



Missouri State Beekeepers Association
PO Box 7514 Columbia, Missouri 65205
www.mostatebeekeepers.org

August 2016

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Editor
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From the President by Valerie Duever

Wow! What a busy, busy month this has been.

I am very proud of our Executive Committee as they all have been working very hard to update a number of MSBA items.

First, we have changed the membership structure, applying the K.I.S.S. principle (Keep It Simple, Silly). Beginning in July, only individual membership levels will be available at a cost of \$10 per year. This will allow all correspondence to go directly to each member, reduce the cost for all individuals and simplify the registration process at our Fall Conference. All people currently enrolled in a family membership will be provided a second user name with the same expiration date. Please be patient with us as we transition to the new membership structure. We have had to do a number of upgrades to the website and are still doing the finishing detail work.

Second, we created a new Facebook Group page so you can post and share questions, ideas, pictures, etc. Here is that link: <https://www.facebook.com/groups/msbainfo/> so you can update your favorites bar. Bruce Snively, MSBA Southwest regional director, and Mike Conroy, MSBA webmaster, will be our monitors and we thank them for volunteering to keep spam postings off the page, and to Charlotte Ekker Wiggins, MSBA secretary, for setting up and cruising the group to answer questions.

Third, during our last Board meeting, we met with Dr. Moneen Jones, Entomologist Researcher with the Delta Fisher Research Center, and Dr. James English, Division Director of Plant Sciences with the University of Missouri. Dr. Jones gave a detailed presentation on her proposed Missouri Master Beekeeping Program and our Board was actively engaged; asking a number of questions for better understanding and clarification. After discussing the pros and cons of the one class that is currently being offered and what is being proposed by Dr. Jones, our MSBA Board has made a decision.

MSBA supports having a professionally-managed and fully vetted Missouri certified master beekeeper program. **At this time, MSBA cannot endorse Dr. Moneen Jones' proposed program.** From what Dr. Jones told the MSBA Executive Committee August 6, 2016, only a prerequisite class for the 5-year proposed program has been developed, the training does not currently include Missouri-specific beekeeping related issues and Dr. Jones does not have the professional beekeeping experience to provide program direction. As per our Mission Statement, the Missouri State Beekeepers Association will continue to explore opportunities to partner with and support educational programs that benefit the beekeeping community.

Fourth, a big THANK YOU shout-out to Dean Sanders, Wes and Wanda Johnston and everyone who volunteered at the Missouri State Fair MSBA booth. Jim and I spent the first Saturday down there with our Boone Regional group and had a blast. We can't do what we do, especially at the State Fair, without our volunteers, so THANK YOU, THANK YOU, THANK YOU!

Fifth, the Board voted on some proposed By-Laws changes to take to our general membership for a formal vote in October. The complete copy of our current MSBA By-Laws with the proposed changes specifically indicated is available on our webpage. Here is a summary of those changes:

This proposal would require the Executive Committee to support By-Laws changes with a 2/3 vote prior to taking those proposed changes to membership, expand regions from 5 to 6, expand the Queen program to include Ambassadors, define the transition from Vice President to President, identify the Executive Committee's responsibility to establish/set dues, and remove the Auxiliary Representative from the Executive Committee.

Sixth and finally, it is Fall Conference time! The 2016 Fall Conference and Annual Membership meeting will be held at Lodge of the Four Seasons, Lake Ozark, MO on October 14 and 15, 2016. This year we have Randy Oliver (scientificbeekeeping.com) and Mel Disselkoe (www.mdasplitter.com) as our featured speakers, along with our very own Wes and Wanda Johnston. Registration forms, agenda, hotel accommodations, etc., are all in this newsletter, or can be found on our webpage. If you register before October 1, not only will you save a bunch of money but you get extra chances to win the Grand Prize of a 50" big screen TV!

Well, that's it for this time. As always, thank you for being a member of the Missouri State Beekeepers Association. See you at the Conference in October!

Valerie



Apiguard for Varroa Mites

THERE MAY BE OTHER THYMOL PRODUCTS ON THE MARKET TODAY, BUT WE ARE PLEASED TO OFFER APIGUARD® FOR VARROA MITE CONTROL. WITH PROVEN EFFICACY, IT IS THE BEST THYMOL VARROA MITE CONTROL PRODUCT OFFERED IN THE U.S. TODAY.

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Use Rim & Sticks to allow for correct spacing



**Foil tray shown on
brood frames.**



B10004 Rim & sticks
come unassembled.
Ship wt. 3 lbs. ea. . \$2.95

To Use Apiguard

Place the dosing tray or pad centrally on the top of the brood frames, gel side up. Be sure to allow at least ¼" of spacing between the top of the tray and the cover using spacer boards or empty supers as needed. Apply the second dose 14 days after the first. Screened bottom boards should be closed while Apiguard is being applied.

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**A slow release thymol gel that is a very effective
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- A natural and non-toxic treatment
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- Resistance is controlled and unlikely to occur with Apiguard
- Ease of use: 2 x 50 gm treatment trays per hive, with an interval of 14 days, in summer just after the honey flow
- Best results occur when bees are active and maximum daily temperatures are between 60°F and 105°F.
- Though registered as a Varroa treatment, Apiguard has been proven to effectively treat Tracheal mites as well.

