

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

August 2014

Eugene Makovec
Editor
editor@mostatebeekeepers.org



IN THIS ISSUE

From the President	2	Honey Queen Report	10
<i>MSBA changes afoot</i>		Honey Princess Report	11
MSBA Fall Conference ...	4	RFID in bee research	11
<i>October 24-25 in Jefferson City</i>		<i>They're not all so busy ...</i>	
Pre-varroa research paradise	5	Local Associations	13
Join us at the Fair!	5	Membership application ..	14
MSBA to revise by-laws	6	Directory of Officers	15
<i>Review for Fall Conference vote</i>			

A honeybee moves from one borage blossom to another on a warm July day. Also known as starflower, borage is native to the Mediterranean, but is popular in gardens in Europe and America.

See back cover for more on this unique and fascinating plant.

photo by Eugene Makovec



From the President by John Timmons

Throughout most of the region it's harvest season again. And by most accounts it's been a pretty good year. In spite of the unusual spring and the less than predictable weather patterns throughout the Midwest, the girls did a pretty good job bringing in the crop. I'm in wonder as to how nice the weather has been lately and how well the inhabitants of my hives are responding. It's like O'Hare Airport on a busy Friday afternoon out there!

Checking my email inbox I note another launch of yet another coalition announcing their intent to investigate, recommend and/or fix the health problems plaguing our honey bees. Every time I receive one of these announcements, I pop it into a separate folder. That folder is filling up fast. It seems as if honey bee health has become big interest and big business! More on that subject later.

Fall Membership Conference – BE THERE!

Swiftly approaching - a little less than three months away – is the Fall, 2014 MSBA Membership Conference. Scheduled for October 24th and 25th in Jefferson City, we're anticipating another big turnout for this one. It's been several years since we visited the Truman Hotel for one of our membership conferences. Much has changed since our last visit there, including new management, facility upgrades and a new vendor hall with easier in and out access for our vendors – no more steep, perilous ramps! The folks at the Truman are going out of their way to make this a pleasant experience for us. Fall conferences always seem to garner a large attendance. I guess, by that point, everyone has their hives put to bed for the winter and they're ready to get out and about with their peers from around the state. Once again, we'll have a full lineup of speakers with talks and instruction sweeping the spectrum of subjects. We anticipate another full vendor hall with a few new faces and products to peruse. There will be a general announcement in this newsletter, including information to get you started with hotel reservations. Registration, a detailed speaker agenda and information regarding the cooking and beeswax competition (yes, it's on again for this conference) will be released soon after the first week of August. We're working hard to make this coming conference another rip-roaring success. We hope to see you all there.

Membership/Website Changes

You're going to start noticing some significant changes to the way we handle memberships. Our website is undergoing major renovation to include greater content. But of greatest importance to our members will be the ability to manage your membership services directly through the website. Everyone will be issued a unique login and password providing you secured access to your membership information. Do you need to know when your membership expires? Do you need to change your mailing address or email? Head over to the MSBA website and login. It'll all be available for viewing and changes.

And with secured membership services can come secured premium content only accessible by members. This could include training videos, exclusive beekeeping-related announcements, and much more. Look for announcements soon.

MSBA Bylaw Changes

In order to accommodate improvements and enhancements to our membership services, it is necessary to make a few simple changes to the MSBA By-Laws. These proposed changes are published in this issue of the MSBA newsletter for your review. The proposed changes have been voted on and approved by the MSBA Executive Board and await final approval by a vote of the membership at our upcoming conference in Jefferson City.

Honey Bee Health Coalition

As I mentioned earlier, it appears that honey bee health issues have migrated to a higher level of awareness, with big media, big business and even the White House getting involved. As many of you may have noticed, the White House announced on June 20th the creation of a federal strategy to promote the health of honey bees and other pollinators. The announcement included a four page memorandum signed by President Obama directing practically every federal agency to get involved! This coincided with the June 18th announcement of the new Honey Bee Health Coalition consisting of dozens of organizations and corporations, including some large agri-businesses. This should be encouraging to all of us that, perhaps, something substantial is being done to address the growing pollinator health problems.

It didn't go unnoticed that no state beekeeping organizations were included as part of the Coalition. Either they weren't invited, or they elected to remain as an independent voice.

In the case of the Missouri State Beekeepers Association, it was decided unanimously at the June 21st meeting of our Executive Board that we remain an independent voice and will not seek and will not accept the invitation to join such coalitions. We feel it crucial that we remain independent, with an independent voice. We'll closely monitor the work of these new initiatives and will enthusiastically and publically support coalition work that we feel is in the best interest of our members, yet we'll aggressively oppose any measures or recommendations that we feel are not in the best interest of beekeeping and the MSBA membership.

Until next time ...

