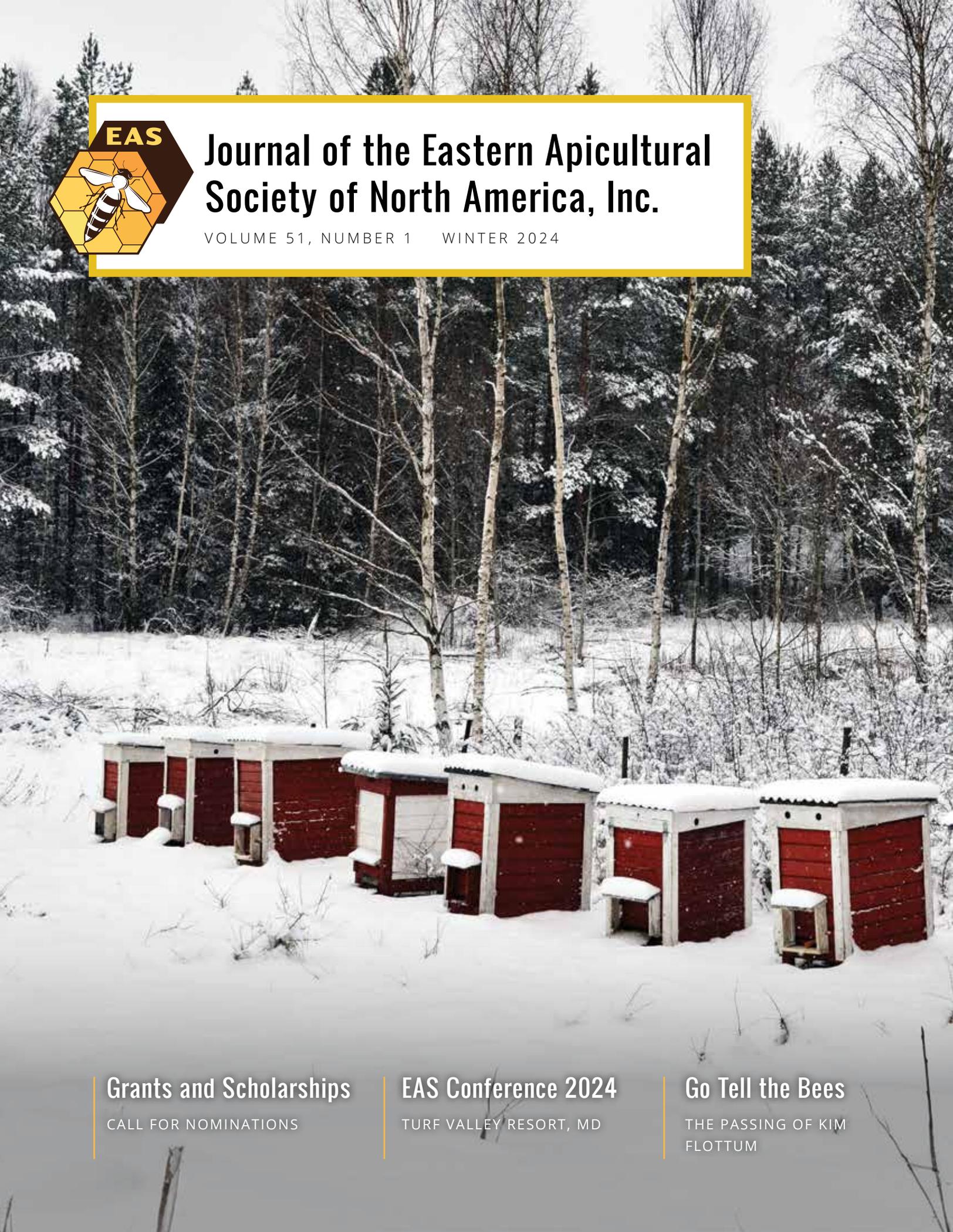




Journal of the Eastern Apicultural Society of North America, Inc.

VOLUME 51, NUMBER 1 WINTER 2024



Grants and Scholarships

CALL FOR NOMINATIONS

EAS Conference 2024

TURF VALLEY RESORT, MD

Go Tell the Bees

THE PASSING OF KIM FLOTTUM



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WELCOME, From the Desk of the President

Dear reader, August 2024 may still seem a long time away to you, but for the planning committee, it looms large on the horizon.

The 2024 Short Course is ambitious. Here's a smattering of the available classes.

Beginning level will:

- help new beekeepers get their hives through those difficult first years of beekeeping
- discuss what to look for during a hive inspection
- help in recognizing and correcting problems
- help you identify bee diseases and more.

Intermediate level will present information on:

- increasing your operation with the science behind splits
- nucleus colonies
- queen rearing and more.

Advanced level includes:

- ergonomic issues in the bee yard
- parasite control
- contracts
- finances
- observation hives and more.

In addition, you can learn to better appreciate bees and products of the hive with rendering beeswax, making value-added products from the hive and improving your cellphone photography. Visiting the apiary, just outside the hotel, will be an active and instructive experience for all, with great bee wranglers to talk with.

This year we will introduce "Deep Dive" classes. The Deep Dives are a three-hour class on Monday and Tuesday, that will present in-depth topics: "EAS Honey Judging"; "Honey Bee Biology"; "Making Splits and Nucs" and "Varroa Biology and All Legal Mite treatments".

The Conference opens on Wednesday with Dr. Michelle Flennikin from Montana State University. A specialist in honey bee viruses and pathologies, she leads the

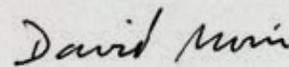
Flennikin Lab at MSU and serves on the Project Apis m. Scientific Advisory Committee. Additional Keynote speakers are Sam Droege and Dr. Jeff Pettis. Sam Droege is a US Geologic Survey wildlife biologist at the Eastern Ecological Science Center in Maryland and an expert on native bees. You probably have seen his amazing insect photographs. Jeff Pettis is the former Research Leader for the USDA Beltsville Bee Lab, President of Apimondia and the recipient of the EAS Student (1990) and Hambleton (2004) Awards.

Maryland is a great state to visit - rich in history, natural beauty and local attractions. Baltimore hosts the National Aquarium, the USS Constellation (the last all-sail sloop-of-war designed and built by the US Navy), the B&O Railroad Museum, the Walters and Baltimore Art Museums and more. Washington, D.C., is less than an hour's drive away and features numerous monuments and free Smithsonian Museums.

Planning for local tours is underway. We already have lined up a tour of the USDA Beltsville Bee Lab to give you an opportunity to see how the lab works and meet the people who conduct the research and test your brood samples.

Room reservations are now open for accommodations at our conference location, the Turf Valley Resort, through the EAS website at easternapiculture.org/conference/eas-2024. The conference, classes and vendors will be under one roof. On-site there is a spa, indoor and outdoor pools, dining, tennis courts and golf. We have obtained special rates for rooms to make this an affordable visit.

The Maryland team warmly welcomes you to our state and an exciting Short Course and Conference. We look forward to seeing you at EAS 2024!



David Morris
EAS President

A Note from the Editor

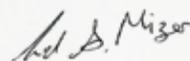
Throughout 2023 beekeeping has experienced many challenges and developments. These include the invasion of the Spotted Lantern Fly and the Yellow-legged Hornet, varroa mites finally arriving in Australia, and research in honey bee and mite biology that has developed novel treatment for varroa, such as Amiflex, and a vaccine for American Foulbrood.

EAS promotes awareness of these challenges and developments through the content of the EAS website and the EAS journal. EAS welcomes suggestions for and

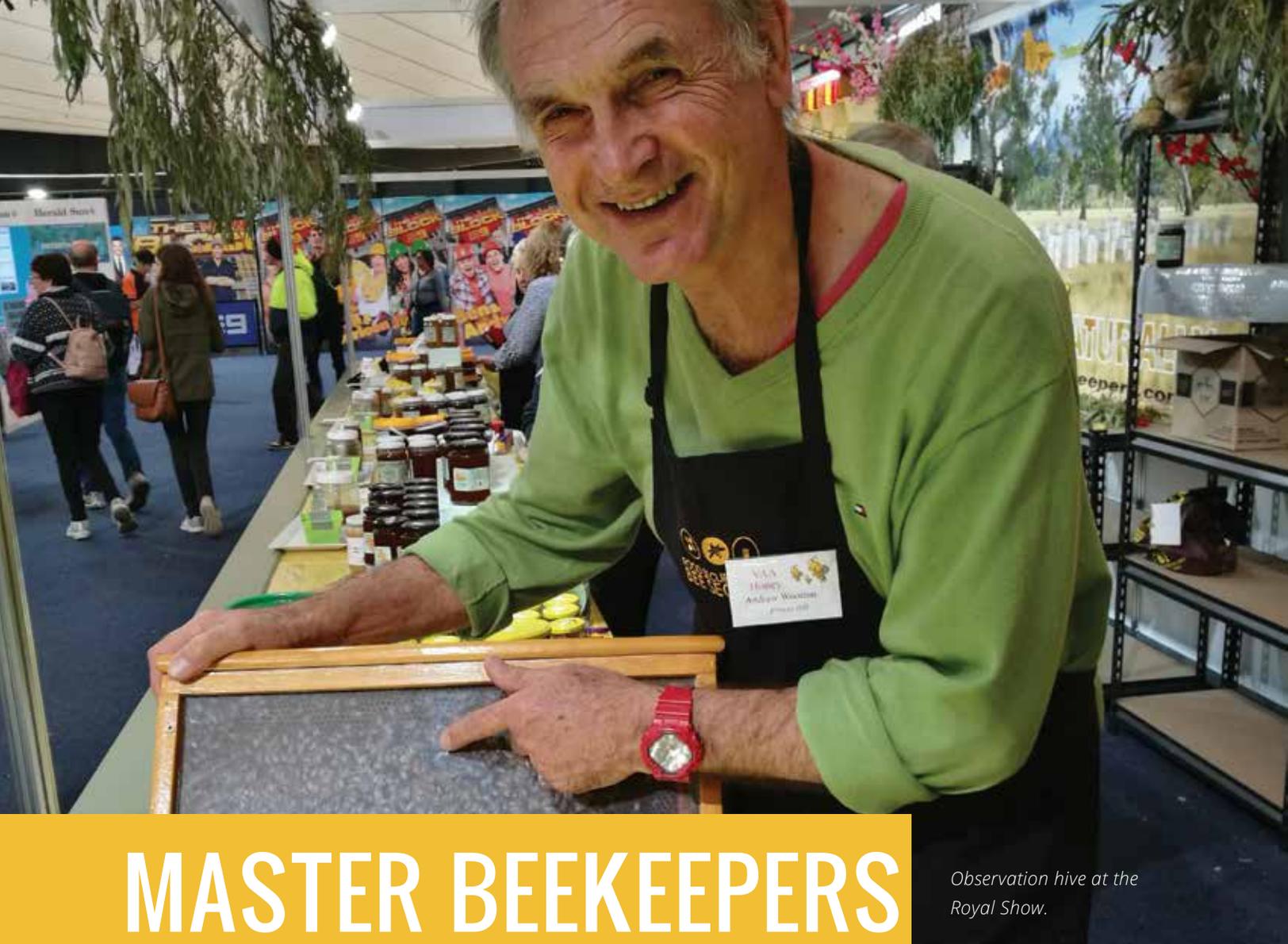
comments about the content of both the journal and the website. Please address your remarks to journal@easternapiculture.org.