Bulk tub comes
complete with
dosing scoop,
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M01481 Apiguard® Bulk Tub (6.6 lbs.)
Contains 60 50g treatments in bulk gel
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MISSOURI STATE FAIR APICULTURE ENTRIES FOR 2016

DIVISION A: HONEY (INDIVIDUAL CLASS)

Light Amber Extracted Honey

1st	Kenneth Heitkamp	5th	Madonna Bogacki
2nd	Tim Fredricks	6th	Michael Godfrey
3rd	Corinne Collins	7th	Mary Ellen Raymond
4th	Katy Ciola Evans	8th	Bob Finck

Dark Extracted Honey

1st	Charles Mattingly	4th	Eugene Makovec
2nd	Kenneth Heitkamp	5th	Jeremy Dillon
3rd	Nancy Giofre	6th	Tim Hyde

Sealed Honey, White, Brood Depth Honey Frame

1st	Amelia Schneider	2nd	Kenneth Heitkamp
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Sealed Honey, White, Shallow/Med Depth Honey Frame

1st	Tim Fredricks	3rd	Kenneth Heitkamp
2nd	Jeremy Dillon	4th	Charles Mattingly

Cut Comb Honey in Plastic Boxes

1st	Tim Fredricks	2nd	Corinne Collins
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Light Bulk Comb Honey, 2 or 2.5 lbs

1st	Tim Fredricks	2nd	Tim Hyde
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Candied Honey

1st	Corinne Collins	3rd	Tim Hyde
2nd	Yvonne Von Der Ahe		

Yellow Beeswax, approximately 3 lbs

1st	Kenneth Heitkamp	3rd	Laura Faust
2nd	Bob Finck	4th	Charles Mattingly

Queen and Her Bees

1st	Michael Godfrey	3rd	Tim Hyde
2nd	Katy Ciola Evans	4th	Wanda Johnston

DIVISION B: APICULTURAL PRODUCTS (INDIVIDUAL CLASS)

Art Designs in Beewax

1st	Yvonne Von Der Ahe	2nd	Corinne Collins
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Beeswax Candles Molded or Dip

1st	Tim Fredricks	2nd	Yvonne Von Der Ahe
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DIVISION C: HONEY (GROUP COMPETITION)

Light Amber Extracted Honey

1st	Three Rivers	Bob Finck	5th	Three Rivers	Corinne Collins
2nd	Eastern	Michael Godfrey	6th	Eastern	Madonna Bogacki
3rd	Three Rivers	Martin Wedge	7th	Three Rivers	Mary Ellen Raymond
4th	Eastern	Tim Hyde	8th	Three Rivers	Debra Newoold-Dowden

Dark Extracted Honey

1st	Eastern	Kenneth Heitkamp	3rd	Three Rivers	Scott Hitchcock
2nd	Eastern	Tim Hyde	4th	Three Rivers	Corinne Collins

Light Bulk Comb

1st	Three Rivers	Tim Fredricks
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Yellow Beeswax, approximately 3 lbs

1st	Three Rivers	Bob Finck	3rd	Three Rivers	Murray Pickard
2nd	Eastern	Kenneth Heitkamp	4th	Three Rivers	Tim Fredricks

2016 Grand Champion (Individual): KENNETH HEITKAMP

2016 Grand Champion (Group): THREE RIVERS BEEKEEPERS



Letter to the editor

GMOs, neonicotinoids “biggest problem” we face today

by Victor Imgarten

In the June Missouri State Beekeepers Newsletter my friend Eugene Makovec's article, “So you wanna be a beekeeper”, started out with what I would say most of us who have been keeping bees for a while would agree on. It is difficult and takes commitment to be a responsible beekeeper.

Yes it is more challenging than ever, and yes it is not as easy as many people and sources would have you believe. It is without a doubt much harder than it was when I helped one of our older beekeepers years ago with his hives. Split, add supers, take full supers, extract - repeat. The days of lifting full supers as the only work are gone and probably will not return in the near future. Having said that I find it is a very rewarding fun hobby and it's as good for you as it is the environment. There is nothing like hearing people tell you it's the best honey they ever tasted.

A few paragraphs into the article he made several statements which are at the least misleading or possibly false and may confuse the beekeeper. For every article you read you will find another article that will contradict the findings dealing with the problem with bees. With a little research you will probably find one of the big chemical companies behind the “Our products are safe” line.

Within the last couple of weeks a Swiss study confirmed that Neonicotinoids are lowering the sperm count on the male honey bee. Another study showed that neonicotinoid was reducing the honey bee nutritional status.

I will not go into the details of each study. You can find the information on line or most likely in one of the bee magazines. Both studies provide additional information pointing to GMOs and Neonicotinoids as being a part of the problem. Personally, I feel they are the biggest problem combined with the way our farming practices have changed in the last 50 years. Speculation on my part? Maybe, but then again it's just what I think based on what I read. I encourage everyone to read and become an informed beekeeper.

Yes I believe we need more studies, preferably without tax money and without big business funding as well.

As an owner of a service business I see a fair amount of abandoned hives (free bees). I always try to talk the homeowner out of the old hive, most times with no luck. Usually they are a homeowner who used to keep bees or they are just people who bought a house and the bees came with it. Many times they just never had anyone take an interest in the bees and did not know what to do. The bees have become a part of their landscape and they take care of themselves. Of course they have heard about the bees needing help and so they just left them alone. On a side note it's pretty easy to get the uninformed homeowner to a club meeting to see if taking care of the hive is really for them.

Any of us who keep bees know that no matter what we do, we will have the occasional swarm. I am waiting on the study of hive production the year after a hive swarms. My swarm hives appear to be better honey producers the next year. I also await the next best answer or fancy new product on how to stop them from swarming.

I will not go into how I do not use chemicals on my bees. Using powdered sugar, different queen types and an infrared camera helps keep my hive lost ratio in line with published statics.