John

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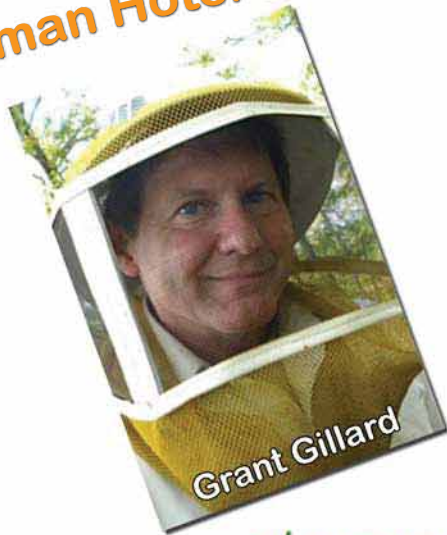


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Missouri State Beekeepers Association

Fall, 2014 Membership Conference
October 24th - 25th

Truman Hotel & Conference Center, Jefferson City, Missouri



Grant Gillard



Fedor Lazutin



Cory Stevens

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Catch the Buzz ...

Parasite-free honey bees enable study of bee health

Jul 01, 2014 by A'ndrea Elyse Messer

Newfoundland has New Found Parasite-Free Location

From PSU News

An international team of researchers has discovered honey bee colonies in Newfoundland, Canada, that are free of the invasive parasites that affect honey bees elsewhere in the world. The populations offer a unique opportunity to investigate honey bee health, both with and without interfering interactions from parasites.

"Invasive parasites—such as *Nosema ceranae*, a fungus, and *Varroa destructor*, a mite—have incurred heavy economic penalties on the honey bee industry via colony losses and reduced productivity of surviving colonies, and both parasites threaten global food security because of reduced pollination services to agriculture," said Nancy Ostiguy, associate professor of entomology, Penn State. "The extent to which these detriments are attributable to specific parasite species is difficult to assess, however, because of the occurrence of multiple parasites within honey bees. Studying the effects of these parasites is even more challenging because few areas in the world have western honey bee colonies that are free of invasive parasites."

Ostiguy and her colleagues found a geographical area in Newfoundland, in which a number of important invasive honey bee parasites, including *Varroa destructor* and *Nosema ceranae*, do not exist. The researchers used molecular techniques to test for the presence of viruses and *Nosema ceranae* in honey bee colonies managed by beekeepers. They used a visual screening method to search for insect parasites, including *Varroa destructor*. They then assessed the colonies for visual signs of illness and related the illness data with the presence or absence of parasites or viruses.

In the Newfoundland colonies, the researchers found the parasite *Nosema apis*, the species that has been displaced by *Nosema ceranae* elsewhere, and the pathogens, black queen cell virus and deformed wing virus.

"Despite the presence of these parasites and pathogens, colony losses in Newfoundland are very low—similar to the mortality rates reported in the United States before the introduction of *Varroa destructor*," said Ostiguy.

The team found that the Newfoundland bees, which were otherwise healthy, suffered from K-wing, a descriptive condition of the asymmetrical positioning of the wings that previously was not known to be associated with any identifiable pathogen. The researchers found a significant positive association between the presence of black queen cell virus and K-wing.

"Interestingly, the only clinical symptom previously associated with black queen cell virus is death of honey bee broods," said Ostiguy.

In addition, the scientists found a significant negative association between black queen cell virus and deformed wing virus.

"This result is interesting as we do not see the same negative association between these two viruses in colonies infested with *Varroa destructor*," said Ostiguy. "In colonies with *Varroa destructor*, frequently there is a positive association between the two viruses and co-infection in the same bee is common."

The results appear in a recent issue of PLOS ONE.

According to Ostiguy, the team will continue to investigate the relationships between various pathogens and parasites of honey bees, along with various stressors, such as pesticide exposure, with the goal of providing information to help keep honey bees healthy.

"Our ability to find European honey bee populations free of invasive parasites is shrinking," she said. "These parasite-free populations in Newfoundland are essential for our ability to understand the interactions among various parasites and pathogens of honey bees."

Read more at: <http://phys.org/news/2014-07-parasite-free-honey-bees-enable-bee.html#jCp>

This message brought to you by Bee Culture, The Magazine Of American Beekeeping.

Booth help needed!

Join us at the Missouri State Fair

August 7-17 in Sedalia

It's not too late to join us in Sedalia for the Missouri State Fair! With the slogan, "Harvest the Fun!" the Fair runs this year from August 7-17 in Sedalia. The 400-acre fairgrounds will present premier livestock shows and competitive exhibits, and first-class professional entertainment. Mark your calendar for the summer's best family vacation experience!

The fair will showcase the best of Missouri agriculture; competitions from bull riding to tractor pulls; professional entertainment from Joan Jett and the Blackhearts, Sara Evans and many others; rural lifestyle experiences; hands-on science, technology and innovation; family-friendly amenities for everyone from infants to mature adults; and other action-packed activities.

