

Enter by July 2; contact by Aug. 1; visit the drop off by Aug. 8

## KDA, UK Extension partner to help deliver your entries to the 2018 Kentucky State Fair

Are you a state fair competitor who needs help getting your entries to the 2018 Kentucky State Fair (KSF)?

In a new partnership, the Kentucky Department of Agriculture (KDA), the University of Kentucky Cooperative Extension Service, and KSF are teaming up to deliver selected agriculture and non-ag general department exhibits. To successfully enter, you must:

- file your entry **by July 2;**
- contact your regional drop-off location **by Aug. 1;** and
- deliver your entries to your designated drop-off area **by Aug. 8** between 8:30 a.m. and 4 p.m. local time.

The four exhibit drop-off locations statewide:

- **HOPKINSVILLE:** Jay Stone, Christian County Extension Office, 2850 Pembroke Road, Hopkinsville 42240, (270) 886-6328;
- **LONDON:** Glenn Williams, Laurel County Extension Office, 200 County Extension Road, London 40741, (606) 864-4167;
- **PADUCAH:** Robert Tashjian, McCracken County Extension Office, 2025 New Holt Road, Paducah 42001, (270) 554-9520; and
- **JACKSON:** Jackie Allen, Robinson Center, 176 Robinson Road, Jackson 41339, (606) 666-2438, extension 291.

Prior to being dropped off for pick-up, all entries must be packaged to meet traditional freight services requirements, must be labeled, and must contain the official KSF tag. All exhibitors must fill out an exhibit tracking



To check that your entries qualify for delivery, and to review the deadlines and packing instructions, visit [kystatefair.org/wp-content/uploads/2018/06/KSF-Entry-Delivery-Opportunity.pdf](http://kystatefair.org/wp-content/uploads/2018/06/KSF-Entry-Delivery-Opportunity.pdf) or call (502) 782-4114.

sheet, designate if they will pick up their entries during release times, and sign a liability waiver form.

Bees and Honey entries such as honey jars, candles, and displays may be shipped in this manner. Bees and Honey Culinary entries and observation hives do not qualify for this pickup shipping offer.

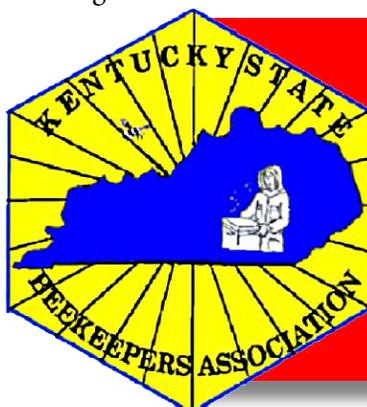
Other entries qualifying for drop-off include antiques, canned goods and preserves, egg show, field seed and grain, fine arts and crafts, fruits and nuts, hobbies, plants and flowers, Kentucky country hams, textiles, dry tobacco, and vegetables and melons.

Other entries that do not qualify include baked goods, dairy products, homebrew beer, homemade wine, and other entries hard to handle or difficult to package for shipping.



### Here it comes...

University of Kentucky entomology graduate student Adam Baker (left) points out the approaching future for pollinators in the Bluegrass. Baker, State Apiarist Tammy Potter, and Robert Myers attended the Pollinator Stakeholders' spring meeting at the UK Research Farm and Columbia Gas of Kentucky. More, pages 2 and 3.



**KSBA VENDORS: REVIEW INSURANCE REQUIREMENTS**  
Needed before July meeting ... See page 3



Dr. Bernardette Mach, recent University of Kentucky graduate in entomology (standing, in hat), talks to the pollinator protection group at the UK Research Farm in Lexington, holding a pollinator knowledge-sharing and strategizing session. L-r: Matt Geis, Tammy Potter, Mach, Kyla O'Hearn (behind Mach), Dr. Carl Redmond, Adam Baker, Sarah Preston, Shannon Trimboli (seated), Paige Wilson (yellow shirt), Robert Myers, Ellen Mullins (seated), Dave Harmon, and Lewis Bradley.

## Pollinator Week celebrations held all across Kentucky

By Tammy Potter, Kentucky State Apiarist

As part of a national effort to celebrate pollinators and their advocates, **Governor Matt Bevin** declared June 18-23 as **Pollinator Week** in Kentucky.