I encourage everyone who wants to be a beekeeper to just do it, but research your options and read, read, and read some more. Join a club or start one. Go to the state meeting, or go to Sedalia and help in the booth. Get a mentor and take everything you hear and read as information but not always as fact. Do what works for you. Even when friends disagree, know that you are still a beekeeper and part of a

special group.

Now about that climate change comment.....

Website Update

by Mike Conroy

The website is undergoing an update.

Per direction from the Executive Board, the membership levels have been eliminated, and only an individual membership level is available. The fee for an annual membership has been reduced to \$10. This will allow those couples who, previously, had a family membership, to register both at the same price as the former \$20 family membership fee.

Along with this fee change, the join and renew methods online have been simplified, with fewer steps needed to register or renew. In the near future, a bank draft option will also be available, allowing new or renewing members to process a payment directly from their bank account, rather than having to send in a check by mail. For those who still wish to send a check by mail, this option still exists.

The website has also been updated to better protect our members. A security certificate has been obtained to secure the connection between our members and the MSBA. We have also installed software to better protect the website from hackers. People who visit the site should now see [https](https://www.facebook.com/groups/msbainfo/) in front of the web address, and, depending on their browser setup, a lock icon or similar, indicating the website security certificate is active.

MSBA Has New Facebook Group Page

MSBA has started a new Facebook group page where members can share information and stories: <https://www.facebook.com/groups/msbainfo/>

The old Facebook page was taken down on August 20, 2016. The new group page is being administered by MSBA Secretary Charlotte Ekker Wiggins with the help of moderators Bruce Snively, Southwestern Director, and Mike Conroy, MSBA Webmaster. We will be posting upcoming conference information as well as what is new with the MSBA, so please join us there.

See page 6 of this newsletter for summaries of, and links to, three recent research studies on farm chemicals and pollinators - including the Swiss study referenced by Vic in this commentary.



Research gives conflicting views of effects of neonics on bee populations

Swiss study shows neonic-infused pollen patties reduce drones' reproductive value

Proceedings of the Royal Society B, July 2016

<http://rspb.royalsocietypublishing.org/content/283/1835/20160506>

Funding: Financial support was provided by the Bundesamt für Umwelt (BAFU) to L.S., P.N., and G.R.W., by Agroscope to G.R.W., by the Vinetum Foundation to P.N., by ETH Global (People Exchange Grant) to K.K. and by Chiang Mai University Fund to P.N. and G.R.W.

Abstract: We show that two neonicotinoids significantly reduce the reproductive capacity of male honeybees. Drones were obtained from colonies exposed to the neonicotinoid insecticides or controls, and subsequently maintained in laboratory cages until they reached sexual maturity. While no significant effects were observed for male teneral (newly emerged adult) body mass and sperm quantity, the data clearly showed reduced drone lifespan, as well as reduced sperm viability (percentage living versus dead) and living sperm quantity by 39%. Our results demonstrate for the first time that neonicotinoid insecticides can negatively affect male insect reproductive capacity, and provide a possible mechanistic explanation for managed honeybee queen failure and wild insect pollinator decline.

Excerpts: "The study was performed in Bern, Switzerland, between April and September 2015 using 20 *A. mellifera* L. honeybee colonies that were established at the beginning of the experimental period using the shook swarm method to source drones and workers."

"Insecticide Exposure: In early May 2015, colonies were randomly assigned to one of two treatments (insecticide or control). Each colony was provided daily with 100 g pollen paste (60% fresh honeybee corbicular pollen, 10% organic honey, and 30% powder sugar). Pollen paste for insecticide colonies additionally contained 4.5 ppb thiamethoxam and 1.5 ppb clothianidin (both Sigma-Aldrich), which represents field-realistic concentrations found in plant pollen.... Pollen paste feeding occurred over a period of 50 days to ensure colonies would be exposed to at least two complete brood cycles.... During the entire period, each colony was equipped with an entrance pollen trap to partially restrict forager-collected corbicular pollen entering the hive in order to promote pollen paste feeding."

"Median longevity of insecticide drones (15 ± 15 –15 days) was significantly lower than controls (22 ± 21 –22 days). Furthermore, insecticide drone survival was significantly reduced compared with controls for up to 14 days (point of sexual maturity); mortality was $16.82 \pm 0.02\%$ and $32.08 \pm 0.03\%$ for controls and insecticides, respectively, which represents an approximately 50% difference."

"Sperm viability was significantly different between the two treatment groups, with insecticide drones having lower sperm viability than controls. Sperm viability was 92 ± 90 –94% and 83.5 ± 80 –86% in the controls and insecticides, respectively. No correlation was observed between sperm quantity and sperm viability. In addition, a significant difference was observed between control and insecticide treatments for total living sperm quantity, [with] approximately 39% less living sperm in insecticides compared with controls."

"Although only a small proportion of transferred sperm is stored by the queen, any decrease in sperm quality could have negative consequences."

"It is not known if the insecticides had a direct effect on the male's reproductive traits via contaminated pollen, or an indirect effect because of poor nursing quality and reduced hypopharyngeal gland activity of young, exposed workers."

WSU study suggests minimal neonic risk to honeybees in the field

Journal of Economic Entomology, January 2016

<https://sharepoint.cahnrs.wsu.edu/extadmin/bookshelf/Shared%20Documents/Lawrence,%20Tim%20-%20Promotion%20Documents/Lawrence%20Supporting%20Materials/lawrence%20et%20al%20-%20neonics.pdf>

Funding: The authors of this publication received research support for this study from Washington State Bee Advisory Committee, the Washington State Department of Agriculture, and The Washington State Commission on Pesticide Registration. No additional funds were used or accepted in conducting this research including any support from chemical companies or environmental organizations. Access to bee hives was granted by willing beekeepers. All samples were collected by the authors or individuals directly under their supervision following prescribed protocol. [Co-author] Timothy Lawrence is on the board of the Washington State Pesticide Advisory Committee and a member of the Washington State Managed Pollinator Protection Committee.

