Dear Beekeepers,

Registration is in full swing and we are ready for everyone to arrive in beautiful Boone, NC for the 2010 EAS conference and short course! The speakers are lined up and ready, the agenda is done and is online and in this journal, and the entire staff of Appalachian State University is even now standing at attention waiting for us to arrive. It will be fantastic!

Don Hopkins and Dave Tarpy have crafted a fantastic agenda. Toni Downs has worked and worked to make sure everyone has a blast each evening. Michael Young has created a beautiful and delicious menu for us. The EAS Master Beekeepers are all ready to teach, and so many others have worked endlessly to insure a smooth running conference that is fun and informative. The support for the conference from the NC beekeeping community has been amazing! Everyone in the North Carolina State Beekeepers Association is thrilled at the thought of North Carolina being the host state for such a meeting. We just can’t wait!

In such a general article to all EAS members, I generally don’t want to include finite details like event parking, BUT, in this case, it’s important. Our planning group has asked, “How will we make our first contact with the attendees?” and this is a huge question! Parking in the little valley of Boone CAN be difficult if you don’t have a plan. We ask that you carefully look at your campus map (under “travel” on the EAS 2010 section of the EAS website) and, when you arrive, first go to the Stadium Parking lot. We will be there to guide you to your rooms, to registration and to give you any help you need.

For those of you arriving on Sunday afternoon we will have registration open from 5:00 - 7:00 p.m. So once you’re checked into your dorm or hotel you can wander over and get registered. Otherwise show up Monday morning at 7:30 a.m.

This will be a fantastic week for all beekeepers, and we’re all looking forward to seeing you. Please check the EAS website for further communications and updates. Feel free to email me directly from the website with any questions you may have.

Thanks everyone!

Will Hicks
EAS 2010 President

---

James I. Hambleton Memorial Award 2010 Winner

EAS is proud to announce that David Tarpy is our 2010 James I. Hambleton Memorial Award winner. David is a big part of EAS 2010. He is the program coordinator for this year working with our President Will Hicks. So when you are in North Carolina make sure you congratulate David and thank him for organizing a wonderful lineup of speakers.

David Tarpy is an Associate Professor of Entomology and the Extension Apiculturist at North Carolina State University since 2003, after receiving a BS from Hobart College, an MS from Bucknell University (advisor: David Fletcher), a Ph.D. from the University of California at Davis (advisor: Rob Page), and a postdoctoral fellowship at Cornell University (advisor: Tom Seeley).

As Extension Apiculturist, he coordinates the NC Master Beekeeper Program with over 3,000 active participants, maintains an apiculture web site dedicated to the dissemination of information, understanding and management of honey bees and spearheads numerous extension projects such as the 2005 New Beekeeper Cost-sharing program that created hundreds of new beekeepers within the state.

His research interests focus on the biology and behavior of honey bee queens – using techniques including field manipulations, behavioral observation, instrumental insemination, and molecular genetics – in order to better improve the overall health of queens and their colonies. Specific research projects include understanding the effect of the polyandrous mating strategy of queen bees on colony disease resistance, determining the underlying factors of Colony Collapse Disorder, using molecular methods to determine the genetic structure within honey bee colonies, and determining the regulation of reproduction at the individual and colony levels. His work has provided some of the best empirical evidence that multiple mating by queens confers multiple and significant benefits to colonies through increased genetic diversity of their nestmates, particularly through increased tolerance to numerous diseases. More recently, his lab group has focused on the reproductive potential of commercially produced queens, testing their genetic diversity and mating success in an effort to improve queen quality.

David, thank you for your work and congratulations.
From the Chairman...

My fellow beekeepers,

Greetings from record-breaking, baking hot Philadelphia. We have gone from the winter of the endless snow storms to the June/July of endless heat waves. The weather pattern over the past two years has been one of extremes.

This year, it seems that the early heat has caused the flowers to bloom about two weeks early. Apples, usually blooming the second week of April, were already starting to bloom at the end of March. Other beekeepers have also remarked about the earlier bloom. Everett in Rhode Island reported that cranberry pollination started two weeks earlier than normal. Have you noticed your nectar plants blooming earlier this year?

Sitting here with fans blowing the hot air around the room makes me long for a trip to the coolness of the mountains. What a natural segue into Jim Bobb’s top 14 reasons for attending EAS 2010 in North Carolina.

1. Get out of the heat. The average high and low temperatures in Boone for the first week of August are 76˚F and 58˚F, respectively. Leave the 100+˚F heat behind.

2. Bring the family to see the waterfalls and gardens of the Blowing Rock, the mile high swinging bridge of Grandfather Mountain, the inside of a mountain at Linville Caverns, or a three-mile train ride on an authentic steam engine at the Tweetsie Railroad.

3. Send your spouse and kids mining for jewels at the Foggy Mountain Gem Mine or fishing for the big one at the Grandfather Trout Farm. Try out whitewater rafting and NASCAR driving for the more adventurous and bird and toad watching for the more serious.

