

Missouri State Beekeepers Association



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State Fair Entries Due Soon

By Wanda Johnston

The Missouri State Fair apicultural entries will be accepted this year on Monday August 7, 2017 between the hours of 8:00 AM and 5:00 PM. Judging will be on Tuesday which gives the State Fair Committee time to set the booth up on Wednesday the day following the honey and apiculture judging. The fair officially begins on August 10th through the 20th.

All information including the entry classes and the competition registration forms are available on www.MoStateBeekeepers.org website. Remember as a competitor you are considered a Vendor by the Department of Agriculture. So you will need to sign the form at both signature places. Also they encourage you to give them your bank routing information; if you prefer not to give this information to them your check will be delayed but you will eventually receive it by US Postal Service.

Dean Sanders is taking names of those interested in working at the MO State Beekeepers Association Fair booth. Dean may be reached at 816 456-4683. Several clubs have signed on for the full day which is greatly appreciated! If you wish to sign on as a group or as an individual please contact Dean to reserve your place and ticket for entry into the MO State Fair in Sedalia, MO.

The MSBA will also recognize at the Fall Conference MSBA members who won State Fair classes. The MSBA will award \$200 to the outstanding MSBA member exhibitor in Division A who won the Grand Champion Ribbon. Matching monetary awards will be given to MSBA members who place first in Divisions A and B Classes.

We hope to see you at the Missouri State Fair and good luck to the competitors for Apicultural Grand Champion!



Missouri State Fair

SEDALIA 17
AUG 10-20

From the President

by Clayton Lee

It was dry in northwest Missouri – we just got 3 inches of rain! I was worried that we would slip into the dearth early this year. My honey bees are going full speed making honey for us to enjoy!!

I received an interesting email from a friend that explained second lady Karen Pence and secretary of agriculture, Sonny Perdue recently installed a beehive in Washington DC. <https://goo.gl/2PzwY9>.

Some of you may already know, but the University of Missouri's Master Beekeeper program is in a state of flux. As we understand it, the current leadership will be cut due to low finances at the end of August 2017.



We encourage beginning beekeepers to obtain their basic training and mentoring from local clubs/associations. If there are partnering opportunities in the near future MSBA is going to do our best to be connected.

Also, feel free to let me (or anyone on the Executive Committee) know what you would like to see MSBA accomplish in the next year. If there is a specific speaker you would like to see at one of our conferences or ideas on how to change things, let me know. My email is leeland55@gmail.com.

I hope your days will be filled with great times with honey bees!

A Quick Thank You...

A note from the Oldlywed's (opposite of newlyweds): Thank you everyone for your Anniversary Good Wishes sent our way. It's been an interesting journey all these years and we really do appreciate all of you for your kindness and friendship. Hope to see you at our next conference.

Bee Blessings,
Ron and Dolores Vivian

MSBA Best Management Practices Developed

Missouri State Beekeepers Association has recently developed a set of Best Management Practices for people who are currently keeping bees or planning to begin keeping bees in Missouri. View the BMPs by visiting <http://mostatebeekeepers.org/best-management-practices/>

Don't forget to also regularly check the Missouri State Beekeepers Association's website. Join a local beekeeping organization, we have about three dozen that meet regularly in the Show-Me state. Learn from others and when you can, give back.

MSBA Membership

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

With the change of the website some folks have renewed well in advance of their membership expiration. You should now receive notice the month preceding your membership expiration. While the website is going through growth spurts please contact me if you have questions regarding your membership. Some of you have paid until 2019! Thank you for supporting MSBA!

Wanda Johnston
MSBA Membership
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Make Your Nominations for 2017 MSBA Awards

If you know of someone who deserves some recognition for their work as a beekeeper, take a few minutes and nominate them for a Missouri State Beekeepers Association Award. Nominations may now be made for the following 2017 MSBA Awards:

- Lifetime Achievement Award
- Beekeeper of the Year
- Junior Beekeeper of the Year
- Mentor of the Year

Nomination submissions must identify the MSBA member or association making the nomination and the person being nominated, and provide adequate information to demonstrate that the nominee meets the award criteria listed below. There are no minimum or maximum length requirements, but it is recommended that the description of qualifications be sufficiently extensive to permit an informed comparison against other nominees for the award. Winners will be announced and the awards presented at the MSBA Fall Conference.

The MSBA will also recognize at the Fall Conference members who won State Fair classes. The MSBA will award \$200 to the outstanding MSBA member exhibitor in Division A who won the Grand Champion Ribbon. Matching monetary awards will be given to MSBA members who place first in Divisions A and B Classes.

The MSBA Executive Committee will also consider other possible awards this year, such as the MSBA Volunteer of the Year and State Fair Volunteer of the Year.

