Register now for Fall Meeting
Jefferson City conference to offer top-flight speakers, special tour of Capitol Dome

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In addition to the standard Capitol Tour, MSBA members and their families will be treated to an extra feature not available to all tour groups -- a climb to the top of the Capitol Dome. Please bring a “thank you” jar of honey as a gift to the staff. Keep in mind also that this feature is not for the faint of heart, as it is a total of 250 steps up the inside of the dome. At the top we will step out a door and walk around the perimeter of the cupola for a panoramic, birds-eye view of Missouri's capital city.

The first tour meets at 8:30 a.m. in the hotel lobby, and the second at 9:15. For planning purposes, please contact Sharon Gibbons (877-736-8607 or sgibbs314@earthlink.net) ahead of time if you will be taking part.

Missouri State Fair booth a success with support from local clubs
by Dean Sanders, Chairman

Again this year you all came through and supported the Missouri State Fair booth. There were enough people working in the booth to give all of us a break at some time during the day. In fact, Art Gelder and the Boone Regional Beekeepers had enough workers to staff the booth for one full day. This gave me a chance to take care of some personal things.

Many fairgoers were asking for beekeepers in their specific area. Please see the Fall Meeting program on page 8 for a more complete report.

Gary Reuter

Our main speaker will be Gary Reuter, a scientist in the University of Minnesota's Department of Entomology. He is described by the university Bee Lab's website as its “Gary of All Trades”, but is known to many in the industry as Marla Spivak's right-hand man. Dr. Spivak's lab has done much research into the role of hygienic behavior of honeybees as a defense against disease and parasitic mites, and is best known as the home of the Minnesota Hygienic line of honeybees.

Mr. Reuter has been with the Agriculture Lab since 1992. His responsibilities include managing 150 research colonies, raising and evaluating queens for the breeding program, computer programming and data analysis, training and working with students in the field, and designing and building specialty equipment.

Gary spends a good deal of time teaching -- from the Lab's beekeeping short courses and Extension programs to children's programs at local schools, to association meetings such as ours.

Gary is past President of both the Minnesota Hobby Beekeeping Association and Wisconsin Honey Producers Association, and is on the Research Committee of the American Beekeeping Federation.

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Missouri Governor Jay Nixon made the rounds at the fair and stopped by the MSBA booth. He is shown here at left, with Honey Queen Tara Fisher and Steve Moeller, who was volunteering that day with the Boone Regional Beekeepers. (Photo courtesy of the MO Department of Agriculture)
From the President
by Scott Moser

Well, looks like another honey season has come and gone. If you got honey this year, consider yourself lucky! I have talked to several beekeepers around the state, and other areas of the country, and the outlook isn't very rosy. Most in the Midwest had a mixed season, with most reporting that their harvest this year was down, and down a lot in some cases. A few have even used the words "disaster" and "loss" to describe their harvest this year. My own production was way down this year. I harvested about one third of what it would normally be. At first, I thought it was just me, but after speaking to other beekeepers in the state I realized that it was not just me. Other beekeepers had the same luck. Misery does love company I guess.

The general consensus was that the spring weather we had this year over much of the Midwest was to blame. Colonies were slow to build up, weather went back and forth from warm to cold, a lot of cold rain in some locations, and frequent rain and storms were all thought to contribute to the dearth of nectar and decreased honey production early in the season. I missed out on the locust flow this spring, not because my colonies were too weak, but because when the flowers bloomed, it rained every other day, and either the bees couldn't get out to fly, or the rain washed the nectar out. The bulk of my honey was produced between the second week and last week of June. Not much time to produce a bumper crop. Oh well, as in many aspects of agriculture, there is always next year.

I hope to see many of you at the Fall Meeting in Jefferson City at the Capitol Plaza Hotel. My cousin has graciously offered to take a group of us up into the dome, and out on the observation deck. Sharon has reminded us that a honey donation for our guide would be greatly appreciated, since she is doing this special for us. There will be a limit on the number of people who can take this tour. Be aware that this is not a tour for the faint of heart. There are a lot of steps to climb to make it up to the dome, so be prepared for a hard trek up there.