Wishing everyone the very best for the coming year in all that you do.

Sincerely,



Linda A. Mizer
Vice-Chair of EAS
Editor, EAS Journal



MASTER BEEKEEPERS

Observation hive at the Royal Show.

Interview with Andrew Wootton, PhD, EAS Certified Master Beekeeper

Submitted by Lisa Marie Ghezzi, Easton, Maryland; EAS Certified Master Beekeeper and member EAS Field Exam committee; county delegate, Maryland State Beekeepers Association; state delegate, American Bee Federation; and farmer, Maxmore Creek Farm LLC.

Over the past 40 years the Eastern Apiculture Society (EAS) has seen two surges in overseas interest in its Master Beekeeper certification program. As a result, in the early nineties, EAS certified several candidates from Canada, and later certified two additional candidates from Africa (2016) and Australia (2018). It was 2018 as I first sat for my EAS exams in Hampton, Virginia that I met Andrew Wootton from Melbourne, Australia. As you read on, you'll see why Andrew is one of the few beekeepers who passed all four parts of the exam his first year – having traveled over 10,000 miles, perhaps he had a bit of an incentive to pass the first time, but I think the answer lay more in his keen interest in honey bees and how he could be of service to his country to manage healthy honey bee populations. I was fortunate to have met Andrew and to learn of the beneficial partnership he has been involved with to stave off varroa's entry into Australia.

What inspired you to become a beekeeper? Please tell us how you got started and what you are doing with your beekeeping skills today.

My father had three hives at the bottom of our garden. There's a picture of us kids in the family album making cubby houses with the spare boxes. I helped him, then became my school's beekeeper (in the land of the blind, the one-eyed man is king!). My beekeeping career was set back when I became allergic to stings, but following desensitisation I haven't looked back. I try to convince myself that the ouch of getting stung is compensated by keeping up my immunity. I now run about 20 hives and prefer raising queens to getting sticky in the kitchen extracting honey. My principal focus has been on education; I've run many courses for beginners and on queen raising. I've also been very involved in the biosecurity responses to the varroa incursion into Australia.

I'd like to share a little about your career but don't know much, other than you're a former academic. Have you always been involved with bees, or did you start beekeeping after another unrelated career?

I was a clinical biochemist which means I worked in hospital laboratories measuring patients' cholesterols and glucoses (also many other tests, hormones, cancer markers, etc). I was fortunate to work in major teaching hospitals both in Australia and the UK. This meant I could do some research as well as fulfilling service requirements and I reached the heady heights of principal scientist, consultant and head of department. Towards the end of my career, I moved to the local university to spend six years teaching clinical biochemistry. It's enormously fulfilling to pass on your experience to the next generation of workers.



Wootton back garden, 1956

The laboratory skills I learnt have transferred to beekeeping; grafting seems pretty straightforward and computers were embedded. I did some pioneering work with early webinars and educational CDs and this has been very handy for bee courses.

How did you hear about the EAS Master Beekeeper certification program and why did you choose it over other programs?

I wanted to qualify as a master beekeeper due to my somewhat naive ambition for Australia to develop similar qualifications. There are no agreed pathways and curricula here. All States do things differently and



EAS Certified Master Beekeepers, class of 2018 in Hampton, Virginia



Andrew's favourite apiary (roof of a city hotel, drinks on the proprietor after inspection!).



apart from a very small number of polytechnic courses aimed at commercial apprentices, there is nothing for the average recreational beekeeper. But I felt I could not claim credibility promoting such a programme without having a formal qualification to back myself. After considering the British and Scottish master beekeeping qualifications as well as some of the American university extension programmes, I realised these would have required several years of structured study. On the other hand, the EAS qualification was exam only – could I tackle this with a realistic chance of success?

How did you prepare for the exams? Has your EAS MBK certification changed your beekeeping experiences in any way?

I targeted the meeting in 2018 and gave myself something over six months to prepare. On approaching the EAS for approval to sit, it was clear my request was a little unusual and produced a response emphasising there would be no concessions for my lack of experience with handling varroa. I accepted this is an American qualification and had no wish to be treated differently from anyone else. I set about a very extensive study programme, purchasing numerous additional texts to support my study. As a former academic, I was of course well used to preparing for exams, setting exams and sometimes even failing exams. I put in an enormous effort, hoping to overcome the limitations in my experience.

It turned out to be a fantastic journey; first the study and then the very warm welcome by everyone at EAS. How lovely to feel so strongly that everyone wanted me to succeed. And I really filled in a lot of gaps in my knowledge, particularly learning a great deal about varroa, which is about to be very useful.

Back in August 2022, I understand you were deployed again as a Victorian SQRT (State Quarantine Response Team) member in the almond orchards bordering the States of Victoria and New South Wales to ascertain the level of varroa outbreak in Australia. Can you share with us your experiences as a team member, your findings, and any updates to your work?

Victoria established the SQRT programme in 2017. The idea was to support the full-time biosecurity staff at Agriculture Victoria who have rather limited beekeeping experience apart from

a couple of apiary specialists. This partnership between beekeepers and the biosecurity team could be deployed at short notice in emergencies. Funds were available to pay the beekeepers as casual staff. Brief training was undertaken and a group of beekeepers recruited. We were required almost immediately as in 2018, varroa infested bees were found on a container ship coming from America to the Port of Melbourne. The SQRT response was activated and we investigated the area around the port with miticide strips and sticky mats, also searching for feral colonies. Fortunately, on this occasion the mites had not reached the shore.

SQRT has been deployed to almond pollination each year, checking for American foulbrood (AFB) and now varroa. This has been a highly successful exercise and personally I've benefitted greatly from the experience. It is wonderful working with both the biosecurity professionals and other beekeepers. The experience and expertise of commercial beekeepers is notable and it's quite salutary to see how efficient they are compared to me, tripping over my smoker and bumbling about generally. I've also volunteered in New South Wales with the Department of Primary Industry there and spent a week euthanising bees around the varroa outbreak in Newcastle as well as another deployment to the almonds.

Some say, despite Australia's investment of \$100 million over 14 months to stop varroa, eradication was no longer possible. Having been involved at the ground level, do you believe this to be the best decision? What have you learned on SQRT that may be helpful for the United States, Canada and South America to hold off the entry of the Tropilaelaps in the Americas?

This year I was in the almond orchards again performing destruction when Australia made the decision to transition from elimination of varroa to management. This was the consequence of



Alcohol washing in the Mallee, a sub-region of the north-westerly part of Victoria, Australia, with the SQRT Agriculture Victoria team, Andrew Wootton (right).

the huge number of hives that had been trapped in the eradication zones, and it had become clear that elimination was no longer possible. This decision, although sensible, was profoundly disappointing given the effort and cost, especially for those of us who'd invested so much energy in supporting the programme. However, the SQRT programme continues its work, now supporting surveillance as we prepare for the varroa onslaught spreading throughout the country. Additionally, the ongoing problems of foulbrood and new threats such as *Tropilaelaps* require our continuing vigilance. I thoroughly recommend that other countries establish similar programmes to SQRT; its value in supporting our government agencies has been immense.

It is wonderful working with both the biosecurity professionals and other beekeepers. The experience and expertise of commercial beekeepers is notable and it's quite salutary to see how efficient they are compared to me, tripping over my smoker and bumbling about generally.

The Flow Hive, invented by a father and son team from NSW, Australia, surprised the beekeeping world in 2015. Will you share your perspective of this invention, and perhaps shed a little light on its origins and your thoughts it may play in the future?

When the Flow Hive was announced, many existing beekeepers were quite negative, feeling it would bring in many inexperienced (and possibly irresponsible)



Student success in a queen raising course

new players. I remember arguing that it was clearly going to be a huge hit and that we needed to take on the responsibility for ensuring that these new beekeepers were well trained. I set up and ran the first training course in the world specifically for the Flow Hive. To our advantage, Stuart Anderson accepted our invitation to speak at the course.

When I opened the event online, the flood of registrations crashed the membership software's capacity! I well remember sneaking away from a dinner party and frantically archiving existing club members to make room for the new joining members until I could upgrade.

It's now nearly nine years since the Flow Hive was launched and I've met Stuart and heard him speak many times. I regard him a friend and very much admire the company's commitment to education and sustainability. The Flow Hive has been an extraordinary success (even spawning knockoff designs) and clearly matches the needs of a set of beekeepers. I have been pleased to support the company (NB: no compensation interest to disclose). We do need to keep pushing the requirement for knowledgeable and responsible beekeeping, even more so now with the added challenges of varroa.

What are your long-term plans for beekeeping?

I'm currently working with a partner in small scale queen rearing and nuc making – lots of fun. I run the website for the Victorian Apiarists' Association and am on their management board. My focus is on education and putting effort into ensuring that Australian beekeepers are well informed about varroa and its management; this work is very rewarding. As far as developing any agreement on Australian qualifications, this seems as far off as ever; parochialism is a challenge!

You've participated in several webinars, given many presentations including at Apimondia in Turkey and Canada, and are involved in the leadership of at least a few clubs that I can tell. What has been your most enjoyable experience?

I can think of many wonderful moments, as recently as taking a frame of pristine capped honey down from the restaurant roof apiary to the kitchen and seeing the chefs' eyes light up as they imagined the possibilities. Perhaps the most rewarding feeling was recently at a queen raising course I ran. Because first time grafters don't always succeed, I had decided to provide 48hr queen cells that I had grafted to all the students, so they would have the experience of raising, getting the queen mated and nurturing a nuc to maturity. The participants went home on day 1 of the course and made up their own nucs and on day 2, took a queen cell home in a disposable coffee cup to install. This all worked out and they successfully raised colonies – marvellous. And they had good success with their own grafts too.

I'd better contrast this with my least successful experience. I once took a "civilian" to an apiary to show them the bees. The colony needed requeening and so I said "wear this veil and if the bees start acting up, get in the car where you'll be fine". Sure enough, the bees went ballistic. I turned round and to my horror saw the unfortunate person had removed her veil and was flailing at a huge cloud of very angry bees. It took what felt like ages to get her into the car, accompanied by



Learning skep making with a master basket weaver (left), Andrew Wootton (right).

only a few hundred bees. By now of course I had my own nebula of murderous bees, so it was somewhat marginal as to whether I could get in to assist. About a hundred stings and a hospital visit for someone under my care! I can still hardly bear to think about it. Standard warning now in use....

What “Words of Wisdom” would you like to share with other Master Beekeepers? How has beekeeping changed your life?

I hesitate to give advice to other master beekeepers but can only share how much fun I've had with beekeeping and that I'm still learning. There's always something new to discover, enjoy the ride and keep your eyes and ears peeled. This week I was in a remote apiary in the bush,

performing endless alcohol washes. We were dressed in what are colloquially known as sperm suits (disposable Tyvek white coveralls, very hot) and getting stung. Sweating profusely and with a sore back, I looked around and thought “there's no better office to work in”.

Do you have any closing thoughts to share?

I'm enormously impressed with EAS, proud to be a part of it and feel guilty that I haven't been back for so long. I've always wanted to help out with the Master Beekeeper exams as well as catching up with all my good friends. Covid and general busyness intervened, but I'm determined to come in 2024.

