/10.1038/s41598-021-96249-z>

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In Memoriam: Elaine Blackwell Holcombe, EAS Life Member

Elaine Blackwell Holcombe, aged 86, died peacefully on August 28, 2022, in Shelbyville, Tennessee surrounded by her family. Elaine taught home economics and was an Eastern Star member for 50 years. Beekeepers fondly remember her service to the American Honey Queen program. She worked tirelessly to coordinate appearances and interviews for the American Honey Queens and Princesses to represent the honey industry.

Eastern Apiculture Society got to know Elaine and her husband Ed (who survives Elaine) as a EAS Life Members. Elaine and Ed were accomplished queen bee producers and active in Tennessee and national beekeeping for many years. Both Ed and Elaine recognized the need for more research and sought to support “on the ground” beekeeping projects. They made an initial gift to Eastern Kentucky University to help Dr. Tammy Horn Potter start Coal Country Beeworks, which promoted pollinator habitat and beekeeping on former coal mined areas in the late 2000s.

In 2017, as a result of a gift made in 2014, the Eastern Apiculture Society started a new tradition of recognizing an EAS conference speaker with a Distinguished Speaker Award. This new award, similar to the Roger Hoopingartner Award of an ABF Distinguished speaker, was made possible from a generous contribution to EAS by Ed and Elaine Holcombe.

The initial award of the Ed & Elaine Holcomb Distinguished EAS Speaker Award, designated by Ed to honor Leslie H. Little and to recognize Tammy Horn, Elaine Holcombe and Clarence Collison, was made to Michael Palmer of Vermont. Mike was presented a Certificate at the closing banquet of EAS 2017 at University of Delaware August 4th. The 2018 award winner at the Virginia EAS was Jamie Ellis, our Roger Morse winner. In the 2019 EAS in South Carolina, the Holcombe award was split to honor Short Course speaker William Hesbach and a second award for a program distinguished speaker was presented to Cindy Bee.

GRANTS & SCHOLARSHIPS

Call For Nominations

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. You may wish to announce this request for nominations at beekeeping meetings and in their newsletters. Feel free to contact officers of state and local organizations to request their suggestions for possible candidates and letters of support.

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

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

The deadline for submissions is April 30, 2023. Nominations and letters of support should be emailed to Secretary@easternapiculture.org.

THE JAMES I HAMBLETON MEMORIAL AWARD

was established by the Eastern Apicultural Society of North America to recognize research excellence in apiculture. James I. Hambleton was graduated by Ohio State University, Columbus, Ohio, in 1917, where he specialized in bee-keeping and entomology. From that time until he entered the Bureau of Entomology in 1921, he was engaged in beekeeping work at the University of Wisconsin, except when he was in France during the First World War. At the bureau he conducted important investigations on the relation of gain in colony weight to changes in temperature,

humidity and other outside factors. In 1924 he was appointed Chief, Division of Bee Culture at the Bureau of Entomology. One of his major contributions was to bring together the books, pamphlets, and periodicals formerly kept in individual offices of the Division. Material from medical, biological, agricultural, and other non-beekeeping periodicals and abstract journals were indexed regularly by the librarian to reflect the changing interests of the scientists employed by the Division of Bee Culture. Most articles selected were obtained from the original rather than being added unverified. This was the beginning of the Agricultural Research Service Beekeeping Bibliography which is of historical as well as current interest. It contains summaries, abstracts, and citations to books, pamphlets, and periodicals relating to beekeeping covering the period 1905-1973 without interruption and is probably the oldest available in the English language. His laboratory continued a wide range of research into honeybees and in 1942 he and his co-workers invented a trap to collect pollen by the ton.

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. 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.

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. Each award nomination must include a biographical sketch of the nominee, a list of his/her publications, specific identification of the research work on which the nomination is based, and an evaluation and appraisal of the accomplishment of the nominee, especially of work in the last five-year period for Hambleton Award nominees (or a shorter period

for Student nominees). A minimum of one letter of recommendation, in addition to the nomination letter, in support of the nomination are also required; additional support letters are welcome.

Nominations are now being accepted for all three awards. The awards for 2023 will be presented at the Awards Banquet that will be held on Friday, August 4th at the annual conference of the Eastern Apicultural Society on the campus of the University of Massachusetts, Amherst, MA.

Nominations and letters of recommendation should be emailed to: Awardnomination@easternapiculture.org and received no later than February 1, 2023.

