



NEWSLETTER

Bowie-Upper Marlboro Beekeepers Association

February 2015

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www.BUMBAbees.com

MEETINGS

Next BUMBA Meeting

Thurs, Feb 5, 6:30 PM, Watkins Park Nature Center

Beltsville Bee Lab Disease Testing

Our speaker for the evening will be **Bart Smith** from the **USDA-Beltsville Bee Lab**. Bart will be presenting on bee diseases and parasites, how the Bee Lab performs tests for them, and the protocol we should follow to send in samples. Bart oversees the laboratory that conducts tests on bee samples sent in by beekeepers and inspectors. The tests identify the bee diseases and parasites, especially American Foul Brood, so that beekeepers and Inspectors can take the proper course of action or treatment to manage or contain the problem. Before working at the Beltsville Bee Lab, Bart was **Maryland's State Apiary Inspector**.

We also will have **BUMBA** member **Tim McMahon** speak briefly about the **Eastern Apicultural Society (EAS)**, the benefits of membership, and their annual conference. Tim recently was recently elected the EAS Director for Maryland and he is also our club's most recent **EAS Certified Master Beekeeper**. Congratulations Tim!

The President's Smoker

Happy New Year to everyone! I hope that 2015 will prove to be a great year for beekeeping in Maryland. I have peeked in on some of my colonies over the past couple of weeks, and have been hefting them for weight. Most have remained fairly heavy with stores to date, and among the full size hives I am encouraged that they are alive and not right up at the top. I have checked and placed sugar on all of the nucs twice since the holidays. On the second round I found 3 nucs had frozen out during that extreme dip in temperature a couple weeks ago. The clusters were just too small to generate enough heat. The other 46 nucs seem well populated and I have great hopes for their survival, but it is still a long way to go. I have been following www.beesource.com quite regularly lately, and it is unfortunate how many first and second year beekeepers are losing their hives. The most common cause is pretty obviously stress from *Varroa* mite predation and possibly the 20-some viruses they vector into the colonies. All too often, when queried, the beekeepers did not perform mite counts and did not understand the need to monitor mite loading on a continuous basis. I think we need to devote some meeting time to this subject, and try to press it home more earnestly in our short course.

Speaking of the **Short Course**, for 2015 the course will begin on February 19th and run through March 26th. The **Field Day** is tentatively scheduled for April 11th, and **Scott Seccomb** invited us to hold it at his apiary again this year. Although the short course represents a tremendous effort and commitment to the **BUMBA** volunteers each year, I really look forward to presenting it to our students. It is one of my favorite parts of the beekeeping experience.

The registration count from Jutta yesterday was that we have 43 students registered and paid, and 4-5 more registered awaiting payment. This means that I will shortly have to close registration, and we will have a full house again this year. There are several members/prior year students who have asked to audit the course, and this is always open to members if you wish to partake of some or all of the classes. The rules are that you must be current on your dues, have graduated from a **BUMBA** short course in a previous year, and you will not receive outlines or be eligible for door prizes or the student hive raffle. Also, if the body count gets too high for the room capacity, you may be asked to vacate...(that hasn't happened to date). The field day is open to all members, and when the weather cooperates we all have a really good time, and the newbees get a chance to mingle with the more experienced members.

The **BUMBA** Holiday Party was once again well attended and a good time was had by all. Thank you, **Leigh**, for organizing it, and thank you to all who worked to make the gathering a memorable occasion. The quilt that was made and donated by **Jan Day** was drawn for and awarded at the holiday event, and was won by my wife, Vanessa. We were both thrilled to win the beautiful quilt crafted in a beekeeping theme. Thank you Jan Day, for your generous donation to our club and beekeeping. I believe the raffle tickets brought in \$405.00, and we shall find something special to do with the proceeds.

Welcome back **Mellie Landon**, who always pleases us at our meetings with so many delectable snacks. Mellie had to be away for the past several meetings and we welcome her return. Mellie has honored **BUMBA** in another way recently...she donated a hive of bees to **Heifer International**, an organization that has assisted smallholder farmers in many countries of the world including the United States, to increase their farm income and feed their families more nutritious meals. Mellie made her generous donation in the name of **BUMBA**. Thank you, Mellie!

Hope to see you all at the February meeting!

God save the queen!