Events throughout the week began with the Kentucky Department of Agriculture Pollinator Protection Plan stakeholder meeting held at the **University of Kentucky (UK) Research Farm** and then moving to **Columbia Gas of Kentucky** headquarters in the afternoon.

### Neonics and clethora

**Dr. Bernadette Mach**, recent graduate research assistant in **Dr. Dan Potter's** entomology lab, presented her research into neonicotinoid insecticides Safari and Merit, and how they were applied to clethora, a plant that attracts all kinds of insects as a bountiful nectar producer. These students work with plants in urban environments, seeing how the plants respond to chemicals people are using.

### Milkweed distribution

Graduate student **Adam Baker** has researched whether placement of milkweeds in a garden affects monarch visitation.

Baker reported taller species of milkweed get more visitation, and perimeter locations for milkweed in a garden attract three times more monarchs than other distributions, both suggesting monarchs use a visual fix to locate the plants vital to their life cycle.

### Aggression in bees

Graduate student **Sarah Preston**, a graduate student in **Dr. Claire Rittschof's** lab, brought displays to illustrate honey bee aggression and show how honey bees modify their behavior depending on environmental cues.

Stress has an effect on queen behavior but does not seem to affect immunity as much as previously thought, she said. However, fungicides in pollen that honey bees bring to the hive can prevent processing pollen into bee bread. Preston explored possible sublethal impact of fungicides on larva.

### Bee visits to milkweed

Graduate student **Matthew Geis** shared his work on honey bee visitation to milkweed, which secretes copious nectar but little pollen.

Also attending the sessions:

- **Lewis Bradley**, Bayer Pharmaceuticals.
- **Jen McDaniel**, Duke Energy, who is considering a similar pollinator promotion event.
- **Ellen Mullins**, Kentucky Transportation Cabinet biologist, who promotes contractors and crews efforts to install

See **POLLINATORS**, page 4



Presenters, along with Dr. Mach: (l-r) Kyla O'Hearn, Sarah Preston, Dr. Carl Redmond, and Matthew Geis.

Photos by UK professor Joe Omelian



Sarah Preston's display explored and demonstrated the effects of stress on honey bee aggression.



Adam Baker demonstrates two of the points of his presentation -- taller milkweeds get more monarch visitation, and milkweeds around the perimeter of a garden attract monarchs, probably through visual cues.

### Meeting hosts, spring and fall

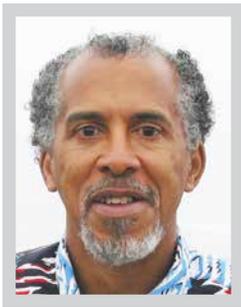
Linda Porter (*upper right*) and Joanna Kirby (*lower right*) of the Garden Club of Kentucky will host the next Stakeholder Group meeting this fall. Their efforts have increased Kentucky's monarch waystations from 30 to 542 as of March 2018.



At left, with Tammy Potter (*left*) are the hosts for the Columbia Gas of Kentucky meeting, Susan Murray (*center*) and Tony Tipton. They are working to establish pollinator-friendly plants on company-controlled rights-of-way. They hold Governor Matt Bevin's Pollinator Week proclamation.



The pollinator opinion leaders at Columbia Gas of Kentucky.



Jim Embry (above) and the Madison County Pollinator Working Group donated milkweed plants to Berea citizens and others.



Dr. Richard Olson (left) operator of Berea Urban Farm, and Bob Harned (right), Berea College farm manager, at the Berea pollination celebration.

## POLLINATORS ... from page 2

pollinator-friendly plants on Kentucky interstates. Also there showing Transportation's support were **David Cornett**, **Dave Harmon**, **Steve Kempf**, and **Mike Smith**,

- **Susan Murray** and **Tony Tipton**, Columbia Gas hosts for the event. They are involved with the effort to establish pollinator-friendly plants on rights-of-way.
- **Robert Myers**, Kentucky State Parks, who helps develop monarch waystations.
- **Joe Omielan**, UK Department of Plant and Soil Sciences, who served as the group's photographer.
- **Casey Schrader**, Kentucky Department of Fish & Wildlife.
- **Shannon Trimboli**, Kentucky State Beekeepers Association (KSBA) webmaster and 2017 KSBA Beekeeper of the Year.
- **Paige Wilson**, representing a consulting group in Louisville, working with solar energy companies to establish pollinator habitat on the perimeters of their properties.