1. Lifetime Achievement Award:

- Active MSBA member who has given many years of service in promoting the art of beekeeping, promoting the MSBA, mentoring beginning beekeepers, assisting other beekeepers, and actively volunteering in support of MSBA activities
- Nominated by Executive Committee, a local association or a MSBA member

2. Beekeeper of the Year:

- Did the most to promote the art of beekeeping
- Promoted membership in MSBA
- Promoted the MSBA
- Publicized beekeeping and introduced the art of beekeeping to prospective future beekeepers
- Was an active member in good standing in the MSBA
- Nominated by a local association or MSBA member
- Not a member of the MSBA Executive Committee

3. Junior Beekeeper of the Year:

- Age 18 or younger
- Enthusiastic beekeeper
- Has been a beekeeper for at least 1 year (i.e., at least a second-year beekeeper)
- Promotes beekeeping
- Good peer-group role model
- Nominated by a local association or MSBA member

4. Mentor of the Year:

- Actively promoted beekeeping by teaching and guiding new beekeepers in the art of beekeeping
- Was an active member in good standing in the MSBA
- Nominated by a local association or MSBA member
- Not a member of the MSBA Executive Committee

Nominations must be submitted by September 1, 2017. Submissions are to be made via email to Bill Allinder (william.allinder@gmail.com), Dan Lake (DanoDClwn@aol.com), and Bob Brammer (rbrammer@cvalley.net).

Updates on 2017 Fall Conference

We hope you're making plans to join us in Springfield for the Missouri State Beekeepers Association Fall Conference, October 27 – 28. We believe we have an extraordinary lineup of speakers, presentations, and extra events to make this a unique Fall Conference in the beautiful University Plaza Hotel and Convention Center.

Our speakers include...

Dr. Meghan Milbrath from Michigan State University. She owns and manages The Sand Hill Farm, a small livestock and queen rearing operation in Munith, Michigan. She began working bees with her father as a child over 20 years ago, and has been hooked on bees since. She is the coordinator of the Michigan Pollinator Initiative at Michigan State University, where she also recently worked as a postdoctoral research associate in the Entomology Department, studying honey bee disease with Zachary Huang. She is an active member in the South East Michigan Beekeeping Association, the Center of Michigan Beekeeping Association, is the district 2 representative for the Michigan Beekeeping Association, is the acting president of the Ann Arbor Backyard Beekeepers and the coordinator of the Northern Bee Network, an organization dedicated to promoting sustainable beekeeping in northern climates. Some of the topics she will speak on include a Management Plan of Varroa Mites and Small-Scale Queen Rearing.



Erin McGregor-Forbes is an EAS Master Beekeeper, past-president of the Maine State Beekeeper's Association (MSBA), as well as Chairman of the Eastern Apicultural Society. She is an engaging-speaker and will speak on Winter-Survivability of Nucs, Small-Scale Queen Rearing; and present on her 2-year SARE demonstration study, in which Erin evaluated

the strength, survivability, and honey production of requeened packaged colonies compared to northern-produced nuclear colonies (aka "nucs") and southern-



produced packaged colonies. She will also lead a hive inspection in Springfield at Urban Roots CSA Farm.

Dr. Judy Wu-Smart, Entomology Extension Specialist with the University of Nebraska. Her work in the UNL Bee Lab pursues research questions and



extension programs focused on better understanding various stressors impacting pollinator health in both managed and wild bee communities. The lab also focuses on integrating research findings to mitigate stressors and

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Additional Details

Dates: October 27th & 28th

Location: University Plaza Hotel & Convention Center, Springfield, MO

Cost: \$80 per person

Includes 3 meals at University Plaza Hotel (Friday Evening Banquet, Breakfast & Lunch Saturday)

Lodging: \$104 per night

Make reservations by visiting <https://goo.gl/TQNwfr>

Questions or Comments:

Email Bruce Snavelly at brucesnavely@hotmail.com

Missouri State Beekeepers Association

2017 Fall Conference

October 27 - 28, 2017

University Plaza Hotel, 333 S John Q Hammons Pkwy, Springfield, MO, 65806

Online Conference registration at www.MOStateBeekeepers.org will earn you two (2) FREE tickets for prize drawing!!! You can pay your dues online, too. Thank you!

Regular mail registration (Please print name as you prefer on name tag):

First Name: _____ Last Name: _____

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

Email: _____ Telephone: (____) _____

Your Local Beekeeping Club/Association: _____

Conference Cost: \$80 each and includes 3 meals at the University Plaza Hotel for Friday evening's Banquet, Saturday's Breakfast and Lunch. Please note this fee does not include membership dues.