The Missouri State Fair is the perfect blend of activities for a memorable family outing. The midway carnival includes games and rides for children and thrill seekers of all ages. The nightlife on the fairgrounds kicks up each evening with free music on the Budweiser Stage and music stars performing on the stage of the Pepsi Grandstand.

Admission at the gate: \$8; age 60+, \$6; ages 6-12, \$2; 5 and under free. Tickets can be purchased in advance for a discount. See www.mostatefair.com for schedules and details.

continued on page 15





Missouri State Beekeepers Association By-Laws

(Proposed Revision - 5/18/14)

Article 1: Name

The name of this organization, a not-for-profit association, shall be the MISSOURI STATE BEEKEEPERS ASSOCIATION, also named herein as the "Association".

Article 2: Purpose

Section 1: The purpose of the Missouri State Beekeepers Association is to engage in any and all activities that will promote the common interests of beekeepers, and the general welfare of beekeeping, in the State of Missouri.

Section 2: To realize these purposes, this Association's objectives shall be:

- A. To promote and solicit individuals to the beekeeping industry.
- B. To be an instrument of education to future and established beekeepers.
- C. To be a proponent of adequate laws for the protection of beekeeping.
- D. To help establish new beekeeping associations throughout the state of Missouri.
- E. To encourage and support existing regional beekeeping associations in Missouri.
- F. To be an active advocate of national beekeeping industry.
- G. To be an avenue of information between the national beekeeping industry and the beekeepers in the State of Missouri.

Editor's note: The Executive Committee of the MSBA has proposed changes to the group's By-Laws, to take effect upon ratification by our membership. Per Article 3, Section L of these By-Laws, the proposed changes are herein submitted to the membership for review prior to a ratification vote at our 2014 Fall Conference in October.

Additions are highlighted in yellow, and deletions in strikethrough text.

The document is also available online at

<http://mostatebeekeepers.org/bylaws/>

Section 3: This association is organized exclusively for the charitable, scientific, and/or educational purposes within the meaning of the above stated objectives.

Article 3: Basic Policies

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

- A. The Association shall be noncommercial, non-sectarian, and nonpartisan.
- B. The Association shall work with local and national beekeeping organizations to promote the beekeeping industry and shall seek to participate in the decision making process establishing beekeeping policy for the betterment of all beekeepers.
- C. No part of the net earnings of the Association shall inure to the benefit of, or be distributed to its members, directors, and officers or other private persons, except that the Association shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes set forth in Article 2.
- D. Upon dissolution of this organization, after paying or adequately providing for debts and obligations of the Association, the remainder of the assets shall be placed in a trust fund at the University of Missouri-Columbia, or other educational institution dedicated to research in apiculture.
- E. This Association shall keep such permanent books of account and records as shall be sufficient to establish the items of gross income, receipts, and disbursement of the Association, including specifically, the number of its members. Such books of the account and records shall at all reasonable times be open to inspection by membership and Executive Committee.
- F. This Association shall keep such permanent books of minutes of meetings of the Executive Committee, standing committees, and general business meetings as shall be sufficient to establish amendments to these bylaws, the vote for the election of officers and the business policies and activities of the Association.
- G. This Association shall collect dues from its members to provide for its objectives in Article 2.
- H. Eligibility for any office shall be restricted to those who paid dues during the preceding year.
- I. ~~The membership year shall be January 1 through December 31st.~~

[The membership year shall consist of the twelve (12) months following payment of membership dues.]

J. Membership in this Association shall consist of those individuals who have paid annual dues to the Missouri State Beekeepers Association.

K. ~~General business meetings of this Association shall be at least two (2) per calendar year. They shall include an agenda and an educational program.~~

[General Membership Meetings of this Association shall be at least one (1) per calendar year. All meetings shall include an educational program and business agenda.]

Continued next page



MSBA By-Laws - Proposed changes, continued

Continued from previous page

L. 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 (ie. internet) thirty (30) days prior to the meeting date.

M. The rules contained in Robert's Rules of Order (revised) shall govern this Association in all cases to which they are applicable and in which they are not inconsistent with these bylaws.

Article 4: Officers and Elections

Section 1: Each officer shall be a member in good standing of the Missouri State Beekeepers Association.

~~*Section 2:* The officers of this Association shall consist of a President, Vice President, Past President, Secretary, Treasurer, Program Chairperson, Editor, and five (5) directors. These offices shall make up the Executive committee of this Association.~~

[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 3: Candidates for office shall be placed in nomination by the Nominating Committee. Candidates may also be nominated from the floor.

A. Candidates for office, except for President, shall be chosen from the general membership.

B. All officers shall be elected by paper ballot; however, if there is but one nominee for any office, the ballot may be by voice or hand vote. No vote shall be by proxy.