## Research

An original paper by Adam Baker and Dan Potter in the *Journal of Insect Conservation*, assessing eight species of milkweeds: <https://rdcu.be/T5oD>

A chart by Dr. Mach and team, assessing woody ornamental plants according to their potential for bee conservation: <https://entomology.ca.uky.edu/files/bmachposter.png>

A list of bee-friendly trees and shrubs, their ratings, and bloom times: <http://growwise.org/wp-content/uploads/2017/02/HRI-Pollinator-BeePlantLists-February2017.pdf>

## Further celebrations

- On June 19, **Berea Municipal Utilities** held a press event inviting the public to appreciate its efforts to convert some of its yard into pollinator habitat and walking trails.
- At **Nathaniel Mission** in Lexington on June 21, a children's program on pollinators was held (*photo, page 5*).
- That same day, Berea Urban Farm hosted an evening event, honoring multiple community partners and their efforts to establish monarch waystations and care for honey bee hives.
- The week ended with Lincoln County Cooperative Extension hosting a Bee Day coordinated by FCS agent **Nell Manning** with assistance from **Esther Peterson Bailey**, a lunch featuring strawberry tea made with honey coordinated by **Brenda Caudill** and **Betty McReaken**, door prizes from local beekeepers, an observation hive brought by **Tim Syler**, and a talk by **Tammy Potter**.

## Monarchs inspire wonder



Ember Wilson, 2, is entranced by monarchs under the care of Berea College first lady Laurie Roelofs during the Berea Urban Farm event. Ember's father is Matthew H. Wilson, small farm production advisor to the college's Grow Appalachia program. (Tammy Potter photos)



### Introducing children to bees

Martin Brock, of the Chemistry Department of Eastern Kentucky University, Richmond, and State Apiarist Tammy Potter conduct a Summer Outreach Program coordinated by Nathaniel Mission in Lexington.

## State Apiarist's schedule

- **July 2:** USDA sampling.
  - **July 9:** USDA sampling.
  - **July 11:** Project Apis M board meeting, Minneapolis. ✱
  - **July 12-13:** Heartland Apiculture Society, St. Louis.  
(More information, page 6.)
  - **July 14:** Madison County B.A. Special speaker **Mel Disselkoen**, author of *On the Spot Queen Rearing: A Survival Guide for Beekeepers Worldwide*. (see below)
  - **July 16:** USDA sampling.
  - **July 19:** Southeastern Kentucky Beekeepers Association, 200 County Extension Road, London.
  - **July 23:** USDA sampling.
  - **July 24:** Kentucky Association of Teachers of Family & Consumer Science, Louisville.
  - **July 28:** Eastern Kentucky Beekeepers Co-Op dialogue, Red Bird Mission, Beverly.
  - **July 30:** USDA sampling.
- ✱ — *The State Apiarist attends on personal time.*

## Beekeeper education events

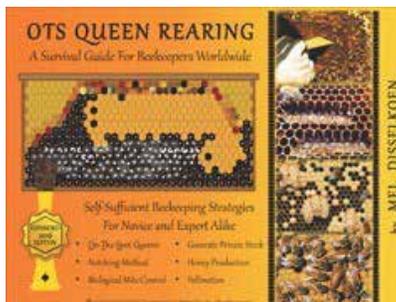
- **July 11-13:** Heartland Apicultural Society, St. Louis. (Page 3.)
- **July 14:** The Madison County Beekeepers Association is sponsoring an appearance by author and beekeeper **Mel Disselkoen** on his OTS (On The Spot) Queen Rearing System and mite control.

Disselkoen' will speak at 9 a.m. EDT Saturday, July 14 at the Madison County Extension Office, 230 Duncannon Lane, Richmond.

A 40-year beekeeper in Michigan, he has presented to state beekeeping associations of Illinois, Indiana, Michigan, and Pennsylvania.

Disselkoen has expert knowledge of beekeeping, queen rearing, mite control, swarm control, and genetics. He promotes his OTS system as one that is easy to perform, is doable by beginning beekeepers, is done at the hive, controls mites, and helps avoid the cost of purchasing queens.

Weather permitting, Disselkoen will also stage an afternoon "hands on" apiary experience.



