Did you hear the one about the football game between Mizzou and Kansas? (Full disclosure...I graduated from MU back in the 80’s.) Seems like Kansas was on top of their game and beat Mizzou pretty badly. But, Mizzou is known for their Journalism School and those talented folks figured out a way to report the loss in a better light, without lying. The headline read: “Mizzou Comes in Second. Kansas, Next to Last!”

Not really sure if that is true or not…but it is funny and does a great job of illustrating a point. If given enough time and clever resources, facts can be presented in such a way that they are correct but a bit misleading. In advertising, it is called spinning. Happens a lot during political campaigns…as we all know.

The reason I bring this up is because there have been many, many articles written about the impact of various chemicals and outside pressures on our honey bees. All of them contain facts from one study or another, but many are spun to reflect the opinions of the reporting media. Any of us that subscribe to Facebook understand what I am describing. Those that don’t use the internet for their information are also exposed to these spun reports.

I have a friend and fellow beekeeping scientist that has now taken to sending our local bee group a copy of the Popular Press article, as well as the Scientific article that was referenced in the popular press. It is really interesting to read both to get the entire story.

As our State Association continues to expand and grow, we are striving to provide good information for our members so they can make well researched management decisions when it comes to keeping their bees.

You will see these changes happening on our website over the next few months. Our newsletter will continue to bring you information concerning our upcoming conferences and learning sessions. We will continue to send out the Waggle Dance Data email as a way of communicating between newsletter publications. We are in the process of expanding what is available on our website so you have a good source to find articles and information that is both timely and well-researched. For $10.00 per year, I would say that is a very good value.

As one of Missouri’s all-volunteer organizations, we have a number of beekeepers that are also scientists, engineers, researchers, journalists, botanists, horticulturists … and commercial beekeepers who are willing to help make sure that what you are reading has reliable, documented research to back up those claims. As with any all-volunteer organization, much of the workload falls onto the shoulders of a few. The more volunteers we have to help … even if it is just a little, the easier and more timely we can make things happen. Please think about a way you can volunteer to help make your MSBA better.

Looking forward to meeting all of you that can join us at the 2016 Fall Conference on October 14th and 15th. The Lodge of the Four Seasons is a beautiful resort and our four speakers - Randy Oliver, Mel Disselkoen, Wes Johnston and Wanda Johnston - are going to be providing good, usable information.

And, like many of you, my favorite part of keeping bees is there is still so much to learn.

Thank you for being a member of the Missouri State Beekeepers Association!

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Southeast Region Report
by Gregg Hitchings

Small hive beetles seem to be the news in Southeast Missouri. There for several years we grew accustomed to seeing one or two of these little black bugs, which somewhat resemble itty bitty black Volkswagens, when we popped the top on a hive. That’s tolerable. This year, however, has really been quite another story. From the flatlands of the Bootheel to the region’s Northern hills, many beekeepers are finding population explosions of these unwelcome insect pests within some of their colonies. When beekeepers get together the discussions often involve mite management and the pros and cons of this trap over that trap or even the effectiveness of Swiffer pads.

I was able to make it to several local association meetings this summer. Although much different in meeting times, meeting facilities or topics discussed, there was one constant present in all of them. Each group had the benefit of one or more experienced beekeepers willing to answer questions and coach those who were in the early stages of learning about the craft. This has always been the strength of our local bee groups. Thanks to you beekeeping veterans.

Elsewhere around the state ...

Saint Louis Beekeepers hosted a Honey, Mead and Wine Tour on September 18. Including members of Three Rivers Beekeepers, the group of about 35 hopped a charter bus and enjoyed lunch and wine tastings at Noboleis and Augusta Wineries in Augusta, then mead and honey tasting at Martin Brothers Winery/Meadery in Hermann.

“Comb honey is my hobby,” says Bernie Andrew. “The liquid is my business.” Bernie drove September 19th from Lorraine, Illinois, where he currently runs about a hundred hives, to St. Peters, Missouri, where he spoke to Three Rivers Beekeepers about comb honey production, beekeeping as a sideline business, and winter feeding with “Missouri crabby patties”.

Cory Stevens gives a quick demonstration of queen introduction during a late summer meeting of the Dexter Bee Club. Can you pick out Cory? Hint: He’s the smart one … wearing a veil! photo by Gregg Hitchings

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photo by Eugene Makovec

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photo by Eugene Makovec

continued next page
Help wanted:

**Newsletter Editor, Missouri State Beekeepers Association**

**Description and duties:**
- Produce six issues per year, about 12-16 pages
- Produce and/or coordinate articles and photos
- Attend Executive Board meetings as a voting member
- Attend and document annual Membership Conferences

**Candidate should possess:**
- Attention to detail
- Basic computer, design and photography skills
- Competent spelling, grammar and proofreading skills
- Passion for and knowledge of beekeeping a plus!

