



# The Missouri State Beekeepers Association Brood

## A Successful Fall Conference

As I write this review the 2019 Fall Conference in Moberly commenced about one month ago. I want to give a big shout-out to all the great volunteers who helped make this conference successful. Many conference attendees maybe do not realize the multiple hours by many folks over several months to put a conference together. Thank you to those who did! Our exit survey revealed high marks for the speakers and their presentations. Yes, there are things to improve on; there always are. One frustration was the mechanical failure of the main elevator on the day vendors arrived to set up their booths. There were also beneficial comments, which we welcome because we strive to make every conference better than those that preceded. If you filled out an exit survey – thank you as well! You can still submit helpful conference suggestions to [brucesnavely@hotmail.com](mailto:brucesnavely@hotmail.com)

I loved hearing the practical beekeeping suggestions and honey bee behavior insights from Krispn Given, Peter Borst, and Steve Moeller. From listening to various Missouri beekeepers over the past few years you have expressed a desire to hear about the how-to of beekeeping as well as the latest research coming from our nation's top honey bee research universities and laboratories. There were also excellent break-out room presentations by Charlotte Wiggins and Cathy Misko. Thank you ladies!

This past Fall Conference we also added additional opportunities for more interaction with each other. You can learn a lot sitting around a table and talking to other beekeepers or perusing the Vendor booths and talking to great vendors. A conference should allow these opportunities. The pre-evening meal time with appetizers gave this chance as well as the bowling night after the Friday evening meal. I've talked to Kyle Day and we're planning another fun time at our Spring Conference. It may not be bowling, but I guarantee it will be something fun in Kansas City!

Last of all, the Moberly Conference was an historical milestone for MSBA by officially introducing the Great Plains Master Beekeeping Program from the University of Nebraska-Lincoln. We are very grateful to Dr Judy Wu-smart and Sheldon Brummel for their inclusion of Missouri in this multi-state program. I hope many beekeepers across Missouri join GPMP (it's free to join) and continue to learn, mentor, and teach with fellow beekeepers.



I hope to see you all in March!

Bruce Snavely, MSBA  
Program Chair



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# From the President

## Cory Stevens

We just wrapped up a great fall conference in Moberly, MO. Peter Borst, retired Cornell University researcher, really cracked me up with his practical views and his humor. His presentations were informative, and took very interesting turns. He also conducted a hands on colony inspection and had quite a crowd around him smiling.

We also got insight into breeding and selecting for mite resistant traits, from Krispn Given who runs the Purdue University breeding program. This topic is a personal favorite of mine, as I feel it will help us address one of the major problems we all share as beekeepers. He showed slides of mites that had been mauled and had legs bitten off from the mites' jaws, which made me happy. This grooming trait allows bees to physically remove the mites from themselves or their nest mates. I'm sure it will be heard about a lot more going forward.

Another high point that could directly address beekeepers' woes was Casey Bergthold from Pheasant Forever, talking about habitat restoration. This is also a topic I am passionate about. As we extend our land use for agriculture to feed everyone, we infringe on natural areas that provide forage and shelter for wildlife and pollinators. It will be very important going forward to convert portions of the land to high diversity pollinator forage areas. This will ensure they are well fed and pollinating the crops we all enjoy.

We also had Sheldon Brummel, project coordinator for the new Great Plains Master Beekeeping program, outlining it for us and answering questions. Whether you are interested in achieving a Master Beekeeping certification or not, the program will help us structure education and training to further science based management practices and learning. I have seen many of the courses offered at the University in Lincoln, and I wish I was closer. However, we are partnering with them so we can extend quality learning opportunities in Missouri, so stay tuned.

At the banquet many awards were given out to top beekeepers in the state. Tim Hyde for Beekeeper of the year; Eugene Makovec for Lifetime Achievement; Debra Maier for Mentor of the Year; and Kerstin Randolph for Jr Beekeeper of the year. We are very glad to have fine folks like this serving bees and beekeeper in Missouri.

We also had a social hour that I really enjoyed, to just hang out and network with beekeepers. The appetizers were great too. We also had Kyle Day leading the evening fun at the bowling alley. We had a great time! I believe Kyle will be working on some evening fun for the next conference, so don't miss out! Thank you to all you volunteers that make these conferences possible. Without you, they would never happen.

Be sure to keep your eye out and mark your calendars for our Spring Conference and our upcoming Field Day in Arcadia, MO. We are looking forward to 2020. As the weather cools off this fall season, may your hearts be light, and your hives heavy.

Cory



**Executive Committee and Board members** (left to right) (Front row) Cory Stevens, Jeania Schmalhorst, Bob Brammer, Erin Mullins, Hannah Gebhardt; (Second Row) Bruce Snavelly, Randy Ewart, Clayton Lee, Kyle Day, Wanda Johnston, Amy Giffen; (Back Row) Wes Johnston, Jeff Mayfield and Charlotte Wiggins.

## MSBA Membership

Membership dues remain at \$10 per individual. You may renew your membership by going to the MSBA website and utilizing PayPal or mail your check to me with your first and last names, address, telephone number, and email address. I gladly accept batch memberships if given the information on a typewritten list and either a check from the local club's treasurer or secretary.