There will also be a tour of the Capitol and the Governor's Mansion. The MSBA Executive Committee will have a working lunch on Friday from 11:00-12:30 at the Ryan's Restaurant in Jefferson City. All executive board members should attend, and one representative from each local may attend as well. Unfortunately this year, the meeting date conflicts with the Missouri Youth Deer Season, so as of right now, it looks like I will only be able to attend on Friday, but will be thinking of you Saturday morning as I sit on the deer stand with my niece.

Finally, I am thrilled with all of the new local associations that are being formed. Recently, I was contacted by Travis Harper, Agronomy Specialist for Henry County, about starting a local club in that part of the state. More information about that can be gained from the Henry County UMC University Outreach and Extension Office (660) 885-5556. In addition, SEMO Honey Producers, located in Poplar Bluff, has been reactivated. For more information, contact Chris Waite (573)686-8064.

As an update, the Three Rivers Beekeepers club begun this past spring in St. Peters has been going strong, with large turnouts and great speakers. I am still working to get more local associations, especially in the northern part of the state. If you live in that area, and would like to get a local association going, please contact me and I will do what I can to help you out. Happy Beekeeping!

Bee Culture

THE MAGAZINE OF AMERICAN BEEKEEPING

Here's what you'll get
• Honey bees • Beekeeping • Beekeepers •
• Honey • Propolis • Bee Equipment •
• Beehives • Current Research •
• Beginning Beekeeping How-To •
• Sideline Beekeeping • New Products •
• Honey Recipes • Book Reviews •
• Market Reports • More • More • More • More!

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Fully assembled select grade poplar hives. Built in High Ridge, Mo. Each kit contains reversible bottom board, 2 dove tailed hive bodies w/ metal frame rests, inner cover and galvanized top cover for $80.00. Supers - $13.95. Pick-up only. Save on shipping. Delivery available to local area meetings. May also be available for large orders outside St. Louis area. To order or for more info. email: bee blessed@sbcglobal.net or call Debbie 636-274-5009.

Support your local community.
## MISSOURI STATE FAIR
### 2009 Apiculture Judging Contest Results

<table>
<thead>
<tr>
<th>Individual Entries</th>
<th>1st Place</th>
<th>2nd Place</th>
<th>3rd Place</th>
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<tbody>
<tr>
<td>Candied Honey</td>
<td>Lowell Hutchison</td>
<td>St. Joseph</td>
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<td></td>
<td>Jim Fisher</td>
<td>Raymore</td>
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<td>Tim Hyde</td>
<td>Wildwood</td>
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<td>Cut Comb</td>
<td>Lowell Hutchison</td>
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<td>Jim Fisher</td>
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<td>Dean Sanders</td>
<td>Oak Grove</td>
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<td>Brian Norris</td>
<td>Bates City</td>
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<td>Light/Ambre Extracted</td>
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<td>Wildwood</td>
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<td>Priscilla Ward</td>
<td>Glendale</td>
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<td>Paul Lammert</td>
<td>Chesterfield</td>
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<td></td>
<td>John Timmons</td>
<td>Harvester</td>
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<td>Eastern (club hives)</td>
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<td>Ron Vivian</td>
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<td>Ted Jansen</td>
<td>Chesterfield</td>
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<td>Michael Thomas Godfrey</td>
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<td>Light Bulk Comb</td>
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<td>Bob McCarty</td>
<td>Sedalia</td>
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<td>Yellow Beeswax Cake</td>
<td>Jim Fisher</td>
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<td>Bob Finck</td>
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<td>Sealed Shallow Frame</td>
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<td>Sealed Large Frame</td>
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<td>Queen and her Bees</td>
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<td>Ron Vivian</td>
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**Individual Grand Champion**

|  | Lowell Hutchison | St. Joseph |

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<td></td>
<td>Eastern</td>
<td>Club Hives</td>
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<td>Three Rivers</td>
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<td>Eastern</td>
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<td>Eastern</td>
<td>Laurie Miller</td>
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<td>Light Bulk Comb</td>
<td>Midwestern</td>
<td>Hutchison</td>
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<td>Round or Square Section Comb</td>
<td>Midwestern</td>
<td>Dean Sanders</td>
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<td>Midwestern</td>
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<td>Beeswax Candles</td>
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<td>Jim Fisher</td>
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<tr>
<td>Art Designs in Beeswax</td>
<td>Midwestern</td>
<td>Lowell Hutchison</td>
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**Club Grand Champion**