Registrations submitted on-line or postmarked date – Before October 1, 2017

Individual Registration: \$ 80.00 X _____ = _____

Registrations submitted on-line or postmarked date – On or After October 1, 2017

Individual Registration (All meals are not guaranteed w/late registration) \$ 80.00 X _____ = _____

So, You Wanna Be a Beekeeper (designed for people exploring beginning beekeeping)

Taught by Area Club Presidents on Friday – 12:30 to 4:30pm ..\$0.00 X _____ = No Charge

Preconference Events (Each event limited to 25 attendees-2 groups of Hive Inspections)

Hive Inspections w/Erin McGregor-Forbes.....\$0.00 X _____ = No Charge

Microscopy of Bees* w/Tom Coudron, PhD & Maciej A. Pszczolkowski, PhD \$0X _____ = No Charge

* Priority given to Spring 2016 attendees

Other

Honey Queen/Ambassador Fund Donation (\$10.00 Suggested): _____

Silent Auction and Banquet Auction Items – please bring to the Fall Conference – Thank you!!

TOTAL AMOUNT ENCLOSED: \$ _____

If you have any questions, please email Bruce Snavelly Conference Chairman brucesnavely@hotmail.com

If you cannot register online, please make checks payable to the **Missouri State Beekeepers Association** and send it along with your completed registration form to: **Clayton Lee, 90 East Pope Lane, Smithville, Missouri 64089** If you provide an email, we will send you an acknowledgment of your registration.

Please contact the University Plaza Hotel at (417) 864-7333 and tell them you are with the MSBA. You can reserve your rooms now by clicking on this link: <http://bookings.ihotelier.com/bookings.jsp?groupID=1747347&hotelID=17728>

Remember the hotel discount cutoff date is September 24, 2017. Thanks!

Propolis

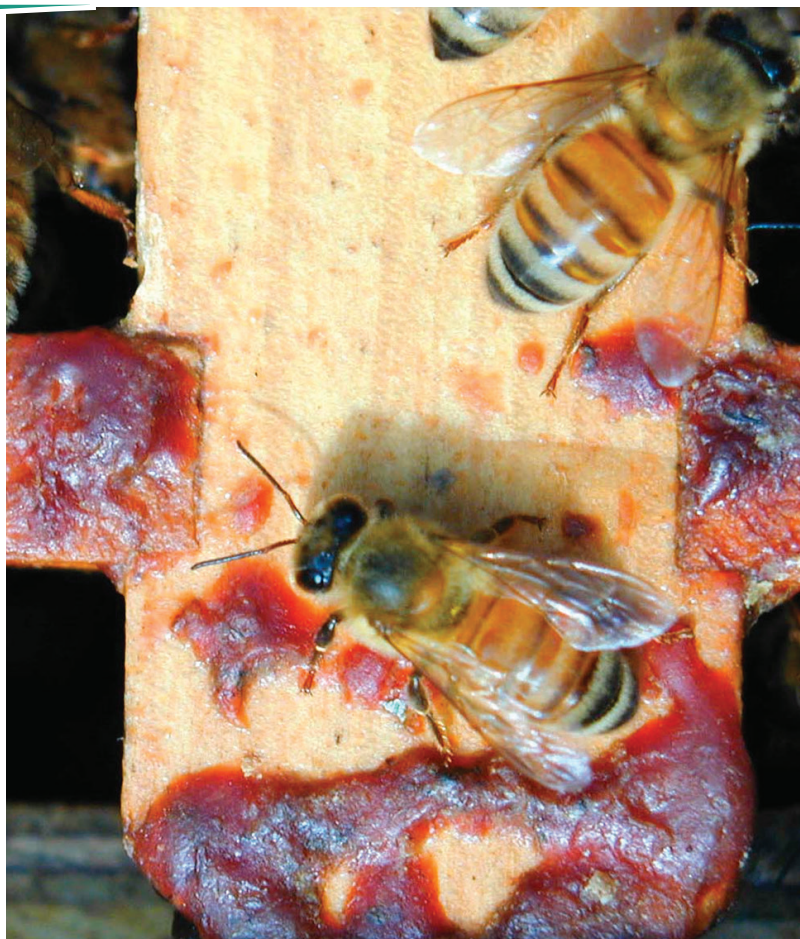
“Outskirts of a City”

By: Tom Coudron

The word propolis originates from the Greek language; pro (for “before”, or “in front of”, or “at the entrance of”) and polis (for “community” or “city”). It is speculated that the word was crafted to describe the structure observed around the entrance to a hive (that which serves as a city for bees). Today, propolis is an apicultural term referring to the resin-like material found in bee hives that seemingly serves as a filler and adhesive; hence the epithet “bee glue”.