You should receive notice the month preceding your membership expiration. While the website is going

through growth spurts please contact me if you have questions regarding your membership.

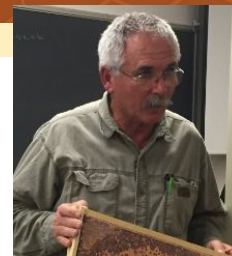
Thank you for supporting MSBA!

**Wanda Johnston**  
**MSBA Membership**  
**401 NW Heady Avenue**  
**Ferrelview, MO 64163**  
**email: bees@kc.rr.com**



## Great Plains Master Beekeeping Program Makes Its Debut in Missouri

By Gregg Hitchings, MO Task Force Great Plains Master Beekeeping Program, msbagregg@gmail.com



Another chapter in Missouri beekeeping was opened at MSBA's October 18-19, 2019 fall conference in Moberly. Sheldon Brummel, Master Beekeeping Project Coordinator for the University of Nebraska-Lincoln (UNL), spoke to the large group in attendance about Missouri's partnership in the new Great Plains Master Beekeeping Program (GPMB).

GPMB is a new regional collaborative effort connecting beekeepers and organizations from Iowa, Kansas, Missouri, Nebraska and Wyoming, coordinated through UNL. Its purpose is to bring structured, science-based beekeeping training, education, outreach and mentoring to the beekeeping community.

Sheldon explained the April, 2019 roll-out of the GPMB program and discussed the overall goals and structure of which he and many others are working towards. He discussed the challenges we will face here in Missouri as this program moves forward, and particularly in the roll MSBA will play in developing a cadre of instructors qualified and certified to bring the curriculum to our state's potential and already established beekeepers.

**"This is truly exciting stuff. MSBA recognizes the importance of science based, university-led education for beekeepers and is proud to partner with GPMB in this effort."**

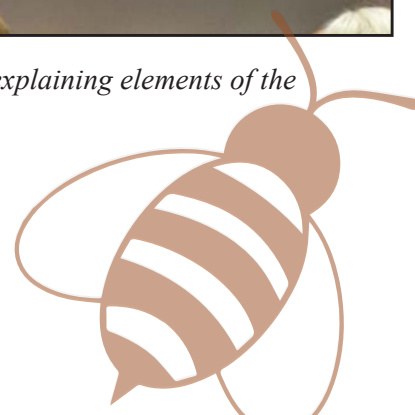
This is truly exciting stuff. MSBA recognizes the importance of science based, university-led education for beekeepers and is proud to partner with GPMB in this effort. The fall conference provided our first look at how some of this training will look with two separate break-out sessions for which participants may claim credit in the GPMB program.

These opportunities will continue and be expanded at future MSBA conferences and field days and, as this train keeps chugging down the track, qualified instructors will be available to assist with courses and training at the local club level.

For further information about GPMB, check out: <https://gpmb.unl.edu/about-master-beekeeping-program>



*Sheldon Brummel explaining elements of the GPMB Programs*



# MSBA - GPMB Program

## So You Want to Be a Master Beekeeper?

By Charlotte Ekker Wiggins, MSBA Partnership Liaison, MO Task Force Great Plains Master Beekeeping Program, [msbacharlotte@gmail.com](mailto:msbacharlotte@gmail.com)



If you also want to be a master beekeeper, you will be joining Missouri beekeepers who took the first Great Plains Master Beekeeping Program (GPMB) classes at MSBA's Fall Conference. The "Train the Trainer" and "Tips on Running a Bee Club" sessions were the first ever certified classes for credit for a scientifically based and University sponsored Missouri master beekeeping program. Gregg is right, very exciting!



*October 18, 2019 sign ups for Great Plains Master Beekeeping Program "Train the Trainer" session at MSBA's fall conference in Moberly, Mo.*

Developing a master beekeeping program for the state has been a long standing MSBA goal. The challenge was to find a scientifically based, cutting-edge research university with experienced beekeepers and entomologists who could help Missouri develop a cadre of vetted beekeepers. The idea was to increase available beekeeping mentors to help established beekeepers with the ongoing beekeeping challenges as well as work with the increasing numbers of Missouri hobby beekeepers.

At an earlier MSBA conference, Dr. Judy Wu-Smart from the University of Nebraska at Lincoln was one of MSBA's guest speakers. She heard a lunch discussion about the challenges of finding a professional master beekeeping program and offered to add Missouri to

the new Great Plains Master Beekeeping program she was establishing with Nebraska, Iowa and Kansas. The program launched in Missouri April 2019 and is now adding Wyoming.

### How to Get Your Beekeeping Classes Certified

Local bee clubs and associated classes can now be submitted for review and GPMB certification. <https://gpmbl.unl.edu/course-certification> Once approved, they will be notified by email, get a logo to use on websites and class materials, and the approved classes will also be listed on the GPMB website. <https://gpmbl.unl.edu/states/missouri>

Once beekeepers are certified at the master's level, they will be provided with updated materials and additional tools to teach and mentor others.