4. EAS is a great place to find il suo amante. Members have been smitten by the love bug at past EAS Conventions. One couple committed their vows in New York at EAS 2009.

5. Show that you have the right stuff and take the EAS Master Beekeeper Exam. Or, if you are not ready, sit in on the pre-test review to see the areas to study for next year.

6. If you are relatively new to beekeeping, sign up for the Short Course Introductory Track. EAS Master Beekeepers will patiently explain beekeeping through the seasons, pests, swarms, pollination, nucs, and techniques to harvest honey.

7. If you are considered an old-timer (successfully kept bees over one winter), you may want to catch up on techniques to optimize your operation, learn the latest information on pests and control, see other types of bees, discover how bees think, or make mead at the Short Course Advanced Track.

8. Get answers to your questions. Beekeepers will eagerly provide opinions and advice on your bee operation and all other aspects of your life.

9. Attend a real Southern hoe-down at Brushy Mountain on Wednesday night. Steve Forrest promises to show us the wickedest display of dancing footwork south of the Mason Dixon. His fare is grittled critters, fried pies, and just real good hospitality.

10. Learn how to use a microscope and dissect a bee or diagnose an illness.

11. Choose from 36 different workshops on Conference afternoons.

12. Meet the leaders and experts in the fields of CCD research, disease and pest control, Africanized honey bees, queen rearing, bee behavior, and a multitude of other bee-related fields.

13. Make new friends that have similar interests.

14. Of course, the most important reason to attend EAS 2010 in North Carolina is to fellowship with your EAS family. It is a thrill to watch old friends return each year.

So, get out of the heat and join me in balmy North Carolina. When you arrive, be sure to stop by and catch me up on what you have been doing over the past year.

See you at Boone in August,
# EAS 2010 Short Course

**August 2-4**

<table>
<thead>
<tr>
<th>TIME</th>
<th>INTRODUCTORY</th>
<th>ADVANCED</th>
<th>APIARY</th>
<th>MICROSCOPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 8:20 am</td>
<td>Introductions and announcements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:30 - 9:15</td>
<td><em>Erin MacGregor-Forbes</em> August to October: beginning the bee year</td>
<td><em>Keith Delaplane</em> Secrets of the honey bee life cycle that can help beekeepers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:30 - 10:15</td>
<td><em>Brenda Kiessling</em> November to January: as the bees cluster</td>
<td><em>Bob Cole</em> Honey bees of the world</td>
<td></td>
<td><em>Zachary Huang</em> Adult anatomy through the microscope: a demonstration (Sign up in advance when you arrive)</td>
</tr>
<tr>
<td>10:15 - 10:45</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45 - 11:30</td>
<td><em>Joe Kovaleski</em> Moving into Spring: what you see and what to expect</td>
<td><em>Michael Young</em> Making mead</td>
<td><em>Ed Levi</em> Inspecting your hive like an inspector</td>
<td></td>
</tr>
<tr>
<td>11:30 - 1:00</td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00 - 1:45 pm</td>
<td><em>Bob Cole</em> Bee pests</td>
<td><em>Rick Fell</em> Honey bee perception and pollination</td>
<td><em>Jennifer Keller</em> Marking and caging queens</td>
<td><em>Glenn Hackney</em> Diseases through the microscope (Sign up in advance when you arrive)</td>
</tr>
<tr>
<td>2:00 - 2:45</td>
<td><em>Anne Frey</em> Swarms: colony dynamics, queen cells, &amp; how to collect swarms</td>
<td><em>John Skinner</em> Getting the most of your bees during the bloom</td>
<td><em>Claire Waring</em> Photographing bees in the hive</td>
<td></td>
</tr>
<tr>
<td>2:45 - 3:15</td>
<td>Break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:15 - 4:00</td>
<td><em>Ann Harman</em> Pollination 101: introduction to flowers, other pollinators, and current problems</td>
<td><em>Wyatt Mangum</em> Beekeeping history in the 1800s</td>
<td><em>Jennifer Berry</em> Starters &amp; finishers</td>
<td></td>
</tr>
<tr>
<td>4:15 - 5:00</td>
<td><em>Various Speakers</em> Wrap up Q&amp;A session</td>
<td><em>Jeff Harris</em> Integrated Pest Management for Varroa</td>
<td><em>Jack Hanel</em> Working hives optimally</td>
<td></td>
</tr>
<tr>
<td>5:00 - 7:00</td>
<td>DINNER (ON YOUR OWN)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:00 - 9:00</td>
<td>QUESTION AND ANSWER SOCIAL WITH THE SPEAKERS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PLEASE NOTE THAT THE SHORT COURSE DOES INCLUDE WEDNESDAY**

*Short Course Continued on Next Page*
Microscopy Sessions – Last year we tried something new and it worked so well we were overwhelmed. If you’re one of the folks that didn’t get into the Microscopy Sessions last year, this year you have several chances to get in. We have sessions going on all week, during the Short Course and during the Conference. Instructors include Zachary Huang, Bob Danka, David Tarpy, Jeff Harris, and Deborah Delaney. There is no extra charge for the sessions this year, but you do have to sign up because space again is limited. If you are coming to the Short Course, you will be able to sign up Monday morning for the one session you’d like to get into during the Short Course.