Resubmissions from a previous year should be updated if necessary, and a new cover letter should be attached which should indicate that this is a resubmission and relevant data is already in EAS possession.

EAS Foundation for Honey Bee Research

Call for Proposals, 2023

The EAS Foundation for Honey Bee Research 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. Requests for “seed money” to provide investigators the opportunity to collect preliminary data or as “add on” funds to combine with other funding sources to continue present research will also be considered. Requests for support for student projects (undergraduate summer employees/ graduate student) or for equipment/ supplies for distinct research projects are given highest priority. We welcome separate discrete project proposals and requests that identify pieces of ongoing research programs where additional funds can accomplish an objective of a larger program. Grant funds may be used for supplies, equipment, salaries, travel necessary for data collection or other research tasks, or other appropriate uses by the recipient. As a nonprofit organization, the EAS Foundation does not pay overhead on funded research grants.

The total amount to be awarded in 2023 is \$10,000. The awards will be announced at the EAS 2023 Conference but available by April 1, 2023. The principle investigator may be invited to present their findings at the 2024 EAS Annual Conference; travel and lodging costs associated with presenting will be covered by EAS; and we will publicize the award to aid in solicitation of additional funds for subsequent years. An article for the EAS Journal summarizing the research and results must be submitted by September 1, 2024.

Deadline for application is February 1, 2023.

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

Proposal Submission Criteria

1. Proposals are welcome from any individuals conducting research on honey bees. The role the investigator will perform if awarded the funds should be clearly stated.
2. Proposal 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. If intended as “seed money,” the proposal should clearly state how the funds will enable the investigator to secure additional funding for project continuation. Proposals should not exceed five written pages in total length (double-spaced) excluding title page, budget, and résumé. Only electronic submissions will be accepted.
3. Proposal must indicate how results will be disseminated if grant is funded. Investigators must present their work through the EAS journal (in summary form) and to a future EAS annual meeting, if possible, but other funds should be used for this. An acknowledgment of EAS support should be included in any presentations or publications resulting from the research.
4. The proposal should be arranged in the following format:
 - a. cover page to include title, name, address, e-mail, and telephone of investigator(s) and title/affiliation of investigator
 - b. justification
 - c. objective(s)
 - d. project description
 - e. plan of work/timetable
 - f. budget

- g. short (half page) résumé of each participant
- h. name of principal investigator to appear on every page of proposal (very important)

5. Electronic copy of the proposal should be submitted by February 1, 2023 to the email account, HoneyBeeResearch@easternapiculture.org

Proposal Review Process

EAS will review each proposal with a three-person proposal review board. One person is a member of the Board of Directors while the remaining two are researchers (the Board member may be a researcher). None of the panel will have a direct connection to any research project for

which a proposal has been submitted. In cases of conflict that panel member will be excused from voting.

Evaluation of proposals will be made on the following criteria: 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. All funds must be expended during the year of the grant and an accounting of expenditures made available to the EAS treasurer by the end of the year of the grant.

Mann Lake EAS Youth Scholarship

EAS members: we need YOU !! To find deserving young beekeepers interested in coming to EAS.

The Master Beekeepers administrate the Scholarship and Mann Lake funds it.

This is a competitive scholarship open to young people ages 18-25 at time of the conference. If the applicant is a veteran the upper age is 30. Applications are due April 30.

The scholarship pays for most of the one week EAS conference expenses.

Most of you who came to 2022 EAS met Claire Green, our 2022 Mann Lake EAS Youth Scholar. Bee research is big in Claire's plans; read her essay of her experience at EAS 2022 in this issue of the Journal.

For info and application: Go to the Eastern Apicultural Society web page, click on "Master Beekeepers", and click on "scholarship".

Submitted by Brenda Kiessling

EAS Treasurer

The current EAS Treasurer, Jacky Hildreth, is completing his term appointment year ending 2023 and EAS is seeking nominations for the treasurer's position. This is a 4-year renewable term and is a great opportunity to travel to different states with expenses paid for the EAS conferences. Extensive accounting experience or CPA status is not required but nominees should be familiar with Quick Books. The bulk of the work required

can be done in about 1 to 2 hours per week with more time required when registration is open through 30 days past the conference date, reconciling and posting receipts to the correct accounts and then at year end to prepare documents for the accountants to process the tax returns. The job description is posted in the bylaws under Article 4 but feel free to contact Jacky at 207-332-6742 for further description of what it entails.