Abstract: A comparative assessment of apiaries in urban, rural, and agricultural areas was undertaken in 2013 and 2014 to examine potential honey bee colony exposure to neonicotinoid insecticides from pollen foraging. Apiaries ranged in size from one to hundreds of honey bee colonies, and included those operated by commercial, sideline (semicommercial), and hobbyist beekeepers. Residues in and on wax and beebread (stored pollen in the hive) were evaluated for the nitro-substituted neonicotinoid insecticides imidacloprid and its olefin metabolite and the active ingredients clothianidin, thiamethoxam, and dinotefuran. Beebread and comb wax collected from hives in agricultural landscapes were more likely to have detectable residues of thiamethoxam and clothianidin than that collected from hives in rural or urban areas (50% of samples vs. <10%). The maximum neonicotinoid residue detected in either wax or beebread was 3.9 ppb imidacloprid. A probabilistic risk assessment was conducted on the residues recovered from beebread in apiaries located in commercial, urban, and rural landscapes. The calculated risk quotient based on a dietary no observable adverse effect concentration (NOAEC) suggested low potential for negative effects on bee behavior or colony health.

Excerpts: "Sampling occurred from September through October of 2013 and May of 2014 through August 2014. Beekeepers were selected from a combined list of members of local beekeeping organizations. A total of 92 cooperating Washington state beekeepers provided access for collection of hive samples from 149 apiaries that are representative of bee forage areas throughout the State."

"We found that over a one-year period, neonicotinoid residues were detected in less than 5% of the apiaries located in rural and urban landscapes in Washington State. About 50% of beebread samples collected from apiaries in agricultural landscapes contained the insecticides clothianidin and thiamethoxam. However, most of the residues detected at concentrations above the method LOD (Limit of Detection) were below the LOQ (Limit of Quantitation). A probabilistic risk characterization using the distribution of residues and an array of NOAECs (No Observable Adverse Effect Concentration) for sublethal individual bee and colony level toxicity indicates a low likelihood of adverse effects."

"Our probabilistic risk assessment based on residues we detected in beebread from apiaries around Washington State suggest nil risk of sublethal effects in rural and urban landscapes and arguably very low



Missouri State Beekeepers Association By-Laws

-- Proposed 2016 Changes --

What follows is a proposed revision of the MSBA By-Laws. Only the sections with proposed changes are shown here due to space limitations. The entire By-Laws with proposed changes are available on our website. Per the current bylaws, such changes need to be submitted to the membership 30 days prior to a ratification vote at our annual meeting, to be held this year on October 15, at the close of our Fall Conference.

This proposal would require the Executive Committee to support Bylaw changes with a 2/3 vote prior to taking those proposed changes to membership, expand regions from 5 to 6, expand the Queen program to include Ambassadors, defines the transition from Vice President to President, identifies the Executive Committee to establish/set dues, and removes the Auxiliary Representative from the Executive Committee.

Article 3: Basic Policies

The following are the basic policies of the Missouri State Beekeepers Association:

~~The bylaws of this Association may only be amended by two thirds (2/3) vote of the members present at a regular meeting of the Association, provided members present are not less than thirty (30). Announcement of this meeting and the proposed change must be published in the Association newsletter or other suitable medium (i.e. internet) thirty (30) days prior to the meeting date.~~

The bylaws of this Association may only be revised and/or amended by both a two-thirds (2/3) vote of the Executive Committee followed by a two-thirds (2/3) vote of the members present at a regular meeting of the Association, provided members present are not less than thirty (30). Announcement of this member meeting and the proposed change must be published in the Association newsletter or other suitable medium (i.e. email, website) thirty (30) days prior to the meeting date.

Article 4: Officers and Elections

~~Section 2: The officers of this Association shall consist of a President, Vice President, Past President, Secretary, Treasurer, Membership Chairperson, Program Chairperson, Editor, and five (5) directors. These offices shall make up, in part, the Executive committee of this Association as described in Article 6, Section 1 below.~~

Section 2: The officers of this Association shall consist of a President, Vice President, Past President, Secretary, Treasurer, Membership Chairperson, Program Chairperson, Editor, and six (6) directors. These offices shall make up, in part, the Executive committee of this Association as described in Article 6, Section 1 below.

Section 5: Tenure

~~C. The state shall be divided into five (5) sections, northeast, northwest, and south east, south west, and central. Each Director shall be an advisor to their section of the State reporting to the Past President/Director any pertinent issues of concern.~~

The state shall be divided into six (6) regions as defined by the Regional Directors. Each Director shall be an advisor to their region of the State reporting to the Past President any pertinent issues of concern.

Article 5: Duty of Officers

Section 2: The Vice President shall:

- A. ~~Perform the duties of the President in his absence;~~
Perform the duties of the President in his/her absence;
- B. ~~Shall assume the office of President if it should become vacant;~~
Assume the office as the new President following the expiration of the term of the President.