Bob Greenwell

MSBA Winter Meeting

Feb 14, 9:30AM – 4:30PM

Howard County Fair Grounds
West Friendship, MD

www.mdbeekeepers.org

Featured Speaker: Dr. Reed Johnson, OSU

The featured speaker of the meeting will be **Dr. Reed Johnson, of Ohio State University**. Dr. Johnson's research focuses on interactions between pesticides and pollinators His team at OSU just made the news with new research into the DNA of pollen sources as a way of understanding colony needs: understanding honey bees' pollen preferences can provide insights to what a colony needs and help improve the quality of foraging habitats.

Other speakers will include **Dr. Mike Stebbins** of the **White House Office of Science and Technology Policy** to discuss the impact of the June 2014 Presidential Memorandum on Pollinator Health on beekeeping in our region.

The program will also feature a presentation from **Billy Davis** (see his YouTube videos on sustainable beekeeping), founder of The **Sustainable Honeybee Program** (www.sustainablebees.org) and one of the creators of the **Northern Virginia Teaching Consortium**, a shared curriculum now training hundreds of new beekeepers a year across Virginia, West Virginia, and Washington DC. Billy has previously presented to MSBA on queen rearing.

Fred and Daniel Smith will present the latest "**Honey Regions of Maryland**" talk, concentrating on the Cumberland Valley Region.

DC Beekeepers' Alliance

www.dcbeekeepers.org

The **DC Beekeepers Alliance** is now holding regular meetings on the 3rd Wednesday of each month at the **Rock Creek Nature Center** of the National Park Service, 5200 Glover Road NW from 6:30 PM to 8 PM. For directions and other meeting information, visit www.dcbeekeepers.org

UMd Beginner's Beekeeping Course

March 28-29

Online registration closes March 22

Come join us for an entire weekend of lessons taught by experienced beekeepers and researchers teaching you how to:

- obtain bees;
- what beekeeping equipment is necessary;
- how to install your new colony into your own equipment; and
- how to bring your bees successfully through the first year.

Your program instructors will be:

Dr. Dennis vanEngelsdorp, honey bee researcher and UMD professor.

Karen Rennich, Executive Director, Bee Informed Partnership (www.beeinformed.org).

Toni Burnham, Maryland State Beekeeping Association president and monthly columnist in "*Bee Culture*"

Cybel Preston, Maryland State Apiarist

Kirsten Traynor, honey bee researcher and contributor to "*American Bee Journal*"

... and other UMD dedicated honey bee researchers.

In addition to meeting local bee researchers and instructors, you will also be introduced to your local bee clubs and enjoy facilitated

discussions and Q&A. The course includes a beginning beekeeping book, and lunch and coffee breaks for both days. Vendors also will be on hand to sell and place orders for equipment.

For more information contact **Grace Kunkel**, gkunkelUMD@gmail.com, or visit our website for details and registration information at:

<https://app.certain.com/profile/form/index.cfm?PKformID=0x1988997b8e8>

CLUB HAPPENINGS

Leader Needed for BUMBA's Outreach Program

David Morris

Two of the things that I feel make **BUMBA** a special club are the success and quality of our Beginning Beekeeping Course and our public outreach events. Our beekeeping class is well organized by Bob Greenwell and the BUMBA Board with classes conducted by many BUMBA volunteers.

Our outreach events present the positive image of beekeeping and honey bees that it deserves and needs. The driving force behind this extremely successful publicity campaign for many years has been **Linda Thompson**. The time has come to pass on the responsibility for our Outreach Program to a new leader. It could be YOU!

The primary responsibility is to organize the **BUMBA** events calendar, identify organizers for each event and assist the organizers with getting equipment and volunteers.

If you think you could help the club with our events, either as our program leader, as an event organizer, or as a volunteer for an event near you, speak to an officer at the meeting, make a phone call, or send an email. The **BUMBA Officers** names and contact information is available on the last page of the newsletter.

MEMBERS' CORNER

Bee Quilt Raffle Winner!

Jan Day's bee-utiful bee quilt was raffled at the Holiday Meeting as announced. The winner was **Vanessa Greenwell**. BUMBA raised over \$400 from the quilt raffle.