*Charlotte Ekker Wiggins, instructor of "Tips on Running a Bee Club" at Missouri State Beekeepers Association October 19, 2019 fall conference launching the first GPMB certified class at the conference. (Photo by Jeania Summers Schmalhorst)*



*Sheldon Brummel, Great Plains Master Beekeeping program coordinator, explains how clubs apply for class certification at MSBA's October 18, 2019 fall conference "Train the Trainer" session in Moberly.*

### How to Begin Your Missouri Master Beekeeper Certification

To start your GPMB certification, register online: <https://gpmbl.unl.edu/become-member>

Once approved, you can start logging field and volunteer hours: <https://gpmbl.unl.edu/member-reporting>

There is also one online course you can take as well as track other certified classes close to where you live::



# MSBA - GPMB Program

<https://gpmb.unl.edu/courses>

MSBA will also offer more classes at their upcoming conferences. The next one will be March 13-14, 2020 in Kansas City.

More details at <https://mostatebeekeepers.org>.

## Frequently Asked Questions about the Great Plains Master Beekeeping Program

(from MSBA Fall Conference Oct. 18-19, 2019)

### 1. Can I get the class materials now so I don't have to re-invent the wheel?

A. You need to first demonstrate your beekeeping knowledge and presentation skills. Once certified as a master beekeeper, class program materials and other updates will be provided to you.

### 2. How do I know what to include in my classes?

A. Great Plains Master Beekeeping lists the learning objectives on their website. <https://gpmb.unl.edu/learning-objectives>. If you follow that outline and cover the topics in your class presentations, you should be certified for those topics.

### 3. Can I fast track through the program?

A. There will be opportunities starting spring 2020 to take exams and demonstrate your knowledge to speed up the certification process. More details will be posted on the GPMB website as they are finalized.

### 4. The certified Mo. Master Pollinator Steward Program starting Nov. 4 in Jefferson City is too far away, will there be another one?

A. You can work through your local bee club and University of Missouri Extension office to get a Missouri Master Pollinator Steward program scheduled in your area. <https://extension2.missouri.edu/programs/master-pollinator-steward/>

[how-to-start-an-mps-program](#)

As other programs are scheduled, they will also be posted on the GPMB website. <https://gpmb.unl.edu/states/missouri>



GPMB approved logo

### 5. What kind of resources do they have that I can tap into now?

A. You will find a number of helpful resources on GPMB's website including a hive inspection sheet, varroa sugar sampling and, one of my favorite subjects, honey bee plants. <https://gpmb.unl.edu/bee-resource-guides>

### 6. Are there fees associated with the classes?

A. There are fees as you transition from one level to the next to cover testing and some classes may include fees. Check the GPMB website links to classes for fee details.

### 7. Do you plan to go through GPMB?

Absolutely! I look forward to not only having the latest beekeeping information and teaching certified classes but also meeting, and learning with, other Missouri beekeepers. After all, having GPMB now in Missouri is wonderful but the bees are really our teachers!



Once you complete the GPMB online courses, this is the certificate you will print off to document taking the GPMB course.

## Missouri Task Force Great Plains Master Beekeeping Program

MSBA now has a task force to support the Great Plains Master Beekeeping Program. MSBA Vice President Randy Ewart, Partnership Liaison Charlotte Ekker Wiggins and Master Beekeeper Gregg Hitchings will be focused on working with GPMB to integrate the program in Missouri. Any questions, feel free to contact them!



The first certified Missouri master beekeeper class "Tips on Running a Bee Club" at MSBA's October 19, 2019 fall conference in Moberly, Missouri. From left: Mark Burr and LaDonna Stauffer; David Draker: Jessie-Scrivner Gunn; Randy Ewart; Kyle Day; Charla Hinkle; Hanna Price; Cory Stevens, Jasmine Bass, Gregg Hitchings, Jeania Schmalhorst, Dawson Smith. Not pictured, Lorri Thurman. (Photo by Charlotte Ekker Wiggins)

# MSBA 2019 AWARD WINNERS

## And the Awards Go To....

By Kyle Day, MSBA Regional Director, [kyle.day.1999@gmail.com](mailto:kyle.day.1999@gmail.com)



On behalf of MSBA and the Awards Committee, I would like to thank everyone who nominated Missouri Beekeepers for our annual awards and a big thank you to Dr. Leo for hosting the MSBA Fall Conference Contests and all those who participated. The 2020 award nominations will open March 1st, 2020 on our website so keep an eye out for the next Beekeeper of the Year and nominate them! We had a tough time choosing award winners, there is a lot of great Missouri Beekeepers who are doing great things for Missouri Beekeeping!

### **The 2019 Beekeeper of the Year: Tim Hyde.**

At the local level, Tim is a member of Eastern Missouri Beekeeper Association (EMBA), but has attended meetings with Three Rivers Beekeepers Association and St. Louis Beekeepers. He is an EMBA Board member and works at all their events (meetings, “Extravaganza” and teaching workshops at the Club’s apiary).

Tim serves as a liaison between EMBA and Maritz for their workshops and meetings. These are huge events in the St. Louis area. His work (layout and scheduling) makes for an orderly event for all beekeepers. Tim manages observation hives at both the Missouri Department of Conservation’s Powder Valley site and the Missouri Botanical Garden in the St. Louis area. Each year, Tim gives local club presentations to promote the Missouri State Fair. It includes proper methods for preparing entries and he even volunteers

to transport all St. Louis area beekeepers’ entries to the State Fair. Tim also volunteers as an EMBA member to work at the MSBA State Fair booth. At the State level, Tim is an active within the Missouri State Beekeepers Association by serving as the vendor coordinator for all Conferences. He visits each Conference location, contacts vendors and makes arrangements/diagrams for vendor setup. At the Regional level, Tim played a big role in the Heartland Apicultural Society’s 2018 Conference, where he served as the audio/visual expert.