UPCOMING CONFERENCE

EAS 2023 in Massachusetts

Do you remember your first EAS conference? Or will 2023 be your first EAS conference? Either way, the Massachusetts Beekeepers Association is excited to have you attend next summer's EAS conference in Massachusetts. "Bee swarmed" by hundreds of fellow beekeepers, filling your head with everything honey bees will "bee" an exhilarating experience.

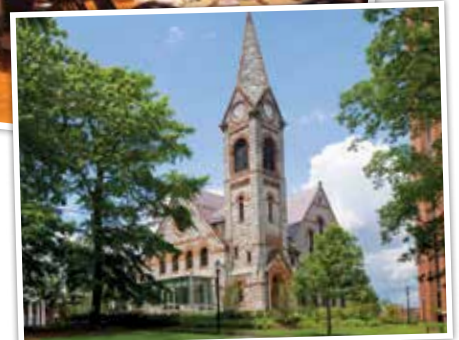
I feel fortunate to have learned about EAS conferences early in my beekeeping career because it has made me a better beekeeper. Through EAS, I have made lifelong friendships with Beekeepers from all over the country and from all over the world.

In 2002, I attended my first EAS conference at Cornell University. All week long, my head was spinning with all the information, anticipating the thrill of opening a hive with leading honey bee researchers. Twenty years later, I am honored to have the privilege to coordinate the 2023 program with my fellow Massachusetts EAS committee members. Several of the Mass Bee committee members have been to numerous EAS conferences. We have been working tirelessly to bring you the unique, high-quality experience that is EAS.

We have chosen Past, Present, and Beeyond as our conference themes. Keynote speakers will include Dr. Cameron Jack, Dr. Samuel Ramsey, and Dr. Judy Wu-Smart.

There are several special workshops planned. Cooking with Honey - the University of Massachusetts Amherst has won the Princeton Review for best campus food for the last six years and we have two of the leading UMass Chefs who will lead the "Cooking with Honey" program. Bee Wrangler Jen Keller will lead queen-rearing courses over the week. Massachusetts Chief State Apiary Inspector Dr. Kim Skyrn and his staff will run the Honey Bee microscopy course. There will be a Honey Bee photography workshop offered, so bring your camera.

Attendees will have the opportunity to take a field trip to one of Massachusetts's largest commercial beekeeping operations at Billy Crawford's New England Apiaries and tour their new honey processing facility.



Planned social events will include a Wednesday evening dinner with Lorenzo Langstroth, the traditional Thursday night Auction, and the Friday night Awards Banquet. The One and Only EAS Bee Olympics is being organized, so get your team ready!

So please save the dates, July 31 to August 4th to attend the EAS conference in Amherst, Massachusetts. The UMass flagship campus is located in the scenic western part of our Commonwealth. Amherst is a comfortable drive from Albany, Hartford, Portland, Providence, and Burlington VT. Attendees should fly into Bradley International Airport in Hartford Connecticut, it's only one hour away. Amtrak's Northampton station is 15 minutes away. There is a UMass hotel on campus and many other hotels surrounding the University. Another option is to stay in one of UMass's comfortable air-conditioned dormitories.

We have been working steadily to provide you with a content-rich and socially enjoyable experience. The Massachusetts Beekeepers look forward to talking bees with all of you.

Mary Duane
President of EAS
EAS Master Beekeeper

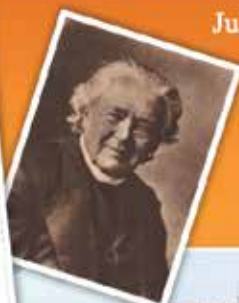
EAS MA 2023

July 31 – Aug 4, 2023

MASSACHUSETTS
EAS 2023



PAST, PRESENT
AND BEEYOND



Eastern
Apicultural
Society

www.easternapiculture.org



68th Annual Short Course and Conference*

University of Massachusetts, Amherst MA

Speakers:

- Dr. Samuel Ramsey
- Dr. Judy Wu-Smart
- Dr. Cameron Jack
- Dr. Tammy Horn-Potter
- Paul Kelly
- Dr. Tom Seeley
- and more...

Workshops:

- Honey Judging
- Bees Under the Microscope
- Lotions and Potions
- Cooking with honey

**EAS Master Beekeeping
Program Testing &
Certification**

Short Course Tracks:

- Beginner
- Intermediate
- Advanced
- Queen Rearing and Colony Management
- Hands-on beekeeping in the State Apiary

Special Events:

- Field Trips
- Auctions
- Honey Show
- Bee Olympics
- Special Visit by Lorenzo Langstroth

**Major Beekeeping Suppliers
and Artisans**

**Watch for Updates on the EAS Website:
<https://easternapiculture.org/conference/eas-2023/>*



Nature, Culture, Food and Entertainment

Flagship campus of the University of Massachusetts system and nationally ranked public research university.