I designed the current format from scratch when I started. You can follow it or use your own. I use InDesign, but that is also your choice. I will be happy to work with you during the changeover.

For information call Eugene Makovec at 314-703-7650, or email editor@mostatebeekeepers.org

*Phil Davis and Patty Donze enjoy the offerings at Noboleis Winery in Augusta on September 18th, as part of the Saint Louis Beekeepers Honey, Mead and Wine Tour. Later, the group took a scenic bus route through the back country of St. Charles County to Martin Brothers Winery/Meadery outside of Hermann. Photo below by Jane Sueme, at right courtesy of Martin Bros.*
High numbers of in-hive pesticides linked to poor colony health

Study tracks 91 migratory colonies through the year

The high number of pesticides in bee colonies are being linked to honey bee deaths and some compounds regarded as “bee-safe” could be a major contributor to honey bee colony losses in North America.

A new study is the first to systematically assess multiple pesticides that accumulate within bee colonies. Previously most scientific studies have looked at pesticides one at a time, rather than investigating the effects of multiple real-world pesticide exposures within a colony.

The researchers found that the number of different pesticides within a colony—regardless of dose—closely correlates with colony death. The results also suggest that some fungicides, often regarded as safe for bees, correlate with high rates of colony deaths.

The study appeared online in the journal Nature Scientific Reports. “Our results fly in the face of one of the basic tenets of toxicology: that the dose makes the poison,” says senior author Dennis vanEngelsdorp, an assistant professor of entomology at the University of Maryland.

“We found that the number of different compounds was highly predictive of colony death, which suggests that the addition of more compounds somehow overwhelms the bees’ ability to detoxify themselves.”

The researchers followed 91 honey bee colonies, owned by three different migratory commercial beekeepers, for an entire agricultural season. The colonies began their journey in Florida and moved up the East Coast, providing pollination services for different crops along the way.

They also spent time in locations meant for honey production, as well as “holding areas” where beekeepers prepare large numbers of colonies for upcoming pollination contracts.

A total of 93 different pesticide compounds found their way into the colonies over the course of the season, accumulating in the wax, in processed pollen known as bee bread and in the bodies of nurse bees.

At every stop along the beekeepers’ itinerary, the researchers assessed three different parameters within each colony: the total number of pesticides; the total number of “relevant” pesticides (defined as those above a minimum threshold of toxicity); and each colony’s “hazard quotient,” a measure devised by other researchers to integrate the total hazard posed to each colony by the cumulative toxicity of all pesticides present.

All three measures correlated with a higher probability of colony death or queen failure.

In addition, the researchers found between five and 20 different pesticide residues in every sample of bee bread that exceeded a hazard quotient’s safety threshold.

The highest number of pesticides accumulated in the colonies early on, shortly after beekeepers placed colonies into early season flowering crops like apples and blueberries. Honey production stopovers and holding areas offered the bees some respite from further contamination.

The study results also suggest that some fungicides, which have led to the mortality of honey bee larvae in lab studies, could have toxic effects on colony survival in the field. In the current study, pesticides with a particular mode of action also corresponded to higher colony mortality.

For example, the fungicides most closely linked to queen deaths and colony mortality disrupted sterols - compounds that are essential for fungal development and survival. “We were surprised to find such an abundance of fungicides inside the hives, but it was even more surprising to find that fungicides are linked to imminent colony mortality,” said Kirsten Traynor, a postdoctoral researcher in entomology at UMD and lead author on the study.

“These compounds have long been thought to be safe for bees. We’re seeing them at higher doses than the chemicals beekeepers apply directly to the colonies to control Varroa mites. So that is particularly concerning.”

The study borrows a concept from human cancer research: the “exposome,” or the sum total of chemicals an organism is exposed to over its lifetime. But instead of looking at individual bees, the researchers assessed each colony as a single “superorganism” that functions as a single, cohesive unit.

Within this framework, the researchers tracked the death of queen bees, which is a life-threatening event for the colony as a whole. In some cases, a colony is able to create a new queen, but if those efforts fail the entire colony will die.

In the study, colonies with very low pesticide contamination in the wax experienced no queen events, while all colonies with high pesticide contamination in the wax lost a queen during the beekeeping season.