What is in propolis and where does it come from?

The earthy-colored, gummy and balsamic material is made by bees from plant-derived substances. Bees collect the substances from different parts of plants (flowers, buds, plant wounds, and exudates) and mix them with beeswax to form propolis. (Bees have been reported to injure plants to stimulate release of substances used in propolis^[1]). Generally, raw propolis is composed of 50% plant resins, 30% waxes, 10% essential and aromatic oils, 5% pollen and 5% other organic substances^[2]. However, the composition of the plant source determines the chemical composition of propolis, and hence, it varies by geographic location, climatic zone, local flora, genetic variability of the queen bee, and the season. So, there isn’t a specific formulation of ingredients, but chemical content may serve to confirm its origin. In fact, over 500 chemical components have been identified in propolis samples from various



locations^[3], although, the main substances are flavonoids, phenolics, terpenes, lignans, and aromatic compounds. Volatile substances including terpenoids, like the sesquiterpene alcohol-eudesmol (also found in leaf buds), give propolis its pleasant aroma.

How do bees use propolis?

The most obvious use of propolis by bees is to coat hive parts, seal cracks and crevices in the hive and make the hive entrance weathertight and easier to defend. Less obvious use is to repair comb, strengthen the thin borders of the comb, and to embalm the carcass of a hive invader that cannot be transported out of the hive. Recently, numerous biological properties of propolis have been reported which is challenging researchers to widen their perspective of the functions propolis serves for bees. For example, given the antimicrobial characteristics (common attributes of flavonoids) it is reasonable to conclude that propolis lowers the incidence of microorganisms within the hive^[4]. New discoveries are likely to credit bees with using propolis to self-medicate via assisting their immune system (including social immunity),

Did You Know?

Propolis is used by some string instrument makers (violin, viola, cello and bass) as a varnish ingredient. Some workers use it to seal the surface of newly made bridges. Propolis was purportedly used by Antonio Stradivari in the varnish of his instruments.

Source: Gambichler T; Boms S; Freitag M (April 2004). “Contact dermatitis and other skin conditions in instrumental musicians”. BMC Dermatol. 4: 3. PMC 416484 Freely accessible. PMID 15090069. doi:10.1186/1471-5945-4-3

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Propolis - “Outskirts of a City”

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free radical scavenging, and providing cytotoxic and antiviral protection^[5].

How do humans use propolis?

We have extended the uses of propolis since early times^[6]. The biblical word “tzori” is thought to be an early word for propolis. Early Egyptians applied the antiseptic properties of propolis to embalm human cadavers. The Greek encyclopedic inventory, *Historia Animalium*, made reference to propolis as a cure for bruises and discharging sores. Romans used propolis as a soft paste applied to sores. The Incas used propolis to reduce fevers. By the Middle Ages propolis was being used as an antiseptic, mouth disinfectant, and to promote wound healing. By the seventeenth century propolis was listed in the *British Pharmacopoeia* as an official drug and by the twentieth century it had become a popular antibacterial agent in Europe^[7]. In addition to serving as an adhesive, sealant, and wood protectant, we also use propolis as an antiseptic, antioxidant, and anti-inflammatory because of the wide range of biological activities. Chemical Abstracts first indexed propolis in 1903. The first patent was described in 1904 (USA – Composition for treating pins and piano strings). Today, 42% of patents on propolis are from China, followed by Japan and Russia. The current trend of patent submissions is for medicinal,

nutraceutical and dermatological applications [8]. By 2013 there were 3,880 journal publications and 2,884 patents on propolis [9], with no end in sight!

1. Teixeira, É. W., Negri, G., Meira, R. M. and Salatino, A. 2005. Plant origin of green propolis: bee behavior, plant anatomy and chemistry. *Evidence-Based Complementary and Alternative Medicine*. 2, 85-92.
2. Thomson, W. 1990. Propolis. *Medical Journal of Australia*. 153, pp. 654.
3. Bankova, V. S., de Castro, S. L. and Marcucci, M. C. 2000. Propolis: recent advances in chemistry and plant origin. *Apidologie*. 31, 3-15.
4. Banskota, A., H., Tezuk, Y. and Kadota, S. 2001. Recent progress in pharmacological research of propolis. *Phytotherapy Research*. 15, 561-571.
5. Simone-Finstrom, M. and Spivak, M. 2010. Propolis and bee health: the natural history and significance of resin use by honey bees. *Apidologie* 41, 295-311.
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7. Castaldo, S. and Capasso, R. 2002. Propolis, an old remedy used in modern medicine. *Fitoterapia* 73, S1-S6.
8. Suárez, D., Zayas, D. and Guisado, R. 2005. Propolis: patents and technology trends for health applications. *Journal of Business Chemistry*. 2, 119-125.
9. Toreti, V. C., Sato, H. H., Pastore, G., M. and Park, Y. K. 2013. Recent progress of propolis for its biological and chemical compositions and its botanical origin. *Evidence-Based Complementary and Alternative Medicine*. <http://dx.doi.org/10.1155/2013/697390>

2017 Fall Conference Updates

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inform sustainable pollinator-friendly policies as well as develop practical applications for integrated pest management in managed bee colonies. She will speak on Assessing Hives and will include material related to pesticide exposure on colonies.