Then on Wednesday morning we’ll take sign-ups for the sessions offered during the Conference. We will limit each person to one session unless we do not fill up all of the sessions. This is a very popular topic and we want to give as many people as we can an opportunity to participate.

Honey Show Drop-Off: The drop off time for Annual Show Entries will be Wednesday from 10:00 a.m. to noon. Please check at the registration desk when you arrive to find out where the drop off will be.

Parking: Parking is a bit of an issue this year. Please follow Will’s instructions on page 1 and make your way to the stadium parking and you will receive further instructions. Keep in mind after you arrive and scope things out, that there is a parking garage across from the campus that is fairly inexpensive. So if you're staying at one of the local hotels or just want to be a bit closer you might want to check that out. Explore the map on our website.
We still have the Best Quality, Best Service, Best Support, but now we have shorter transit times, lower shipping costs, and another showroom.

Come see for yourself

620 Old Route 15, New Columbia, PA 17856
Wednesday Afternoon At Brushy Mountain Bee Farm

Wednesday afternoon you have the option to travel to Brushy Mountain Bee Farm for an afternoon of workshops, tours and an evening of fun, good food and music. We will have maps and directions in your program book when you arrive at EAS 2010. We encourage you to take this opportunity to visit Brushy Mountain. Steve, Sandy and Shane are putting together a wonderful afternoon and evening for us. Steve Forrest and Shane Gebaur will conduct tours of the facility and workshops.

Workshop topics includes – Honey Extraction and Soap Making. There will be beeyard activities also including – Finding and Marking Queens; Reading Frames and Effective Hive Inspections; Varroa Sampling and Record Keeping.

Later in the afternoon after the workshops we will have a Bee Rodeo (hive-tool throwing, queen-finding race, smoker lighting, etc…)

Then more fun begins with a BBQ, music and just spending time with your beekeeping friends. It promises to be a wonderful afternoon and evening.

There will also be talks on campus in the afternoon and in the campus beeyard. So check the program and decide what you want to do. If you choose to stay on campus for the afternoon, you can then join us for dinner and the rest of the evening.

Be sure and give a big thank you to Steve and Sandy Forrest for this opportunity.

NOTE: Parking space is very limited at Brushy Mountain. A $20.00 donation is requested for cars with less than three people except in cases of hardship. All parking funds will be split between the EAS Honey Bee Research Fund and the EAS Speaker and Education Fund. Why not make some new friends and carpool to Brushy Mountain?
<table>
<thead>
<tr>
<th>TIME</th>
<th>ROOM 1</th>
<th>ROOM 2</th>
<th>APIARY</th>
<th>MICROSCOOPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 8:20</td>
<td></td>
<td></td>
<td>Introductions and announcements</td>
<td></td>
</tr>
<tr>
<td>8:30 – 9:15</td>
<td></td>
<td></td>
<td>PLENARY SESSION</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>David De Jong</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>How Brazil adapted to Africanized Honey Bees, and how they have adapted with diseases</td>
<td></td>
</tr>
<tr>
<td>9:30 – 10:15</td>
<td>TBA</td>
<td></td>
<td>Deborah Delaney</td>
<td>NC Master Beekeepers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bees in trees: a population genetics perspective</td>
<td>Display of Dissected Bees</td>
</tr>
<tr>
<td>10:15 – 10:45</td>
<td></td>
<td></td>
<td></td>
<td>Break</td>
</tr>
<tr>
<td>10:45 – 11:30</td>
<td></td>
<td></td>
<td>Keith Delaplane</td>
<td>NC Master Beekeepers</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>USDA-CAP update</td>
<td>Best Management Practices</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Christi Heintz</td>
<td>For Beekeepers Pollinating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ag Crops</td>
</tr>
<tr>
<td>11:30 – 1:00</td>
<td></td>
<td></td>
<td></td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 – 1:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00 – 2:45</td>
<td></td>
<td></td>
<td>Geoff Williams</td>
<td>Bart Smith</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&amp; Dick Rogers</td>
<td>Lab tests for</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Measuring Hives</td>
<td>diseases</td>
</tr>
<tr>
<td>2:45 – 3:15</td>
<td></td>
<td></td>
<td>Juliana Rangel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Queen rearing</td>
<td></td>
</tr>
<tr>
<td>3:15 – 4:00</td>
<td></td>
<td></td>
<td>Maryann Frazier</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>In the beeyard</td>
<td>Bart Smith</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lab tests for</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>diseases</td>
</tr>
<tr>
<td>4:15 – 5:00</td>
<td></td>
<td></td>
<td>Jennifer Keller</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>In the beeyard</td>
<td></td>
</tr>
</tbody>
</table>

Conference Schedule Continued on Page 12
Hello Everyone,
We are planning another great EAS with new events and delicious food. Michael Young MBE has been working with the Food Service Staff at Appalachian State University to create new menus using honey and local ingredients. If you haven’t planned to attend the Thursday Auction or Friday Banquet, you should reconsider!
See you in Boone!