Traynor says this is a huge problem for beekeepers. “Not long ago, a queen would typically last up to two years,” he says. “But now many commercial beekeepers replace the queens in at least half of their colonies every spring in the hopes that this will prevent premature queen deaths.

“Even with such measures, many queens still don’t make it

continued on page 15
Support our conference vendors and advertisers

As of this time, the following vendors have confirmed plans to attend the Fall Conference. You may be able to save on shipping costs by placing orders ahead of time to be picked up during the meeting.

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All beekeeping supplies
Gabe Dadant
888-922-1293  www.dadant.com

**Femme Osage Apiaries (see ad page 14)**
Beekeeping equipment
Ian and Pam Brown
636-398-5014  femmeosage1@aol.com

**Mann Lake**
All beekeeping supplies
Pat Montague  patm@mannlakeltd.com
800-880-7694  www.mannlakeltd.com

**Isabees**
Authorized Walter T. Kelley Dealer
All beekeeping supplies
Jane Sueme
314-504-4424  jane@isabees.com

**Andrew Honey Farm**
Used beekeeping equipment
Bernie Andrew
217-938-4975  magic@adams.net

**Crooked Hill Beekeeping**
Bees and equipment
Bill and Tammy George
660-214-0132  www.chbeekeeping.com

**Ebert Honey**
Package bees, queens, woodenware and honey. Buying beeswax.
Phil Ebert  ehoney37@netins.net

**HorizontalHive.com**
Beekeeping books and miscellaneous
Leo Sharashkin  lsharashkin@yahoo.com

**Corinne’s Honey Farm**
Hive products
Corinne Collins  corinneshoneyfarm@gmail.com
636-627-7515  corinneshoneyfarmllc.com

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**Randy Oliver**  [http://scientificbeekeeping.com/](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/](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

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

Mail-in Registrations:
Make checks payable to the Missouri State Beekeepers Association.

Mail-in Registrations:
Send check and completed registration form to:
Wanda Johnston
31040 Joanne Rd.
Independence, MO 64056

Email required for registration acknowledgement.

Don't Forget Your Hotel Room!
Mention the MSBA Conference and receive our $104.00 room rate. Good until December 31, 2016.

Conference Packages

2016 Fall Membership Conference Registration Information

The Lodge of the Four Seasons, Lake of the Ozarks, MO
October 14 - 15, 2016

Missouri State Beekeepers Association
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: (____) _____________

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## 2016 MSBA Fall Conference Agenda

**Lodge of the Four Seasons  Lake Ozark, MO**  
**October 14-15, 2016**  
*(Subject to change)*

### Thursday- October 13, 2016

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:00 PM</td>
<td>Vendor Setup Begins</td>
</tr>
<tr>
<td>6:00 pm</td>
<td>Executive Board Meeting</td>
</tr>
<tr>
<td>10:00 PM</td>
<td>Vendor Setup Closes</td>
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### Friday- October 14, 2016

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<tr>
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<tbody>
<tr>
<td>7:00 am</td>
<td>Vendor Setup Continues</td>
</tr>
<tr>
<td>8:00 am</td>
<td>Registration Opens</td>
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<tr>
<td></td>
<td>Vendor Hall Opens</td>
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<tr>
<td></td>
<td>Contest Room Opens for Entry Setup</td>
</tr>
<tr>
<td>8:45 am</td>
<td>President’s Opening Comments</td>
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<tr>
<td>9:00 am</td>
<td>Philosophy and Future of Beekeeping-Randy Oliver</td>
</tr>
<tr>
<td>10:00 am</td>
<td>Small Hive Beetles-Wes Johnston</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Professional Judging Begins</td>
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<tr>
<td>10:45 am</td>
<td>Break</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Reading the Combs Overview-Randy Oliver</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>People’s Choice Judging Begins</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>Buffet Lunch Begins</td>
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<tr>
<td>2:00 pm</td>
<td>Honeybee Pest and Disease-Randy Oliver</td>
</tr>
<tr>
<td>2:45 pm</td>
<td>Oxalic Acid on Mites-Wanda Johnston</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>Tips for Working Bees and Minimizing Stings-Randy Oliver</td>
</tr>
<tr>
<td>3:45 pm</td>
<td>People’s Choice Judging Ends</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>Email Questions-Randy Oliver</td>
</tr>
<tr>
<td>5:00 pm</td>
<td>Break</td>
</tr>
<tr>
<td>6:00 pm</td>
<td>Awards Dinner and Auction</td>
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### Saturday- October 15, 2016