### **The 2019 Junior Beekeeper of the Year: Kerstin Randolph.**

Kerstin was unable to make the Conference due to a school event but will receive her award at the next Midwestern Beekeepers Association meeting. Kerstin was a 2018 Midwestern Beekeepers Association Youth Scholarship recipient and has a passion in helping people understand the importance of pollinators in our community. She is working toward her Girl Scout Gold Award and has chosen pollinators as her platform. She has a Facebook page “Bee the Solution Pollinator Pledge” that she shares facts about pollinators. You can find her at the Lee Summit Farmer’s Market and other venues, to encourage people to sign the Pollinator Pledge. She has faithfully attended MBA meetings. Kerstin is a student at Ray-Pec High School where she is involved in many activities, she nurtures her bees despite a hectic schedule has been impressive. Here is an excerpt of the press release she has prepared “Local Girl Scout Kerstin Randolph has been hard at work helping to educate Kansas City residents about the importance of pollinators on the world. As part of her Girl Scout Gold Award, Randolph is hoping residents will take simple steps to support the pollinators that fly among us to give us the coffee, apples, and other agricultural products that make modern human life possible. You can find Kerstin Randolph’s booth at the Lee’s Summit Farmer’s Market on Saturday, in July to sign the pledge in person, or like her Facebook page at [Facebook.com/PollinatorPledge](https://www.facebook.com/PollinatorPledge) to virtually sign the pledge.”



*Tim Hyde (Right) receiving a plaque awarding him MSBA 2019 Beekeeper of the Year from Kyle Day(Left) MSBA Regional Director.*



# MSBA 2019 AWARD WINNERS

## 2019 Mentor of the Year:

### Debra Maier

Debra Maier had an idea to start a beekeeping club in Jefferson City and single-handedly made it happen and the Show Me Beekeepers just celebrated its



*Debra Maier (Right) receiving a plaque awarding her MSBA 2019 Mentor of the Year from Kyle Day(Left) MSBA Regional Director.*

2nd anniversary in August. Before she started the club many members drove 45 minutes or more to other beekeeping meetings. Debra started the club, researched and presented monthly topics, arranged for the meeting location, manages the mailing list, Facebook page and website and responds to constant calls for mentoring. The club has taken off and now boasts over 60 members. Debra's hard work and dedication in keeping to club going. It has been a great asset to the many new beekeepers in the Jefferson City area and is a great example of beekeepers helping other beekeepers in Missouri.

## 2019 Lifetime Achievement Award:

### Eugene Mackovec

Eugene Mackovec is one of the biggest friends of



*Eugene Mackovec (Right) receiving a plaque awarding him MSBA Lifetime Achievement Award from Kyle Day(Left) MSBA Regional Director.*

Missouri Beekeeping. Eugene volunteered as MSBA Newsletter editor from 2006-2016, in 2015 Eugene took the charge to Jefferson City to help pass the "Honey Bill" to help Missouri Beekeepers sell their honey easier with less restrictions. Eugene is also the only person to receive MSBA Beekeeper of the Year twice! Eugene is the current Editor of the American Bee Journal. Eugene and his lovely wife Diane are a huge help at MSBA Conferences by helping with the Beehive Café. We cannot thank Eugene enough for all the help he has given Missouri Beekeepers over the years, and we hope Eugene stays a fixture in Missouri Beekeeping for many years ahead.

## 2019 Special Service Award:

### Clayton Lee

Clayton Lee has been one of the biggest volunteers in Missouri Beekeeping these last few years. He is the reason many of the current board members are on the board. He helped preserve the past history of MSBA



*Clayton Lee (Right) receiving a plaque awarding him the Special Service Award from Kyle Day(Left) MSBA Regional Director.*

collecting and scanning old MSBA newsletters for interested beekeepers and found the correct date MSBA was established (even though it gave us a headache trying to correct information). Clayton has volunteered countless hours assisting the current board members, volunteering at conferences and the state fair booth, and has been the voice of reason on many topics. As long-time member and past board member Dolores Vivian said "All officers work tirelessly for the betterment of our state beekeeping club and consider it an honor to do so. Clayton has been one of the best!" Clayton, Thank you, for all that you have done for Missouri Beekeepers!

# MSBA 2019 AWARD WINNERS

## State Fair Volunteers of the Year:

### Bill & Tammy George (By: Erin Mullins)

This years State Fair Volunteers were Bill and Tammy George of Chillicothe, MO. Both of these individuals have been helping us out at the state fair for several years and this year was no exception. I had a few days where people had canceled and we called either Bill or Tammy and without hesitation they came and pitched in! They both do a fantastic job of talking with the public and educating them on the honey bee. Congratulations on your award and thank you for all you do!!