Section 4: In order for an individual; to qualify for nomination as PRESIDENT of the Missouri State Beekeepers Association, the individual, in addition to the qualifications stated in Article 4, sections 1 and 3, must

A. Have held any position on the Executive Committee for two (2) years prior to nomination.

B. Have a ninety percent (90%) attendance record at the meetings of the Executive Committee and the general meetings of the Association; (an excused absence may count as attendance at a meeting. An excused absence may only be given by the President and for reasons of family death, personal illness, or to attend national beekeeping concerns.)

Section 5: Tenure

A. All officers, except President, Vice President, and Past President shall serve a term of at least one (1) year.

B. The President, Vice President, and Past President shall serve a term of two (2) years.

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.

D. The Past President shall serve as coordinator of the directors and shall serve for two (2) years. Each local Association may elect, from their membership, one (1) representative to the State Association each year to serve at the pleasure of the President, and be present at all board meetings to represent their local association.

Section 6: Vacancies

A. Executive Committee: When a vacant office exists, the President shall appoint individuals according to the qualifications outlined in these Bylaws until the next general meeting of the Association when an individual shall be nominated and elected to the unexpired term of the office.

B. In the case of the President, the Vice President of this association shall fill the vacant office of the Presidency until the Nominating Committee can offer a candidate to the general membership for election. This individual will serve the unexpired term.

Section 7: Installation of officers shall take place at the general meeting closest to the time their term begins.

Section 8: Any officer of this Association who has violated the terms of this office according to these Bylaws may be removed from office by recommendation of the Executive Committee and a vote of agreement by the membership. A motion to remove the individual from office may also be made from the floor at any meeting. Proof of the violation(s) must be substantiated.

Article 5: Duty of Officers

Section 1: The President shall:

Continued next page



MSBA By-Laws - Proposed changes, continued

Continued from previous page

- A. Preside as Chairperson at all meetings of the Executive Committee and the membership;
- B. Coordinate and oversee the work of the officers and committees of the Association in order that objectives may be promoted;
- C. Decide all questions of order according to the bylaws of the Association.
- D. Appoint all committees and vacancies as provided in these bylaws or as requested by the Association;
- E. And perform such other duties as may be prescribed in these bylaws or assigned by the Association.

Section 2: The Vice President shall:

- A. Perform the duties of the President in his absence;
- B. Shall assume the office of President if it should become vacant;
- C. And shall be the Chairman of the Nominating Committee.

Section 3: The Program Chairperson shall

- A. Be responsible for developing educational programs for each meeting of the Association;
- B. And serve the President and Association as directed.

Section 4: The Secretary shall

- A. Record the business transactions, votes, and elections including each meeting's agenda of the Executive Committee and the general meetings of this Association;
- B. Conduct the correspondence of the Association;
- C. File and preserve all papers belonging to the Association according to Article 3 of these bylaws;
- D. Transfer all records, documents, and roster of Association members to his/her successor.

Section 5: The Treasurer shall

- A. Act as financial officer of this Association having custody of all funds;
- B. Keep a full and accurate account of all receipts and expenditures and be responsible for the maintenance of books;
- C. Deposit all monies received by the Association in a bank designated by the Executive Committee;
- D. Make such disbursements from the funds of the Association as are authorized by the Executive Committee and these bylaws;
- E. Present a financial statement at every meeting of the Association and when requested by the Executive Board and membership;
- F. ~~Keep a record of the members and their addresses;~~ [DELETE]
- G. And present the Association's financial records to the elected auditor and/or committee at the end of the fiscal year.

Section 6: The Membership Chairperson shall

- A. Maintain a record of the members, contact information and membership status;
- B. Develop programs to promote membership of the Association;
- C. Assist the Executive Board and members in matters dealing with membership in the Association.

Section 7: The Editor shall

- D. Be responsible for publishing a newsletter and mailing it to the membership at the discretion of the Executive Board;
- E. Maintain a portfolio of all published newsletters of the Association;
- F. And include in each newsletter: information from the Executive Committee, the dates of the Association's meetings, programs and events, a condensed version of the spring and fall business meetings, news and notices from regional associations and news pertaining to the beekeeping industry.

Section 8: The Directors shall

- A. Help execute all matters of the Executive Committee;
- B. Use their experience and expertise to set policies of this Association, to review policy and amendment change presented by the membership;
- C. Report to the past President and be assigned to a region of the state by the direction of the Past President.
- D. And serve the President and Association as directed.

Section 9: All officers of this Association shall transfer all records of their office, which shall include a detailed report on their activities, to

Continued next page



MSBA By-Laws - Proposed changes, continued

Continued from previous page

their predecessor at the end of their tenure.

Article 6: Executive Committee

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

A. Each local Association may elect, from their membership, one (1) representative to the Association each year to be present at all board meetings to represent their local association and serve at the pleasure of the President.