Tuesday: 6:00-8:00 p.m. BBQ & Games
Test your aim at the Hive Tool Toss or join a team event like the Hive Carry or the Tri-Bee-a-Thon. For those who want a more sedentary game, you can participate in the Top This Tale event or BeeLine to find your way home.

8:00 p.m. A screening of Vanishing of the Bees will take place in the I.G. Greer building. EAS does not get to show this movie for free so there will be a $2/person charge at the door to help cover some of the cost.
Vanishing of the Bees follows commercial beekeepers David Hackenberg and Dave Mendes as they strive to keep their bees healthy and fulfill pollination contracts across the U.S. The film explores the struggles they face as the two friends plead their case on Capital Hill and travel across the Pacific Ocean in the quest to protect their honeybees.

Filming across the U.S., in Europe, Australia and Asia, this documentary examines the alarming disappearance of honey bees and the greater meaning it holds about the relationship between mankind and mother earth. As scientists puzzle over the cause, organic beekeepers indicate alternative reasons for this tragic loss. Conflicting opinions abound and after years of research, a definitive answer has not been found to this harrowing mystery.

Directed by George Langworthy and Maryam Henein and narrated by Ellen Page, the UK version of the film was released in England where it was described by the press as “the most important film since An Inconvenient Truth.” This will be one of the first community screenings in the U.S.

Wednesday: An afternoon and evening at Brushy Mountain. Brushy Mountain Bee Farm has invited us out to their place which is about a 45 minute drive from the campus for an afternoon of workshops and an evening BBQ, with good food, and music. Lectures and bee yard sessions will be offered on campus and also at Brushy Mountain. So you can go to Brushy Mountain for the workshops and stay for the evening or you can remain on campus for those activities offered there and join us later for the evening festivities.

Thursday:
EAS Beekeepers BBQ & Auction sponsored by the North Carolina Beekeepers Association – featuring a Boone special crab cake and locally raised lamb. Varietal honey and locally grown produce will be incorporated in the meal. Cloggers will be on hand to entertain you during dinner.
Stick around for the EAS Auction which will take place after dinner.

Friday:
The traditional Friday night Banquet will feature more dishes made with honey. Starting with Smoked Salmon Langstroth and followed by Chicken President Hicks. You’ve got to attend to see what these new dishes are like! Local vegetables and yams will accompany this feast and Crème Brûlée EAS-style will top it all off as we end our week.

---

Combat Mites, Nosema, Foulbrood, Wax Moths and Small Hive Beetles.

Apiguard · Apistan · Mite-Away II
Mite-A-Thol · Fumagillin-B · Tylan · Terra-Pro
Para-Moth Crystals · Gardstar · CheckMite+

WALTER T. KELLEY CO.
807 West Main St. · Clarkson, KY 42726
1-800-233-2899 www.kelleybees.com
EAS 2010 Short Course/Conference Registration
August 2-6, 2010
APPALACHIAN STATE UNIVERSITY, BOONE, NORTH CAROLINA

DO NOT MAIL AFTER July 16. BRING WITH YOU AND REGISTER AT EAS 2010

FIRST & LAST NAME ____________________________________________ EVENING PHONE # ____________ DAYTIME # ____________
ADDRESS ____________________________________________ CITY ____________________ STATE ______ ZIP ____________
EMAIL: ____________________________________________ Do you want to receive the journal by email? ______

HAS YOUR PERSONAL INFORMATION CHANGED SINCE LAST YEAR? ____YES ____ NO

For The Name Tags – Please list name, city and state of each person attending.
a. ____________________________________________ c. ____________________________________________
b. ____________________________________________ d. ____________________________________________

DUES
1. EAS DUES $25/Annual (Single or Family); $250/Life Member (includes family); ...........$___________
   EAS Dues must be current to attend this conference.

REGISTRATION

EAS SHORT COURSE - August 2-4, 2010
Registration Fees – $100/person for all three days.
2. Level I – First & Last Name(s) ______________________________________ x $100 = $ _______
3. Level II – First & Last Name(s) ______________________________________ x $100 = $ _______

EAS MAIN CONFERENCE - August 4-6, 2010
Main Conference officially begins WEDNESDAY MORNING at 8:00. Don’t Forget!
Registration Fees – $125/person or $200/family
4. First & Last Name ____________________________________________ x $125 = $ _______
5. Family Names (first & last of each) ____________________________________________ x $200 = $ _______

ONE DAY FEE $50/person/day or $75/family/day
6. First & Last Name(s) ____________________________________________
   Which day(s) _____ Wed. _____ Thur. _____ Fri.  # _____ x $50 x # _____days = $ _______
   Which day(s) _____ Wed. _____ Thur. _____ Fri.  # _____ x $75 x # _____days = $ _______

Meals
7. Cafeteria meals will be sold as a package which includes breakfast and lunch. Dinners will not be part of the package because we have special dinner events going on four of the five nights. We encourage you, if you’re not joining our special events to check out the local fare for dinner. Short Course Meal Package includes breakfast and lunch, Monday through Wednesday; Conference Meal Package includes breakfast and lunch Wednesday through Friday and All Week Meal Package includes breakfast and lunch Monday through Friday.