As noted above, Australia made the decision to transition from a varroa eradication to a varroa management plan; it was in September 2023. Up to that time, more than 30,000 colonies were euthanized, a tremendous expense to Australian taxpayers, and leaving a lot of businesses crippled. Though varroa is now spreading in Australia, the country was able to prevent entry 35 years longer than the United States. Perhaps we can learn from their private-public partnership to engage in efforts to stave off our next likely mite threat, *Tropilaelaps*, until solutions to manage it effectively can be found.

Andrew and I communicate from time-to-time since that first meeting in August of 2018, and hope that my husband and I are able to visit Andrew and his wife, Ali, in the not-too-distant future. EAS' focus on excellence in education brings the world together in ways perhaps it never planned or thought possible...



SQRT team at work in an almond orchard near Mildura.



AWARDS, GRANTS & SCHOLARSHIPS

Call For Award Nominations

Call for Nominations for the EAS James I. Hambleton Memorial Award; Roger A. Morse Outstanding Teaching/Extension Service/Regulatory Award; and Student Apiculture Award.

Nominations are now being accepted for all three awards. The awards for 2024 will be presented at the annual conference of the Society at Turf Valley Resort, Ellicott City, Maryland, August 5 – August 9, 2024.

Nominations and letters of recommendation should be emailed to:

AwardNomination@easternapiculture.org and received no later than February 1, 2024.

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.

● **THE JAMES I. HAMBLETON MEMORIAL AWARD** was established by the Eastern Apicultural Society of North America to recognize research excellence in 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. 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.

● **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.

EAS Foundation for Honey Bee Research

CALL FOR PROPOSALS, 2024

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 2024 is \$20,000.

The awards will be announced at the EAS 2024 Conference but available by April 1, 2024. The principle investigator may be invited to present their findings at the 2025 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, 2025.

Deadline for application is February 1, 2024.

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, 2024 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.



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.

To initiate a nomination, 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.

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 2023 EAS met Kyle Day, our 2023 Youth Scholar. His essay about his week is exhausting just to read - it is in the Fall issue of EAS Journal. He covered a lot of territory.

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

Submitted by Brenda Kiessling

HONEYBEE HEALTH COALITION

HBHC Among Team of Researchers Selected to Receive Grant to Support Varroa Mite Management to Improve Pollination of Specialty Crops

*Submitted by Tammy Horn-Potter, State Apiarist,
KY Department of Agriculture*



**HONEY BEE
HEALTH
COALITION**

The U.S. Department of Agriculture has selected a project led by members of the Varroacide Resistance and Testing Team (VRTT), facilitated by the Honey Bee Health Coalition, to receive funding as part of a new initiative aimed at enhancing the competitiveness of U.S. specialty crops. The project led by the VRTT members is one of 21 projects that will receive funding under the new federal initiative.

“We all count on America’s specialty crops for reliable access to nutritious, fresh foods,” said USDA Deputy Secretary Xochitl Torres Small in the Nov. 9 announcement. “Specialty crop producers are hard at work to keep operations profitable while implementing sustainable practices, and President Biden is proud to invest in innovation within the industry to remain competitive domestically and in markets across the world.”

The goal of the Varroacide Resistance and Testing Team is to expeditiously provide North American beekeepers safe and effective, resistance-breaking varroacides, and in doing so, fill important gaps in varroa mite mitigation research. Several researches from the VRTT are leading the project receiving the USDA grant. The project aims to develop and deploy novel tools to support varroa mite Integrated Pest Management for enhancing honey bee health for pollinating specialty crops. Some beekeepers have been successful at using a range of genetic, cultural and chemical varroa control tactics in an Integrated Pest Management approach; however, widespread adoption of these practices across commercial beekeeping has been limited by barriers to communication driven by a lack of objective data on the efficacy and timing of varroa control methods and an accounting of the economic costs. Even among beekeepers that are successfully managing varroa today, new approaches for varroa control are badly needed to handle future varroa outbreaks.

Members of this team will work with beekeepers to reduce honey bee colony losses and maximize the strength of colonies available for crop pollination by (1) re-evaluating the efficacy and economics of using various combinations of currently available varroa management tools; (2) developing new chemical controls that overcome resistance; and (3) integrating and implementing all approaches into comprehensive varroa management plans.



FEATURED ARTICLES

Notes from the Lab: The Latest Bee Science Distilled

By Scott McArt as published in *American Bee Journal*, November 2023



Scott McArt is an assistant professor of pollinator health and helps run the Dyce Lab for Honey Bee Studies at Cornell University in Ithaca, New York. He's particularly interested in scientific research that can inform management decisions by beekeepers, farmers, regulatory agencies, and the public.

Email: shm33@cornell.edu | Lab website: blogs.cornell.edu/mcartlab

Pollinator Network: pollinator.cals.cornell.edu

Facebook: facebook.com/dycelab | Twitter: [@McArtLab](https://twitter.com/McArtLab)

What can be learned during varroa's establishment in Australia?

I just moved to Australia for a year-long sabbatical. (Yes, it's a major perk of being an academic researcher!) Given my current location, it probably isn't surprising that my email in-box is filled with people asking what I've learned so far about "the varroa situation."

If you don't already know, until recently Australia was the last inhabited continent to avoid varroa. A truly impressive achievement given that varroa made its host switch from *Apis cerana* to *Apis mellifera* just a few thousand miles north in Japan, Hong Kong, and the Philippines in the 1950s and early 1960s, then spread through Asia, Africa, and Europe in the 1960s and 1970s, South America in 1971, North America in 1987, then neighboring New Zealand in 2000 (Traynor et al. 2020). Australia had been the last major holdout.

But in June 2022, varroa was detected in sentinel hives in the Newcastle area of New South Wales, just north of Sydney. Despite a \$132 million (\$84 million U.S.) eradication response plan from the Australian government [now abandoned, see "News and Events" in this issue], varroa infestations have now been detected as far north as Coffs Harbour and as far southwest as Balranald near the Victorian border (see Figure 1). In other words, it's more or less certain this "varroa situation" isn't going to be stopped.

Sad as it is that varroa is establishing in Australia, there are also opportunities to study its impact in real time. Such opportunities were rare during previous varroa invasions because

beekeepers and scientists rarely had rigorous pre-invasion data in those locations. That isn't true in Australia, which has heaps of great pre-invasion data. So, what will the consequences of varroa's invasion be for colony health and loss rates? What about the tempo of miticide resistance, spillover of viruses into native wild pollinators, and impacts on pollination? These are the topics for the sixty-ninth *Notes from the Lab*, where I summarize "*The final frontier: Ecological and evolutionary dynamics of a global parasite invasion*," written by Nadine Chapman and colleagues and published in the journal *Biology Letters* [2023].

The paper by Chapman and colleagues is an "ideas paper," which means it doesn't contain data. Instead, it contains lots of ideas for future research. These types of papers are useful because they discuss in detail the opportunities and challenges for research and monitoring, which can shape what is and isn't done in terms of fundamental scientific studies (e.g., determining the genes governing host-parasite coevolution) and applied studies (e.g., predicting when chemical miticides will lose efficacy against varroa). In other words, an "ideas paper" on varroa is a great way to set the agenda that's most like-



Katja Hogendoorn

An apiary amidst eucalypt trees in the Grampians region of Victoria, Australia

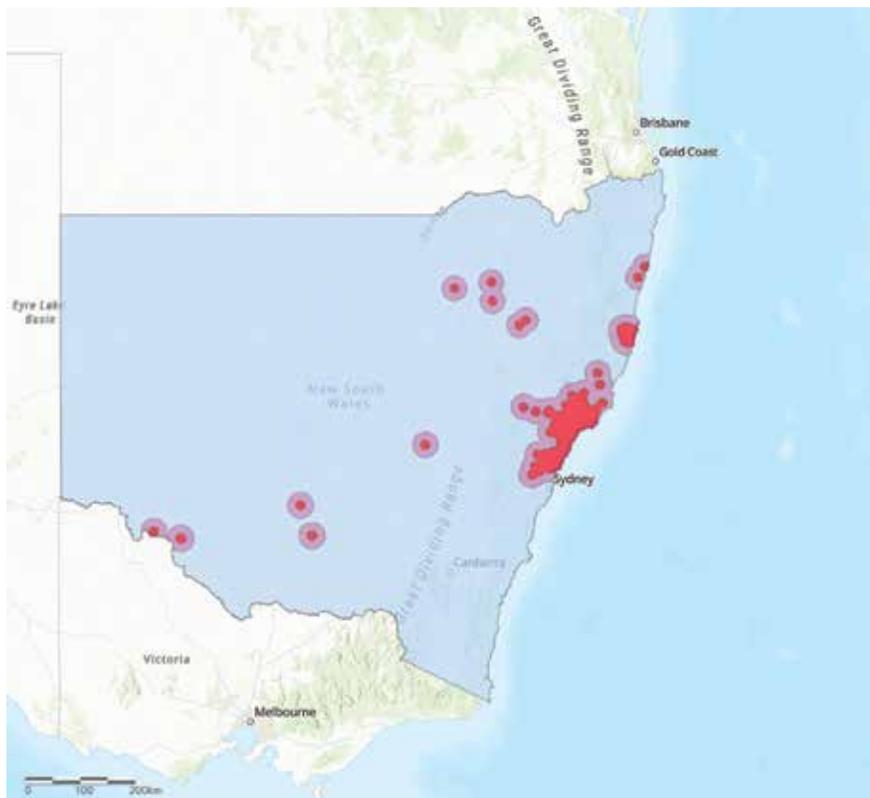


Fig. 1 Map of all confirmed varroa infestations in Australia as of September 12, 2023. Red-shaded areas represent the 10 km eradication zones where all honey bee hives were to be euthanized. Purple-shaded areas represent the 25 km surveillance zones, where officials are monitoring and inspecting managed and feral honey bees to limit the extent of the invasion. The blue-shaded area represents the general emergency zone, which thus far is limited to New South Wales. Map produced from <https://www.outbreak.gov.au/current-outbreaks/varroa-mite>.

ly to help scientists, beekeepers, farmers, and policymakers.

So, what do the authors think are the major opportunities for fundamental and applied research? Evolution, virology, and pollination ecology. We'll tackle evolution first. The use of chemical miticides is well known to expose varroa to a selective pressure that can cause the mites to evolve resistance. For example, in the USA there's widespread resistance to fluralinate (Apistan) and coumaphos (Checkmite), and growing resistance to amitraz (Apivar) in some locations.

Resistance evolution is shown in Figure 2a, where a miticide is applied but isn't lethal to 100% of the mite population. The mite population has a distribution of viability (blue), and the subsequent post-treatment mite population is formed from resistant individuals in the original population (yellow), which has *polygenic* resistance (i.e., multiple mite genes contributing to resistance). At higher levels of the miticide (dashed line), selection will effectively act on rare mutations at single genes and have a

major impact on survival, leading to *monogenic* resistance (green).

Why is it important to know the details of monogenic vs. polygenic resistance? Perhaps surprisingly, little is actually known about the mode of action of miticides on varroa. By understanding the genetic basis of resistance (and therefore its mode of action), this knowledge can be used to develop other chemistries that are potentially more effective against varroa.