### Glass houses

Jim Coss, of the Honey and Bee Connection, Morehead, shows his observation hive. (Tammy Potter photo)

Madison County Extension Office email: [dl\\_ces\\_madison@email.uky.edu](mailto:dl_ces_madison@email.uky.edu). Phone: (859) 623-4072.  
Mel Disselkoen's website: [mdasplitter.com](http://mdasplitter.com).

Deadline is July 10

# KSBA fall vendors must prove liability insurance

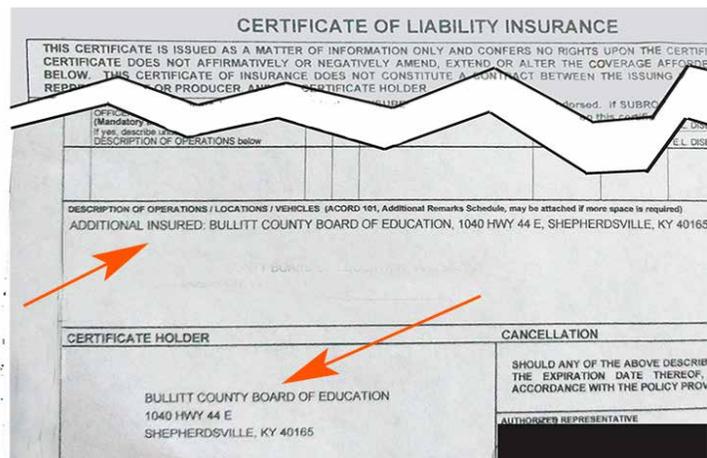
Vendors planning to be part of the fall conference of the **Kentucky State Beekeepers Association (KSBA)** must quickly handle some newly-discovered late-breaking requirements that potential vendors provide advance proof of their liability insurance within the next couple of weeks.



**Mike Mabry KSBA vice president**, says vendors must have a **Certificate of Liability Insurance** on file at the Bullitt County Board of Education by **July 10**.

This deadline is so the Board may act on the completed KSBA application on July 16. "If the vendors do not have their insurance info in as dated, they will not be able to participate in this fall conference," Mabry warned, apologizing in an email for the "last-minute bump in the road," discovered in mid-June.

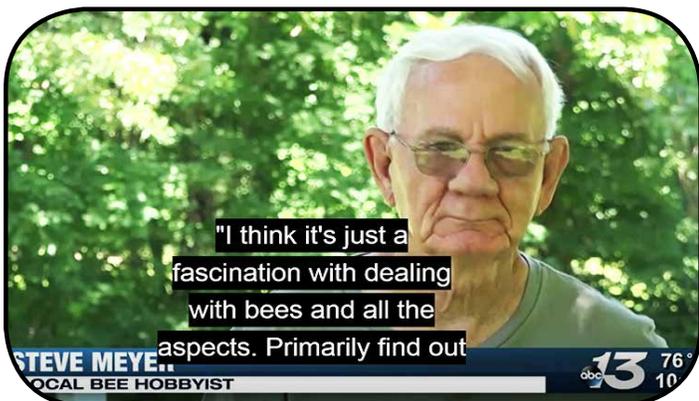
The application KSBA must file to comply with the requirements specifies that vendors have coverage minimums of \$10,000 property damage and \$1 million personal injury for the event at Bullitt Central High School.



Vendors, please make sure your insurer lists the Bullitt County Board of Education, with the address, as an Additional Insured and a Certificate Holder on the insurance company's "Certificate of Liability Insurance." KSBA's certification is shows here, in part. The insurance agent or company may not immediately know how to properly indicate what you need here.

Also the Bullitt County Board of Education and its address (1040 HWY 44E, Shepherdsville, KY 40165) must be listed as an Additional Insured and the Certificate Holder. Mabry cautions, "Many insurance companies don't know how to do that," so vendors should be careful the certifications are correctly completed.

Vendors: Email your insurance confirmations to [tracy.hasting@bullitt.kyschools.us](mailto:tracy.hasting@bullitt.kyschools.us) or [angie.troutman@bullitt.kyschools.us](mailto:angie.troutman@bullitt.kyschools.us).



You can view Steve's segment online at [wbko.com/content/news/SPECIAL-REPORT-The-buzz-about-local-beekeeping--485400811.html](http://wbko.com/content/news/SPECIAL-REPORT-The-buzz-about-local-beekeeping--485400811.html).

## Be ready when the TV station calls!

Beekeepers prepared to put friendly faces on their craft for the benefit of broadcast reporters perform a valuable service to Kentucky's beekeeping industry.