EAS 2015 Summer Convention

August 10-14

The University of Guelph, Ontario, Canada

Take a Summer Beekeeping Vacation

Timothy McMahon, EAS Director for Maryland



Have you ever considered taking a “Beekeeping Vacation”? Well now is the time to go out and get your passport renewed as **EAS 2015** will be taking place in Guelph, Ontario (about 1.5 hours north of Niagara Falls, New York, this is 8 to 10 hours away from Maryland, by car, depending upon where you live). EAS (Eastern Apiculture Society) is one of the largest noncommercial beekeeping organizations in the United States and one of the largest in the world. Every summer EAS conducts its week long meeting of classes, lectures and workshops in one the 26 member states or Canadian provinces. This year's EAS conference will be held at the University Guelph, Ontario, from August 10 through August 14. The conference usually brings in about 600 to 800 beekeepers from around the world to attend.

The conference is made up of the **Short Course**, running from Monday to Wednesday, and the **Annual Conference** proper, running from Wednesday to Friday, with Wednesday the overlap day. Normally about half of the attendees stay the whole week with the other half coming just for the conference. The Short Course contains beginning and advanced classes for beekeepers of all levels, as well as special events such as an open apiary with **Langstroth, Warre' and Top Bar Hives**, a microscope workshop on bee anatomy, a Honey Show for you to enter your bee products, and classes on all aspects of beekeeping. The conference proper will consist of over 100 different talks about all aspects of beekeeping including **queen rearing, brewing mead and beer, and IPM (Integrated Pest Management)**. Along with the workshops there are many social events, such as a tour of a large commercial beekeeping operation, a meadery and the **Niagara Butterfly Conservatory**. In one week's time, you can learn more about beekeeping than you ever possibly imagine. The vendors' displays give you an opportunity to check all the fancy and unusual equipment you read about in the catalogs, as well as get those hard to find bee books.

I first attended EAS several years ago in Boone, NC, and the experience was so great that I became a life time member. I've not missed an EAS conference since. Every year I go with a set of questions in mind that I then try to find the answers to from the best minds in Beekeeping. Can't get much better than that. Maybe the best thing about the week-long EAS was that I get to talk “bees” all week long and no one says that they had heard enough (normally my family asks me to shut-up after the first 2 minutes or so). You can find out all about the specific topic covered and how to sign up at the EAS webpage here <http://www.easternapiculture.org/>.

I hope to see you there. EAS 2016 is scheduled for New Jersey, 2017 in Delaware and 2018 in Virginia. Come and join the fun!

Recipes from the National Honey Board

Check out the numerous National Honey Board recipes at www.honey.com. Here is one.

Spice-crust Salmon with Orange-honey Glaze

from the National Honey Board

Ingredients:

3/4 cup - orange juice
1/4 cup - honey
2 tablespoons - lemon juice
1 teaspoon - grated ginger
1 1/2 teaspoons - cornstarch, mixed with 1 1/2 teaspoons water
- salt and black pepper
2 - egg whites
2 tablespoons - cumin seed
2 tablespoons - whole coriander
2 tablespoons - fennel seeds
2 tablespoons - vegetable oil
4 (4-ounce) - wild Alaska salmon filets or wild Alaska halibut filets, skin on

Directions:

To make Orange-Honey Glaze, in a small nonreactive saucepan, whisk together orange juice, **honey**, lemon juice and ginger. Bring to a simmer over medium heat; whisk in cornstarch mixture and simmer 1-2 minutes, whisking constantly, until mixture thickens. Season with salt and pepper. Keep warm.

In a shallow bowl, lightly whisk egg whites until foamy. In an electric spice grinder or a blender, grind spices to coarse powder and spread on a plate. Dip flesh side of filets first in egg whites, then in spice mixture. In a sauté pan, heat oil over medium heat until hot. Place filets in pan, skin side up, and cook about 5 minutes or until a medium brown crust forms on the flesh side, being careful that spices do not burn. Carefully turn with a spatula and cook on skin side about 5 minutes or until a small sharp knife feels no resistance when pushed into the flesh. Place the fish, crust side up, on a warm serving platter

or on individual plates and drizzle with Orange-Honey Glaze.

BEES IN THE NEWS

Excerpts from “Catch the Buzz” at BeeCulture.com

Codenamed ‘MiteNot’. This technology is a simple, compostable and pesticide-free way to sterilize Varroa destructor mites.

Eltopia is in early stage development of a simple, pesticide-free way to remove varroa destructor mites in bee hives. Groundbreaking new technology, code named ‘MiteNot’, will sterilize mites thereby eliminating them without harming the bees. The ‘MiteNot’ is currently in research, development and testing with the **University of Minnesota Bee Lab**.