Downtown Amherst - Walkable mile of cuisine, culture, art, and independent film at the center of legendary trail networks for biking, hiking, arts, and literature.

90 miles from Boston and 175 miles from New York City. 64 miles to Tanglewood summer home of the Boston Symphony Orchestra.



EAS BUSINESS

EAS 2020 Board of Directors Meeting

SUNDAY, JULY 31, 2022 | ITHACA NY

Present: Lou Naylor, Chairman; Linda Allen Mizer, Vice Chairman; Bob Talkiewicz, President; Mary Duane, Vice President; Doris Morgan, Secretary; Jacky Hildreth, Treasurer; Dr. Leonard Davis, President Emeritus; Erin MacGregor Forbes, Chairman Emeritus; John Baker, Conn.; Kevin Platte, Washington, D.C.; Janet Anker, Maine; Patti Wong, Maryland; Carin Zinter, Mass.; Michael Sautter, Mich.; Dorinda Priebe, N.H.; John Gaut, N.J.; Mark Gingrich, Pa.; Nancy Simpson, S.C.; Anne Fraser, Va.; Sam Golston, W.V.; Erik Brown, Tech. Team Leader; Doug Galloway, Historian; Landi Simone, MB Certification; Tammy Horn Potter, Honey Bee Health Coalition; Debbie Seib for David Hocutt; Richard Dimani for Michael Sautter; Mark Fiegl, Honey Show

Absent: Marilyn Parker, Alabama; Bob Bauer, Delaware; Roger Blanco, Florida; Brutz English, Ga.; Wesley Card, Louisiana; Burton Beasley, N.C.; Ben Carpenter, N.Y.; Jeannie Saum, Ohio; Cindy Holt, R.I.; Thomas Nolan, Ontario; Julie Fontaine, Quebec; Debby Delaney, MB Advisor; Jim Gross, Life Membership; George Wilson, Honey Show Committee; Steve Repasky, Master Beekeepers

STATES/PROVINCES IN GOOD STANDING:

Alabama, Connecticut, Delaware, District of Columbia, Florida, Georgia, Indiana, Kentucky, Louisiana, Maine, Maryland, Michigan, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, West Virginia, Ontario

STATES/PROVINCES WITH EXPIRED DUES:

Illinois (vacant), Massachusetts, Mississippi (vacant), Tennessee (vacant), Texas, Wisconsin (vacant)

DIRECTOR'S ELIGIBLE TO RUN FOR A SECOND TERM

- Louisiana, Wesley Card
- Maryland, Patti Wong
- Tennessee (vacant)
- Vermont (vacant)

ELECTION OF NEW/RETURNING DIRECTOR'S

- Maine, Janet Anker
- Connecticut, Bill Hesbach
- New York, Mark Fiegl
- Indiana, David Hocutt

Dr. Leonard Davis made a motion to accept the slate for new/returning Director's. John Gaut seconded the motion. All were in favor of the motion.

SECRETARY'S REPORT:

The report from March 6, 2022 was sent out by email. Anne Fraser made a motion to accept the minutes with John Baker seconding the motion. All were in favor of the motion.

The previous years comparison and the P & L were sent out by email along with a yearend review by Sam Golston who examined the EAS accounting procedures. Nancy Simpson had some questions. Q: What actions are being taken to comply with the auditor's suggestions? A: They are being addressed and documentation is being provided. Q: In regards to the charge card, who is authorized to use it for travel and meal expenses and have we complied with itemized documentation as suggested? We do have the charges approved from the executive board when charges are made. Lou Naylor, Linda Mizer and Jacky Hildreth are approved users. Q: Did we provide source documentation for auction sales and other sales during the annual conference and did the person in charge of the function sign and date the transmittal to the treasurer? A: Documentation has been made but the items mentioned were a request from the last review in which documents were not requested when the review happened so Sam did not see them before he wrote the report. Q: Does Sam Golston do this report yearly? The answer is yes.

CHAIRMAN'S REPORT: Lou Naylor

Here we are being social again. We have a great list of speakers scheduled. Please volunteer more, step up to help. Think of something you can do to help.