Section 2: The Past President shall supervise the directors with a two (2) year term of office.

Section 3: The President shall be chairperson of the Executive Committee.

Section 4: The duties of the Executive Committee:

- A. To review and recommend to the President, question on policy and Association activities.
- B. To receive recommendations of the Association for proposed activities, policy changes, and/or amendments to these bylaws.
 - 1. These recommendations shall be in writing.
 - 2. The Executive Committee shall recommend to the Association their endorsement or rejection of each recommendation by the next general meeting of the Association.
- C. All recommendations for policy changes and amendments to these bylaws must be presented to the Executive Committee for their research and decision of endorsement or rejection before presented to the Association for a vote.

Section 5: The Executive Committee shall designate, when needed, a bank in which funds of the Association are to be deposited, create an annual budget, oversee fund raising activities, and report the financial health of the Association at each meeting.

Section 6: It shall report interim activities to the membership at each meeting with recommendation for approval of the members assembled.

Section 7: The Executive Committee shall regularly meet to carry out the business of the Association as prescribed by the Purpose and Objectives in Article 2.

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.

- A. Members of these committees shall be appointed by the President with approval by the Executive Committee.
- B. The President shall appoint such other committees as are needed with the approval of the Executive Committee.

Section 2: Program Committee

- A. The Program Chairman shall chair all meetings of the committee.
- B. This committee is responsible for all planning of the programs presented to the membership at each meeting and for all activities necessary to carry out this responsibility.
- C. The committee is responsible for prudently disbursing the budget for programs and for maintaining records and receipts of such disbursements.

Section 3: Nominating Committee

- A. The Vice President shall chair all meetings of this committee.
- B. The Vice President may appoint a body of three (3) members or more (in odd numbers).
- C. Shall report their nominations for offices of the Association at the fall meeting each year.
- D. Shall keep their meetings confidential.
- E. Shall nominate only those individuals who qualify under the provisions of these bylaws and who have agreed to serve the Association.

Continued page 12



From the Honey Queen

Here we are in the middle of summer, but it certainly doesn't feel like it! I've been thoroughly enjoying the beautiful and mild temperatures, and I know that my bees are too. My hives (yes, hives! My split that I wrote about in my last article was successful, so I'm now among the multiple hive ranks!) seem to be doing quite well. I have supers on, and I see my little girls buzzing around in the yard every day.

The month of June found me at my local club (Midwestern Beekeepers Association) meetings and several cooking demonstrations! I have to say that, while I enjoy cooking, I'm definitely not a professional chef! So, I was a little nervous about having my own "cooking show"! However, the cooking demonstrations have ended up being some of my favorite events, thus far!

My first cooking demonstration was at the Northeast Kansas Beekeepers Association's FUNDAY. That was a fantastic event! The Douglas County Fairgrounds in Lawrence was a great venue, and the kitchen that I was able to use for my demonstration was a chef's dream. My funniest memory from that day was when I read "One cup of raw Missouri honey" from my brochure and a man raised his hand and said, "Will raw Kansas honey work too?!" I just laughed and replied that it wouldn't be quite as sweet!

Towards the end of June, I had the privilege to perform a cooking demonstration at Powell Gardens for National Pollinator Week! If you live in the Kansas City Area and have never had the opportunity to visit Powell Gardens, I highly recommend that you make a trip out there. It is a beautiful garden with so much to see, and the staff was a lot of fun to work with while I was there for my class.

The most wonderful thing about the cooking demonstrations that I've been able to do, is the opportunity to interact with your audience on a more personal level. Cooking is a fantastic way to educate people about

honey and its many health benefits, and to get them interested in the honey bee. Food is truly an accessible and practical way for people to get involved. Maybe they're not able to actually keep bees themselves? That's perfectly alright! They can support their local beekeepers by buying raw honey at the farmers market for their everyday culinary use.

Queen's Honey Chicken

(The most popular dish from the cooking demonstrations)

~3 lbs Cooked, Shredded Chicken Breast

~1 Cup Raw Missouri Honey

~2 Tbs Balsamic Vinegar

~4 tsp Dried Thyme

~Salt and Pepper to taste

~Preheat oven to 475. In a small bowl, whisk together honey, vinegar, thyme, salt, and pepper.

~Place chicken in a glass baking dish and pour glaze over the chicken. Mix well and bake for 20-25 minutes, or until thoroughly heated. Enjoy!

Next up on my calendar is the Missouri State Fair from August 7th-17th in Sedalia, Missouri! I'm looking forward to seeing you all, and your fair entries, there!

Lauren Collins, 2014 Missouri State Honey Queen



Queen Lauren

Walter T. Kelley Co.