**Darby Beene**, reporter for WBKO-TV in Bowling Green talked to area beekeepers **Steve Meyer** (pictured) and **John Hepner** for a report on beekeeping in the local viewing area.



Still time to register

## St. Louis HAS conference offers educational variety

The Heartland Apicultural Society 2018 conference, July 11-13 at Washington University, St. Louis, is three days of inexpensive, varied beekeeping education on all levels. The program of instruction features hands-on apiary demonstrations, research reports, and panel discussions.

Conference topics include hive management for healthy colonies, hive products, and technology and honey bee health.

Costs depend on days attended and events selected. Evening events include trips to the Anheuser-Busch brewery and the St. Louis Zoo. Full details are on the website.

Schedule: [heartlandbees.org/2018-schedule](http://heartlandbees.org/2018-schedule).  
Questions: Bob Sears, 2018 HAS president, (314) 479-9517.



## A pretty and popular place for water

On the topic of providing drinking water for workers during the hot summer, here is an attractive, functional, and popular bee pool built a few years ago by Eric Burns of Louisville. “It’s just a small *koi* pond liner and recirculating pump,” Burns said. “The water flows over the stone and wood. No need to change water for mosquitoes, and it doesn’t turn into algae.” Standing water in baby pools (*BeeLines*, June issue) doesn’t work as well for him as this arrangement, enthusiastically favored by a throng of eager sippers.



## Assisting the monarchs

Hannah Carter displays some of the milkweed plants given to those attending the Madison County Pollination Celebration last month to honor Pollinators’ Week June 18-23. Milkweeds are crucial to the life cycle of the monarch butterfly.

## Thanks for the samplings in 2017!

Kentucky State Apiarist **Tammy Potter** thanks all the beekeepers who participated in the USDA-sponsored hive samplings she carried out during 2017. USDA has approved the effort once again for 2018. The new round of sampling begins this month.



Larry Stone (left), president of Audubon Beekeepers, and David Kelley sample Kelley’s hives for USDA. (Tammy Potter photo)

# Beekeepers: Watch out for woodland ticks!

When you're in the woods with your hives, here is another class of insects that should concern you.



By Katie Pratt

Tick season is under way, and a University of Kentucky (UK) entomologist reminds beekeepers to take precautions to protect themselves and loved ones from tick bites.

In tick-prone areas, check yourself, children and other family members every two hours, and check very thoroughly after returning home from hikes and other outdoor activities, said **Lee Townsend**, UK extension entomologist in the College of Agriculture, Food and Environment.

Common body locations to find ticks are behind the knees, around the waist, under the arms, the neck, and the head.

Several effective precautions will reduce exposure:

- Wear a repellent; products containing **DEET** are particularly effective.
- A spray-on clothing treatment containing **permethrin** is good to use when in places where ticks are likely to be abundant.
- Avoid walking through tall grass and brushy areas along fence lines or adjacent to woods.
- Wear light-colored clothing so ticks are easy to spot.
- Check pets when they come in from outdoors.

## Species and diseases

The **lone star tick** and the **American dog tick** are the most common species found in Kentucky. Their bites are usually just an itchy nuisance, but these ticks can carry diseases. Fortunately, only a very small percentage of them are infected.

The adult female lone star tick, which has a white spot on her back, can carry **erlichiosis**. Its saliva, injected during

The American dog tick, *left*, has short mouth parts and mottled markings. The lone star tick has long mouthparts and a white spot on its back. (Victim not to scale.) Photo by Lee Townsend, UK extension entomologist, and some 1950s monster movie.

feeding, may cause development of a “red meat allergy,” a condition diagnosed more often as awareness of it increases.

American dog ticks, reddish-brown with mottled white markings on their backs, can carry **spotted fever**. In addition, the blacklegged tick, or deer tick, is becoming more common in the state and carries **Lyme disease**.

*(Editor's personal testimony: My completely suburban cousin, who has never been in deep woods, was nevertheless found by an infected tick, contracted Lyme disease, and went through what she called the worst hospital ordeal she ever experienced. Take it seriously, everybody, please.)*

## Prevention and removal

Prevention is the key to reducing the chance of being bitten. Some ticks even then will get past protective efforts, but prompt removal of attached ticks reduces the chance of infection if the tick carries disease.