(continued on page 13)



Missouri State Beekeepers Association

2016 Fall Membership Conference

October 14-15, 2016

Lodge of the Four Seasons Lake Ozark, MO

MSBA Conference Room Rate of \$104.00 (\$ 50.00 off)

Good until **Sept 13, 2016.**

888-265-5500

<http://www.4seasonsresort.com/>

Featuring Presentations by:



Randy Oliver <http://scientificbeekeeping.com/>

Randy started keeping bees as a hobbyist around 1966, and then went on to get university degrees in biological sciences, specializing in entomology. He started writing for the American Bee Journal in 2006, and has submitted articles nearly every month since that time. His writings for the Journal brought requests to speak at beekeeping conventions, which has also allowed him the chance to visit beekeepers from all over North America and several other continents.



Mel Disselkoen <http://www.mdasplitter.com/>

Mel enjoys observing honeybee behavior and teaching beekeepers how to use his On The Spot (OTS) queen rearing method to self-sufficiently reach their objectives. He strives to identify the natural behaviors and seasonal reproductive cycles of the honeybee and then directs those behaviors toward a profitable objective.



Wanda Johnston

Wanda Johnston is a 6th year beekeeper. Wanda is the current Membership Chairperson for Missouri State Beekeepers Association. She serves on the MSBA State Fair Committee and is Past Honey Queen Chairperson. Wanda also serves on the board of Midwestern Beekeepers Association as the 2nd Vice President – Membership. Since oxalic acid sublimation became legal in March 2015, Wanda has completed 102 applications. Currently Wanda and her husband Wesley manage around a dozen hives. They live in Ferrelview, MO and manage their urban apiary plus they have an apiary in rural Trimble, MO.



Wes Johnston

Wesley Johnston is a 6th year beekeeper. Wesley is the current Treasurer for Midwestern Beekeepers Association. He is active on the Missouri State Fair Committee and assisted with the MSBA Audit Committee for 2015. Currently Wesley and his wife Wanda manage around a dozen hives. They live in Ferrelview, MO and manage their urban apiary plus they have an apiary in rural Trimble, MO.

Vendor Hall

Cooking and Art Contest

Awards Dinner

Door Prizes

50/50 Drawings

Grand Prize Big Screen TV



Missouri State Beekeepers Association

2016 Fall Membership Conference Registration Information

October 14 - 15, 2016

The Lodge of the Four Seasons, Lake of the Ozarks, MO

Mail-in Registrations:

Make checks payable to the
MO State Beekeepers Association.

Send check and completed registration form to:

Clayton Lee,
90 East Pope Lane,
Smithville, Missouri 64089.

Email required for registration acknowledgement.

Two ways to Register!

- Online at www.MoStateBeekeepers.org by **October 1, 2016** to get two (2) FREE tickets for prize drawings!!!
- Mail- in registration. Form is on the back.
 - One line per attendee, four total per page.
 - Please print clearly. Name badges are created from this form
 - Email of member must be registered with MSBA to get membership discounted pricing.

Please Note: As of July 1, 2016, our MSBA membership dues have changed. \$ 10.00 per year per individual only.

Want to Join the MSBA? Online at www.MoStateBeekeepers.org or Contact Wanda Johnston at 816-392-4960

Save \$ 50.00!

Don't Forget Your Hotel Room!

Mention the **MSBA Conference** and receive our \$104.00 room rate. Good until **Sept 13, 2016**.

Lodge of the Four Season
888-265-5500

<http://www.4seasonsresort.com/>

Conference Packages

	Members		Non Members	
	On or Before Oct 1	After Oct 1	On or Before Oct 1	After Oct 1
Queen Package Includes registration, lunch for both days and tickets to the Awards Banquet Scholarship Auction Dinner (Friday night)	\$110.00	\$135.00	\$135.00	\$160.00
Worker Bee Friday Package Friday Only Speakers and Lunch	\$60.00	\$75.00	\$85.00	\$100.00
Worker Bee Saturday Package Saturday Only Speakers and Lunch	\$75.00	\$90.00	\$100.00	\$115.00
Awards Banquet Dinner-Friday Tickets for Friday Dinner, Awards Ceremony and Annual Scholarship Auction	\$40.00	\$50.00	\$55.00	\$65.00
Children under 16 Free attendance to conference events with paying MSBA Member Attendee.				
Brood Food Weekend Under 16 Lunch both days and Friday Evening Awards Banquet	\$40.00	\$45.00	n/a	n/a
Brood Food Friday Under 16 Friday only Lunch	\$15.00	\$20.00	n/a	n/a
Brood Food Saturday Under 16 Saturday only Lunch	\$15.00	\$20.00	n/a	n/a
Brood Food Awards Dinner Under 16 Awards Banquet Only Dinner	\$20.00	\$30.00	n/a	n/a

2016 MSBA Fall Conference Registration Mail-in Form

First and Last Name: _____ Email: _____ Telephone: (____) _____

Street Address: _____ City: _____ State: _____ Zip Code: _____

Your Local Beekeeping Assn: _____

Other Attendees at the same street address, up to 3. Please use a separate form if different mailing address, or more than 4 attendees