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From the Honey Princess

Hello Everyone! How has your summer been? Mine has been very busy but great. My three hives are doing wonderful this summer, and yes I said three hives! The last time I wrote I had just lost a hive and was back down to two hives. A member of my club came over and we ended up splitting my swarm catch hive and we did it successfully. It's been such a neat experience watching it grow. The queen that we got for that hive is marked so I spot her frequently when I'm in my hives.

Over the 4th of July weekend we harvested two supers full of honey and got about 70 pounds worth. I think that's the best our bees have done this early in the year. But we have had lots of rain and they have lots of nectar sources to eat from. Just a half a mile away from our house is a pasture that they didn't farm and it is covered with flowers!! We stopped one day to snap pictures and the flowers were covered with insects.

This past weekend was our county fair. I had the opportunity to ride in the parade in a yellow and black mustang as the Honey Princess. I also helped out my club's booth where I was able to hand out many brochures and got to inform the public on the importance of bees. I am super excited for the Missouri State Fair and hope to meet many more people! If you are at the fair don't forget to say Hi!!

Happy Beekeeping,

Erin Mullins

2014 Missouri Honey Princess



Princess Erin

Radio frequency tags help study busy bees

Okay, maybe they're not *all* so busy ...

RFID Journal, July 31, 2014

In yet another research project aimed at better understanding the behavior of bees, scientists attached RFID (Radio Frequency Identification) tags to hundreds of individual honeybees and tracked them for several weeks. The scientists, including Gene E. Robinson, the director of the University of Illinois' Institute for Genomic Biology, who led the research, and citizen scientist Paul Tenczar, conducted the study to better understand the activity of individual bees within a hive.

The study's two key findings were that a few individual foraging bees are much busier than others, and that if those busy bees disappear, others will take their place. Tenczar developed the technique for attaching RFID tags to bees and tracking their flight activity via monitors. According to Tenczar, the RFID equipment used during the project was provided by PharmaSeq, based in Princeton, N.J., and included p-Chip microtransponders that measure 0.5 millimeter by 0.5 millimeter by 0.1 millimeter (0.02 inch by 0.02 inch by 0.004 inch) and weigh just 85 micrograms (0.000003 ounce).

The chips are unobtrusive enough for many insects to retain normal mobility after attachment, PharmaSeq reports. The p-Chip carries photocells that, when illuminated by laser light from a reader, provide power and synchronization signals for the chip's electronic circuits. Each p-Chip's memory is encoded with a unique serial number that is transmitted by an on-chip antenna via a 1 MHz RF signal. The chip's 30-bit memory capacity currently allows for more than 1.1 billion unique IDs, PharmaSeq reports. The p-Chips are manufactured on wafers in silicon foundries using processes (CMOS) similar to those used in the manufacturing of memory chips and computer processors.

The bee-tracking project also leveraged PharmaSeq's Reading Wand 8000, a small, handheld device capable of reading the IDs of individual p-Chips. Each ID is instantaneously read, with a range of up to 10 millimeters (0.4 inch), when the implanted p-Chip is placed in the beam of light emitted by the wand; the laser emits 5 to 60 mW of optical power at 660 nm. Partially transparent material, such as a layer of skin, plastic or frost, will not typically prevent tags from being read, according to PharmaSeq.



The chips were glued to the thorax of adult worker honeybees, and an apparatus with two wands was attached to the hive's front. As bees exited or entered the hive and moved through a tunnel, the wands read the tags. The study's findings have been reported in the *Animal Behaviour* journal. According to the University of Illinois, tagging the bees revealed that approximately 20 percent of the foraging bees within a hive brought home more than half of the nectar and pollen gathered to feed the hive.

"We found that some bees are working very, very hard—as we would have expected," Robinson said in a prepared statement. "But then we found some other bees that were not working as hard as the others." The National Science Foundation and the Christopher Family Foundation supported the research.



MSBA By-Laws - Proposed changes, continued

Continued from page 9

Section 4: Auditing Committee

- A. Shall be appointed by the President. May be a body of at least three (3) members, one (1) of the members being the incoming Treasurer.
- B. The outgoing Treasurer is not to be a member, but make himself available for questions by the committee.
- C. This committee is to audit the financial books of this Association for the previous year.
- D. Any discrepancies found in the audit are to be reported to the President after reasonable questioning of the Treasurer.
- E. The report of this committee is to be presented to the Executive Committee.

Article 8: Membership and Dues

Section 1: Membership in this Association shall consist of those interested in, or engaged in, beekeeping and paying dues as provided in these bylaws.

Section 2: ~~The membership year shall be from January 1 through December 31st.~~

[The membership year shall consist of the twelve (12) months following payment of membership dues.]

Section 3: ~~Membership in the Association shall cease upon failure to pay dues ninety (90) days after December 31 of any calendar year or to conform with the bylaws of the Association.~~

[Membership in the Association shall cease upon failure to pay dues ninety (90) days after expiration of membership dues, or failure to conform to the bylaws of the Association.]