Two Pre-Conference events on Friday morning include hive inspections with Erin McGregor-Forbes at a local apiary run by Jeff Maddox from Springfield at

Urban Roots Farm in downtown Springfield. Also Dr Tom Coudron from the USDA ARS laboratory in Columbia MO and Dr Maciej A. Pszczolkowski from the MSU Fruit Experiment Station in Mt Grove MO will both lead a Part 2 extension from our 2017 Spring Conference on Microscopy of Bees. Both of these opportunities can accommodate 25 conference attendees in each session due to space and focus.

Mineral Area College Now Bee Campus USA

This article is courtesy of The Daily Journal, Park Hills, MO

Mineral Area College is buzzing with the news that the Park Hills-based community college has been recognized as the 24th educational institution, and the fourth community college in the nation, to be certified as an affiliate of the Bee Campus USA program.

The program, according to Bee Campus USA, is designed to marshal the strengths of educational campuses for the benefit of pollinators. If that sounds somewhat bee-wildering, here's a clearer explanation ...

"What that means is that we have a partnership with Parkland Beekeepers in which we have integrated knowledge of insects and pollinators into our curriculum which we have done through our pest management course," said Dr. Chad Follis, MAC horticulture instructor. "Then we also have a habitat on campus — we specifically have three beds targeting pollinators, bees and butterflies.

"Finally, we have a public outreach which we do through a whole host of things like plant sales; the winter conference where we work with Parkland Beekeepers; and the Master Gardeners always have a native component to their event and we partner up on those."

According to Follis, the only other school in the state with a similar program is the University of Missouri.

"So, that gives you a comparison of what scale we're talking on," he said. "It is sort of a unique thing. We're all aware of pollinators and food shortages and pesticides and a whole host of things. For example, the habitat for monarch butterflies has diminished

dramatically. What's unique about us is that we are in the exact center of the route they take as they come up through Texas.

"They kind of bend through our area and then over to the East Coast and then to Upstate New York, Michigan and so on. We're right in the middle of one of their stages. So they get to our point and they lay a lot of eggs.

"There will be a whole host of butterflies molting and evolving and then they continue on north. We're also on their stop on the way back through on the way to Mexico for their wintering grounds. So, we are really a roadside stand both coming and going for the migration of monarchs each year."

Follis noted that modern society has created a problem in making it more difficult for the monarchs to find food to eat on their journey.

"We've cleared lands, we've cleared fence rows," he said. "It used to be that every farmer had a fence row in between the neighboring farm. Well, you don't have

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Turn Your Honey into Profitable 'Stix' Locally

Anybody who sells or buys honey is probably familiar with "honey stix." They are straws filled with delicious honey and sold at various events, farmers markets and the Missouri State Fair.

In the past, honey stix were produced in the state of Oregon. Last fall, Domenic and Nancy Giofre decided it was time to look for a machine to produce them here in Missouri. Well, the machines in Oregon were designed and built by the company that produces the stix, and give them credit, they did an excellent job! Turns out, they won't sell the machines, and its way too expensive to design and build.

Nancy gave up, but Domenic plowed on. He came up with the idea of checking into sheltered workshops, to see if they could fill stix with honey. They have a certified kitchen and all the requirements necessary to produce and market stix. Domenic found the Pulaski County Sheltered Workshop and they are thrilled to have the work.

They have agreed to set the price at 10 cents per stick, and bulk pack for Missouri beekeepers. If the beekeeper would like them packaged and labeled, that will have to be discussed with them.

We think this is a fantastic opportunity for Missouri Beekeepers, and hope they will patronize the shop and keep them busy!



PCSW's Harvested Here Kitchen Processing Honey Straws for Missouri Beekeepers

Richland, MO – June 6, 2017 – The Pulaski County Sheltered Workshop (PCSW) is proud to now offer full scale processing and packaging for local, Missouri honey producers and beekeepers at our Harvested Here Kitchen centrally located in Richland, Missouri. PCSW is a registered non-profit and provides meaningful and enriching employment opportunities to the developmentally and physically disabled members of our community.