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<td>7:45 am</td>
<td>Registration Opens</td>
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<td></td>
<td>Vendor Hall Opens</td>
</tr>
<tr>
<td>8:00 am</td>
<td>OTS (On the Spot) Queen Rearing-Part 1- Mel Desselkoen</td>
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<tr>
<td>9:00 am</td>
<td>Break</td>
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<tr>
<td>9:15 am</td>
<td>Mite Management-Randy Oliver</td>
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<tr>
<td>10:00 am</td>
<td>Breeding for Mite Management-Randy Oliver</td>
</tr>
<tr>
<td>10:45 am</td>
<td>Break</td>
</tr>
<tr>
<td>11:00 am</td>
<td>OTS (On the Spot) Queen Rearing-Part 2-Mel Desselkoen</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>Buffet Lunch</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>OTS (On the Spot) Queen Rearing-Part 3-Mel Desselkoen</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>Break</td>
</tr>
<tr>
<td>2:30 pm</td>
<td>GMOs and Honey bees-Randy Oliver</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>Vendor Hall Closes</td>
</tr>
<tr>
<td>3:30 pm</td>
<td>General Membership</td>
</tr>
<tr>
<td>4:30 pm</td>
<td>Prize Drawings and Closing Remarks</td>
</tr>
</tbody>
</table>
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 each 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 each 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@threeiversbeepkeepers.com
   President Eugene Makovec 314-703-7650

20 Northwest Missouri Bee Busters
   2nd Monday of each month, location varies
   nwmobeekeepers.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)
   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 Association
   2nd Tuesday 6:30, Moor-View Community Room, Nevada
   Caroline Phillips, President 417-321-3587
   www.saintlouisbeekeepers.com

26 Meramec Valley Beekeepers
   1st Friday 2pm, Peace Lutheran Church in Sullivan
   Contact Sam Elia (573) 732-5597 samnora1@gmail.com, Laurie Rose at laurierose1219@yahoo.com

27 Quad County Beekeepers
   1st Tuesday, 7:00 pm, Missouri Extension Office, Troy
   President Eric Reid quadcountybeekpeers.com

28 North Central MO Beekeepers Association
   1st Monday, Macon High School, Macon, 7:00 pm
   Contact Bill George (660) 214-0132
   bcphillips81@gmail.com

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, dannyhobby@hotmail.com

30 Wright County Beekeepers
   2nd Thursday, Laclede Electric building, Hartville, 7 pm
   Rick Bledsoe, Contact 417-741-7466
   wrightcountybeeskeepers@gmail.com

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Local Beekeeping Associations in Missouri

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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/e649d35b439c5309794f6ea8516f333

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**PACKAGE BEES**

Package bees should be on our website by November.  
Free delivery in 8 States / 20 cities on our routes.  
Pricing will be determined in November.
MSBA Membership Application

Name ____________________________________________________________

My local association is ______________________________________________

Address ___________________________________________________________

City/State/Zip _______________________________________________________

Phone Number _______________________________________________________

Email ______________________________________________________________

Dues $10 per individual

Mail check to: Missouri State Beekeepers Association P.O. Box 7514 Columbia, MO 65205
Conflicting research on pesticides

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through one season.”

The research team did not find a significant contribution from neonicotinoid pesticides. These compounds, derived from nicotine, are some of the most common pesticides in use globally. Because of their ubiquitous use, neonicotinoids have received significant media attention for their potential role in honey bee declines.

“We just did not find neonicotinoids in the colonies,” vanEngelsdorp says. “There were some trace residues of neonicotinoids in a few samples, but not nearly on par with other compounds. However, it’s possible we did not test the right matrix—we did not test nectar, for example—or that the product breaks down faster than others in the collection process or that neonicotinoids are simply not very prevalent when crops are flowering.”

Because industrial practices have changed since the researchers collected the data for this study, Traynor and vanEngelsdorp acknowledge that further research could reveal new patterns in the relationship between pesticides and honey bee health. But the current study nonetheless offers some important insights for beekeepers and farmers alike.

“We have to figure out ways to reduce the amount of products that bees are exposed to while still helping farmers produce their crops,” vanEngelsdorp says. “This will require careful examination of spray plans, to make sure we only use the products we need, when we need them, in order to reduce the number of products bees are exposed to while pollinating different crops.”

In addition to Traynor and vanEngelsdorp, study co-authors include Jeffery Pettis (U.S. Department of Agriculture), David Tarpy (North Carolina State University), and Christopher Mullin, James Frazier and Maryann Frazier (Pennsylvania State University). The full report can be seen at http://www.nature.com/articles/srep33207

Story courtesy of Catch the Buzz, at beeculture.com

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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:**

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