|  | Eastern MO Beekeepers | |
State Fair booth operates smoothly, profitably thanks to volunteers

continued from page 1

areas of the state. We were able to help them locate local beekeepers and clubs on our Missouri Beekeepers map designed and constructed by Marlin Trout. Irish Spring again provided our computer pictures this year. This seemed to be a big hit. We had four observation hives this year and were able to rotate them every day, giving the bees a chance to get out and fly thanks to Bob McCarty. We also had pollen and beeswax information sheets for those interested. We are trying very hard to have more educational information for the public to take advantage of.

Other clubs that helped staff the booth include members from Three Rivers, Eastern, Ozark and Midwestern. Deena Beebe was a dependable lady who assisted at the cash register many days. I’d like to thank Tara Fisher, our state Honey Queen, for helping in the booth several days; and also Joyce Justice, our Queen Chairperson, who set up a cooking demonstration that she and Tara put on in the Home Economics Building. Thanks also to all our vendors who provided the excellent products we sold.

I’d like to see more clubs get involved next year. It makes my job so much easier when we all cooperate and volunteer to help. The Missouri State Fair is one of our most important opportunities to let the public know we’re here to educate and promote beekeeping and all the wonderful products honeybees provide.

Thanks again to all of you who had a part in our booth’s success this year. Ron tells me it looks like we’ve had another profitable year.

Cookin’ with honey!
by Carrie Sayers

Middle Eastern Carrot Salad

4 C Grated Carrots
3 T Fresh Lemon Juice
3 T Olive Oil
½ t Ground Coriander
¼ t Salt
2 t Chopped, Fresh Mint or ½ t Dried
1 T Chopped, Fresh Parsley
2 t HONEY

Mix all together and chill for at least one hour before serving.

Enjoy!

Carrie Sayers (www.sayerscatering.com) is a second-year beekeeper in Glendale, MO, and has been cooking with honey for years.
Missouri State Beekeepers Association
Fall 2009 Meeting Registration Form

NAME________________________________________

ADDRESS_____________________________________

CITY________ STATE_______ ZIP+4___________

PHONE_________________ E-MAIL ________________

Pre-Registration Fees: Registration must be received by OCTOBER 15, 2009

Member $22.00 X_____ = __________

Member Family -- must have paid 2009 dues as a family $32.00 __________

Non-member -- per person $30.00 X____= __________

Registrations made after OCTOBER 15, 2009

Member $25.00 X_____ = __________

Non-member $35.00 X_____ = __________

2009 HONEY QUEEN BANQUET
Friday night: 6:00pm social time; dinner served at 6:45pm

Adult - $25.00 per person ($25.00 x _____) = ______

Child - $12.00/child under 12 ($12.00 x _____) = ______

Saturday Lunch:

Adult - $12.50/person ($12.50 x _____) = ______

Child - $7.50/child under 12 ($ 7.50 x _____) = ______

Membership 2010 Missouri State Beekeepers Assn. Individual: Renewal New $15.00_______

Membership 2010 Missouri State Beekeepers Assn. Family: Renewal New $20.00_______

Queen fund donation Donation $___________

Meeting fund donation Donation $___________

Total $___________

Please make checks payable to MO State Beekeepers Assn. Send to Pam Brown, 1407 Sneak Rd., Foristell, Mo. 63348 If you pre-register and then cannot attend, your registration fee will be considered a donation and no refunds will be made. If you pay for meals and we are able to sell them you will be refunded for those.
**Apitherapy News ...**

**Targeting cancer with bee venom component:**

In animal studies, tiny composite spheres deliver drug directly to tumors

by Peter Loftus

Wall Street Journal (wsj.com)

September 28, 2009

A bee sting can be painful, but its venomous payload might hold promise for a beneficial purpose -- fighting cancer.

Researchers at Washington University in St. Louis have used an ingredient of bee venom called melittin to shrink or slow the growth of tumors in mice. Melittin's anti-tumor potential has been known for years, but it hasn't been used as a drug because it also attacks healthy cells, including vital red blood cells.