“To save the bees, beekeepers and bee researchers need a new, non-chemical way to control mite parasites in honey bee colonies. Eltopia's ‘MiteNot’ project is the most innovative and holds the most promise to turn the bee crisis around than any other idea that has come along in a very long time -- maybe ever.” – **Marla Spivak**, Distinguished McKnight University Professor Apiculture/Social Insects, **University of Minnesota**

Varroa destructor mites exist in almost all hives in North America. If left untreated, evidence supports mites kill honey bee colonies and may be a factor in colony collapse disorder. ‘MiteNot’ uses a compostable circuit board that senses the stages of the bee broods reproductive cycle and applies heat at a specific temperature and time to sterilize the mites. The heat is applied when the honeycomb cells have been capped and the temperature stabilizes. This is the approximate time when female mites lay eggs but before the male mites can fertilize, thus interrupting the mites’ lifecycle.

Although this is a complicated process, ‘MiteNot’ is very easy for

beekeepers to use. Just one frame per beehive needs to be swapped for a 'MiteNot' frame. Eco-conscious and well-engineered, 'MiteNot' is housed within a frame and wax covered compostable circuit board. The circuit board is created from renewable resources, such as cornstarch. The circuit board is covered in wax making it undifferentiated in use and appearance compared to a standard honeycomb foundation. Beekeepers can continually reuse the 'MiteNot' frame and have the ability to insert a new wax covered circuit board as necessary.

"We are confident that we will bring the 'MiteNot' to market. We are on target to deliver an effective, affordable and non-toxic solution to both commercial and hobbyist beekeepers to control varroa destructor mites. Additionally, we are excited about the other potential applications of our compostable circuit technology to solve other colony challenges. The applications of this technology extend within and beyond agriculture." – **Will MacHugh, CEO Eltopia** www.eltopia.com

{Eltopia describes itself as "finding solutions that are responsible, renewable and made with great craftsmanship" and "is also innovating to help save the honeybees..." editor

Pollinator Declines Are Crucial For Human Nutritional Health

A new study shows that more than half the people in some developing countries could become newly at risk for malnutrition if crop-pollinating animals -- like bees -- continue to decline.

Despite popular reports that pollinators are crucial for human nutritional health, no scientific studies have actually tested this claim -- until now. The new research by scientists at the **University of Vermont and Harvard University** has, for the first time, connected what people actually eat in four developing countries to the pollination requirements of the crops that provide their food and nutrients.

"The take-home is: pollinator declines can really matter to human health, with quite scary numbers for vitamin A

deficiencies, for example," says UVM scientist Taylor Ricketts who co-led the new study, "which can lead to blindness and increase death rates for some diseases, including malaria."

It's not just plummeting populations of bees. Scientists around the world have observed a worrisome decline of many pollinator species, threatening the world's food supply. Recent studies have shown that these pollinators are responsible for up to forty percent of the world's supply of nutrients.

The new research takes the next step. It shows that in some populations -- like parts of Mozambique that the team studied, where many children and mothers are barely able to meet their needs for micronutrients, especially vitamin A -- the disappearance of pollinators could push as many as 56 percent of people over the edge into malnutrition.

The study, "Do Pollinators Contribute to Nutritional Health?" was led by **Alicia Ellis** and **Taylor Ricketts** at UVM's Gund Institute for Ecological Economics and **Samuel Myers** at the Harvard School of Public Health. It appears in the **January 9 issue** of the journal **PLOS ONE**.

The "hidden hunger" associated with vitamin and mineral deficiencies is estimated to harm more than 1 in 4 people around the globe, the scientists note, contributing to increased risk of many diseases, reduced IQ and diminished work productivity. "Continued declines of pollinator populations could have drastic consequences for global public health," the team writes.

"This is the first study that quantifies the potential human health impacts of animal pollinator declines," says Myers. Earlier studies have shown links between pollinators and crop yields -- and between crop yields and the availability of food and nutrients. "But to evaluate whether pollinator declines will really affect human nutrition, you need to know what people are eating," Myers explains. So the new study examined the full pathway from pollinators through to detailed survey data about people's daily diets in parts of Zambia, Mozambique, Uganda and Bangladesh.

"How much mango? How much fish?" says Ricketts. "And from that kind of data we can find out if they get enough vitamin A, calcium, folate, iron and zinc." Then the scientists were able to examine the likely impact a future without pollinators would have on these diets.