A second opportunity for evolutionary study comes from observing coevolutionary dynamics between varroa and honey bees in real time. It's not just mites that will be evolving — bees will be evolving as well. As seen in the lower right side of Figure 2a, genetic adaptations can occur in mites, which in turn can facilitate adaptations to bees via natural selection or breeding. Understanding these changes is an opportunity to improve fundamental knowledge about host-parasite coevolution while also potentially informing breeding programs.

How about viruses? What do the authors think we can learn on that

topic? When varroa arrived in New Zealand, virus succession followed a pattern similar to what's shown in Figure 2b. Highly virulent viruses such as Israeli acute paralysis virus (IAPV) and sacbrood virus (SBV) rapidly increased in hives, followed by deformed wing virus (DWV) eventually becoming dominant.

Given what happened in New Zealand, a betting person might predict the same thing will happen in Australia. But there are also reasons to suspect something different will happen. Interestingly, there currently is no evidence from extensive testing that DWV is present in varroa-infested hives in Australia!

If DWV remains absent from Australia, it's unclear if varroa will have the same impact on honey bees here compared to its impact in other countries. It's widely assumed that the combination of varroa and DWV is what leads to a particularly lethal 1-2 punch for colonies. So, if DWV isn't present, varroa infestations may end up being more benign. Alternatively, perhaps a different virus will take the place of DWV and team up with varroa to devastate colonies. Only research and monitoring over time will tell.

Regardless of whether DWV is introduced or not, the virus landscape for bees is going to change in Australia. This will impact honey bee colonies and native wild bees. Spillover of viruses from honey bees to native wild bees is currently a conservation concern, but which viruses are most important, which native wild bees are impacted, and what apiary densities and varroa infestation levels are necessary for spillover to occur is still poorly known. Again, research and monitoring throughout varroa's establishment has great potential to shed new light on this topic.

How about pollination ecology? What do the authors think we can learn on that topic? If varroa's introduction causes a population decline of feral honey bee colonies, as occurred in other parts of the world, the removal of unmanaged honey bee colonies from native and commercial ecosystems could change the pollination landscape (see Figure 2c).

In natural systems, reductions in honey bees could alter plant-pollinator visitation networks, which could benefit or harm native plants via increased or decreased pollination. For example, in the April 2023 *Notes from the Lab* column [163(4):421-423], we saw that increased abundance of

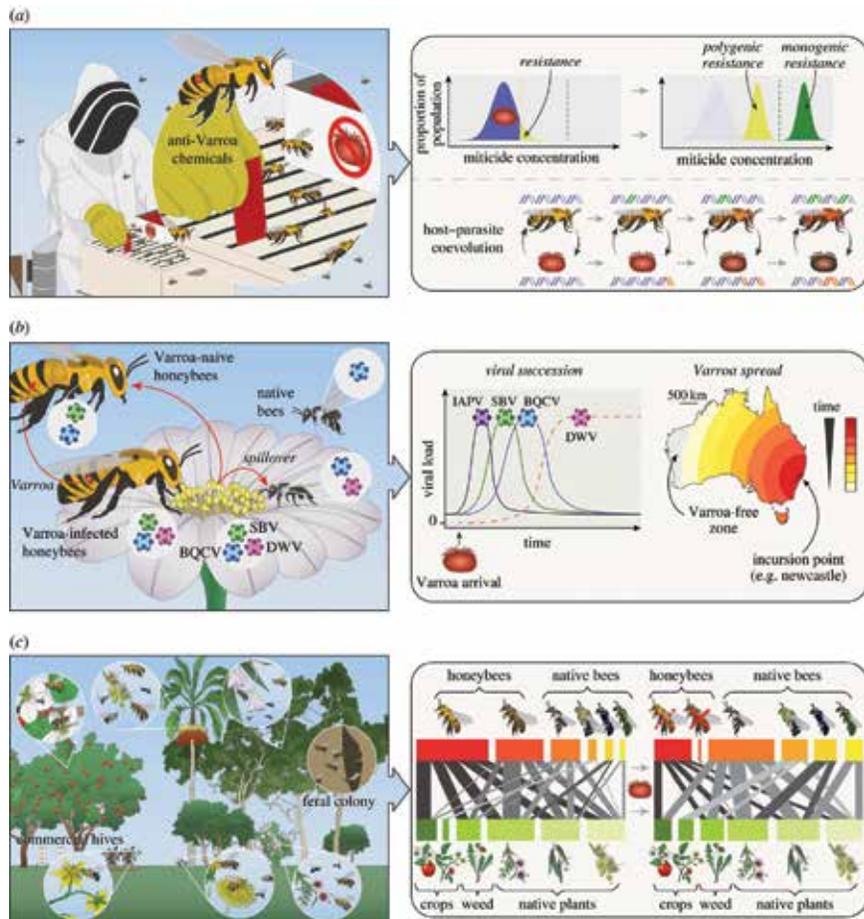


Fig. 2 The three major expected impacts of varroa on Australia's ecosystems. (a) Evolution, including miticide resistance and host-parasite (i.e., bee-varroa) coevolution. (b) Virology, including changes in prevalence of viruses in honey bees and spillover of viruses to native wild bees. (c) Ecology, including impacts on crop pollination and native plant-pollinator visitation networks.

honey bees decreased pollination of a native wildflower, *Camassia quamash*, because honey bees were poor pollinators of the plant compared to resident native wild bees. The opposite is also possible, where reductions in honey bees could compromise pollination of native wildflowers. As all ecologists know, nature is complicated and context-dependent, which means there's lots of opportunity for additional research on this topic.

In managed crop systems, reductions in feral honey bees and/or weakened managed colonies are likely to result in reduced crop pollination. This is because honey bees provide approximately 50% of crop pollination services worldwide, and while this percentage varies greatly according to the specific crop, pollination is already limited among many crops throughout the world. In other words, honey bees are extremely important pollinators for much of the food we eat, which means potential reductions of

honey bees in crop pollination settings must be monitored closely.

So, what's the take-home message? Should beekeepers and farmers in Australia give up and simply watch as scientists monitor the decline of beekeeping and crop production? Absolutely not. Varroa has established on every other inhabited continent and beekeepers are still beekeeping and farmers are still farming. The same will be true in Australia. And there are some reasons for hope! For example, if DWV doesn't establish, it's possible that varroa infestations won't cause the severe damage they cause in other countries.

But it's also an important time for Australia's beekeepers, farmers, researchers, and policymakers to be vigilant, take the threat seriously, and take advantage of the research and monitoring opportunities that are unfolding in real time. Varroa is a great teacher if you're willing to be a student. And we all learned in

grade school that the best students are the ones who are most likely to pass the test.

Until next time, bee well and do good work.

Scott McArt

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UPCOMING CONFERENCE



WELCOME TO

Turf Valley, Maryland

Think Like a Bee



Block out August 5 to 9, 2024 on your calendars, you are going to be busy!

This summer, the Maryland Beekeeping community welcomes our beekeeping colleagues from the Eastern US and Canada, and beyond, to Turf Valley Resort, Ellicott City, Maryland from August 5th to August 9th.

The EAS Conference and Short Course will be a full week for the exchange of bee knowledge, hands-on workshops, apiary experiences, speaker presentations, day trips, dinners, comradery, and opportunities to visit vendors. It is not to be missed!

An EAS conference and short course gels as a brilliant mix of what's fascinating and fun in the hosting state and EAS traditions. That means everything from early morning yoga or zumba (or both) to late-night marathon Yahtzee. With of course, plenty of practical beekeeping wisdom and leading-edge science in the short courses, conference sessions, and tours in between.

This summer's conference includes keynotes by Dr. Michelle Flenniken on virus impacts on honey bees, Dr. Jeff Pettis on Beekeeping in a Changing World, and Sam Droege on Honey Bees versus Native Bees and Macrophotography.

The Short Course will include beginner, intermediate, and advanced classes on topics including queen rearing, bee and hive biology, splits and increases, rendering and using wax, lighting a smoker and keeping it lit, varroa testing practicalities, swarms and what to do about them, how to taste and judge honey, hive pests, how to inspect, and lots more. There is something, or many things in that for you in your beekeeping practice.

You can move between these tracks during and over each day and customize your time for your particular needs.

Read on for much more about our host state and what's on for the 69th annual EAS Conference and Short Course.

WE ARE GOING TO HAVE A GOOD TIME... HOPE TO SEE YOU THERE!

STAY TUNED TO THE EAS WEB SITE AT
easternapiculture.org/conference/eas-2024

Maryland and EAS

Maryland has a long and storied beekeeping and bee research history. It is the home of the USDA Bee Research Lab and University of Maryland bee research. It is the founding place of the Bee Informed Partnership.

Maryland was the home of the legendary Master Beekeeper George Imrie (1933-2007), irascible author of the Pink Pages where he went deep on the practicalities of beekeeping. The Maryland beekeeping community continues in his innovative and practical spirit today. Some of you may use the Imrie shim without even knowing it was George to who invented it.

Maryland is also the home of the apiary inspection dogs Mac and Tukka whose noses can detect American Foulbrood better than any inspecting human beekeeper.

But we are not just about beekeeping. History buffs come to Maryland to see Civil War battlefields including Antietam and Monocacy. They climb up on the walls of Fort McHenry to imagine it's 1812 and they can see Old Glory still waving as Francis Scott Key did. They tour the B&O railroad museum and take their kids to the hands-on Maryland Science Center on Baltimore's Inner Harbor, where they can also tour the USS Constitution and a submarine, or study sea life in the National Aquarium. Bring your family, there is so much to see and do!

Turf Valley, located at the heart of the Baltimore - Washington, DC region is a beautiful resort for our conference and lodging, but there are plenty of lodging options nearby, including camping at the Patapsco State Park, and hotels through the area.

Extend your visit in any direction to take in things nearby such as:

- Gettysburg Battlefield and Hershey Park (Pennsylvania)
- The Delmarva shore beaches (Delaware and Maryland)
- Shenandoah National Park (Virginia)
- Washington DCs monuments and museums



Maryland Science Center, Baltimore



Ellicott City, Maryland



USDA Bee Lab

Conference Features



Beyond what's going on in the classroom and meeting rooms, we have a full menu of fun and learning!

An on-site apiary for hands-on demonstrations and learning, plus a bee Olympics – How fast can you assemble a frame? What other hidden superpowers do you have as a beekeeper? Find out!

Our Honey Show is for all ready competitors, with a honey competition, hive products, photography and crafts. Are you ready to compete? How great is your honey? How good are you at making hive products?

Among the tours planned are two sessions a morning and an afternoon option, to visit the USDA Bee Research Laboratory nearby in Beltsville, Maryland. We will provide bus transportation and USDA staff experts will show you where the research is done.

Kids love to learn about and see bees close up. EAS Maryland will have a Children's Program -- Our team is designing a half-day children's program for both the children of conference attendees and area children. It's part of our outreach to the wider community.

Other conference features will include:

- Silent and live auctions – painted hive boxes, beekeeping treasures, member state gift baskets, fun stuff.
- A Honey Swap – bring your honey to trade
- A top-notch vendor hall



Tukka inspecting hives for AFB

Conference Schedule

A team of Maryland Beekeepers – the EAS 2024 Maryland committee, is building a rich program of insights, tips, and expertise. What's coming together? Here are some examples.