PCSW's Harvested Here Kitchen, funded in part by a USDA Farmers' Market Promotion Program grant, opened in April 2017 as the only processing and packaging facility in the state uniquely meant to serve Missouri's small and mid-sized producers. The Kitchen at PCSW is staffed by a highly skilled differently-abled workforce with over 100 years combined experience in quality assurance, regulation compliance, and strict production deadlines. The Kitchen is state inspected, has two full-time food safety managers on staff, and observes HACCP-based record keeping and food safety guidance.

Interested producers may contact PCSW's General Manager, Lacie Karr, via phone or email for more information.

CONTACT INFO

Lacie Karr

Phone: 573.765.2500

Web: www.pcsw.org

Email: pcsw2@outlook.com

Mineral Area College Now Bee Campus USA

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that anymore. We can GPS farms right up to an inch of each other. So, we're losing milkweed and a lot of other plants that the monarch relied on."

So, to put it simply — MAC's monarch waystations are similar to fast food restaurants for butterflies.

"They revolve around the planting of specific types of milkweeds in areas that would be conducive to them 'pulling off, getting a burger and then moving on north,'" he said. "That's kind of what you would equate it to. It's like we pull off at a restaurant to eat and then move on up the road.

"So, we're one of those stops. We've dedicated three beds on campus to doing that. That's how we've integrated both the bees and the pollinators-side with the monarchs in our program here on campus. That's also how we've been able to get monarch and bee status — the way we've integrated everything in."

Asked how bees became "members" of the MAC campus community, Follis said, "Several years back I tried to get bees on campus. I thought that it would be kind of fun because obviously we don't have a working farm — we don't have cows and pigs and all that kind of stuff — and there's no real desire to do that except for me and [Agribusiness Professor Alan Bayless] on campus. Nobody else is all that thrilled about that. So, I thought bees would be kind of fun — seeing all these issues that directly relate to the food we eat every day. It's unbelievable how much of our food is pollinated."

Follis recalled an experiment conducted by Whole Foods several years ago where the importance of pollinators to the world's food supply was made obvious.

"They stocked their shelves of all their food and then pulled out any product that required pollination by an insect and it was like a third of the things were left on the shelf," he said. "So that's what we're trying to promote.

"We work with the 25 Gardeners garden club and we were able to get some grant money through the Missouri Department of Conservation because they

have a pollinator program going on. So we took that money and worked with the 25 Gardeners and leveraged those two together — along with the Federated Garden Club of Missouri — and that's how we ended up with the beds we have on campus.

According to Follis, the beds are planted in such a way that they will bring in early season pollinators.

"You're also getting those mid-season pollinators, those fall pollinators — so we're getting the whole gamut. We have things coming up in our beds by the first of March and then we have stuff all the way through mid-November.

"That's what we need — to think about our landscapes in the concept of early — just like there are early blooming flowers like daffodils, there's pollinators for that — bees and little wasps.

"We think more commonly of the butterflies and honeybees. Then, at the end of the year, you have things like goldenrod and ragweed, which we don't love because of allergies, but the goldenrod is unbelievable. I almost want to call goldenrod the plant that gets the bees through the winter. They pack that away and that's the honey they're making late in the fall that they store and eat all winter to get back to the spring."

Parkland Beekeepers Association member Greg Hitchings, who also serves as area representative for the Missouri Beekeepers Association, had nothing but praise for MAC's program.

"Parkland Beekeepers has had a great association with MAC because of all the support they provide us," he said. "It's a real good opportunity to get some mentoring about handling bees. We share some equipment. Beekeepers who join Parkland Beekeepers have access to extracting equipment that is kind of co-shared by our organization and MAC. It's just been a great benefit to the local area beekeepers that we have here.

"We know that it's pretty tough for a person to go out and start beekeeping," he said. "Traditionally it's

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Mineral Area College Now Bee Campus USA

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always been done by family members. When I started in the 1960s, you had relatives and neighbors who kept bees and there was a natural mentorship there. That's significantly changed. Beekeeping has significantly changed because of the issues Chad mentioned — and we keep hitting new issues as we go along.

"It's important to stay up on the latest issues that beekeepers are encountering, so it's pretty hard just to take up the craft and be successful. Parkland Beekeepers have teamed up with MAC and they've been a great, great help to us. They provide the rooms for the different sessions that we have. We have a monthly regular meeting of the Parkland Beekeepers Association. Then the first Tuesday of most months through the summer we work with people who are just beginning beekeeping."

And if all these honors and accolades weren't enough, Follis has received one more piece of good news.