First and Last Name: _____ Email: _____ Telephone: (____) _____

First and Last Name: _____ Email: _____ Telephone: (____) _____

First and Last Name: _____ Email: _____ Telephone: (____) _____

Registrations submitted on-line or postmarked date-ON OR BEFORE OCTOBER 1, 2016				Registrations submitted on-line or postmarked date-AFTER OCTOBER 1, 2016			
MSBA Members-	Price per attendee	Number of attendees	Extended Price	MSBA Members-	Price per attendee	Number of attendees	Extended Price
Queen Package	\$110.00	X	= \$	Queen Package	\$135.00	X	= \$
Worker Bee Friday Package	\$60.00	X	= \$	Worker Bee Friday Package	\$75.00	X	= \$
Worker Bee Saturday Package	\$75.00	X	= \$	Worker Bee Saturday Package	\$90.00	X	= \$
Awards Banquet Dinner-Friday	\$40.00	X	= \$	Awards Banquet Dinner-Friday	\$50.00	X	= \$
Food only-Children Options				Food only-Children Options			
Brood Food Weekend	\$40.00	X	= \$	Brood Food Weekend	\$45.00	X	= \$
Brood Food Friday	\$15.00	X	= \$	Brood Food Friday	\$20.00	X	= \$
Brood Food Saturday	\$15.00	X	= \$	Brood Food Saturday	\$20.00	X	= \$
Brood Food Awards Dinner	\$20.00	X	= \$	Brood Food Awards Dinner	\$30.00	X	= \$
Non-MSBA Members-				Non-MSBA Members-			
Queen Package	\$135.00	X	= \$	Queen Package	\$160.00	X	= \$
Worker Bee Friday Package	\$85.00	X	= \$	Worker Bee Friday Package	\$100.00	X	= \$
Worker Bee Saturday Package	\$100.00	X	= \$	Worker Bee Saturday Package	\$115.00	X	= \$
Awards Banquet Dinner-Friday	\$55.00	X	= \$	Awards Banquet Dinner-Friday	\$65.00	X	= \$
TOTAL AMOUNT				TOTAL AMOUNT			



2016 MSBA Fall Conference Agenda

Lodge of the Four Seasons Lake Ozark, MO

October 14-15, 2016

(Subject to change)

Thursday- October 13, 2016



2:00 PM Vendor Setup Begins
6:00 pm Executive Board Meeting
10:00 PM Vendor Setup Closes

Friday- October 14, 2016

7:00 am	Vendor Setup Continues	12:00 pm	People's Choice Judging Begins
8:00 am	Registration Opens		Buffet Lunch Begins
	Vendor Hall Opens	1:00 pm	Honeybee Pest and Disease- Randy Oliver
	Contest Room Opens for Entry Setup	2:00 pm	Oxalic Acid on Mites- Wanda Johnston
8:45 am	President's Opening Comments	2:45 pm	Break
9:00 am	Philosophy and Future of Beekeeping-Randy Oliver	3:00 pm	Tips for Working Bees and Minimizing Stings- Randy Oliver
10:00 am	Small Hive Beetles- Wes Johnston		People's Choice Judging Ends
10:30 am	Professional Judging Begins	3:45 pm	Break
	Silent Auction Begins	4:00 pm	Email Questions- Randy Oliver
10:45 am	Break	5:00 pm	Break for the Day
11:00 am	Reading the Combs Overview- Randy Oliver	6:00 pm	Awards Dinner and Auction

Saturday- October 15, 2016

7:00 am	Vendor Setup Continues		
7:45 am	Registration Opens		
	Vendor Hall Opens	12:00 pm	Buffet Lunch
8:00 am	OTS (On the Spot) Queen Rearing- Part 1- Mel Disselkoen	1:00 pm	OTS (On the Spot) Queen Rearing - Part 3- Mel Disselkoen
9:00 am	Break	2:00 pm	Break
9:15 am	Mite Management- Randy Oliver	2:30 pm	GMOs and Honey bees- Randy Oliver
10:00 am	Breeding for Mite Management- Randy Oliver	3:00 pm	Vendor Hall Closes
10:45 am	Break	3:30 pm	Silent Auction Ends
11:00 am	OTS (On the Spot) Queen Rearing- Part 2 -Mel Disselkoen		General Membership
			Annual Meeting
		4:30 pm	Prize Drawings and Closing Remarks

Local Beekeeping Associations in Missouri

1 Beekeepers Association of the Ozarks

4th Tuesday of each month, 6-9 p.m.
Seminole Baptist Church, 4221 S. National Ave.
Springfield MO 65810
Jeffrey Maddox, President maddox65804@yahoo.com
www.ozarksbeekeepers.org

2 Boone Regional Beekeepers Association

3rd Sunday of month, 3:00 p.m., Columbia Insurance
Group, 2102 Whitegate Dr. (back door), Columbia
President Jim Duever, 573-254-3373 www.boonebees.org

3 Busy Bee Club

4th Tuesday of each month, 7:00 p.m., Cedar County
Health Center, Owens Mill Road, Stockton
Neal Lee 417-276-3090, Neil Brunner 314-276-4252

4 Eastern Missouri Beekeepers Association

2nd Wednesday of each month, 7:00 p.m., location
changes. Bob Sears, President 314-479-9517
www.easternmobeekeepers.com

5 Golden Valley Beekeepers

2nd Monday of each month, 7:00 - 8:30 p.m.
Golden Corral, Clinton MO. Tom McCormick, President
tomm@goldenvalleybeekeepers.com
www.goldenvalleybeekeepers.com

6 Jackson Area Beekeepers

4th Tuesday of each month, 7:00 p.m.
First Presb. of Jackson, 206 E. Washington
Contact Grant Gillard, gillard5@charter.net, 573-243-6568

7 Jefferson County Beekeepers Association

2nd Tuesday of each month, 7:30 p.m., Hwy B & 21
Jefferson County Extension Center, Hillsboro
Contact Marvin Hook 636-274-1759

8 Joplin Area Beekeepers Association

Last Tue. of each month, 7 pm, SM Bank Community
Building (7th and Duquesne Rd), Joplin
Contact Dale Foley 417-850-0285

9 Mid Missouri Beekeepers

3rd Sunday, 2 pm, Old Train Depot, St. James.
Contact Don Moore, dmoore2@centurytel.net
573-265-8706