Section 4: Membership allows an individual the privilege:

- A. To vote in any election and on any motion put forth at the meeting;
- B. Of recommending policy and amendment change;
- C. Of recommending Association activities;
- D. Of holding office;
- E. And of receiving the Association newsletter.

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

Section 6: ~~All dues are payable January 1st of each year.~~ [DELETE]

Article 9: Awards

The Executive Committee shall consider and select as agreeable a Missouri State Beekeepers Association member to receive the **Beekeeper of the Year Award**.

This award may be given to an individual with the following attributes:

- A. Do the most to promote the art of beekeeping
- B. Promote membership in the Association
- C. Promote the Association
- D. Publicize beekeeping and introduce the art of beekeeping to prospective future beekeepers
- E. Be an active member in good standing in the association
- F. Special awards may be given at the discretion of the Executive Committee.

Article 10: By-Law Review

~~The by-laws of this Association shall be reviewed/revised every five (5) years beginning in the year 2015, by a group of board and general members in good standing with the Association.~~

[The by-laws of this Association shall be reviewed for revision every five (5) years beginning in the year 2015, or as deemed necessary by the Executive Committee. The review/revisions shall be performed by a group of board and general members in good standing with the Association.]

Local Beekeeping Associations in Missouri

- 1 Beekeepers Association of the Ozarks**
4th Tuesday of each month, 7:00 p.m.
Darr Ag Center, 2401 S. Kansas Expwy, Springfield
Bruce Snavelly, President 417-732-5219
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 p.m. (but varies)
Henry County Courthouse, Clinton MO
Tom McCormick, President 417-644-7507
tlmccormick@mccormickcos.com
- 6 Jackson Area Beekeepers**
4th Tuesday of each month, 7:00 p.m.
First Pres. of Jackson, 206 E. Washington
Contact Grant Gillard 573-243-6568
gillard5@charter.net
- 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 of each month, 2 pm, Old Train Depot, St. James.
President Mat Woessner 573.308.7006
matt@inv-rel.com
- 10 Midwestern Beekeepers Association**
Most meetings: Fellowship Hall at Graceway, 5460 Blue Ridge Cutoff, Kansas City, MO 64133
Visit midwesternbeekeepers.org for calendar
Cathy Misko, President 660-656-3485
cathymisko@earthlink.net
- 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 of each month, 7:00 pm, Union
Location varies, contact below if unsure
President Calvin Brandt cvbrandt@landolakes.com
- 13 Parkland Beekeepers**
3rd Tuesday of month, 7pm, Ozark Federal Savings
President Gregg Hitchings glhitch@hotmail.com
- 14 Pomme de Terre Beekeepers**
2nd Thursday of each month, 7 pm
Missouri Extension Office, Hermitage
Contact Bessi Shryer 417-745-2527
- 15 SEMO Honey Producers**
2nd Thursday of month, Church of Christ, Poplar Bluff
Contact Cory Stevens 573-225-6935
wells.ernie@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
Kevin Young, President 417-847-5464
- 18 Southwest Missouri Beekeepers Assn. of Neosho**
1st Tuesday of month, Neosho High School FFA Bldg
President Roger Ross 417-472-3504
- 19 Three Rivers Beekeepers**
3rd Monday of month, University of Missouri Extension, 260 Brown Road, St. Peters, Missouri, 7:00 p.m.
For info: Eugene Makovec 314-703-7650
info@threeriversbeekeepers.com
- 20 Northwest Missouri Bee Busters**
2nd Monday of month, location varies,
visit nwmobeebusters.blogspot.com
or email beebusters2012@gmail.com
Gerald Auffert, President 660-944-2535
- 21 Lake of the Ozarks Beekeepers**
3rd Saturday of month, 1:00 p.m.
UMC Extension Office, 100 E. Newton, Versailles MO
Contact Garrett Blackwell 573-374-7402
- 22 Northeast Missouri Beekeepers Association**
1st Friday of month, 6:30 pm Running Fox Elementary (3 miles south of Wayland) Acting President
Randy Ewart 573-248-5561 rewart@centurytel.net
- 23 Gasconade Region Bee Keepers**
2nd Tuesday 7:00, First State Comm. Bank, Owensville
President Rod Weakley 573-746-0383
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 2:30 pm Bourbon, MO American Legion Hall
Contact Sam Elia 573-732-5597
- 27 Quad County Beekeepers**
1st Tuesday, 7:00 pm, Missouri Extension Office, Troy
Contact Fred Meder (573) 760-2574
quadcountybeekeepers.com
- 28 North Central Missouri Beekeepers Association**
1st Monday, Area Career Center, Macon, 7:00 pm
Contact Dan West (660) 651-7582, www.ncmobees.org
- 29 Bees Alive**
Springfield Contact Kristi Mitchuson (417) 886-8585
- 30 Wright County Beekeepers**
2nd Thursday, Laclede Electric building, Hartville, 6:30 pm
Rick Bledsoe, President 417-350-2257
wrightcountybeekeepers@gmail.com
- 31 Rolla Bee Club**
4th Tuesday, Rolla Public Library, Rolla, 6 pm
Contact Charlotte Wiggins 573-364-1908 evenings
chargardens@gmail.com
- 32 Swarm Chasers**
% MO Dept. of Conservation, 701 McCarthy Dr., St. Joseph
Contact Shannon Holcomb 816-261-8647
holcomb_shannon@yahoo.com