Now the researchers have found a way, using the burgeoning field of nanotechnology, to pinpoint tumors for attack by melittin while largely shielding healthy cells. They do this by attaching the bee-venom ingredient to nanoparticles, which are ultra-tiny, synthetically manufactured spheres. The resultant product, called nanobees, are injected into the blood stream where they circulate until they reach and attack cancerous tumors. The approach also has the potential to avoid some of the toxic side effects seen in older cancer therapies like chemotherapy.

Nanobees showed promise in a study published this summer in the Journal of Clinical Investigation. The study found that nanobees halted tumor growth or shrink tumors in mice with breast and skin cancers, and reduced precancerous lesions. The experiments showed minimal toxicity to healthy cells from the treatment.

"In effect, we've got something that does what a bee does except it's a synthetic particle. It's got a stinger and injector to insert the toxin into a cell," says Samuel Wickline, a professor at Washington University's medical school.

The efforts to fight cancer using nanobees reflect a broader body of research and development that focuses on targeting the delivery of drugs directly to tumors. That contrasts with traditional treatments such as chemotherapy, which goes after any cell that divides rapidly, cancerous and healthy alike.

**Narrower Targets**

Newer drugs such as Avastin are designed to home in on tumor cells, in Avastin's case by blocking the growth of new blood vessels that feed tumor growth. Even some forms of chemotherapy can be programmed to be more targeted -- the drug Doxil, for instance, shields chemotherapy inside a rubbery coating, which helps it evade the body's immune system and circulate longer in the blood, giving it more time to reach tumors.

The nanobee discovery was serendipitous, emerging not from a cancer-research lab per se, but rather from an intermingling of scientific disciplines at Washington University. Dr. Wickline was trained as a cardiologist and also has a background in physics and biomedical engineering. He specializes in finding new applications for nanoparticles -- the tiny spheres that are produced from rigorously mixing an oily substance known as perfluorocarbon, fatty substances called lipids, and lecithin, which is found in egg yolks.

One of Dr. Wickline's students was Neelesh Soman, a medical doctor who began studying for his Ph.D. in biomedical engineering at Washington University in 2003. Within a couple of years, Dr. Soman was exploring the mechanism by which nanoparticles could deliver drugs to tumors. The trick is to find the right drug, one that will form a good attachment to the nanoparticle, then detach when it is ready to do its job.

In advising Dr. Soman, Dr. Wickline consulted Paul Schlesinger, a professor of cell biology and physiology at Washington University. Melittin belongs to a class of natural substances known as host-defense peptides, which have been known to have anti-cancer properties, and Dr. Schlesinger says he began to suspect that the nanoparticles might attach well to the melittin.

Among Dr. Soman's first experiments was to see how melittin interacted with the nanoparticles. He found that not only did it attach quickly to the outer, lipid layer of the nanoparticles, but that the attachment was stable, suggesting that the nanoparticle-melittin combination, or nanobee, might be able to circulate in the body and not attack healthy cells.

The next issue was to figure out how to get the melittin, once it came upon a tumor, to detach from the nanoparticle and transfer to the cancer cells, taking its cell-killing properties with it. The researchers accomplished this by attaching a third component to the mix -- a ligand, which is a chemical that binds two distinct compounds. The ligand they used in this case -- which Dr. Schlesinger likens to a "molecular ZIP Code" -- has an affinity for attaching to a receptor plentiful in newly formed blood vessels. That's useful in cancer treatment because tumors tend to form new blood vessels to feed themselves and grow.

The scientists began testing the resulting mix, which resembles a milky substance, in mice in 2007. They tried it on a few dozen lab mice with three kinds of tumors: A mouse form of skin cancer; a form of human breast cancer transplanted into the mice; and precancerous lesions caused by human papillomavirus, which can cause cervical cancer in humans.

After about two weeks of treatment, the nanobees slowed the growth of the breast-cancer tumors, shrank the melanoma tumors and reduced the precancerous lesions, compared with control groups that received saline injections and nanoparticles lacking melittin.

"The nanoparticle attaches itself to the cell of choice and then the melittin material comes off the particle and goes directly into the cell, without going into the bloodstream. It's like an injection," says Dr. Wickline. Melittin kills by forming pores in the cell membrane, he says.

continued on page 7
Another potential benefit: The nanobees appeared in the mice experiments to destroy cancer cells in a process known as apoptosis, a naturally occurring cause of cellular death. By contrast, necrosis, a process of cellular death that is caused by external factors such as infections, trauma and some forms of chemotherapy, can cause damage to other parts of the body.