10 Midwestern Beekeepers Association

Most meetings: Fellowship Hall at Graceway, 5460 Blue
Ridge Cutoff, Kansas City, MO 64133
Visit midwesternbeekeepers.org for meeting calendar
President Bob Williams, thebeltonbee@gmail.com

11 Mississippi Valley Beekeepers Association

Last Tuesday of Month in Quincy, IL
Contact Bernie Andrew 217-938-4975

12 Missouri Valley Beekeepers Association

3rd Monday, 7pm, Union, location varies
President Calvin Brandt cvbrandt@landolakes.com

13 Parkland Beekeepers

3rd Tuesday of month, 7pm, North College Center,
Mineral Area College, Park Hills. Pres. Ray Politte
573-631-8236 PBA_President@mineralarea.edu
<http://www.parklandbeekeepersassociation.org/>

14 Pomme de Terre Beekeepers

2nd Thursday 7 pm, Missouri Extension Office, Hermitage
Contact Rebekah Huddleston Rebekah_421@yahoo.com

15 SEMO Honey Producers

2nd Thursday 6:30pm, Zion Lutheran Church, 450 N.
Main St., Poplar Bluff. Contact Ray Batton, 573-785-1980,
573-778-6475 cell or sbatton6@gmail.com

16 South Central Missouri Beekeepers Association

1st Friday of month, Howell Electric Coop, West Plains
Monty Wiens, President 417 257-3994

17 Southern MO Beekeepers of Monett "MOBees")

3rd Tuesday of each month, 7:00 p.m.
United Methodist Church, Hwy 37 NW of Monett
John Schmidt, President 417-830-9141

18 Southwest Missouri Beekeepers Assn. of Neosho

1st Tuesday of month, Neosho High School FFA Bldg
Contact Thelma Ross 417-472-3504 rtross@jscomm.net

19 Three Rivers Beekeepers

3rd Monday, 7pm, University of Missouri Extension,
260 Brown Rd, St. Peters, info@threeriversbeekeepers.com
President Eugene Makovec 314-703-7650

20 Northwest Missouri Bee Busters

2nd Monday of month, location varies
nwmbeebusters.blogspot.com
beebusters2012@gmail.com

21 Lake of the Ozarks Beekeepers

3rd Saturday of month, 1:00 p.m.
Square Deals Ice Cream Shop, Versailles
Contact Garrett Blackwell 573-374-7402

22 Northeast Missouri Beekeepers Association

1st Friday of month, 7 pm, Clark County Courthouse,
Lower level, Kahoka (location may vary)
(3 miles south of Wayland) Contact Randy Ewart
573-248-5561 rewart@centurytel.net

23 Gasconade Region Beekeepers

2nd Tuesday 7:00, First State Comm. Bank, Owensville
Pres. Rodney Angell (573) 259-5811 bee143@fidnet.com
gasconaderegionbeekeepers@hotmail.com

24 St. Louis Beekeepers

4th Tuesday 6:30, Schlafly Bottleworks
contact@saintlouisbeekeepers.com
www.saintlouisbeekeepers.com

25 Western Missouri Beekeepers

2nd Tuesday 6:30, Moor-View Community Room, Nevada
Caroline Phillips, President 417-321-3587
bcphillips81@gmail.com

26 Meramec Valley Beekeepers

First Sunday 2 pm, Peace Lutheran Church in Sullivan
Contact Sam Elia 573-732-5597 samnora1@gmail.com, or
Laurie Rose at laurierose1219@yahoo.com

27 Quad County Beekeepers

1st Tuesday, 7:00 pm, Missouri Extension Office, Troy
President Eric Reid quadcountybeekeepers.com

28 North Central MO Beekeepers Association

1st Monday, Macon High School, Macon, 7:00 pm
Contact Bill George (660) 214-0132
georges@chbeekeeping.com www.ncmbees.org

29 Bees Alive

(Springfield area) www.beesaliveclub.org
1st Thursday, 7-9pm, Central Bank of the Ozarks, 502 W.
Mt. Vernon St., Nixa MO 65714
Dan Barton, dannyohboy@hotmail.com

30 Wright County Beekeepers

2nd Thursday, Laclede Electric building, Hartsville, 7 pm
Rick Bledsoe, Contact 417-741-7466
wrightcountybeekeepers@gmail.com

(continued next page)

Local Beekeeping Associations in Missouri

(continued from previous page)

31 Rolla Bee Club

4th Sunday 2pm, Brownwood Estates Clubhouse, 1341 California, Rolla
Contact David Draker (573) 578-0561
rollabees@gmail.com www.rollabeeclub.com

32 Swarm Chasers

% MO Dept. of Conservation,
701 McCarthy Dr., St. Joseph
Contact Jason Seetin
swarmchasers@gmail.com

33 Northland Beekeepers

3rd Tuesday at 7pm, Smithville Library-Highway 169
Contact: Clayton Lee at leeland55@gmail.com or
573-864-5172

34 Mark Twain Beekeepers (Dent County)

3rd Monday, 6-8 p.m. No dues. Contact for meeting locations. Contacts: Terry Phelps 573-729-3333
Gregg Tivnan (573) 689-2254 or greggtivnan@yahoo.com

35 West Central Beekeeping Association

Second Wednesday, 6:30 pm
State Fair Community College, Potter-Ewing Ag Ctr, Sedalia