*Bill and Tammy George (Center and Right) receiving a plaque from Erin Mullins State Fair Chair.*

## 2020 Missouri State Honey Ambassador:

### Hannah Gebhardt

For the second year Hannah Gebhardt will be the Representative of the Missouri State Beekeepers Association as the 2020 Missouri State Honey Ambassador. Hannah is attending Evangel University and pursuing a degree in elementary education. For information on scheduling Hannah to speak please contact; Amy Giffen, Ambassador Chairperson at [amygiffen@hotmail.com](mailto:amygiffen@hotmail.com)



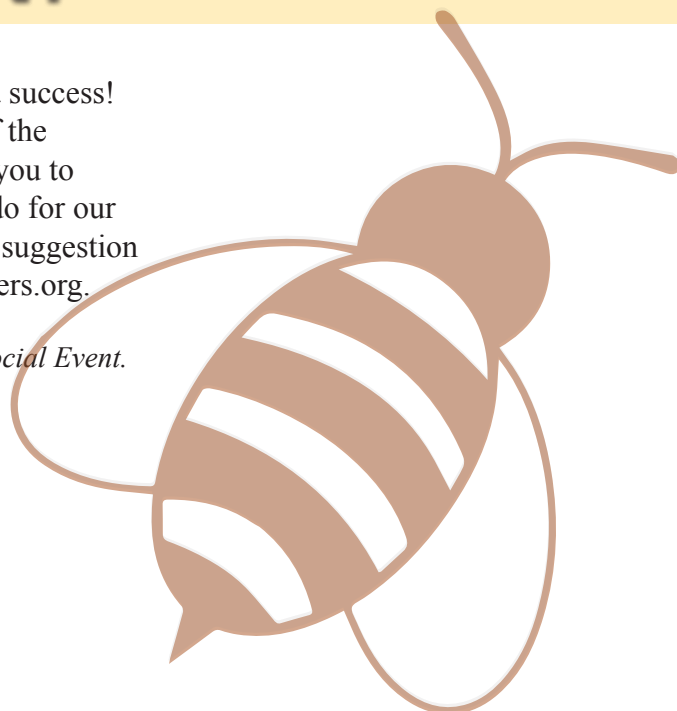
*Hannah Gebhardt (Right) receiving a scholarship check from Kyle Day (Left) MSBA Regional Director.*

# MSBA FIRST SOCIAL EVENT

The first MSBA Social Event during the 2019 Fall Conference was a success! After the Friday night banquet Missouri Beekeepers and even one of the speakers when to Memory Lanes to have some fun bowling! Thank you to everyone who came out. We are currently looking for something to do for our social event for the Spring Conference in Kansas City. If you have a suggestion they can be emailed to Kyle Day at [westcentraldir@mostatebeekeepers.org](mailto:westcentraldir@mostatebeekeepers.org).



*MSBA Members @ the Social Event.*





## Gingerbread and Bee Quotes

By Dr Leo Sharashkin

There were eight delicious entries in the Gingerbread class. The first place, with a blue ribbon and a cash prize, went to Katy Couturier of Columbia, MO. The professional baker judge and the conference participants were all smitten by her exquisite Gingerbread Bees with Honey and Orange Zest, that was completely unbelievable. The judge, Dot Richterkessing, the owner of Dot's Bakery in Moberly, MO, was so impressed she asked for the recipe for her business, and when the judging was complete and the entries became available for conference participants'



*The winning gingerbread by Katy Couturier*

enjoyment, Katy Couturier's Gingerbread Bees were the first to be wiped out. Even folks who otherwise try to stick to a low-carb diet could not get enough of them!

In The Most Hilarious Quote on Bees, Beekeeping, and Honey, the first prize was shared by Ann Elliot and Dr Leo Sharashkin. Judging was done by Eugene Makovec, two-time MSBA beekeeper of the year, recipient of 2019 MSBA Lifetime Achievement Award, and editor of American Bee Journal. Ann Elliot contributed the quote by Oliver St John Gogarty, the Irish writer: "If a queen



*Eugene Makovec judging the bee quotes.*

bee were crossed with a Friesian Bull would not the land flow with milk and honey?" And Dr Leo shared a great quote from Leo Tolstoy's War and Peace: "His skill in beekeeping and his knowledge of when to sow oats had long since earned him the reputation of a sorcerer."

Cash prizes were sponsored by HorizontalHive.com. Many thanks for all who participated! Next year's Cooking With Honey competition will be devoted to RAW FOOD. There are some stunning raw food recipes that call for honey - from sumptuous desserts and ice creams to healthful snacks, raw-seed granolas, and much more. Besides, not subjecting honey to high temperatures helps preserve all its goodness and flavor. So please experiment with raw food recipes and bring your best ones to the October 2020 Fall Conference.



*Gingerbread 2nd Place winner Lauren Stark*



*Bee Quote (shared) 1st Place winner Ann Elliot*



*The gingerbread entries. A table full of goodness!*



*Dot Richterkessing judging the gingerbread*

## First Place Winner of Gingerbread Shares Recipe

Katy Couturier:

“Thank you very much for sponsoring the contest. I’m very flattered the judge wanted to keep the recipe. I had so much fun developing the recipe this past week and learned how it can be somewhat tricky to bake with honey as the only sweetener. Using 2 egg yolks instead of a whole egg turned out to be the key for this recipe. Not only did I get to spend some fun time in the kitchen baking with my girls, we now have a new family favorite recipe that I’m sure will be made for years to come.”