The researchers reported no significant signs of organ toxicity as a result of the nanobee treatment. However, they say that they don’t know how the nanobees, because of the attached ligand that targets newly formed blood vessels, might affect such blood vessels in other, healthy parts of the body.

The mice were euthanized after the experiments and so the researchers didn’t track whether the nanobees’ effect on tumor growth translated into improved survival.

The melittin used in the experiments is made synthetically in the lab, not extracted from real bee venom. It also doesn’t trigger the kind of allergic reactions to bee stings that other components of bee venom do. The nanoparticles allowed the researchers to inject into the mice what would have been a lethal dose of melittin had it been injected on its own. That much free melittin would kill a mouse by destroying its red blood cells, Dr. Schlesinger says.

Dr. Soman, who says he was “elated” the day he first learned of the positive results in late 2007, received his Ph.D. from Washington University last year and has taken a job at biotechnology giant Amgen Inc.

The nanobee technology has been licensed to Kereos Inc., a small biotechnology company co-founded by some of the Washington University researchers. The company may seek to start human trials in a couple of years, says general manager Philip Buckler.

The buzz about nanobees has reached other scientists. David Hoskin, who specializes in cancer research at Dalhousie University in Halifax, Nova Scotia, called the results “pretty impressive” and “unique”.

“The delivery technology they’ve developed allows for relatively long-term persistence of these peptides in the body [without significantly harming healthy cells] and their specific targeting to tumor sites,” says Dr. Hoskin, whose review of host-defense peptides in a medical journal last year was cited by the Washington University researchers in their new paper. “The danger is that if this goes to clinical trials, that human tumors may not respond to this particle in the same way that tumors in mice do,” Dr. Hoskin says.
2009 Fall Meeting Program (subject to change)

**Friday, October 30**

8:30 and 9:15  Capitol tours leave from hotel lobby
9:30-12:00  Setup for vendors, Truman Room
11:00-12:30  Executive Committee working lunch, Ryan’s Restaurant
12:00  Registration open, Truman Room
1:00-1:15  Welcome and announcements from President Scott Moser
1:15-2:10  Gary Reuter  *Raising Queens with Hygienic Behavior in the Midwest*
2:15-2:45  Dean Gibson  *Crop Insurance for the Beekeeper*
2:45-3:10  Break and some door prizes
3:15-3:45  Collin Wamsley, State Entomologist  *African Honey Bee Trap Report*
3:50-4:15  Grant Gillard  *Small Hive Beetle -- Missouri Update*
4:20-4:45  Gary Reuter  *Queen Rearing Primer: Queen and Drone Biology*
6:00  *Honey Queen Banquet*, Lincoln Room. Halloween costumes welcome! Dinner menu to be announced.

**Presentation of scholarship to 2009 Honey Queen Tara Fisher** by Joyce Justice

*8:00  Crowning of 2010 Missouri Honey Queen*

**Saturday, October 31**

8:00  Invocation and greetings from Rev. Grant Gillard
8:15-8:35  Greetings from Queen Chair Joyce Justice and 2010 Missouri Honey Queen. Bring silent auction items to support the queen program. Auction tables set up in foyer of Truman Room.
8:40-9:30  Gary Reuter  *Why are Honeybees Collapsing?*
9:40-10:15  Del Sawyer and Richard Fried  *Insurance: Beekeeping Liability and Product Liability -- What is it Worth to You?*
10:15-10:40  Break and door prizes
10:45-11:15  **Newbee Panel:** Now that you’ve had bees for a year or two, put together all the questions you were afraid to ask, and ask our panel of experts.
11:15-11:55  Gary Reuter  *Detection and Treatment of Nosema ceranae*
12:00-1:00  Lunch, Lincoln Room
1:00-2:10  First breakout session -- three workshops:
   - Gary Reuter  *Especially for the Newbees: Life Cycle of Varroa, and Effective Treatments*
   - Eugene Makovec  *Bee Photography, Shooting and Optimizing for Web and Print*
   - Ginger Reuter  *Fun with Beeswax*
2:15-2:45  Second Breakout session -- three workshops:
   - TBA  *Marketing Tips*
   - Gary Reuter  *Grafting Eggs How-to*
   - Grant Gillard  *Winter Management*
2:50-3:15  Break -- End of silent auction, raffle prize drawing
3:15-4:15  Annual business meeting, election of officers, more door prizes
Support our meeting vendors and advertisers

As of press time, the following vendors had confirmed plans to attend the meeting. You can save on shipping costs by placing orders with these vendors ahead of time to be picked up during the meeting.