- What could “Romancing the drones” be about?
- What all happens in a drone congregation area and how can you find one?
- What's the latest on honey bee behavior and biology?
- How are dogs a part of vigilance against honeybee diseases?
- What gadgets, new tech, and exotic bee equipment is worth considering?
- What's coming in our near future to challenge and delight us as beekeepers?
- How can you take really cool pictures of honey bees?
- Do our bees impact the native pollinators?
- What are the nuts and bolts of urban beekeeping?
- New pests (new mites, hornets, etc.) and what you should know about them
- The latest on treatments for varroa

Plus, you can join us and learn about things you've never heard of that might become part of your beekeeping.

Short Course Schedule

SUNDAY, AUGUST 4

Registration: 3:00 – 7:00 pm

Sign up for “Dinner Around Town” on Tuesday pm

Board of Directors Meeting: 5:00 – 7:00 p.m.

Reception in Terrace on the Green 7:00 - 9:00 p.m.

MONDAY, AUGUST 5

Queen rearing, pre-registration required.

Honey Tasting, pre-registration required.

MORNING

(Subject to Change)

	BEGINNER	INTERMEDIATE	ADVANCED	VALUING OUR BEES AND THEIR CONTRIBUTIONS	APIARY	QUEEN REARING	DEEP DIVE (Ampitheater)
		Increasing your Beeyard	Bees do What Bees do, Managing Bees				Half Day Classes need to attend both parts
7:00-8:00 a.m.	Zumba with Erin Evans						
7:00-8:30 a.m.	Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)						
8:30-9:25 a.m.	Honey Bee Biology <i>Dr. Deborah Delaney</i>	Making a new queen for \$20 <i>Russell Sprangel</i>	Protecting the beekeeper: Saving your back <i>Dr. Alan Sokoloff</i>	Rendering wax from comb to that pretty block <i>Virginia Webb</i>	Mark the drones in five hives, one color per hive 100 drones per hive		EAS Honey Show Judging (part 1)
9:25-9:35 a.m.	10 min transfer time						15 min. Break
9:35-10:30 a.m.	Biology of the Hive <i>Dr. Deborah Delaney</i>	The nucleus colony honey producer and resource hive <i>Steve Repasky</i>	Swarm before, during and after <i>Lisa Marie Ghezzi</i>	Candle making considerations <i>Virgina Webb</i>	How to light a smoker and KEEP It LIT <i>Jim Fraser</i>		EAS Honey Show Judging (part 2)
10:30-11:00 a.m.	Snacks in Vendor Area						
11:00 a.m. -12:00 p.m.	Why Beekeeping? What Do I Get from It?	The science of why making splits is important <i>Dr. Nathalie Steinhauer</i>		Lotions/potions Products of the hive <i>Valerie Wampler</i>	3 ways of varroa testing in real life sugar, alcohol and CO2		
12:00- 1:30 p.m.	Lunch						

MONDAY, AUGUST 5

AFTERNOON

(Subject to Change)

	BEGINNER	INTERMEDIATE	ADVANCED	VALUING OUR BEES AND THEIR CONTRIBUTIONS	APIARY	QUEEN REARING	DEEP DIVE (Amphitheater) Half Day Classes need to attend both parts	
1:30-2:25 p.m.	What's What? Beekeeping Equipment	Why did my hive die? <i>Dr. Barry Thompson</i>	New drone-Varroa research <i>Dr. Zachary Lamas</i>	Honey Tasting Experience <i>Suzy Spencer</i>	How to do an Inspection the Master Beekeeper Way <i>John Benham</i>		Honey Bee Biology (part 1)	
2:25-2:35 p.m.	10 min transfer time							15 min. Break
2:35-3:30 p.m.	What Honey Bees Eat. Why & How They Get It	AFB sniffing dogs Demo. Telling AFB from EFB <i>Cybil Preston</i>	Small Hive Beetles <i>Dr. Humberto Boncristiani</i>	Honey Tasting Experience (continued) <i>Suzy Spencer</i>	Inspecting a top bar hive frame correctly <i>Allen Storm</i>			Honey Bee Biology (part 2)
3:30-4:00 p.m.	Snacks in Vendor Area							
4:00-4:55 p.m.	Inspecting Colonies & Understanding What You See	Plan to succeed: making a personalized action plan <i>Kim Mehalick</i>	Wax moth life cycle, protecting your comb <i>Dr. Clyde Strang</i>	Infusing Flavors into your Honey <i>David Elkner</i>				
5:15-6:00 p.m.	Gentle Yoga with Bridgett Wilson							
	Dinner on your own							
6:00 p.m.	MBK Volunteer Dinner							

“Deep Dive” half day classes

(in a 75 seat amphitheater)

EAS HONEY SHOW JUDGING

This class will cover a brief introduction to the history of the EAS Honey Show, principles of judging, and tools needed in a judge's kit. It will also include an introduction to judging extracted honey and beeswax. It is an ideal introduction for everyone pursuing honey judging certification or those wanting to improve their honey show entries.

HONEY BEE BIOLOGY

This presentation dives deep into the biology of the honey bee and the colony as a whole – essential for successful beekeeping. Designed for beekeepers with at least 2-years experience.

Short Course Schedule

TUESDAY, AUGUST 6
MORNING

(Subject to Change)

	BEGINNER	INTERMEDIATE	ADVANCED		MASTER BEEKEEPER Written and Oral Examinations	APIARY	QUEEN REARING	DEEP DIVE (Amphitheater) Half Day Classes need to attend both parts
7:00-8:00 a.m.	Zumba with Erin Evans							
7:00-8:30 a.m.	Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)							
8:30-9:25 a.m.	Think Like a Beekeeper. Setting Goals, Making a Plan & Executing It	TBD	Setting up and maintaining observation hive <i>Frank Linton</i>	A Honey Bee Human: Physiology of a Superorganism <i>Dr. Crystal Liebmanking</i>	Written Exam 8:30 a.m. – 12:30 p.m. Room TBD Oral Exam 8:30 a.m. – 5:30 p.m. Willow Rooms			Making Splits & Nucs Bee Math, and Its Importance <i>Kim Mehalick</i> Science of splits <i>Dr. Steinhauer</i>
9:25-9:35 a.m.	10 min transfer time							Various Split Types (walkaway, planned- <i>Pam Hepp</i>
9:35-10:30 a.m.	Beating the Odds. Making it Through the Early Years	Native bees versus honey bees. Is it really a competition? <i>Tim McMann</i>	What I've learned from My observation hive <i>Phil Frank</i>	Understanding Bee Stings for beekeepers. <i>Dr. David Golden</i>	Written Exam 8:30 a.m. – 12:30 p.m. Room TBD Oral Exam 8:30 a.m. – 5:30 p.m. Willow Rooms			Using a Snelgrove Board for Swarm Prevention and Making Splits <i>Kim Mehalick</i> What Makes a Good Nuc <i>Eric Malcolm</i>
10:30-11:00 a.m.	Snacks in Vendor Area							Guidance Questions for Nuc Buyers
11:00 a.m. -11:55 p.m.	Recognizing Problems Early & Correcting Them	TBD	Remote Monitoring <i>William Meikle</i>	Responsible Treatment Free Management <i>Kevin Inglin</i>	Written Exam 8:30 a.m. – 12:30 p.m. Room TBD Oral Exam 8:30 a.m. – 5:30 p.m. Willow Rooms			
12:00- 1:30 p.m.	Lunch							

“Deep Dive” half day class

(in a 75 seat amphitheater)

MAKING SPLITS & NUCS

This class will cover basic bee math and it's importance, as well as the science of making splits. It will also teach about the various types of splits and explain what a quality nuc includes. This presentation will help beekeepers grow their apiary.

TUESDAY, AUGUST 6

AFTERNOON

(Subject to Change)

	BEGINNER	INTERMEDIATE	ADVANCED		MASTER BEEKEEPER Oral Examinations	APIARY	QUEEN REARING	DEEP DIVE (Amphitheater) Half Day Classes need to attend both parts
1:30-2:25 p.m.	Pests & Diseases (part 1) <i>Cybil Preston</i>	The Strength of Study Groups, and Evolution in Maryland <i>David Schultz</i>	Lessons Learned Going from 2-800 Hives (Don't learn it the hard way) <i>Jason Hough</i>	Getting Good Bee Pictures with your Cell Phone <i>Phil Frank</i>	Oral Exam 8:30 a.m. – 5:30 p.m. Willow Rooms			Varroa Biology & All Legal Mite Treatments (part 1) 15 min. Break Varroa Biology & All Legal Mite Treatments (part 2)
2:25-2:35 p.m.	10 min transfer time							
2:35-3:30 p.m.	Pests & Diseases (part 2) <i>Cybil Preston</i>	Encouraging New Beekeepers to Step Up. Keeping the Young Alive <i>MD MBK study group</i>	Setting up contracts: Considerations Equipment Standardization <i>Jim Fraser</i>	Single Deep Hive Body Management <i>Steve Repasky</i>	Oral Exam 8:30 a.m. – 5:30 p.m. Willow Rooms			
3:30-4:00 p.m.	Snacks in Vendor Area							
4:00-4:55 p.m.	Master Beekeeper Roundtable	Mentoring Programs that work setting up a Club Teaching Apiary <i>Maureen Jais Mick</i>	Finances for your Bee Farm <i>Erin Evans, CPA</i>	Honey Bee GPS Mobility Mechanisms <i>David Schultz</i>	Oral Exam 8:30 a.m. – 5:30 p.m. Willow Rooms			
5:15-6:00 p.m.	Gentle Yoga with Bridgett Wilson							
6:30 p.m.	Dine Around Town with EAS Hosts							

“Deep Dive” half day class

(in a 75 seat amphitheater)

VARROA MITE BIOLOGY & ALL LEGAL MITE TREATMENTS

This class covers Varroa Mite Biology and the description and use of all legal mite treatments and will be taught by a group of Maryland EAS Master Beekeepers. Knowing and understanding Varroa will help you better combat these mites and keep your colonies alive.