### GINGERBREAD BEES

with HONEY and ORANGE ZEST

*Katy Couturier*

#### **Dry Ingredients:**

2 cup Flour  
1 tablespoon Cocoa  
1 1/2 tsp Ginger  
1/2 tsp Cinnamon  
1/2 tsp Nutmeg  
1/4 tsp Cloves  
1/2 tsp Baking Soda  
1/2 tsp Salt

#### **Wet Ingredients:**

10 tablespoons Unsalted Butter  
2 Egg Yolks  
3/4 cup Honey  
2 tsp Orange Zest  
  
1 Bee Mold  
Superfine Sugar (for easier molding)

1. Make Browned Butter. Heat the butter in a saucepan over medium low heat. After the butter melts it will foam and the white milk solids will fall to the bottom of the pan. Keep cooking, swirling the butter frequently, until the milk solids are slightly browned and then immediately remove from the heat. Be careful not to burn the butter once the milk solids start to turn color. Strain the browned butter through a coffee filter into a heat safe container. You should have about 1/2 cup of browned butter.
2. Sift all dry ingredients together into a large bowl.
3. Once the browned butter has cooled, add honey, orange zest, and egg yolks and mix. Be sure the mixture is not hot enough to cook the egg yolks when mixing all the wet ingredients.
4. Add wet ingredients to dry ingredients and mix just until combined.
5. Place dough in the fridge for at least 2 hours.
6. Roll dough into balls big enough to fill the mold and flatten slightly. Coat all surfaces of the dough with superfine sugar prior to molding. Press the dough into the mold and then give it a tap on the counter to release the dough. The molded cookies hold their shape better if allowed to dry uncovered in the fridge a day or two prior to baking.
7. Bake for approx. 9 minutes at 325°F. Once cooled, decorate as desired.

*Do you have any recipes that has honey as an ingredient? Would you mind sharing that goodness with other beekeepers across the state.  
Submit recipes to [MSBAnewsletter@gmail.com](mailto:MSBAnewsletter@gmail.com)*



## Pheasants Forever and Quail Forever

What do pheasants and quail have to do with beekeeping you ask? If you think about it, anything that helps wildlife through habitat and land management is good for the pollinators as well. Casey Berghold explained how the conservation effort with the pheasants and quail have greatly impacted the honey bees and other pollinators throughout the United States and Canada.

For more information please go to <https://www.pheasantsforever.org>



## The Bee and Butterfly Fund



Else Gallagher, biologist, gave a wonderful presentation on how to plant for pollinators. The follow is from the website; Critical pollinator and wildlife habitat is disappearing in the U.S. – but we can reverse the trend! With the help of generous corporate sponsors and individual donors, The Bee & Butterfly Habitat Fund is establishing high quality pollinator habitat to ensure honey bee and monarch butterfly populations thrive. We're working with landowners, conservationists, scientists and beekeepers to build healthy and sustainable pollinator habitat with maximum benefits. Our solution precisely targets pollinators' needs by engineering projects that provide appropriate bloom diversity, density and duration to optimize forage potential.

#NOWASTEDLAND

For more information please go to <https://beeandbutterflyfund.org> or like them on Facebook at <https://www.facebook.com/BeeAndButterflyFund/>



## Testing for Disease

### How to Send Brood Samples

- A comb sample should be at least 2x2 inches and contain as much of the dead or discolored brood as possible. **NO HONEY SHOULD BE PRESENT IN SAMPLE.**
- The comb can be sent in a paper bag or loosely wrapped in a paper towel, newspaper, etc. and sent in a heavy cardboard box
- AVOID wrappings such as plastic, aluminum foil, waxed paper, tin, glass, etc. because they promote decomposition and the growth of mold.
- If a comb cannot be sent, the probe used to examine a diseased larva in the cell may contain enough material for tests. The probe can be wrapped in paper and sent to the laboratory in an envelope.

### How to Send Brood Samples

- Send at least 100 bees and if possible, select bees that are dying or that died recently. Decayed bees are not satisfactory for examination.
- Bees should be placed in and soaked with 70% ethyl, methyl, or isopropyl alcohol as soon as possible after collection and packed in leak-proof containers.

- USPS, UPS, and FedEx do not accept shipments containing alcohol. Just prior to mailing samples, pour off all excess alcohol to meet shipping requirements.
- Do NOT send bees dry (without alcohol).