PRESIDENT'S REPORT: Bob Talkiewicz

It has been an interesting experience. I am grateful for the seasoned group of volunteers that continually make the conference happen.

SITE INSPECTION COMMITTEE:

Mary Duane: Massachusetts is up and running getting ready for next year. We want to thank the New York crew for letting us sit in on the meetings and learn from you. We have an awesome location, and we have some keynote speakers.

FUTURE SITES:

Richard Dimanin stated that the Michigan Beekeepers Assoc. voted two weeks ago to unanimously invite EAS to South East Michigan in 2025. They have a couple of good venues. Michigan State should have their pollinator facility done. There are two locations being looked at, the University of Michigan in Dearborn and the Henry Ford College in Dearborn. A question was raised about 2023, is there anyone taking it on yet. Lou stated, No but that they are working on it. Nancy Simpson asked if Michigan has ever done it before. Richard stated no but they did HAS in 2015 and received rave reviews on it.

Erik brought up that having a conference Coordinator would be a nice person to have as a go between the Board and the state hosting the conference. Linda Mizer stated that there is a listing in the Conference Guidelines of all the rolls needed to host the conference. The question was raised about are there any contingency plans in place in case someone in a critical position can't make it to the conference. Lou stated that John wrote up some contingency plans, we voted on them and they have been very helpful.

TECH TEAM: Erik Brown

Our big change this year is the new web site. The question was asked about how many people are registered for this conference. Erik stated that if you add in the vendors we have 537 registered for the conference. The question was asked "how many of the 537 are paid attendees." The answer was 414. Erik stated that we might want to invest in a wireless mike for the future as those on the zoom call could not hear what was being said in the room. Erin stated that when she

ran the numbers early on, the break even number was around 240 so we have more than enough coming in to support a profitable conference.

MEMBERSHIP COMMITTEE

No report

AWARDS:

- **HAMBLETON AWARD:** Dr. Stephen Pernal
- **ROGER A. MORSE AWARD:** Emma Mullen Walters
- **STUDENT AWARD:** Alvaro De La Mora
- **HONEY BEE RESEARCH AWARD:**

Allison Malay/Dr. Ken Fedorka – Environment and Pollinator Community Impact on HoneyBee Viral Infections and Health \$1395.00

Dr. Juliana Rangel – Determining the Drivers of Precocious Honey Bee Self-Removal Behavior \$8500.00

Kaira Wagoner/Esmail Amiri – Investigation of Honey Bee Virus deposition and Replication on Common Crop Flowers \$1550.00

- **DIVELBISS:** To be announced Friday night at the awards banquet.

HISTORICAL COMMITTEE: Doug Galloway

The historic records of the Eastern Apicultural Society are now ready to be digitized. The records fill six banker boxes. Based on Records Reduction's estimate being approximately \$200.00 per box, the cost for digitizing will be approximately \$1200.00. Additionally, a fee for pickup and subsequent return of the records may be as much as \$160.00. The Eastern Apicultural Society will be invoiced when the process is complete. Payment can be made via check or through an online link. Records Reduction is scheduled to pick up the banker boxes during the week of August 8, 2022.

The records will be posted on the Box.com website with the user(s) being designated by the EAS BOD. The annual fee from Records Reduction for the Box.com web hosting is currently \$180.00. A flash drive which can be duplicated as deemed appropriate, will also be provided. Starting with a composite folder for 1970 – 1979, then each calendar year thereafter, EAS annual records are sorted into folders and sub-folders, using the following format:

EAS 1980, Vermont

EAS BOD Meetings & Administration, 1980, Vermont

EAS Conference & Short Course, 1980, Vermont

EAS Foundation, Awards & Honey Show, 1980, Vermont

EAS Master Beekeeper Certification, 1980, Vermont

Annual documents will be added to the digitized records on a periodic basis.

There are several folders/sub-folders for other pertinent records that were separated from the annual folders due to unique content and to provide clarity during data searches. These folders are:

EAS Historian Archives (EASHA)

EAS Institutional Archives (EASIA)

EASIA Organization/Non-Profit and related records

EASIA Constitution and related records

EASIA Staffing/Volunteers and related records

EASIA Journals and related records

EASHA Conference & Short Course Guidelines and related records

- EASHA Foundation, Awards, Honey Show, and related records
- EASHA Master Beekeeper Certification and related records
- EASHA Historian Reports and related records
- EASHA Financials/Audits and related records
- EASHA Insurance Records
- EASHA Life Members and related records
- EASHA Directors Handbook
- EAS Colony Management Archive (EASCMA)
 - EASCMA (19) content sub-folders
- EAS Short Course/Workshops 1987 – 2009
 - EAS Short Course/Workshop (13) sub-folders

Should the BOD require any clarification of the above or desire additional information, please advise.