Conference Schedule

WEDNESDAY, AUGUST 7

MORNING

(Subject to Change)

7:00 -8:00 a.m.	Zumba – Erin Evans
7:00-8:30 a.m.	Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)
7:30 a.m.-4:00 p.m.	Registration and Honey Exchange Dropoff
8:30 a.m.-11:00 a.m.	Honey Show Entries Accepted
8:30 a.m.-12:30 p.m.	Master Beekeeper - Lab Exam
9:00 a.m.-4:30 p.m.	Master Beekeeper - Field Exam <i>Testing Apiary</i>
8:30-8:45 a.m.	Introductions and Welcome – <i>Eloise Naylor</i> , EAS Chair & <i>David Morris</i> , EAS President
8:45-9:00 a.m.	Welcome from the Maryland State Department of Agriculture Secretary, Kevin Atticks
9:00-9:30 a.m.	30 Minute Break – Snacks in Vendor Area
9:30 -10:30 a.m.	<i>Dr. Michelle Flenniken</i> , The Impact of Viruses on Honey Bee Health at the Colony, Individual Bee, and Cellular Levels
10:30 -11:30 a.m.	<i>Dr. Elizabeth A. Capaldi</i> , Bucknell University
11:30a.m.-1:00p.m.	Lunch and Visit Vendors

WEDNESDAY, AUGUST 7

AFTERNOON

(Subject to Change)

50-minute workshops	The Bees Knees	Romancing the Drones	Oh, What You'll See When You Think Like a Bee	Potpourri	Apitherapy	APIARY (Teaching Apiary)
1:00-1:50 p.m.	A Honey Bee Human: Physiology of a Superorganism <i>Dr. Crystal Lehman</i>	Flooding DCAs with Drones <i>Mark Gingrich</i>	Scent Detection Demo, Canines Tukka, Mack and their Handler <i>Cybil Preston</i>	Miticides <i>Dr. Steve Cook</i>	Propolis Debbie Klughers	Marking Drones
1:50-2:00 p.m.	10 min break/ transfer time					
2:00-2:50 p.m.	Honey bees and their Viruses <i>Dr. Michele Flenniken</i>	Wax On, Wax Off: Making Award Winning Candles <i>Virginia Webb</i>	State Apiary Inspectors Panel <i>Natasha Garica-Anderson, Lead</i>	<i>Perpetual Beekeeping</i> <i>Dorinda Priebe</i>	Unique Products of the Hive for Apitherapy Dr Petrusia Kotlar	Varroa Testing
2:50-3:20 p.m.	30 Minute Break – Snacks in Vendor Area					
3:20-4:10 p.m.	Almost Every Device Under the Beekeeping Sun <i>Russell Sprangel</i>	Game of Drones PART 1 Lecture <i>Julia Mahood</i>	Honey Bee Nutrition <i>Vince Aloyo</i>	Longtime Disease Trends from the USDA's Bee Disease Diagnostic Service <i>Sam Abban</i>	Topic: TBD	Accessible Apiary <i>Dr. Adam Ingrao</i>
4:10-4:20 p.m.	10 Minute Break / transfer time					
4:20-5:10 p.m.	Almost Every Device Under the Beekeeping Sun <i>Russell Sprangel</i>	Game of Drones PART 2 Flying a Drone-Outdoors <i>Julia Mahood</i>	ABF Vaccine <i>Nathen Reid (Dalan Co.)</i>	Spotted Lantern Fly Honey for Medicine <i>Dr. Petrusia Kotlar</i>	Topic: TBD	
5:15-6:00 p.m.	Gentle Yoga – Bridgett J. Wilson					
5:15-6:30 p.m.	Bee Olympics - Apiary					
6:00 p.m.	Happy Hour					
6:30-9:00 p.m.	BBQ Dinner					

Conference Schedule

THURSDAY, AUGUST 8

MORNING

(Subject to Change)

7:00-8:00 a.m.	Zumba – Erin Evans
7:00-8:30 a.m.	Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)
7:30 a.m.-4:00 p.m.	Registration and Honey Exchange Dropoff
8:00 a.m.-12:00 p.m.	USDA Bee Research Laboratory, Beltsville, MD– Tour 1 (pre-registration required)
10:30 a.m.-5:00 p.m.	Honey Show Open for Viewing
8:30-8:45 a.m.	Conference Updates – Eloise Naylor, EAS Chair & David Morris, EAS President
8:45-9:35 a.m.	Presentation by the 2024 Hambleton Award Winner – <i>Who will be selected in early 2024</i>
9:35-10:05 a.m.	30 Minute Break – Snacks in Vendor Area
10:05- -11:05 a.m.	Sam Droege: How Bees Native and Non, Split Up the Plant World for Foraging
11:05 a.m.-12:05 p.m.	Presenter and Topic TBD
12:05 -1:00 p.m.	Life Member Luncheon (open to Life Members who have pre-registered and paid in advance)
12:05 -1:00 p.m.	Lunch and Visit Vendors

THURSDAY, AUGUST 8

AFTERNOON

(Subject to Change)

50-minute workshops	Bee Stuff	Photography	Accessible Beekeeping	Out of Africa	Urban Beekeeping	Think Like a Bee: Outside The Box	APIARY
1:00-5:00 p.m.	USDA Bee Research Laboratory, Beltsville, MD– Tour 2 (pre-registration required)						
1:00-1:50 p.m.	The Unappreciated Drones (and why you should care about them) <i>Dr. Jon Zawislak</i>	Taking High Resolution Stacked Photos of Bees Using Common SLR Equipment <i>Sam Droege</i>	Accessibility in the Bee Yard <i>Dr. Adam Ingraio</i>	Africanized Honey Bee Update <i>Dr. Dewey Caron</i>	Beekeeping in, of, or for the City <i>Dr. Eve Bratman</i>	Insect Societies from Kings & Queens to Just Plain Wasps <i>Dr. James Wilson</i>	Hives Langstroth Did Not Invent <i>Allan Storm</i>
1:50-2:00 p.m.	10 min break/ transfer time						
2:00-2:50 p.m.	Topic: TBD <i>2024 Hambleton Award Winner</i>	How to Take Bee Pictures with Your Phone" <i>Phil Frank</i>	Assistive Technology for Accessible Beekeeping <i>Representative from AgrAbility</i>	Topic: TBD	Model Urban Beekeeping Projects and Practices from a Crowded City <i>Mark Patterson</i>	Topic: TBD	Evaluating a Good Colony Versus a Bad One <i>Dr. Jeff Pettis</i>
2:50-3:20 p.m.	30 Minute Break – Snacks in Vendor Area						
3:20-4:10 p.m.	Nectar Producing Plants for Honey Bees <i>Presenter TBD</i>	Thermoregulation and Ventilation <i>Bill Hesbach</i>	AZ' Hive Discussion <i>Jonna Sanders</i>	Veterinary Feed Directive <i>Dr. Rebecca A. Krimins</i>	Critical Assets Every Urban Beekeeper Needs <i>Charles DeBarber</i>	Anticipatory Beekeeping <i>Dr. Dewey Caron</i>	Examining Sterilized AFB Comb <i>Don Hopkins</i>
4:10-4:20 p.m.	10 Minute Break / transfer time						
4:20-5:10 p.m.	Topic: TBD <i>2024 Hambleton Award Winner</i>	What New Pests May Be Coming: Hornets, etc. <i>Dr. Jeff Pettis</i>	Therapeutic Values of Keeping Bees <i>Monica Schmidt</i>	Bees Don't Bite: Facts about Bee Stings that every beekeeper should know <i>Dr. Barry Thompson MD</i>	Nuts and Bolts of Urban Beekeeping <i>Toni Burnham</i>	Attracting Bees to Your Garden & Bee Nesting Boxes <i>Mark Patterson</i>	
5:15-6:00 p.m.	Gentle Yoga – Bridgett J. Wilson						
6:00 p.m.	Happy Hour						
6:30 p.m.	Dinner, Live Auction and Honey Show Silver Awards						

Conference Schedule

FRIDAY, AUGUST 9

MORNING

(Subject to Change)

7:00-8:00 a.m.	Zumba – Erin Evans
7:00-8:30 a.m.	Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)
7:30-8:30 a.m.	Master Beekeeper Annual Meeting
7:30 a.m.-noon	Registration
8:30-8:45 a.m.	Conference Updates – <i>Eloise Naylor</i> , EAS Chair & David Morris, EAS President
8:45-9:35 a.m.	Presentation by the 2024 Morse Award Winner – <i>Who will be selected in early 2024</i>
9:35-10:05 a.m.	30 Minute Break – Snacks in Vendor Area
10:05-11:05 a.m.	Dr. Jeff Pettis, Beekeeping in a Changing World
11:05-11:20 a.m.	Michigan EAS 2025 Conference Introduction
11:20 a.m.-12:15 p.m.	EAS Annual Business Meeting
12:15-1:00 p.m.	Lunch

FRIDAY, AUGUST 9

AFTERNOON

(Subject to Change)

50-minute workshops	Are you Smarter Than a Fifth Instar Larva?	Research, etc.	Regional Beekeeping	Bee Skills	Reaching Out	Communication and Bee Health	Apiary
1:00-1:50 p.m.	Topic: TBD <i>2024 Morse Award Winner</i>	Research Project <i>Burton Beasley</i>	Regional Beekeeping: North, Mid Atlantic, South Part 1	Difference Between Native Bees and Honey Bees <i>Tim McMahon</i>	Youth Programs <i>Cathy Misko</i>	Good & Bad Microbes in Bee Colonies <i>Dr. Jay Evans</i>	Pulling Queen Cells <i>Jen Keller</i>
1:50-2:00 p.m.	10 min break/ transfer time						
2:00-2:50 p.m.	Tools & Tips <i>Debbie Klughers</i>	Setting Up a Self-Service Store to Sell Honey <i>Landi Simone</i>	Regional Beekeeping: North, Mid Atlantic, South Part 2	EAS Master Beekeeper Program: History, Why & How <i>Erin Evans</i>	Bee Zoning Laws <i>David Frank</i>	Pheromones: Chemical Communication in the Hive <i>Dr. James Wilson</i>	
2:50-3:20 p.m.	30 Minute Break – Snacks in Vendor Area						
3:20-4:10 p.m.	Topic: TBD <i>2024 Morse Award Winner</i>	We're Caught in a Trap: Small Hive Beetles <i>Dr. Humberto Boncristiani</i>	Pollen <i>Bill Hesbach</i>	Setting up a Home Microscopy Workshop <i>Eric Smith</i>	Pysanki-making Workshop <i>Evelyn Hogg</i>	Novel Disease Treatments <i>Dr. Jay Evans</i>	
4:10-4:20 p.m.	10 Minute Break / transfer time						
4:20-5:10 p.m.	Speaker Panel with Keynotes and Award Winners						
6:00-6:30 p.m.	Happy Hour						
6:30 - 9:00 p.m.	Awards Banquet and Dinner						

SATURDAY, AUGUST 10

7:00 - 8:30 a.m. - Breakfast Buffet in Grand Ballroom (those registered at Turf Valley Resort)



Vendors

The EAS conference would not be possible without the support of our vendors.

Our vendors will have a large space located right in the Turf Valley Conference Center – the same building as the short courses and main conference. This is a great opportunity to see and meet with representatives offering their latest equipment and products, and purchase products for the harvest season and winter preparation. In the vendor hall you will also find an area for authors to sign their books, and a location for the exchange of honey by our members who attend the conference. This year there will be “pop-up” daily vendors, so visit often and show your support for the companies that support EAS.

Each year, beekeeping vendors bring their latest wares, often with a show discount for sales and preorders. You can stock up or touch and see and ask about the latest products. We are recruiting new vendors to the show as well, with local products of the hive makers.



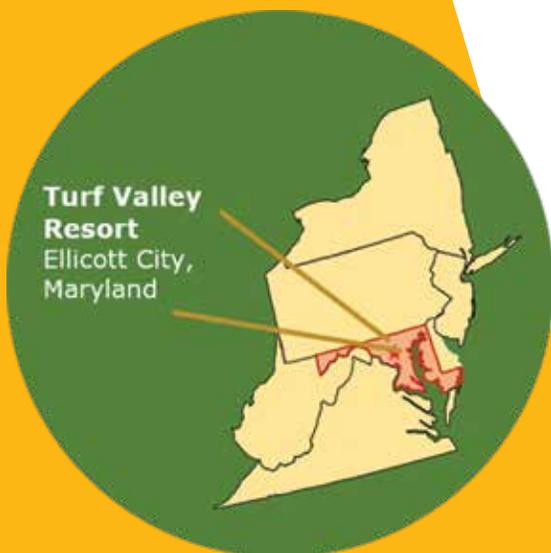
Accommodations

Our conference venue, Turf Valley Resort, is the ideal place to stay. You'll just walk downstairs to the conference and social activities, and there's plenty of parking on the grounds. The resort has indoor and outdoor pools, two golf courses, gourmet on-site dining, and a full resort spa. Turf Valley is also dog-friendly and family-friendly.