**Bee Blessed Bee Hives*** (Steve Crawford and Debbie Carbone)  Handcrafted beehives  636-274-5009  beeblessed@sbcglobal.net

**Dadant and Sons*** All beekeeping supplies  888-922-1293  www.dadant.com

**Draper’s Super Bee*** (Larry and Brenda Draper)  All beekeeping supplies  402-274-3725

**Femme Osage Apiary** (Ian and Pam Brown)  Handcrafted woodenware and other supplies  636-398-5014  femmeosage1@aol.com

**Heartland Honey and Beekeeping*** (Joli Winer and Cecil Sweeney)  Candlemaking and beekeeping supplies  913-856-8356  www.heartlandhoney.com

**Walter T. Kelley Co.*** (Jane Sueme)  All beekeeping supplies  800-233-2899  www.kelleybees.com

*See ad in this issue
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Place the dosing tray or pad centrally on the top of the brood frames gel side up. Be sure to allow at least 1/4” of spacing between the top of the tray and the cover using spacer boards or empty supers as needed. Apply the second dose 14 days after the first. Screened bottom boards should be closed while Apiguard is being applied.

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Foil tray shown on brood frames.

*Note: The Wisconsin toll-free number will be answered at the Dadant Corporate Office in Hamilton, IL.
Local bee associations

Beekeepers Association of the Ozarks
4th Tuesday of each month, 7:00 p.m.
The Library Center, 4653 S. Campbell, Springfield
www.ozarksbeekeepers.org

Boone Regional Beekeepers Association
3rd Sunday of odd months, 1:00 p.m., Columbia Insurance Group, 2102 W. Higate Dr. (back door), Columbia
Contact Art Gelder 573-474-8837
http://beekeeper.missouri.org

Busy Bee Club
4th Tuesday of each month, 7:00 p.m., Cedar County Health Center, O wens Mill Road, Stockton
Neal Lee 417-276-3090  Neil Brunner 314-276-4252
grnthumb@alltel.net

Eastern Missouri Beekeepers Association
2nd Wednesday of each month, 7:00 p.m., Powder Valley Nature Center 11715 Craigwold Rd., Kirkwood
Bob Sears, President 314-479-9517
www.easternmobeekeepers.com

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

Jefferson County Beekeepers Association
2nd Tuesday of each month, 7:30 p.m., Hwy B & 21
Jefferson County Extension Center, Hillsboro
Contact Scott Moser 636-285-7295

Joplin Area Beekeepers Association
Last Tue. of each month, 7 pm, SM Bank Community Building (7th and Duquesne Rd.), Joplin
Contact Gene Foley 417-624-6831

Mid Missouri Beekeepers
3rd Sunday of each month, 2 pm, St. James Tourist Ctr.
Contact Don Moore 573-265-8706

Midwestern Beekeepers Association
Nov-March, 3rd Sunday of each month, 2:30 p.m.
April-Oct, 3rd Thursday of each month, 7:00 p.m.
Bass Pro Shop, Independence, Conservation Room
Cecil Sweeney, President 913-856-8356

Mississippi Valley Beekeepers Association
Last Tuesday of Month in Quincy, IL
Contact Debi Bridgman 573-439-5228

Missouri Valley Beekeepers Association
3rd Monday of each month, 7:00 p.m.
Scenic Regional Library, U nion
Contact Rodney Angell 573-764-2922
bee143@fidnet.com

Parkland Beekeepers
3rd Tuesday of each month, 108 Harrison, Farmington
Contact Gene Wood 573-431-1436

Pomme de Terre Beekeepers
2nd Thursday of each month, 7 pm
Missouri Extension Office, Hermitage
Contact Bessi Shryer 417-745-2527