**MSBA Membership Application**

Name _____ Spouse's Name _____
 My local association is _____
 Address _____
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 Phone Number _____ Email _____

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continued from page 5

Booth volunteers needed:

But if you want to get in for free, please consider volunteering at our MSBA Booth this year. The booth is in the air-conditioned AG Building on the southeast side of the fairgrounds. (A fairgrounds map is available at <http://www.mostatefair.com/wp-content/uploads/2014/01/2014-prem-guide-map-true-size.pdf>.) If you sign up to help, your admission ticket can be picked up at the RED Caboose located on Hwy 65 (outside the fairgrounds), just North of Gate #11. Go onto the fairgrounds at this entrance and park your vehicle.

We need five to six people in the booth each day - 9 a.m. to 9 p.m. As always, we encourage local clubs to sign up to run the booth for a day, sporting their own club logo apparel if desired.

Call Dean Sanders (816-456-4683) or Steve Harris (314-805-6451) and sign up for as many hours/days as you can. Arrangement for overnight accommodations nearby is available for you to reserve dates of your choice.

Jobs in the booth include answering questions at our observation hive, selling honey, ice cream, honey sticks and other honey related by-products, plus educating the public about the Honeybee. If you've never worked at or been to the Fair, try it for a day. You get to meet and work with other beekeepers, and Dean and Steve or other experienced workers will be there to help answer any of your questions. See you at the Fair!

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Vice President: Valerie Duever 314-402-4841
2362 County Road 185, Auxvasse MO 65231
vicepresident@mostatebeekeepers.org

Secretary: Charlotte Wiggins 573-364-1908
secretary@mostatebeekeepers.org
1001 Bluebird Ln, Rolla, MO 65401

Treasurer: Steve Moeller 573-886-0662
PO Box 7514, Columbia MO 65205
treasurer@mostatebeekeepers.org

Membership Chair: Ron Vivian 816-690-7516
443 Fricke Road, Bates City MO 64011-8280
membership@mostatebeekeepers.org

Past-President: Grant Gillard 573 243-6568
3721 North High Street, Jackson MO 63755
pastpresident@mostatebeekeepers.org

Northwestern Director: Roger Nichols
cell 816-456-6983
northwestdir@mostatebeekeepers.org

Northeastern Director: Steve Harris 314-805-6451
1224 Sherbrooke Road, St. Charles MO 63303
northeastdir@mostatebeekeepers.org

Southeastern Director: Cory Stevens 573-225-6935
PO Box 214, Dexter MO 63841
southeastdir@mostatebeekeepers.org

Southwestern Director: Bruce Snavelly 417-732-5219
508 Casady, Republic, MO 65738
southwestdir@mostatebeekeepers.org

Central Director: Bob Brammer 660-415-6480
31649 Lake St., Macon MO 63552
centraldir@mostatebeekeepers.org

Program Chairperson: Open
program@mostatebeekeepers.org

Vendor Liaison: Tim Hyde
tim.hyde@yahoo.com

Newsletter Editor: Eugene Makovec 314-703-7650
135 Alex Dr., Foley MO 63347
editor@mostatebeekeepers.org

Auxiliary Chairperson: Dolores Vivian 816-690-7516
443 Fricke Road, Bates City MO 64011-8280
auxiliary@mostatebeekeepers.org

Queen Chairperson: Wanda Johnston 816-392-4960
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Besides being a beautiful addition to a yard or garden, Borago officinalis hums with honeybees for several weeks in mid-summer. Though I have not seen any sign of pollen-gathering, this attractive annual undoubtedly secretes sufficient nectar to keep them coming back for more.

Humans have also found numerous uses for borage. Its leaves are used in salads, its flowers as garnish or sugar-coated candy, and its oil in health food supplements as a source of gamma linolenic acid. But mostly, it's a feast for the eyes!

photo 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

Classified Ads: Advertise one to three beekeeping-related items in a one-line ad at no charge. This service is for non-commercial MSBA members only, and is limited to one ad per item per calendar year.

Honey Trading Post: This is a free service to members wishing to buy or sell honey on a wholesale basis. Just email or call the editor with contact information and whether you are buying or selling. Pricing is between the interested parties.