<table>
<thead>
<tr>
<th>Package</th>
<th>Fee per person</th>
<th>Quantity x</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Course Meal Package</td>
<td>$51</td>
<td>x _______</td>
<td>$ ________</td>
</tr>
<tr>
<td>Conference Meal Package</td>
<td>$51</td>
<td>x _______</td>
<td>$ ________</td>
</tr>
<tr>
<td>All Week Meal Package</td>
<td>$85</td>
<td>x _______</td>
<td>$ ________</td>
</tr>
</tbody>
</table>

Cafeteria Meal Total  $_______

If you have questions regarding registration contact
John Tulloch, 423.574.1181
treasurer@easternapiculture.org

Page 1 Total .................... $_______
(Dues, Registration & Meals)
Rooms
All dorm rooms have shared bathrooms with two rooms sharing one bathroom. Dorms are air conditioned and include two twin beds. A linen package is available, or you can bring your own.

8. Dorms - Single - $70/Room/Night
Sun _____ x $70 = _____; Mon _____ x $70 = _____; Tue _____ x $70 = _____; Wed _____ x $70 = _____; Thu _____ x $70 = _____; Fri _____ x $70 = _____

Single Person Dorm Total $_____

9. Dorms - Shared (2 or more in a room) - $80/Room/Night
Sun _____ x $80 = _____; Mon _____ x $80 = _____; Tue _____ x $80 = _____; Wed _____ x $80 = _____; Thu _____ x $80 = _____; Fri _____ x $80 = ___. Please list who will be sharing a room.

Shared Dorm Total $_____

10. Linen Package (includes 2 towels, 2 sheets, 1 blanket, 1 pillow case, 2 washcloths)
Pillows will be in your room.
_____ x $13 = ____

Linen Package $_____

Room Total $_____

SPECIAL EVENTS
Children under 18 attending Special Events must be accompanied by an adult.

TUESDAY . . .
11. Catered BBQ – Preregistration required. # _____ x $10/ Person $ __________
On campus, a relaxed night of just getting together.

Tuesday BBQ Total $_____

WEDNESDAY . . .
12. Brushy Mountain BBQ – Preregistration required. # _____ x $30/ Person $ _____
An evening at Brushy Mountain Farms - dinner, music, good times

Brushy Mountain Total $_____

THURSDAY . . .
13. BBQ – Preregistration required. # _____ x $30/ Person $ __________
This evening will include our annual auction and also NC cloggers

Thursday BBQ Total $_____

FRIDAY . . .
14. Banquet – Preregistration required. # _____ x $35/ Person $ __________
Our annual Friday night banquet

Banquet Total $_____

Special Event Total $_____

15. Donation to Honey Bee Research Fund (help us help honey bees) …………………………$_____

16. Donation to Speaker and Education Fund (help us help EAS members) ……………………..$_____

Total Amount Due. Please Make Check payable to EAS 2010 For This Amount

Page 2 Total ………………….$_____
(Rooms, Special Events)

Page 1 Total ………………….$_____

Grand Total ………………………$_____

Mail this form with check or MasterCard or VISA # to
(if using a credit card please include the 3-digit security # on back of your credit card and the expiration date)

MasterCard or Visa #_____________________ 3-digit # from back of card __________
Exp. date __________
Signature ________________

Send form and check to: EAS 2010 - John Tulloch, P.O. Box 29, Blountville, TN 37617
You can also register online with a credit card at www.easternapiculture.org
2010 EAS
Roger Morse Award Winner

EAS is very proud to announce that Dennis vanEngelshoop has been chosen as our 2010 Roger Morse Extension, Regulatory and Teaching Award winner. Dennis is familiar to many of us and has been a speaker many times in the past at EAS.

Dennis started keeping bees after taking an undergraduate course in beekeeping at the University of Guelph, Canada. Once ‘stung’, he pursued a master’s degree in apiculture. He has since worked for the Canadian Government as a consultant to the Antigua Beekeepers Cooperative, in the West Indies. He returned north to work at Cornell University as an extensionist where he helped develop their master beekeeping program.

He is currently employed as the Acting State Apiarist for the Commonwealth of Pennsylvania, through a contract with Penn State University. He is presently serving as President of the Apiary Inspectors of America, and is a board member of Haagen-Das Ice Cream Bee Board. As one of the founding members of the Colony Collapse working group he spends considerable time investigating this latest threat to honey bee populations.

Make sure you congratulate Dennis and attend one of his talks if you can.