SEMO Honey Producers
Poplar Bluff  Contact Chris Waite  573-686-8064

South Central Missouri Beekeepers Association
1st Friday of month, Howell Electric Coop, West Plains
Monty W iens, President  417 257-3994

Southern MO Beekeepers of Monett ("MO Bees")
3rd Tuesday of each month, 7:00 p.m.
Monett High School VO-AG Building
Robert Sperandio, President 417-235-6959

Southwest Beekeepers Association
1st Tuesday of month, Neosho High School FFA Building
Contact Herb Spencer 417-472-7743

Three Rivers Beekeepers
3rd Monday of month, University of Missouri Extension, 260 Brown Road, St. Peters, Missouri, 7:00 p.m.
For info: 2952 Greenleaf Drive, St. Charles, MO 63303
info@threeriversbeekpeers.com

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**MSBA Membership Application**

Name ________________________________________________

Spouse’s Name ________________________________________

Address _____________________________________________

City/State/Zip ________________________________________

Phone Number ____________________ Email ______________

NOTE: If you belong to a local association, please pay your state dues through your local club.

**State Association Dues** (Check only one box)

Adult Membership $15.00 □ Amount Enclosed $ _____________

Family Membership $20.00 □ Make check payable to: Missouri State Beekeepers Association

Student Membership $5.00 □ Mail to: P.O. Box 448 Oak Grove, MO 64075

**Magazine Discounts**: Discounts are available for MSBA members to two beekeeping magazines. You may use their order forms and mail them yourself to the publishers as shown below:

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Return white copy to: American Bee Journal, 51 S. 2nd St., Hamilton, IL 62341 • Retain yellow copy for your records.

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**ROOT PUBLICATIONS**

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*Please discard any other forms. Use only this form. *Prices subject to change without notice.
Honey Queen Report
by Tara Fisher

Hello!
Well the last month has been very busy! I have finally started back to school! In college they don't waste any time handing out homework and jumping right into tests!
The last month of summer was a really great one! At the beginning of August I spent four days at the fair! I did two cooking demonstrations and they went really well! I think that everyone really enjoyed the Honey Cheese Ball that I made! I had just as much fun this year as I did last year! The second week of September I went to Columbia, Missouri to promote Honey and Beekeeping at Art and Vera Gelder's Farmer's Market. Their market had a great turnout and it was a beautiful day!
As my time as the 2009 Missouri Honey Queen is coming to an end, I want to thank everyone who has allowed me the opportunity to serve as a representative for Missouri beekeepers! It has been a wonderful year and I have enjoyed everything that I have gotten the chance to do! With that being said, the search for a new Honey Queen is underway! If anyone has a daughter, granddaughter, or friend aged 18-21 who would be interested in promoting honey in 2010, please have them contact Joyce Justice (see directory at right). It is a great opportunity to travel and to learn about honey and beekeeping!

Thanks again for everyone's support!

Tara

From the Honey Chair
by Joyce Justice

This year is over half gone. I can hardly believe it. The reign of our Missouri State Honey Queen, Tara Fisher, is drawing to an end. She has done a great job for us. She has tried to do all the events that she was asked to do. Thank you, Tara -- you have done a great job!

Heartland Honey and Beekeeping Supplies
19201 South Clare Road
Spring Hill, KS 66061
913-856-8356
www.heartlandhoney.com

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1-87 Agricultural Building, University of Missouri-Columbia, Columbia, MO 65211

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Birdsfoot trefoil (Lotus corniculatus L), so named for the shape of its seed pod clusters, is a perennial legume that thrives in Missouri during the hot summer months when many grasses wilt. Native to Europe and Asia, and considered invasive in some areas, it is a valuable nitrogen fixer and provides quality livestock forage without bloating. Its bright yellow flowers can self-pollinate, but do much better when pollinated by the bees and butterflies attracted to their abundant nectar. Birdsfoot trefoil coexists in this Weldon Spring field with crown vetch (Coronilla varia L), misidentified as alfalfa in our August issue (see inset). The editor, who grew up on a dairy farm and should know better, would like to thank Howard Thompson for pointing out this error.

photos by Eugene Makovec

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

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

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**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.