"We applied to the Missouri Vocational Agriculture Teachers Association for 'Outstanding Postsecondary Ag Program,'" he said. "We received notice recently that we were voted the number one postsecondary ag program in the state of Missouri. We're very excited about that and I think it's all part and parcel to what we do.

"Our ag program is way more diverse than people think because you have your ag business, you've got livestock with Mr. Bayless, you've got plants and the greenhouse and those things with us. We've got the partnership with the 25 Gardeners, the Parkland Beekeepers and the Master Gardeners. So, our program might be small in numbers, but it's a really diverse program. I think that diversity has and will continue to help our students moving on."

Follis said he will be attending the state conference being held in Springfield, Missouri, next month and is "looking forward to bringing the plaque back home to the Mineral Area."

Wax Moth Control

Wax moths are a destructive beehive pest. A strong colony with a large population of young housekeeping bees is the best defense against them. Another control measure is to fumigate small amounts of equipment in large plastic garbage bags.

Wax moth colonies do not thrive in light and fresh air, so a rack that exposes hive components to ventilation and protects them from rain is ideal. You can also kill a small population of eggs, larvae and pupae by placing the entire super in a large freezer for two days. As a last resort, you can fumigate with paradichlorobenzene moth crystals (not naphthalene or moth

balls) before placing them back on. To fumigate, stack equipment as on a hive, seal up all air holes, and put the stack on a flat surface. Put a piece of notebook paper over the top frames to hold the fumigant on the stack. Put a sheet of plastic over the fumigant, and cover the entire stack with a flat board or telescoping cover. Seal side cracks between the supers with tape. Two tablespoons of paradichlorobenzene will fumigate eight supers or four hive bodies. Before using the supers next season, set the frames outside one full week to air out.

Source: Beekeeping Tips for Beginners, Moneen M. Jones, University of Missouri Extension; <http://extension.missouri.edu/p/g7600>

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(660) 415-6480 • rbrammer@cvalley.net

**Southeast Region Director –
Gregg Hitchings**

Iron County
2187 County Road 53, Belleview, MO 63623
(573) 880-2899 • gregghitchings@gmail.com

**Northwest Region Director – Roger
Nichols**

Jackson County
8754 E 83rd Street, Raytown, MO 64138
(816) 353-1963 • sfthf@aol.com

**West Central Region Director – Ray
Shadow**

Miller County
Iberia, MO
(573) 286-5289 • shad1_65026@yahoo.com

**East Central Region Director –
Charlotte Wiggins**

Phelps County
1001 Bluebird Lane, Rolla, MO 65401
(573) 426-3510 • msbacharlotte@gmail.com

Queen/Ambassador Chair – Vacant

Missouri Beekeepers Association Local Associations

1. Beekeepers Assn of the Ozarks

4th Tuesday, 6-9 p.m., Seminole Baptist Church, 4221 S. National Ave. Springfield MO 65810

Jeffrey Maddox, President maddox65804@yahoo.com
www.ozarksbeekeepers.org

2. Bees Alive

1st Thursday, 7-9 p.m., Central Bank of the Ozarks, 502 W. Mt. Vernon St., Nixa, MO 65714

Dan Barton, dannyohboy@hotmail.com
www.beesaliveclub.org

3. Bolivar Bee Club

1st Monday of each month from 6-7:30 p.m., County Library, Bolivar

4. Boone Regional Beekeepers Assn

3rd Sunday, 3:00 p.m., Columbia Insurance Group, 2102 Whitegate Dr. (back door), Columbia

Jim Duever, President, 573-254-3373
www.boonebees.org

5. Busy Bee Club

4th Tuesday, 7:00 p.m., Cedar County Health Center, Owens Mill Road, Stockton

Neal Lee, 417-276-3090 • Neil Brunner, 314-276-4252

6. Dexter Bee Club

1st Tuesday, 6 pm, Scott Ladden's house, 9265 County Road 627, Dexter

Cory Stevens, 573-225-6935, corystevens00@yahoo.com

7. Eastern Missouri Beekeepers Assn

2nd Wednesday, 7 pm, location changes.

Bob Sears, President, 314-479-9517
www.easternmobeekkeepers.com

8. Gasconade Region Beekeepers

2nd Tuesday, 7 pm, First State Comm. Bank, 308 W. Lincoln Avenue, Owensville

Chris Bilbrey, 573-692-0698, twaace01@fidnet.com

9. Golden Valley Beekeepers

2nd Monday, 7-8:30 pm, Golden Corral, Clinton MO.