Nancy Simpson asked where the banker boxes will be kept in the future and can they be stopped deteriorating? Doug stated that the files going back to 1955 are in good condition, the older items like the gleanings from Bee Culture which date back to 1903 – 1909. Some of them are deteriorating so we will be auctioning them off periodically. The boxes are now stored in a climate controlled area.

HONEY BEE HEALTH COALITION: Tammy Horn Potter

The Honey Bee Health Coalition had its first in-person meeting in May since 2019 from the 10th – 12th. The site was chosen because it is considered the cherry capital of the United States but also pears, peaches, apples, cucumbers, strawberries and other specialty crops are grown there. It was hoped that they would still be in bloom when we met. But we were there right after they bloomed. The Coalition toured a couple of fruit production facilities throughout the meeting, including one that specialized in drying fruits (strawberries were in the dryer when we were visiting). We also met with a farmer who works with local beekeepers for pollination purposed and his fried pies were a pleasant treat. The meetings were held at a Michigan State University extension facility, and one group was formed to coordinate a honey bee nutrition document that would reflect collaboration among many entities. Another subgroup is working on a document for solar farms. I (Tammy) will be asked to proof the solar farm document when it is at that stage. The event was productive and offered a chance to re-connect and consider new efforts to help beekeepers.

HONEY SHOW ADVISORY COMMITTEE: Mark Fiegl

I think we are ready to go. We lost a few judges this past week but were able to replace them. Next year the show will be in Massachusetts. They need to figure out a way to consolidate and store the honey show material. Chris Delany will be the Honey Show superintendent. There was discussion on buying a trailer versus renting a storage facility to house the Honey Show equipment until needed if there isn't space to put it in future sites. Mark wanted to take what was discussed back to the Honey Show Advisory committee to get their input.

JOURNAL: Linda Mizer

We still put the journal out three times a year. There are still supply issues and costs have gone up. We now charged a price for those people who want a printed copy versus getting it through the web site. The twenty dollars we charge is not enough to cover printing and mailing costs but we will leave it as it is for now. It costs about \$9.00 a copy to print. Less than 10 people have asked to receive printed copies. Linda has a schedule set up as to when things need to be turned in for each journal. The Master Beekeepers have been good in submitting articles but she is always looking for more articles to include.

LIFE MEMBERSHIP: Jim Gross

No report. Lou Naylor stated that there are 42 new Life member certificates to give out this week.

MANN LAKE EAS SCHOLARSHIP:

The winner for this year is Claire Green.

MASTER BEEKEEPERS: Landi Simone

We had 19 new candidates this year, 2 of them had to cancel for various reasons. In addition we have 10 people returning to retake the exams so total we have 27 people taking the exams. We are going to be giving 23 oral exams, 24 written exams, 21 lab exams and 19 field exams. Landi wanted to thank Dorinda Priebe, our oral team leader and Dave Burns, our brand new Field team leader. They have upgraded their field exam grading sheet protocols and how they are administering the exam. Landi wanted to thank the Board for the wonderful volunteer Master Beekeeper dinner that they enjoyed tonight (Sunday). They had about 20 people attend all of whom will be helping with the exam. Lou asked about Steve Repasky and Landi stated that he had to resign as Director because of work commitments. This will be addressed at the Friday morning Master Beekeeper annual meeting. Erin MacGregor Forbes stated that the Board of Directors needs to lean on the Master Beekeepers to help with this organization. Erik Brown asked if there is a requirement for the Master Beekeepers to give back and volunteer. Landi stated that no there is not, years ago passing the Master Beekeeper test was really just bragging rights. What they look for now is service and this is stressed in the application form.

UNFINISHED BUSINESS:

Ann Fraser stated that at the last meeting John Gaut had come up with some proposed changes to the EAS By-Laws. No one was sure if this could be done legally. She is looking into whether the EAS Constitution predates the EAS By-laws because if it does not, we have to abide by the Delaware rules as that is where we are chartered. She and John need more time to look into this.

John Gaut made a motion to adjourn the meeting with Landi Simoe seconding the motion.