Congratulations Dennis and welcome to EAS 2010.
2010 EAS Conference Continued

Friday, August 6th

<table>
<thead>
<tr>
<th>TIME</th>
<th>ROOM 1</th>
<th>ROOM 2</th>
<th>APIARY</th>
<th>MICROSCOPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 8:10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:15 – 9:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:15 – 10:00</td>
<td>Dennis vanEngelsdorp</td>
<td>Steve Sheppard</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roger Morse Award Winner</td>
<td>Tracking Down Bee Diseases</td>
<td>Importation of germplasm: increasing the genetic diversity of bee stock</td>
<td></td>
</tr>
<tr>
<td>10:00 – 10:30</td>
<td></td>
<td></td>
<td></td>
<td>Break</td>
</tr>
<tr>
<td>10:30 – 11:15</td>
<td>Keith Delaplane</td>
<td>Galen Dively</td>
<td></td>
<td>Bob Danko</td>
</tr>
<tr>
<td></td>
<td>Why pollination matters</td>
<td>2009 EAS Foundation Award: Neonicotinoids and bees</td>
<td></td>
<td>Measuring quantitative traits for Varroa selection</td>
</tr>
<tr>
<td>11:15 – 12:00</td>
<td></td>
<td></td>
<td></td>
<td>EAS Business Meeting</td>
</tr>
<tr>
<td>12:00 – 1:00</td>
<td></td>
<td></td>
<td></td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 – 1:45</td>
<td></td>
<td></td>
<td></td>
<td>Debbie Delaney</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>In the apiary</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tarpy &amp; Harris</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Instrumental Insemination</td>
</tr>
<tr>
<td>2:00 – 2:45</td>
<td></td>
<td></td>
<td></td>
<td>David De Jong</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>How to handle AHB</td>
</tr>
<tr>
<td>2:45 – 3:15</td>
<td></td>
<td></td>
<td></td>
<td>Break</td>
</tr>
<tr>
<td>3:15 – 4:00</td>
<td></td>
<td></td>
<td></td>
<td>Audrey Berry</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SHB traps</td>
</tr>
<tr>
<td>4:15 – 5:00</td>
<td></td>
<td></td>
<td></td>
<td>Mike Embry</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>In The Beeyard</td>
</tr>
</tbody>
</table>

Afternoon Workshops
See Below

Thursday

<table>
<thead>
<tr>
<th>TIME</th>
<th>SPEAKER</th>
<th>TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 – 1:45</td>
<td>Wyatt Mangum, Mike Hood, Steve Gibson</td>
<td>Making top bar hives from wood and weeds Small Hive Beetle Research Pesticide Labels and Training</td>
</tr>
<tr>
<td>2:00 – 2:45</td>
<td>Galen Dively, Michael Young, James Wilkes, Ron Ochoa</td>
<td>Sublethal and Synergistic Effects of Pesticides Cooking with honey Apiary Record Software Bee Mites, From The Mites’ Perspective</td>
</tr>
<tr>
<td>3:15 – 4:00</td>
<td>Jon Zawislak, Steve Pernal, Michael Young, Debate: Nasr/Skinner</td>
<td>Talking To The Press Calibrating and Using Refractometers Cooking With Honey continued TOPIC: Is “Organic” Truly Organic?</td>
</tr>
<tr>
<td>4:15 – 5:00</td>
<td>Juliana Rangel, John Skinner, Kim Flottum, Debate: Tarpy/Harris</td>
<td>The Collective Consciousness of the Hive Using eXTension Producing Artisan and Varietal Honeys TOPIC: Local Breeding is the Answer</td>
</tr>
</tbody>
</table>

Friday

<table>
<thead>
<tr>
<th>TIME</th>
<th>SPEAKER</th>
<th>TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 – 1:45</td>
<td>Billy Davis, Geoff Williams, Gary Reuter</td>
<td>Pitfalls of Presentations Nosema Research Interpreting The Researchers</td>
</tr>
<tr>
<td>2:00 – 2:45</td>
<td>Jennifer Berry, Steve Gibson, Debate: Sheppard/Delaplane</td>
<td>Effects of Pesticides on Bees &amp; Powdered Sugar Control of Varroa Pesticide Labels and Testing TOPIC: Nosema = CCD</td>
</tr>
<tr>
<td>3:15 – 4:00</td>
<td>James Wilkes, Ed Levi, Medhat Nasr, Debate: Fell/Frazier</td>
<td>Apiary Record Software Honey Production Oxalic Acid: Pros and Cons TOPIC: Pesticides Residues Are Bad For Bees</td>
</tr>
<tr>
<td>4:15 – 5:00</td>
<td>Wyatt Mangum, Bronwyn Weaver, Michael Young, Debate: Flottum/vanEngelsdorp</td>
<td>Research With Survivor Feral Bees &amp; Varroa Chefs and Food Lovers Catch The Buzz Over Local Honey Showing Wax TOPIC: The Worst Is Over…</td>
</tr>
</tbody>
</table>
It’s Election Time…

The first term of the current Chairman Of The Board of EAS expires after the summer meeting in Rhode Island in 2011. That I say first implies that I believe there will be more, and I suspect there will be an additional four years of EAS leadership from Jim. That’s an endorsement, by the way.