Use fine-tipped tweezers to remove an attached tick. Grasp it as close to the skin as possible and remove it with a gentle, steady pull. Then, wash the bite area and your hands. Apply an antiseptic to the bite site to protect the wound from infection.

– UK College of Agriculture, Food and Environment

Read more about ticks in Kentucky: <http://entomology.ca.uky.edu/ef618>



### Honoring Irv Coleman

Irving Gene Coleman (*left*), 66, of Raccoon, Ky., vice president of the Pike County Beekeepers Association, passed away unexpectedly on June 20. He served the Association for many years, and helped his son-in-law Neil Hunt, Association president (*right*), by participating in the USDA Honey Bee Health Survey, working on queen production strategies, and regularly taking part in the Pike County Farmers' Market. At front is Irv's granddaughter, Kaitlyn. (photo furnished)



### Bumble bees a priority

This bumble bee apiary was photographed by Tammy Potter on her recent visit to the northwestern U.S., where she spoke to the Puget Sound Beekeepers Association.

### The July 15 reporting deadline

is almost here for some of you to annually report your number of honey bee colonies on form FSA-578. Those in the **NAP or ELAP disaster relief programs** filed their required reports last January, but if you are not enrolled in NAP or applying for ELAP, your report is due by July 15.

### State Fair Blue Ribbon Winner!

### Honey Nut Oat Granola Bars

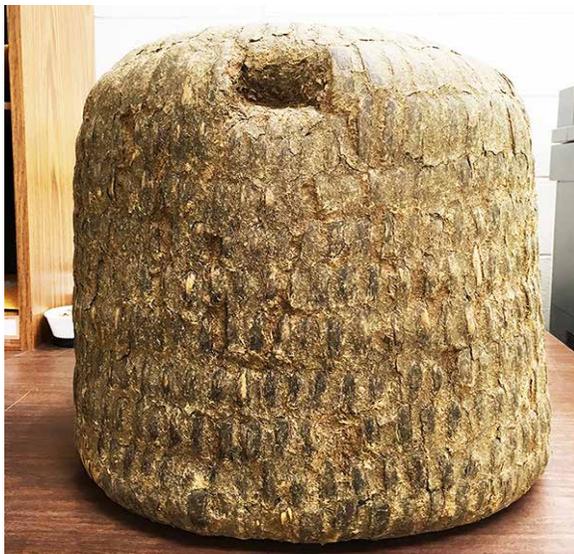
- |                                    |                        |
|------------------------------------|------------------------|
| 2-1/2 c. old fashioned rolled oats | 3/4 c.+ 2 T. honey     |
| 1 c. raw almonds, coarsely chopped | 1/2 t. kosher salt     |
| 1/2 c. raw sunflower seeds         | 1-1/2 t. vanilla       |
| 1 c. chopped pecans                | 1 t. cinnamon          |
|                                    | 2 T. butter (optional) |
|                                    | 1 c. dried cranberries |

Coat a 9x13 baking pan with cooking spray and set aside. Preheat oven to 350° F. On separate large baking sheet, combine oats, almonds, sunflower seeds, and pecans; spread out in even layer. Bake for 15 minutes, stirring every 5 minutes. Meanwhile, in 2-quart saucepan combine honey, salt, vanilla, cinnamon, and butter. Bring to boil over medium heat; boil for 1 minute, stirring constantly.

When oat mixture is finished toasting, remove from oven and pour into large mixing bowl. Reduce oven temperature to 300°. Add dried fruit (if using) into oat mixture. Add hot liquid mixture to oatmeal mixture and stir until mix is well coated. Immediately pour into prepared 9x13 pan. Spread evenly and pack down firmly, using bottom of greased drinking glass. Bake 25 minutes.

Cool completely. Invert pan to remove cooked mixture in one piece. Use large heavy knife to cut into 16 bars. If too brittle to cut cleanly, heat in microwave for 10 seconds to soften slightly. Store cut bars in airtight container for at least 1 week.

— Katherine Bricking Woods, Shelbyville



James Hale of the Capital City Beekeepers Association in Frankfort gave Tammy Potter this *skep* (straw or wicker beehive) from Germany she currently displays in her KDA office. *Skep* means "pot" in Scandinavian languages and derives from bees making colonies in overturned pots. European beekeepers found skeps handy to carry and easy to construct from the plentiful native rye. (Tammy Potter photo)