Minutes respectfully submitted by Doris Morgan EAS Secretary



EAS 2022 Business Meeting Minutes

AUGUST 5, 2022 | ITHACA COLLEGE, ITHACA NY

The meeting was called to order by Chairman Lou Naylor

SECRETARY'S REPORT: Doris Morgan

The minutes from August 13, 2021 Shepherdsville, Kentucky were published in the Fall 2021 Journal. Mary Duane made a motion to accept the minutes as printed in the Fall 2021 Journal. Erin MacGregor Forbes seconded the motion, all were in favor of the motion.

TREASURER'S REPORT: Jacky Hildreth

We seem to be having a very profitable year again this year like last year. The only hiccups are the EAS 401K that has taken a dive. We have done so well with the conference that we will be ending the year with about a \$13,000 profit. The financials have been posted in the Journals. Jacky is stepping down at the end of his term in 2023 so we are looking for a person to replace him. If interested see him.

CHAIRMAN'S REPORT: Lou Naylor

I hope you are all having a good conference.

Resolutions 2022

EAS Conference, Ithaca, New York

EAS thanks Bob Talkiewicz for his leadership as our 2022 President.

EAS thanks the Executive Committee, the Board of Directors and our standing and ad Hoc Committees for helping to make our organization a continuing success.

EAS thanks Ithaca College and Cornell University for working with us to make this year's conference a success, especially Joe, Jordan, Abbi and Rachel.

EAS thanks the Empire State Honey Producer Association for their help and support.

EAS thanks all who served as committee chairs and worked to make this conference a success including our conference secretary Joseph Alvarez, our Auction Chair Meghan McConnell, Jason Smith, Erik Brown, David Elkner, Saranna Elkner, Debbie Klughers, Ned Morgan Steve Wilson, Doug Galloway and the Historical Committee and all who volunteered to help make EAS a success.

EAS thanks the Master Beekeeper Certification Committee, Landi Simone, Dorinda Priebe, David Burns and all of the Master Beekeepers who planned and carried out our candidate testing.

EAS thanks all the Master Beekeepers who fulfill a core part of our mission.

EAS thanks the Honey Show Chair Mark Fiegl and all who acted as judges and assistants for their work on our Honey Show, including Karla Eisen and George Wilson. This is George Wilson's last year as Honey Show Chair so be sure to thank him for all his help the past few years in bringing the Honey Show back.

EAS thanks all of those who donated, bid and made our Virtual, Silent and Live auctions a success.

EAS thanks Michael Rowell and Jason Hamilton for providing bees for our Apiary.

EAS thanks Jennifer Keller and Don Hopkins for their many years of service as our bee wranglers and instructors.

EAS thanks Kutik's Everything Bees for hosting a wonderful BBQ and educational experience.

EAS thanks all of our Sponsors and Vendors for attending and supporting our conference.

EAS thanks all of our speakers for sharing their knowledge.

EAS thanks Linda Mizer for our beautiful Program Guide.

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.

EAS thanks all of our Colony, Queen, Worker and Drone Level, Honey Bee Research and Speaker and Education Fund donors.

EAS thanks all of our Bronze and Silver, refreshment break and Honey Show sponsors.

EAS thanks all who have so generously donated items to our auctions.

EAS thanks all volunteers who gave their time to assist in any way needed to create a warm welcome to our members and guests.

VICE PRESIDENT'S REPORT (EAS 2023): Mary Duane
Massachusetts is well underway in organizing for EAS 2023 next year at the University of Mass. Amherst. We look forward to you coming to our great state and sharing our love of beekeeping with us.

FUTURE SITES:

Michigan 2025: We have not been there for many, many years.
For 2024 we are still talking, we are hoping to go to Maryland.

COMMITTEE REPORTS:

AWARDS:

Hambleton – Dr. Stephen Pernal -The award was given last night.

Roger A. Morse – Emma Mullen Walters – Emma recently got a new job and could not make the conference so Linda Mizer will be accepting the award for her this evening.

Student Award – Alvaro De La Mora

Divelbiss – Will be awarded tonight (at the Friday night banquet)

HISTORICAL COMMITTEE: Doug Galloway

The Historical Committee in the last eight months has accumulated all the old files of EAS. They have been sorted and will be digitized on August 9th. After being digitized the Executive Committee will decide who those files will be accessible to.

MEMBERSHIP: Erik Brown

We have about 3000 people in our WildApricot database which includes members and nonmembers. We have 8 states that have joined as an organization. We have almost 700 Life Members. Joining as a Life Member is a good way to save money. We have about 1800 active members right now and we appreciate all of you supporting EAS and coming to the conference.