Jerry Perry, President, 660-383-1355,
jamiebperry711@yahoo.com
www.goldenvalleybeekeepers.com
<https://www.facebook.com/groups/899383406850376/>

10. Greenhills Bee Club

4th Monday, 7 pm, American Legion Hall, Braymer

J.R. Hess, 660-233-9577, jrhes11@gmail.com

11. Iberia Area Beekeepers

3rd Tuesday, 6:30 pm, Iberia Library

Ray Shadow, 573-286-5289, trynbeez@outlook.com
www.facebook.com/trynbeez/

12. Jackson Area Beekeepers

4th Tuesday, 7 pm, First Presb. of Jackson, 206 E. Washington

Grant Gillard, 573-243-6568, gillard5@charter.net

13. Jefferson Co Beekeepers Assn

2nd Tuesday, 7:30 pm, Hwy B & 21, Jefferson Co Extension Ctr, Hillsboro

Marvin Hook, 636-274-1759

14. Joplin Area Beekeepers Assn

Last Tuesday, 6 pm, SM Bank Community Bldg (7th & Duquesne Rd), Joplin

Dale Foley, 417-850-0285
contact@joplinareabeekeepers.com

15. Lake of the Ozarks Beekeepers

3rd Saturday, 1:00 pm, Square Deals Ice Cream Shop, Versailles

Garrett Blackwell, 573-374-7402

16. Mark Twain Beekeepers (Dent County)

3rd Monday, 6-8 pm, Contact for meeting locations

Terry Phelps, 573-729-3333 • Gregg Tivnan,
573-689-2254, greggtivnan@yahoo.com

17. Meramec Valley Beekeepers

1st Sunday, 2 pm, Peace Lutheran Church, Sullivan

Sam Elia, 573-732-5597, samnora1@gmail.com
Laurie Rose, laurierose1219@yahoo.com

18. Mid Missouri Beekeepers

3rd Sunday, 2 pm, Old Train Depot, St. James.

Don Moore, 573-265-8706, dlmoore2@centurytel.net

19. Midwestern Beekeepers Assn

3rd Sunday of the month, Bass Pro Shops in Independence MO. Visit midwesternbeekeepers.org for meeting calendar

Bob Williams, President, thebeltonbee@gmail.com
www.midwesternbeekeepers.org

20. Mississippi Valley Beekeepers Assn

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

21. Missouri Valley Beekeepers Assn

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

22. North Central MO Beekeepers Assn

1st Monday, 7 pm, Macon High School, Macon
Bill George, 660-214-0132, georges@chbeekeeping.com
www.ncmobees.org

23. Northeast Missouri Beekeepers Assn

1st Friday, 7 pm, Clark Co Courthouse, Lower level,
Kahoka (3 mi S of Wayland), location may vary
Randy Ewart, 573-248-5561, rewart@centurytel.net

24. Northland Beekeepers

3rd Tuesday (usually), 7 pm, Smithville Library, Hwy 169
Clayton Lee, 573-864-5172, leeland55@gmail.com

25. Northwest Missouri Bee Busters

2nd Monday, location varies
beebusters2012@gmail.com
nwmabeebusters.blogspot.com

26. Parkland Beekeepers

3rd Tuesday, 7 pm, N College Center,
Mineral Area College, Park Hills
Ray Politte, President, 573-631-8236, PBA_President@mineralarea.edu
www.parklandbeekeepersassociation.org

27. Pomme de Terre Beekeepers

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

28. Quad County Beekeepers

1st Tuesday, 7 pm, Missouri Extension Office, Troy
Eric Reid, President, QuadCountyBees@yahoo.com
quadcountybeekeepers.com

29. Rolla Bee Club

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

30. SEMO Honey Producers

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

31. South Central MO Beekeepers Assn

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

32. Southern MO Beekeepers of Monett

3rd Tuesday, 7 pm, United Methodist Church,
Hwy 37 NW of Monett
John Schmidt, President, 417-830-9141

33. Southwest MO Beekeepers Assn of Neosho

1st Tuesday, Neosho High School FFA Bldg
Thelma Ross, 417-472-3504, rtross@scomm.net

34. St. Louis Beekeepers

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

35. Swarm Chasers

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

36. Three Rivers Beekeepers

3rd Monday, 7 pm, MU Extension, 260 Brown Rd, St. Peters
Dwain Jansen, President, 314-910-1251

37. West Central Beekeeping Assn

2nd Wednesday, 6:30 pm, State Fair Community College,
Potter-Ewing Ag Ctr, Sedalia
Rick Messenger, 660-827-4489
lindarick95@gmail.com

38. West Plains Bee Group

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

39. Western Missouri Beekeepers

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

40. Wright County Beekeepers

2nd Thursday, 7 pm, Laclede Electric Building, Hartville
Rick Bledsoe, 417-741-7466,
wrightcountybeekeepers@gmail.com