And for parts of the developing world, that future could well include "an increase in neural tube defects from folate deficiency or an increase in blindness and infectious diseases from vitamin A deficiency," Myers says, "because we have transformed our landscapes in ways that don't support animal pollinators anymore."

"We find really alarming effects in some countries for some nutrients and little to no effect elsewhere," Ricketts says. On the bleak end of the spectrum, the team projected little difference in Bangladesh, since so many people there are already malnourished. And, at the other end of the spectrum, Zambia should be relatively insulated from this risk. That's because -- though the scientists project reductions in the intake of vitamin A with pollinator declines in Zambia -- "there is so much vitamin A in the diet already that it didn't push very many people below the threshold," Myers explains.

This new study fits into an emerging field of research exploring how the very rapid transformation of Earth's natural systems affects human health. The big picture? "Ecosystem damage can damage human health," Ricketts says, "so conservation can be thought of as an investment in public health."

Excerpts from "ABJ Extra" at Dadant.com

True Source Applauds U.S. Investigators for Seizing Illegal Chinese Honey in Houston

Washington, D.C. – January 29, 2015 – The True Source Honey Certification™ Program applauds special agents with **U.S. Immigration and Customs Enforcement's** Homeland Security Investigations, and officers with **U.S. Customs and Border Protection**, for yesterday's announcement that they have seized

significant amounts of illegal honey in Houston in an ongoing effort to crack down on illegal trade in Chinese honey. Such activity threatens the U.S. honey industry – from beekeeper to packer – by undercutting fair market prices and damaging honey's reputation for quality and safety. A government news release reports that since October the special agents have seized almost half a million pounds of illegally imported Chinese honey valued at \$2.45 million destined for U.S. consumers. "This is excellent work on the part of the federal authorities, but unfortunately it demonstrates that illegally shipped Chinese honey continues to make its way into the United States," said True Source Honey Executive Director **Gordon Marks**. "Consumers, retailers and food manufacturers need to demand certified honey. That is the most powerful way to eliminate this harmful practice." The True Source Certified™ logo on honey packages ensures that the source of the honey has been independently certified through a third-party audit system. Further information, including a search function to check honey products, can be found at www.TrueSourceHoney.com.

Wild Pollinators at Risk from Diseased Commercial Species of Bee

A new study from the **University of Exeter** has found that viruses carried by commercial bees can jump to wild pollinator populations with potentially devastating effects. The researchers are calling for new measures to be introduced that will prevent the introduction of diseased pollinators into natural environments.

Commercial species of honey bee and bumble bee are typically used to pollinate crops such as tomatoes, sweet peppers and oilseed rape. Fast evolving viruses carried by these managed populations have the potential to decimate wild pollinator species, including bees, hoverflies and butterflies, placing biodiversity and food security at risk.

The global value of insect pollinators has been estimated to be around €153 billion per annum. Commercial pollination services are provided predominantly by honeybees and bumblebees, but wild

pollinators play an important role pollinating crops as well as native plants. Pollinators have suffered declines and extinctions in recent years as a result of habitat destruction, with pesticide use and infectious diseases playing a potentially increasing role.

Club Programs

BUMBA has initiated several programs over the years and we are always looking for members' assistance. For more information about a program please contact an officer.

BUMBA Extractor for members' use

BUMBA now has two honey extractors for members to use. The extractor managers are **Chuck Mewshaw** (ctmmaw@aol.com, 301-249-3229) and **Gerry Jones** (gejones486@verizon.net, 301-577-1365). Each has a complete set of equipment. The Board has established an extractor agreement, rules, and cleaning instructions. Copies are available from the managers. To reserve the equipment, call the managers, bring a \$50 refundable deposit (cash or check upon pickup), and sign the use agreement and inventory form. Please be sure to read what you are signing☺. The first 4 days are free!

Chuck and Gerry report that the extractor was been borrowed 6 times in 2014. The extractors have always been returned on time and in good shape. To reserve your use of either of the extractors, simply email or call Chuck or Gerry!

www.BUMBAbees.com

Check out the club web site maintained by **Toni Burnham**, www.bumbabees.com. You will find meeting schedules, newsletters, information and membership application forms (payments are still by mail or at a meeting.) *We need content, pictures, ideas, suggestions and help with administration.* If you have any interesting photos to add to the photo gallery, send them with a short description or story to Toni at phang@tonitoni.org.

www.BUMBAbees.com/forums

Check out a new feature. Thanks to **Scott Seccomb** and **Toni Burnham**, we have a private web forum on the BUMBA web page for members' use.