You can reserve your room now at easternapiculture.org/conference/eas-2024.

Our friendly resort is just 20 miles from Baltimore's Inner Harbor and Baltimore-Washington International Airport. We are less than an hour away from the historic monuments and landmarks of Washington, DC, including the White House, National Zoo, and Smithsonian Museums. Surrounded by the beautiful landscapes of Central Maryland.

Other lodging options are nearby, and we will share more tips and links soon.



Getting here

Turf Valley is served by nearby airports (BWI, DCA, and IAD) and Amtrak's service to Baltimore, plus easy reach via I-70 and I-95.

COMMUNITY BUZZ



Pollen Identification

by Linda A. Mizer

As winter settles in to the EAS region, our temperatures have a wide range on a daily, weekly and monthly basis. Some of us are already under a skiff (or more) of snow and others are still green with blooms aplenty. Hopefully your colonies are tucked up for the changing weather but able to take advantage of those “odd” days, where the temperature ranges over 40°F, to go out on cleansing flights and perhaps even forage. I hope you are all able to carve out some time to contemplate your bee plans for the coming year, check equipment, re-organize all those hastily stored boxes and frames and think fond thoughts of your bees nestled in their hives. By the time you read this, the

winter equinox will have come and gone (December 21st) and the days will have started to lengthen - Spring will be here before we know it!

DO YOU HAVE A POLLEN PICTURE?

Many thanks to all who have forwarded photographs of pollen-laden honeybees on forage. The response to my request was wonderful! Please continue to send images to lam6@cornell.edu. Remember to include the plant's common and scientific name, name of the photographer and season the forage was being visited. Images of fall and winter foraging are greatly appreciated.



POLLEN CREDIT: *Calluna vulgaris* image courtesy of Dr. Donald Coats

CAN YOU IDENTIFY THIS POLLEN?

- 1. Heather, *Calluna vulgaris*
- 2. Japanese Flowering Apricot, *Prunus mume*
- 3. Silverberry, *Elaeagnus spp.*
- 4. Purple Dead-nettle, *Lamium purpureum*
- 5. Rosemary, *Salvia rosmarinus*
- 6. Winter Jasmine, *Jasminum nudiflorum*

ANSWER: #4, Purple or Red Dead-nettle. Features alien, crowded, heart-shaped leaves. Often found roadside and in waste places. Pollen is widespread April-October.

Left: Unstained, uncleared pollen shows hints of the purple color under 1000x magnification.

PHOTO CREDITS: 1) Loakeim Zoumpandopoulos, Suffolk County, NY 2) © Greg Peterson via Wikipedia 3) Steven Page, GA 4) Mike Powell, "My journal through photography" blog 5) © Mario Modesto via Wikipedia 6) Kathy Neatly Garvey, UC Davis Department of Entomology and Nematology

Go Tell the Bees. The passing of Kim Flottum.

Written by Karla Eisen

I am humbled to have the honor of writing a few words about one of the great ones. I met Kim Flottum at my first EAS and wondered who was this guy? He seemed to be everywhere doing everything, always engaged, busy, helping someone, introducing the next speaker, or even taking your ticket in the breakfast line. Kim gave and gave and gave to beekeepers and his service to EAS was no exception. Kim served as the EAS Chairman from 1999-2007. Even after his service as Chairman, he was gracious in sharing his knowledge with all and the Virginia EAS 2018 planning team was no exception. That year he arrived in Hampton, VA and promptly was asked to fill in and run twice as many sessions as he had agreed to. He was a star in the Bees as Business track. The Kim I knew was always willing to lend a hand, share his thoughts and encourage you. I was fortunate to share a few special moments with Kim, and some of the most memorable were working the bee booth at the White House Easter Egg Roll and a few special meals. These included one with a large group at a fancy hotel in Washington, DC after a Maryland State Beekeepers Meeting; another when we hosted him in Virginia and stumbled upon one of the finest Italian restaurants any of us had ever experienced; and lastly one of my fondest memories is dining with Kim and a few good beekeeping friends on the banks of the James River during the short course at EAS VA 2018.

My husband and I were lucky enough to travel twice to events in Medina, Ohio which Kim ran like a big family reunion and included a personal tour of the Root candle operation. At the last event Kim produced, held in the Fall of 2019 before the world temporarily shut down, the focus was on the History of Beekeeping. I remarked on how special this actual point of time was- a historical event was unfolding before our eyes with some of the giants of beekeeping, and Ohio beekeeping in particular, together in one room. I am fortunate I got to bear witness to that event, and it was the last time I saw him. Kim- EAS thanks you for your dedication and service and is better because of you.



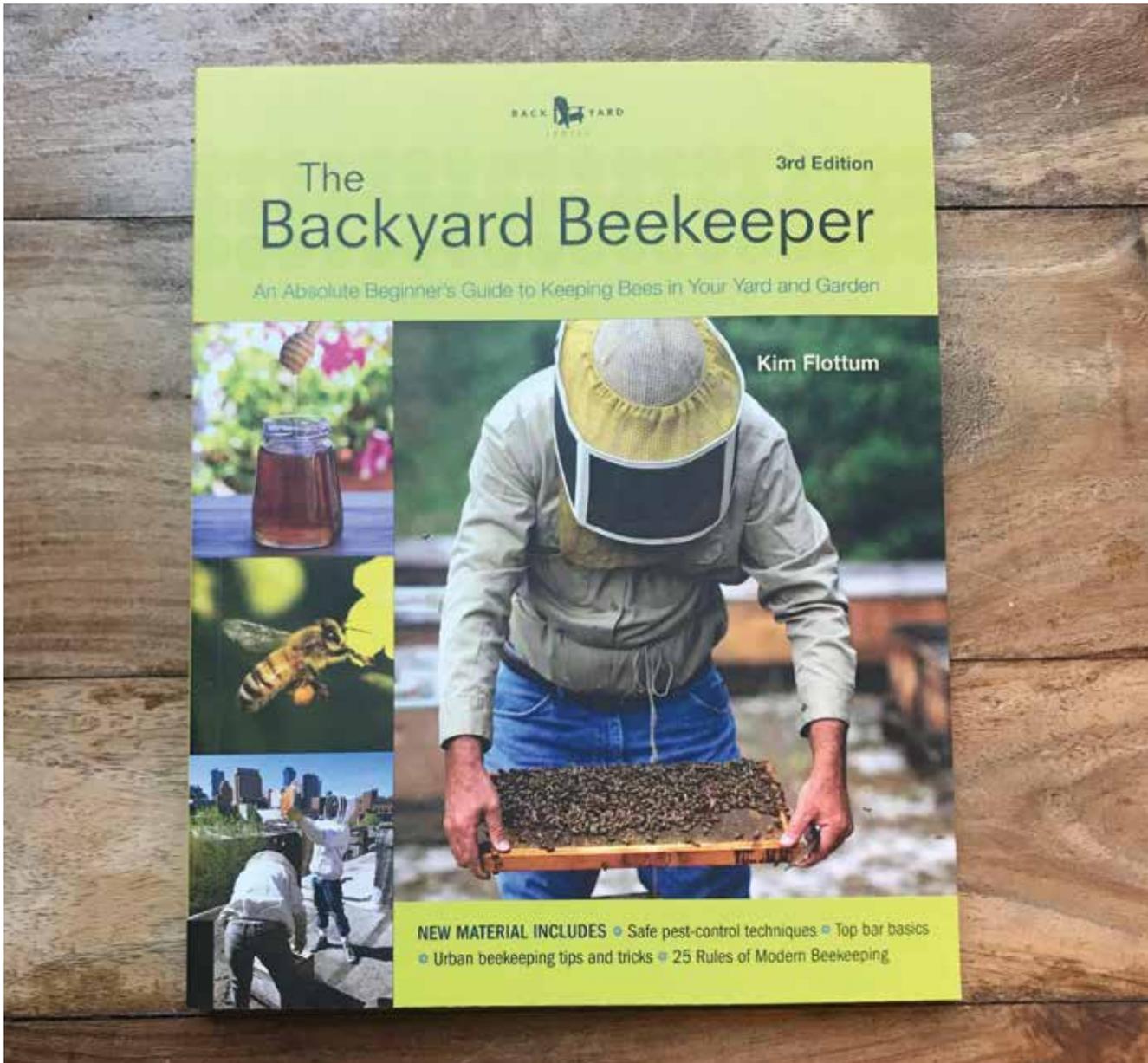
The following was graciously shared by Bee Culture. We thank Bee Culture for allowing EAS to republish their tribute to Kim Flottum published December 19, 2023.

Peter 'Kim' Flottum, 76, passed away Sunday December 10, 2023, at home in Medina, Ohio after a short battle with cancer. He was the son of the late Arnold and Edna Flottum of Turtle Lake, Wisconsin.

He served as editor of *Bee Culture* magazine for 33 years, retiring in 2019. His wife, Kathy worked alongside him for the majority of those years at *Bee Culture*. He authored numerous beekeeping books and hosted podcasts, with Jim Tew and Jeff Ott. Kim visited and gave bee talks in all of the 48 contiguous states. He spent almost half of his life teaching and loving beekeepers and beekeeping.

Kim received his bachelor's degree in horticulture from the University of Wisconsin and then worked as a researcher at the USDA Honey Bee Research Lab in Madison, where he specialized in crop pollination, pesticide problems with honey bees, and "honey plants" for the home landscape.

His career took him to Connecticut. He was elected president of Connecticut Beekeepers' Association.



While service as publications manager and editor of *Bee Culture*, he created a new magazine, *BEEKeeping, Your First Three Years*. Kim was the Chairman of the Eastern Apicultural Society, president of the Ohio State Beekeepers' Association and president of the Medina County Beekeepers Association. He continued to keep bees in his backyard in Medina up until his death.

His passion for bees, his wisdom about all things bees, his generosity, and his kindness, will never be forgotten. We are fortunate that we can still hear his voice and see his talks thanks to the technology that we have today. He's out there everywhere.

Kim is survived by his wife and partner in every respect, Kathy Summers of Medina; daughter Jessica Flottum

(Matt Barcus) of Akron, OH; stepsons Grant Summers, Medina and Matt (Christina) Summers, Medina; siblings Julie Hugg, Ashland, WI; Bob Flottum (Carrie), Chippewa Falls, WI; Sue Flottum-Zurcher (Dave), Wales, WI and Tom Flottum (Linda) of Turtle Lake, WI.

A celebration to honor Kim's life will be held in the Spring in Medina. Please watch the *Bee Culture* page listed below for the date. We want to honor him for the special guy that he was and is. We hope many of you can be here for the celebration.

You can view this tribute online at www.beeculture.com/remembering-kim-flottum.

Bees and Goldenrod

This is a celebratory bee poem submitted by Dennis Camire and accepted for publication with the British Journal, The Amethyst Review.