Contact Mike Conroy (573) 301-1394
hunnyhillfarms@gmail.com

36 West Plains Bee Group

3rd Thursday, 6pm Hirsch Feed & Farm Supply,
789 Worley Dr., West Plains
Call Carl Fry 417-247-0708 or Dan Cropper 417-372-2602

37 Greenhills Bee Club

4th Monday, 7pm, American Legion Hall in Braymer
J.R. Hess. 660-233-9577 or jrhess11@gmail.com

38 Dexter Bee Club

1st Tuesday, 6pm, Scott Laden's house
9265 County Road 627, Dexter
Contact Cory Stevens at corystevens00@yahoo.com
or 573-225-6935

39 Iberia Area Beekeepers

3rd Tuesday, 6:30pm. Iberia Library
Contact: Ray Shadow, 573-286-5289 or
trynbeez@outlook.com www.facebook.com/trynbeez/

See our interactive club map on the website at: <http://batchgeo.com/map/e64a9d35b439c5309794fba8516f333>

Missouri State Beekeepers Association By-Laws Proposed 2016 Changes

(continued from page 7)

Article 6: Executive Committee

~~Section 1: The Executive Committee shall consist of the President, Vice President, Past President, Secretary, Treasurer, Editor, Membership Chairperson, Program Chairperson, Auxiliary Representative, Fair Chairperson, Queen Chairperson, and Directors.~~

Section 1: The Executive Committee shall consist of the President, Vice President, Past President, Secretary, Treasurer, Editor, Membership Chairperson, Program Chairperson, Fair Chairperson, Queen/Ambassador Chairperson, and Directors.

Article 7: Standing Committees

~~Section 1: The standing committees of this Association shall be the Program Committee, the Nominating Committee, the Auditing Committee, and the Queen Committee.~~

Section 1: The standing committees of this Association shall be the Program Committee, the Nominating Committee, the Auditing Committee, and the Queen/Ambassador Committee.

Article 8: Membership and Dues

~~Section 5: Membership dues shall be in an amount to support the annual budget of this Association as determined by the Executive Committee.~~

Section 5: Membership dues shall be in an amount as determined by the Executive Committee.



MSBA Membership Application

Name _____

My local association is _____

Address _____

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Phone Number _____

Email _____

Dues \$10 per individual

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<input type="checkbox"/> 3 Yr.	\$56.25		

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Conflicting research on pesticides

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risks from exposure in agricultural landscapes.... Our conclusion does have some validation from field and semifield scale studies wherein either forager behavior or colony-level effects have been compared for hives placed within fields planted with seed treatments or untreated fields. The majority of these published studies have not found any significant adverse behavioral or colony health effects."

Native pollinators abundant in farm fields

Environmental Entomology, from *Catch the Buzz (Bee Culture)*, August 20, 2016
<http://ee.oxfordjournals.org/content/early/2016/08/03/ee.nvw087>

Although corn and soybeans do not need insects for pollination, they do offer floral resources that are used by insect pollinators. Researchers from Iowa State University used modified pan traps to compare the insect communities found in the two crops. All in all, they captured 6,704 individual insects representing at least 60 species. Thirty-four species were collected in both crops, 19 were collected only in corn, and seven were collected only in soybean.

The most abundant insects were solitary, ground-nesting bees, which accounted for 65% of the insect pollinators collected from both crops. Surprisingly, honey bees and bumble bees accounted for only 0.5 percent of all insects captured.

"Even though production agriculture includes practices that negatively impact pollinators, a community of pollinators persists within them," the authors wrote. "Despite a reduction in plant diversity that has come with the production of corn and soybeans, there may still be biodiversity that could respond to conservation efforts."

Since most of the pollinators found in the survey were ground-nesting bees, the researchers suggest that increasing the adoption of no-till practices may increase their numbers since tillage can destroy their nests. This could potentially help soybean farmers, as previous studies have shown that unmanaged bees can increase yields by as much as 6 percent.

From the study: "Previous studies have observed a positive impact of landscape diversity on the beneficial insect communities found in corn and soybean fields.... Like our study, these studies were conducted in crop fields managed for production within a landscape dominated by annual crop production. So even though production agriculture includes practices that negatively impact pollinators, a community of pollinators persists within them. The results of the pMANOVA suggest that the composition of the pollinator communities within each crop are distinct.... This suggests that a subset of this pollinator community are cultural species capable of persisting in central Iowa despite the focus on production of annual crops."

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president@mostatebeekeepers.org

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Missouri State Beekeepers Association
 PO Box 7514 Columbia, Missouri 65205
www.mostatebeekeepers.org



State Fair workers have a chance to relax and chat the morning of the second Saturday of the Fair. That afternoon, a steady stream of visitors kept us hopping.

At left, Yvonne Von Der Ahe's beeswax art entry took a blue ribbon, while Corinne Collins took a second-place red.

Otherwise, this year's entries were dominated by upstarts. Kenneth Heitkamp was a first-time Individual Grand Champion, while Three Rivers Beekeepers pulled down the Group Grand Champion award, which for the past decade has been passed back and forth by cross-state rivals Eastern Missouri Beekeepers and Midwestern Beekeepers.

photos by Eugene Makovec

This newsletter is published six times per year, in even months. Submissions are due by the 15th of the month prior to publication.

The email edition is in color, and contains hyperlinks and bonus back-page material, while the print version is in black-and-white. If you are a member currently receiving the printed newsletter and you wish to upgrade, just send an email to editor@mostatebeekeepers.org with "email newsletter" in the subject line. I'll reply with confirmation, and add you to my list.

Advertising rates are as follows:	Business card size	\$15.00	Half page	\$50.00
	Quarter page	\$35.00	Full page	\$100.00

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