But that doesn’t make it so. You don’t get to be Chairman just because you were Chairman. The Board Of Directors makes that very important decision and chooses a Chairman every four years, making that decision based on a variety of criteria and attributes.

If, when it’s time, there is more than one person interested in this position, the choosing process starts at the fall Board meeting the year before the current Chair’s term expires. For our next election then, the process would begin at the fall, 2010 meeting.

To begin, each person seeking the position has to be nominated by a current Board member at that fall meeting. If the person nominated meets the minimum requirements... a current or previous Board member or Officer... he or she moves on to the next step.

Then, immediately after the fall 2010 Board meeting, each Board member will be asked to submit one or two questions to the Secretary to compile and send to the nominees. Prior to the spring 2011 Board meeting, each nominee must answer the questions in writing and submit a short essay that describes their qualifications for the job and their short and long term goals for EAS. At the Spring board meeting then each nominee is given an opportunity to campaign in person to the whole group... to promote their ideas and goals they would offer if elected to the position, and answer any questions the Board thinks appropriate.

It’s at that spring meeting, after the essays are read, the campaign speeches are over and the questions are answered that the Board votes. It has to be a two-thirds majority to win. If that happens at this meeting the newly elected Chair chooses his or her own Vice Chair. The nomination for this position comes only from the newly elected Chair and that person is then voted on and approved by the Board by a simple majority.

The newly elected Chairman and Vice Chairman are introduced to the membership at the EAS 2011 summer business meeting in Rhode Island and the new Chairman assumes his or her position of leadership immediately after that meeting. It’s not an easy process, but the position is critical for the Association, so it shouldn’t be easy.

Of course, if there are no other nominations all this is moot and the election is a simple process. Still, the nominee must have a two-thirds vote to be elected. And the Board could insist that even a single nominee go through the entire process. I don’t think that will happen.

So, are you interested in running for this Glamorous Job? If you have been or are on the Board as a Director or Officer you qualify.

Jim doesn’t get to be Chairman just because he was Chairman. But it sure makes his resumé look good.

Kim Flottum, EAS Chairman Emeritus

If You Haven’t Found A Hotel Yet For This Summer – Hurry

Located less than three miles from the ASU campus, the Holiday Inn Express is an award winning hotel that provides you with incredible amenities and is the best place to stay in town!

Because we have beekeepers on our staff and amongst friends, we are offering you a special rate of $76/night if you book your room before July 16th for this year’s EAS Conference August 2-6. However, with only 129 rooms, and this un’BEE’lievable deal, we cannot guarantee availability unless you book right away.

The rate for this conference includes our signature complimentary Deluxe Hot Breakfast Bar, free High Speed Wireless Internet, full usage of our outdoor heated pool, upgraded bedding in our two queens room, and 24 hour access to our custom designed business center to catch up on the daily news.

Holiday Inn Express Of Boone, 1442 Military Cutoff Road Wilmington NC 28403; 910.256.9123 www.expressboone.com

Western Apicultural Society 2010
August 30 - September 2
Red Lion Hotel, Salem, Oregon

See the WAS website for Preliminary Program, information about Salem, and a Registration form: groups.ucanr.org/WAS/ and click on “Conference.”
From The Editor —

Hello everyone! I hope that you are having a wonderful summer and that your bees are doing well and you’re getting lots of honey. The summers fly by faster each year. It’s hard to believe it’s already time for our annual conference. It’s going to be a good one.

Our goal is for everyone to have a great week at EAS. So here are just a few suggestions for getting through the week smoothly. I’ve been to the Appalachian State University campus and it is uniquely beautiful. Will Hicks, David Tarpy, Don Hopkins and many other NC folks are working hard to prepare for our arrival. Also, the Brushy Mountain Bee Farm people are planning an amazing afternoon and evening for us on Wednesday. A huge thank you to all of them.

If you are arriving Sunday afternoon to begin the Short Course on Monday you’ll need to get to the stadium parking. Please see President Will’s comments on page 1. From there you will be given instructions and there will be plenty of signs getting you where you need to be. Get checked into your dorm or hotel and then if there’s time come to the conference registration which will only be open Sunday from 5:00 - 7:00 p.m. If you don’t make it in time registration will open Monday at 7:30 a.m.

If you’re going to Brushy Mountain on Wednesday parking is an issue. Imagine 300+ folks arriving at your house all at once. Yikes! So we are strongly encouraging carpooling. Cars arriving with fewer than three will be asked to make a donation of $20 which will be divided between the EAS Huney Bee Research Fund and the EAS Speaker Fund. So I hope that as soon as you arrive you’ll start making arrangements for getting a car full for Wednesday. It’s always more fun to have other beekeepers in the car with you.