Send samples to:

Bee Disease Diagnosis  
Bee Research Laboratory  
10300 Baltimore Ave. BARC-East  
Bldg. 306 Room 316  
Beltsville Agricultural Research Center - East  
Beltsville, MD 20705

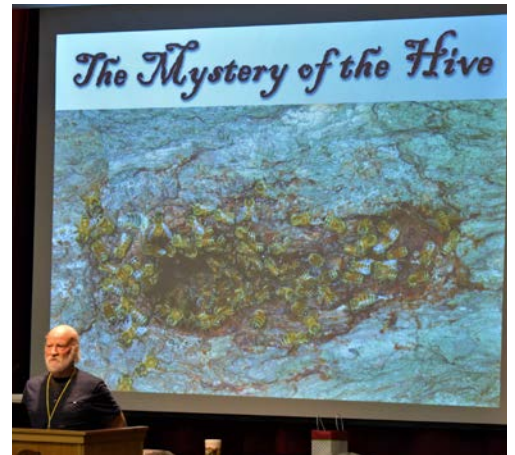
For more information go to <https://www.ars.usda.gov/northeast-area/beltsville-md-barc/beltsville-agricultural-research-center/bee-research-laboratory/>



*Collin Wamsley, State Entomologist with the Missouri Department of Agriculture*



## Apiary Inspection by Peter Borst





## Conference Photos





# VENDORS

## A Huge THANK YOU To All The Vendors!





## 2020 Spring Conference Speakers

### March 13-14th

Due to unforeseen scheduling issues the location of the conference will be moved to a new venue. Once MSBA has finalized a new location we will notify everyone. We want to make sure the new location will meet all of the needs for the conference. Thank you for understanding.

**Grant F. C. Gillard** is a beekeeper and Presbyterian pastor in Holden, Missouri. He keeps around 80 hives, selling honey at the farmer's markets in Lee's Summit, Missouri. He raises his own queens, sells nucs and has published several books on his experiences.



Grant F. C. Gillard began keeping bees on the family farm in Glenville, Minnesota, in 1981 after graduating from Iowa State University with a degree in agriculture. While active in his local church, his congregation convinced Grant he'd make a better pastor than farmer.

He graduated from Fuller Theological Seminary in Pasadena, California, with a Master's of Divinity degree in 1987. He later obtained a Doctor of Ministry degree from Aquinas Institute of Theology in St. Louis, Missouri, in 2000.

He spent twenty-five years in Jackson, Missouri, combining his passion for beekeeping with his pastoral duties at the First Presbyterian Church. In 2018, Grant moved his beehives to Holden, Missouri, where he currently operates around 80 hives and serves as pastor of the New Horizon Presbyterian Church in Odessa, Missouri. He produces honey, queens and nucs, preferring to catch feral swarms for his genetic base. He has also published several books on the topics of beekeeping.

He is past president of the Missouri State Beekeepers Association and is a frequent regional and national conference speaker. He received the Missouri State Beekeeper of the Year Award in 2012. He founded the Jackson Area Beekeepers Association and teaches beginning beekeeping classes around the state.

Grant is married with three grown children living in the greater Kansas City, Missouri area. His wife, Nancy, has taken an increasing role in selling honey at the farmer's markets.

**Elizabeth Walsh (Liz)** is originally from rural Wisconsin where she got her undergraduate degree at Ripon College and majored in Biology and English. Liz has been a beekeeper since she was a young high school student and is committed to researching applied questions about honey bee health. Liz graduated in December of 2019 with her Ph.D. in Entomology at Texas A&M University and her dissertation research primarily focused on in-hive pesticides, such as active ingredients in miticides, and how they impact queen health, physiology, and behavior.



**Tammy Horn Potter** started helping her grandfather with his beehives in 1997. In 2006-2010, she worked during off seasons with Big Island Queens in Hawaii. In 2008, she started Coal Country Beeworks, working with surface mine companies to establish pollinator habitat and apiaries in



Eastern Kentucky. In 2014, she became the KY State Apiarist, helping shape the KY Department of Agriculture Pollinator Protection Plan. From 2015-2018, she has coordinated the USDA Honey Bee Health Survey in Kentucky. She also serves on the boards of Eastern Apiculture Society, Project Apis M, Honey Bee Health

Coalition, and Green Forests Work. She is the author of the following books: *Bees in America: How the Honey Bee Shaped a Nation* (2005); *Beeconomy: What Women and Bees teach us about Local Trade and Global Markets* (2012); and *Flower Power: Establishing Pollinator Habitat* (2019).

# SAVE THE DATE!



## 2nd Annual Spring Field Day

May 2, 2020

Arcadia, Missouri ~ Iron County

*(More information to follow)*



## MSBA HONEY LOCATOR

### Want to get the word out about your local honey?

The **Missouri State Beekeepers Association** can now help you do just that!

The **MSBA** has created a list, and a map, where **MSBA members** can post honey and honey products for sale to help people in your area find your 'local honey' via the MSBA website ([www.mostatebeekeepers.org](http://www.mostatebeekeepers.org)).

If you would like to get on the **Local Honey** list go to <http://mostatebeekeepers.org/local-honey-form/> and fill out the form to apply. Once your form is submitted, we will verify your membership and add you to the list and map. We will be sharing the link to the local honey map on social media and other outlets and suggest all members do the same so we all can help bring local honey to the public!

You will be asked multiple questions and will need to 'educate' your customers. Please be patient and understanding at the same time and remember you are representing your association when working with the public. Just think back to the time when you were a new 'bee'.

If you have any questions please contact

**Kyle Day@westcentraldir@mostatebeekeepers.org**



**MSBA Benefits Committee**

Just another great benefit for the members of the MSBA

**Local  
HONEY**





## Advertising Opportunity

The Missouri State Beekeepers Association wants to give our members the best information and resources available for their beekeeping operations. This includes access to equipment and supplies. Starting in January 2020 you will be able to advertise in the MSBA Newsletter and reach members all across the state. With four ad sizes and very reasonable rates this will fit anyones advertising budget.