Free State Bee Supply 10th Anniversary Sale!

David and Laura Polk

It's hard to believe, but it's been 10 years since Laura and I have been running **Free State Bees**, and it's the 11th season we've been supporting the local beekeeping community with a full line of locally available equipment and supplies.

10% off AND Free Shipping Sale

Details: All orders received by Feb 22 will receive a 10% discount (discount will apply to most, but not all items). You can order any item from the Brushy Mountain catalog <http://www.brushymountainbeefarm.com/> I'll have your order ready for pick up in Waldorf beginning Feb 28th.

To order, send an email to freestatebees@gmail.com with your full name, address, and primary phone number. Include the Brushy Mountain catalog item number, quantity, and short title. I'll confirm your order by sending you an invoice with details on payment.

2015 PACKAGE BEES

To order 3lb package bees, please send an email with your full name, address and primary phone number along with the number of packages you'd like with which type of queen (Italian (\$99) or Russian (\$102)). Queens will be marked. I'll confirm your order by sending you an invoice with payment info. (Normally, I will work on invoices over the weekend.) I'll be picking up the main shipment as early in April as possible as soon as the bees are available. A smaller shipment will be sent to me via USPS approximately 2 weeks later (mid-late Apr).

PAYMENT METHODS: I prefer cash or check. I can accept credit cards. Effective 1 Jan, there will be a 3% handling fee for processing payment by credit card.

FREE STATE Bee Supply

Your local bee supply dealer

Free State Bees, 2420 Mill Hill Rd
Waldorf, MD 20603-3752

Phone: 301-580-9313.

Email: freestatebees@gmail.com

Call or email if you have any questions.

Please be sure to call ahead to set up a time to visit! As
always, thank you for your continued support!

Dave and Laura Polk

BUMBA Meets at - Watkins Park Nature Center

BUMBA annual dues are \$15. Our regular meetings are held on the 1st Thursday of the even months at the **Watkins Park Nature Center, 301 Watkins Park Drive in Largo**. From Route 301 or I-495 take Central Ave. (Rte 214) to the intersection with Enterprise Rd. (Rte 193). Turn south onto Watkins Park Dr. and go ½ mile to the park. Follow the road all the way to the back to the Nature Center. We thank the Nature Center Staff for their assistance.

For information about the Nature Center, please call **301-218-6702**

Electronic Newsletter

As with all organizations cost cutting is always on the table. One way we reduce our expenses is by eliminating the printed newsletter mailed 6 times a year at a cost of roughly \$1 per newsletter. People who don't have email, of course, continue to receive it. If you are willing to depend on email delivery, please inform our editor, **David Morris**, via email. Help keep club \$\$'s in the bank for club activities

Notice of your dues will either be on your label or in your email message

Every club needs a little money to keep it going. Although **BUMBA** is solvent, dues are needed to cover meeting room rental, speakers, refreshments and the newsletter. **BUMBA** annual dues are **\$15**. Please remember to bring your cash or check to the next meeting. Consider paying for two years, as a commitment to beekeeping. Jutta loves to find checks in the mailbox, so you can mail your dues to:

Jutta Dunaway, **BUMBA** Treas., 11814 GALAXY LANE, BOWIE, MD 20715

NAME: _____

ADDRESS: _____

CITY: _____ ST ____ ZIP _____

TELEPHONE: _____ EMAIL: _____

Check if you are willing to help out with a club activity or program

Club Calendar

Put these dates on your **2015 BUMBA** Calendar:

- February 5, 7:30-10, BUMBA Mtg
- February 14, 9:30-4:00 MSBA Mtg, Howard County Fair Grounds, W. Friendship
- February 19 & 26, 7-10PM; Short Course
- March 5, 12, 19 & 26, 7-10PM; Short Course
- April 2, 7:30-10, BUMBA Mtg
- April 11, BUMBA Field Day
- June 4, 7:30-10, BUMBA Mtg
- June ??, MSBA Summer Mtg
- August 6, 7:30-10, BUMBA Mtg
- October 1, 7:30-10, BUMBA Mtg
- November ??, MSBA Fall Mtg
- December 3, 7:30-10, BUMBA Mtg

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