I know I'm not supposed to believe
That the bees bee-lieve in some God
and a heavenly hierarchy of hives

but, this morning, so many sister bees
were piously harvesting each bloom's
vaulted altar of nectar and pollen

that their work seemed like worship;
and I dreamed of a rosary bead of bees
to keep me alert to this single-mindedness

on sweetness, light, and the source, maybe,
of all being where a Hildegard Von Bingen
of queen orchestrates this holy order

of receiver bees (can you believe) ingesting
arriving nectar then transferring it—mouth to mouth—
to the interior hive while others, unseen,

all day, flap wings inside dark chambers to keep
the hive between eighty-five and ninety degrees.
Oh, by noon, I swooned over this last supper

of summer as I witnessed some arriving
with half their weight in pollen and willing,
one book says, to die in flight for the sake

of the hive. Now, it was all too much
not to kneel over the gravel's pew of duff
and lift a chalice of nectar-filled blossom up

to get a God's eye view of sister bees'
transubstantiating nectar into honey
that heals the human body. Forgive, then,

my seduction by these sweet, Carmelite nuns
plunging me beneath the pool of buds
before rising to be born again into the

First Universalist Church of all things bloom.
And forgive these ceaseless sermons on
these blessed bees almost walking on water

as hovering over flowers, they taste buds
with their feet to see if it's worth burning
calories to land then launch. And, yes, musing
on earth's own looming colony collapse,

I bought the hive, don the suit, and feel
my own being communing with some sacred body
each time I raise the host of honeycomb

and proclaim "Amen" to the priestess bees
giving their lives, so joyfully, to tend
one of God's rods of fall goldenrod.



EAS BUSINESS

EAS Board of Directors Minutes

SUNDAY, OCTOBER 15, 2023 AT 7:07PM

ROLL CALL OF OFFICERS AND DIRECTORS

Lou Naylor, Chairman; David Morris, President; Rich Dimanin for Rich Wieske, Vice President; Doris Morgan, Secretary; Fred Smith/Jacky Hildreth, Treasurer; Mary Duane, President Emeritus; Adam Hickman, Alabama, Bill Hesbach, Connecticut; Brutz English, Georgia; David Hocutt, Indiana; Leonard Davis, Kentucky; Clyde Strang, Maryland; Carin Zinter, Massachusetts; Dorinda Priebe, New Hampshire; John Gaut, New Jersey; Mark Fiegl, New York, Mark Gingrich, Pennsylvania; Nancy Simpson, South Carolina; Anne Fraser, Virginia; Greg Gentry, Membership; Jim Gross, Life Membership; Karla Eisen, Honey Show Committee; David Priebe, Master Beekeepers; Ernesto Rodriguez, guest

Absent:

Linda Mizer, Vice Chairman/EAS Journal; Erin Evans, Chairman Emeritus; Pam Hepp, Delaware; Janet Anker, Maine; Michael Sautter, Michigan; Burton Beasley, North Carolina; Jeannie Saum, Ohio; Sam Golston, West Virginia; Thomas Nolan, Ontario; Erik Brown, Tech Team Leader/Wild Apricot Lead; Debbie Delaney, Master Beekeeper Advisor; Doug Galloway, Historian; Tammy Horn Potter, HBH Coalition;

STATES/PROVINCES IN GOOD STANDING:

Alabama, Delaware, District of Columbia (vacant), Indiana, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ontario, Pennsylvania, Rhode Island (vacant), South Carolina, Tennessee (vacant), Vermont (vacant), West Virginia

STATES/PROVINCES WITH EXPIRED DUES:

Connecticut, Florida (vacant), Georgia, Illinois (vacant), Kentucky, Louisiana (vacant), Michigan, Mississippi (vacant), Ohio, Quebec (vacant), Virginia, Wisconsin (vacant)

Election of new Director:

David Morris made a motion to accept Ernesto Rodriguez as Director of the District of Columbia with Mary Duane seconding the motion. All were in favor of the motion.

SECRETARY'S REPORT: Doris Morgan

Published in the 2023 Fall Journal and emailed to all Director's prior to the meeting. Nancy Simpson made a motion to accept the minutes with Clyde Strang seconding the motion. All were in favor of the motion.

TREASURER'S REPORT: Jacky Hildreth/Fred Smith

There were no questions on the treasurer's report. Nancy Simpson said that both Jacky and Fred are doing a great job during the transition and thank you. Jacky stated that they have not entered the final numbers for the conference in Massachusetts as they just received the bill this weekend.

CHAIRMAN'S REPORT: Lou Naylor

Lou said thank you to everyone that made this conference a great success and for all their volunteer hours that they put in. Mary, thank you.

We have filled some Committee chairs:

Greg Gentry for Membership, he is also helping the Registrar

Meghan McConnell for Auction Committee Chair

Tom Graney for Vendor Chair

Jon Zawislak for MB Certification Chair

PRESIDENT'S REPORT: David Morris

Allen Hayes is in charge of the Conference Program, he has invited 3 keynote speakers. So far, he has gotten one acceptance, Jeff Pettis. The other two they are still waiting for a response. They are in the process of looking for restaurants for the Monday and Tuesday nights "Dine Around Towns". The short course is still in progress. They are looking to put up updates every month or two on the website and by email on things like speakers, planning, etc. to keep people interested in the upcoming Conference. David is working on a power point presentation to be distributed to all the Directors, this will also be on the web page for everyone to share at their state and local meetings. Local Maryland vendors are being looked at to include in the Conference for the week or as a popup vendor. Nancy Simpson asked if they are still looking for speakers as she has some suggestions. David said to send them to him and he will make sure that Allen gets them.

SITE INSPECTION COMMITTEE: Lou Naylor

Lou and Linda recently did another inspection. Since the last time they were there, some changes were made with where things would be, a spot for the Honey show was picked and it's looking good. Lou encouraged everyone to register early and get their meals in as the Resort will not be making a lot of extra meals. Lou said that another hotel there has offered to make 55 rooms available and they are working to get a signed contract with them. There are several people from the Maryland group looking for an Economy hotel for the Conference. Everything at the Conference site is easy to get to with lots of free parking.

FUTURE SITES:

2025 Michigan, Rich Dimanin for Rich Wieske

The University of Michigan, Deerborn is going to be very accommodating. We are going to be using the ice hockey area. There is a lot of excitement with the Michigan Beekeeping Associations about the Conference. There are some good side trips being planned and they have found a good location to put the bees.

COMMITTEE AND OTHER REPORTS:

WEBSITE – Erik Brown

No report

WILD APRICOT – Erik Brown

No report

MEMBERSHIP COMMITTEE – Greg Gentry

There are 2078 active memberships, 891 overdue and 826 lapsed memberships. Greg is working with Erik to be able to pull out more information.

AWARDS:

Hambleton Award – Award solicitation letters to go out in November.

Roger A. Morse Award – Award solicitation letters to go out in November

Student Award – Award solicitation letters to go out in November

Honey Bee Research Award – Grant solicitation letters to go out in November

Divelbiss – Award solicitation letters to go out in January

FINANCE – Jacky Hildreth/Fred Smith

Jacky was able to get ahold of someone to do a review of the previous year's and this year's books to give a synopsis for the next Bod meeting.

HISTORICAL COMMITTEE – Doug Galloway

In addition to the regular accumulation of EAS records, some additional projects are in progress.

1. Dr. Dewey Caron has agreed to an audio interview addressing his 57 plus years as an EAS member, officer, advisor, and contributor. Please consider sharing any questions with the historian that could be incorporated into that interview.
2. EAS Past Treasurer Jackie Hildreth shared five boxes of records he accumulated during his terms in office. Those documents will be sorted, evaluated, and preserved as appropriate over the next few months.
3. Erik Brown suggested that the list of EAS conferences created for EAS Amherst find a place on the website. Anna Gallo is working on creating such a place. There are other lists of pertinent historical facts that might be considered as appropriate if the tec committee believes that it would be beneficial and plausible to include them.

Lastly, David Morris donated to the EAS Historical records an original Master Beekeeper, Cooperative Extension, New York State guide. This comprehensive guide was written and compiled by Dr Roger Morse starting in 1976, completed and dated 1/8/78, and used during the first New York Master Beekeeper program. This guide will be digitized and included in the EAS Historical Archives. David Morris stated that it was a big book.

HONEY SHOW ADVISORY COMMITTEE – Karla Eisen

The Honey Show Advisory Committee will be meeting this week. The Honey Show last year went well, the Committee continues to tweak the rules. Jim Fraser will be the lead this year in Maryland and they welcome Chris from Michigan to the Committee. Karla is working with Linda and the Tech Team to get the Honey Show results from this year put into the EAS Journal and also put up on the website. Karla stated that we are still missing the first EAS Journal so if anyone has it, they would like it to preserve with the records. Karla will look for the year of the first EAS Journal.

JOURNAL – Linda Mizer

The Fall EAS Journal was put on the Website, printed and sent out in early October. One hundred copies were printed at a cost of \$11.96 each, mailing was \$142.00 and \$207.00 for shipping to 9 locations. Printed copies of the EAS Journal are sent to those people who pay an extra fee, members of the Executive Board and Directors. We may want to restrict mailing to the Continental United States or have an extra fee for out of Country mailings. The deadline for the Winter EAS Journal is December 1st.

LIFE MEMBERSHIP – Jim Gross

At the time of the Conference there were 740 Life Members. It is unknown how many more there are since then. Jim asked if there would be some sort of remembrance for Jim Bobb as he was head of Life

Membership for many years. Lou stated they would think about doing something at the upcoming Conference.

MANN LAKE EAS SCHOLARSHIP – Master Beekeepers

No report

MASTER BEEKEEPERS – Dave Priebe

Dave thanked Jon Zawislak for accepting the MB Exam Certification Chair. He is grateful for all the years of service that Landi Simone has done. The next major event that will happen is to find a new MB Academic Advisor. They are looking at the Policies and Procedures to do that properly. Doctor Delaney's term concludes at the Conference in 2024. He would like to have the new advisor named before the Conference so that person would have time to work with Dr. Delaney before she moves on.

NEW BUSINESS:

John Gaut- there are no discrepancies to discuss. Jon's Zawislak's next step is to work with Lou to set up a MB Certification Committee. The Advisor and the Director are part of that committee. The committee may change a little as there is a requirement for two non-MBs and two MB's with alternating 4 year terms to be on the committee. Dave Priebe will be seeing Jon Zawislak this Friday so they will have a chance to discuss what their next steps are.

Mary Duane stated that Bee Culture has a very nice article in this months' issue about EAS. Dave Burns wrote the article.

Dorinda stated that this EAS Journal was beautifully done and she did receive her copy this time. Dave Priebe stated that Master Beekeepers submit articles to be published in the Journals. Lisa Marie Ghezzi will be doing a write up next. Karla stated that she is a Master Beekeepers too and she provides articles to the Journal also.

ADJOURNMENT

David Morris made a motion to adjourn the meeting with Nancy Simpson seconding the motion.

Minutes respectfully submitted by Doris Morgan, EAS Secretary

**NOD proudly supports
EAS in their efforts to
educate and further the
beekeeping community.**

Healthy Bees. Healthy Planet.

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EAS Executive Committee, Directors, and Contacts

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Membership Chair

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

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