### Sizes and rates available

Full page..... (8.5" x 10") .....	\$100
Half page .....(8.5" x 5") .....	\$60
Quarter page .....(4.25" x 5") .....	\$35
Thumbnail .....(2.5" square) .....	\$20

### Artwork specifications

Full color - 300 dpi  
Saved as Print Quality/High Resolution  
Outlined fonts and embedded images.

### File formats acceptable;

PDF, PNG, JPG, TIFF, Adobe CC

*Advertising that is not beekeeping related will not be allowed. Publish dates are within the first 15 days of issue month. Ads must be paid for before the issue month. Listed prices are per issue. Recieve a 15% discount on half page or full page ad size when you pre-pay for all 6 issues. There are 6 issues per year; January, March, May, July, September, and November. A contract is available, if needed.*

**15% discount  
on half page or  
full page ad sizes  
available!**

**Full Page**  
8.5" w X 10" h  
**\$100.00**

**Quarter Page**  
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**Half Page**  
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**Thumbnail**  
2.5" square  
**\$20.00**

For more information please contact the Newsletter Editor at [MSBAnewsletter@gmail.com](mailto:MSBAnewsletter@gmail.com)  
or send a message through our website to the Communication & Marketing Chair at  
<http://mostatebeekeepers.org/executive-committee/>

# WINTERIZING: NOVEMBER TO FEBRUARY

- Take an advanced beekeeping class
- Continue furthering your education by reading books and magazines on bees and beekeeping.
- Keep hive entrances free of snow and ice.
- Bees will consume about 25 pounds of stored honey during January and February. During warmer days, when the temperature is above 45 degrees F, quickly check on food reserves in the hive. Do not disturb the brood nest or enter a hive if the temperature is below 45 degrees F.
- Never feed liquid food during freezing temperatures because doing so could cause an "icebox" effect on the hive. Loose sugar or fondant is recommended for emergency feeding during this time of year.
- Continue networking with local, state and national beekeeping associations to develop relationships with other beekeepers, and be willing to consider their opinions and suggestions.
- Before the end of January, order additional materials and bees for the coming season.
- Before the end of February, assemble and paint the outsides of the hive boxes with exterior latex paint.
- Before the end of February, assemble frames.
- Before the end of February, order or secure an additional four 5-gallon food-grade buckets with lids. Many bakeries have frosting buckets they will sell, or you can order new buckets when you order your equipment. Do not use pickle buckets because the vinegar permeates the plastic and will infiltrate both sugar water and honey.
- For emergency feeding, buy 50 pounds of sugar for each hive being established.
- Buy or make pollen patties.



Source: <https://extension2.missouri.edu/g7601>

## HISTORY

### MSBA History Tidbit

By Clayton Lee, MSBA Past President

#### Fifth Semi-Annual Convention – Sedalia, MO October 7-8, 1891

As I read through the notes on this convention, I see some positive changes! I may have missed it before, but this is the first time I have seen women actively involved in the convention. There was the standard roll call, followed by lectures, essays and discussions. Not a lot of members there (only eleven), but still some interesting reading. Some consistent with what we say today (helping beginners).

The two women presenting papers were Mrs. Milton Cone and Mrs. J.M. Null. They presented some excellent information. Later during the business meeting segment of the convention, Mrs. J. M. Null was elected as Treasurer for 1892.

I also noted that five vice-presidents were elected. They talked about their duties and it appears they are equal to what we currently have as regional directors.

Lastly, they passed five resolutions thanking the people of Sedalia, the proprietor of the Sicher hotel, the County Court for the use of the court room, the press and the retiring officers. Different times, but a tasteful way of doing business.

This link (I am sure there is an easier way to find a link) should take you to the Convention notes [https://books.google.com/books?id=qPESAAAAYAAJ&pg=PA517&lpg=PA517&dq=Fifth+Semi-Annual+Convention+%E2%80%93+Sedalia,+MO+October+1891&source=bl&ots=CUDyS\\_pyEt&sig=ACfU3U35YhF20T\\_n3x-1KJo2h\\_uzXSXgL4g&hl=en&sa=X&ved=2ahUKewirg42gn6zlAhUIWqwKHcd1DgEQ6AEwAHoECAgQAQ#v=onepage&q=Fifth%20Semi-Annual%20Convention%20%E2%80%93%20Sedalia%2C%20MO%20October%201891&f=false](https://books.google.com/books?id=qPESAAAAYAAJ&pg=PA517&lpg=PA517&dq=Fifth+Semi-Annual+Convention+%E2%80%93+Sedalia,+MO+October+1891&source=bl&ots=CUDyS_pyEt&sig=ACfU3U35YhF20T_n3x-1KJo2h_uzXSXgL4g&hl=en&sa=X&ved=2ahUKewirg42gn6zlAhUIWqwKHcd1DgEQ6AEwAHoECAgQAQ#v=onepage&q=Fifth%20Semi-Annual%20Convention%20%E2%80%93%20Sedalia%2C%20MO%20October%201891&f=false)