STATES WITHOUR DIRECTORS:

Illinois, Mississippi, Tennessee, Vermont, Wisconsin, Maritime Provinces
If you know anyone in those areas encourage them to become a Director.

HONEY BEE HEALTH COALITION: Doris Morgan for Tammy Horn Potter

The Honey Bee Health Coalition stakeholders met in-person for the first time since 2019 in Traverse City, Michigan, from May 10-12. The Site was chosen for its microclimates that allow for orchard production, specifically cherries, but also pears, peaches, apples, cucumbers, strawberries, and other specialty crops. The Coalition toured a couple of fruit production facilities throughout the meeting, including one that specializes in drying fruits (strawberries were in the dryer when we were visiting). We also met with a farmer who works with local beekeepers for pollination purposes and his fried pies were a pleasant treat. The meetings were held at a Michigan State University extension facility, and one group was formed to coordinate a honey bee nutrition document that would reflect collaboration among many entities. Another subgroup is working on a document for solar farms. I (Tammy) will be asked to proof the solar farm document when it is at that stage. The event was productive and offered a chance to re-connect and consider new efforts to help beekeepers.

HONEY SHOW ADVISORY COMMITTEE: Mark Fiegl

Mark was the Honey Show Superintendent for this year. He would like to thank everyone who brought entries this year to the Honey Show. He thanks the stewards, the judges, the people who work hard on the Honey Show, and the advisory board who worked hard in planning the show. There was a pretty good representation this year. We are glad to take criticisms and advice to make the show better.

LIFE MEMBERSHIP: Jim Gross

This year we had 54 new members and we have a total of about 680. We gave out certificates at the Life Members luncheon, if you didn't get your certificate for some reason, we still have them and can either give them to you or mail them. One perk of having a Life Membership is that they have to send you the Journal until you die.

JOURNAL: Linda Mizer

Traditionally we put out three Journals a year. The printing costs have really increased because of supply chain issues and mailing issues so this year we decided to charge members for receiving a printed copy. The charge is \$20.00 a year, which doesn't cover the cost to print it. It is put up on the EAS web site for those who don't get printed copies. Linda would appreciate anyone who would like to submit an article, pollen pictures on bees, any information for a special occasion or a special person. They try to highlight a Master Beekeeper in each issue. If you have any good pictures of the conference that you would like to send in to put in the Journal that would be welcomed.

MANN LAKE SCHOLARSHIP: Brenda Kiessling

The Scholarship is available to anyone 18 to 25 years old at the time of the Conference. It is a youth scholarship to attend EAS. It is funded my Mann Lake which covers transportation to and activities at EAS. Please look around you when you are working your bees for a worthy person and encourage them to apply. I would like to thank the committee, Jeff Burd and Landi Simone

for their help. This year they selected an amazing young lady to get the scholarship, she is here, Claire Green please stand up.

MASTER BEEKEEPERS & CERTIFICATION: Landi Simone

I am over the Master Beekeepers certification committee and we have been a bunch of busy beavers this week. We had 16 new candidates and 9 retakes. A few others had qualified but were not able to come to the conference for one reason or another. Of the 25 candidates we will be certifying 5 new Master Beekeepers. I want to thank in particular Dorinda Priebe who is in charge of the orals, Dave Burns who is in charge of the field exams and Dr. Debbie Delaney who is our advisor who put out a very challenging exam. Her exams weed out the wannabees from the true Master Beekeepers.

NEW BUSINESS:

John Gaut made a motion to thank Linda Mizer for a wonderful Journal, the motion was seconded. All were in favor of the motion.

Steve Wilson made a motion to thank Lou Naylor and Linda Mizer for a wonderful conference. John Gaut seconded the motion. All were in favor.

Landi stated that in the Master Beekeeper meeting this morning Dave Priebe was selected as the new Master Beekeeper Director. A motion was made to accept Dave Priebe as the new Master Beekeeper Director, it was seconded and all were in favor of the motion.

A motion was made to adjourn the meeting, and it was seconded.

Minutes respectfully submitted by Doris Morgan EAS Secretary

EAS Executive Committee, Directors, and Contacts

EAS EXECUTIVE COMMITTEE

Chairman of the Board

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Vice Chairman of the Board

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Chairman Emeritus

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Membership Chair

Questions about renewing your membership ? Please contact Robert Bauer.
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Year indicates expiration of term as director

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