Please be patient when you arrive. If there are hiccups we will fix them. We will do our best to make sure everything gets handled in a timely manner, but we’re human. Sometimes things just take a little time. Remember all of those working to put the conference together are volunteers and are giving up a chunk of their time to make this all happen for all of us.

I hope to see all of you there. It will be a great week.

Kathy Summers, Editor

Over 200 Pages
Over 150 Photos

The Backyard Beekeeper
2nd Edition Revised & Updated

All New Information On
• Urban Beekeeping
• Equipment Assembly
• Survivor Bees, Russian Bees
• Waxing Frames
• Honey Bee Nutrition
• Beekeeping History
• Propolis
• Replacing Queens
• Non-Chemical & IPM To Control Varroa,
  Small Hive Beetles, AFB
• Comb Honey Production
• Solar Wax Melters
• Soap Making
• Encaustic Painting
• Colony Collapse Disorder

$29.95

Postage paid in the U.S.
Call for Foreign Rates
To Order Visit

www.BeeCulture.com
Send Check To Bee Culture Publications,
623 West Liberty Street, Medina, OH 44256
or call with credit card
800.289.7668, Ext. 3220
OBITUARY

Alan Fiala was 67 when he died on May 26, 2010. He died of post-polio respiratory failure.

At the age of nine, growing up in Nebraska, he contracted polio. He was sick for three months. It affected his leg (thus the shoe-lift he wore and the electric scooter he often used), and a number of his muscles: respiratory (he was not ever in an iron lung), arm/hand, and thorax.

But he never let those problems get in the way.

From pre-kindergarten he knew he wanted to be an astronomer. He attended Carleton College, graduated in three years, and then received a PhD. in astronomy from Yale University. He retired from the U.S. Naval Observatory in 2000 after a 38 year career. A noted solar expert, he wrote the manual for predicting solar eclipses that is still used. He was a pioneer in computer use and video camera use in documenting solar eclipses – including something called “Baily’s Beads.” He was held in marked esteem by his colleagues and had a minor planet named after him.

His avocational interests were wide ranging: gourmet cooking, jazz music, Prairie Home Companion, civic association (he served as President of his local association when a very noisy rail yard had to be dealt with), educating and helping other post-polio people, gardening, and study of the Czech language – his classmates said he had a remarkable grasp of the grammar.

Alan was not a big talker but he kept precise records on everything. His housemates tell of his detailed records regarding his cat : weight, diet, etc.etc.

Sometime in the early 1990s a honey bee swarm took up residence in the old farmhouse which he shared with friends, the Luce family. He found two beekeepers to remove the swarm; in the process he became so interested in honey bees that he then took a class and became a beekeeper.

Alan held positions of office in his local beekeeping club (VP, newsletter editor, and President of Beekeepers Association of Northern Virginia, BANV), state club (Vice President, President, and Program Chairman of Virginia State Beekeepers Association, VSBA), and in 2009 he became an Eastern Apiculture Society (EAS) Master Beekeeper.

Alan is survived by two brothers and by Ellen and Greg Luce (housemates). He did not marry and did not have children. His “soulmate and loving significant other” (his words), Mary McHugh, preceded him in death by 1½ years.

The bees will miss Alan. The beekeeping world will miss Alan.

We, his local club, will miss his intellect, his teaching the beginning class the perils of urban beekeeping, his always keeping us straight on particulars, and his sense of humor.

The license plate on Alan’s van read: “ECL PSE.”

Respectfully submitted,
Brenda Kiessling

I’m not completely certain but I think that Alan was at every EAS I’ve attended since 1994. He was one of those faces that you looked for every year. These are folks that many of us only see this one time a year at EAS, but we count on seeing them and we look forward to it.

EAS and I will certainly miss Alan this year.

Kathy Summers
Vice Chairman & Editor

Get Your EAS Journal Via Your Email!

Don’t forget that we offer the Journal electronically. We have been doing this for a little over a year now. Most of the ads and all of the photos in this journal are in color, so if you’re still getting the printed copy you’re missing out on all of that. Also, if you receive your journal electronically you receive it at least a week, sometimes more, sooner than those getting the paper copy.

To sign-up for the Electronic version of the EAS Journal please visit our website: www.easternapiculture.org

Alan Fiala (right) receiving his Master Beekeeper certificate and pin from Clarence Collison at EAS 2009 in New York.
What are your bees worth?

If you are exploring pollination rental prospects, how do you price the value of your colonies? If already renting, should rental fees have been or be increased this season?

Mike Burgett of Oregon State University – where I now have an Affiliate Professorship after retiring from University of Delaware with 40 years of east coast beekeeping experiences) has been surveying PNW beekeepers the past 24 years asking about their pollination activities and rental income. PNW beekeepers receive over 67% of their yearly rental income (average rental price of all crop rentals in 2009 was $89.90) from rental to just one crop – almonds. Additional rentals are varied but not as profitable. MAAREC (Mid-Atlantic Apiculture Research and Extension Consortium) has been asking eastern beekeepers the same types of questions the last two years.

Eastern beekeepers have three major income rental possibilities: cucurbits (cucumber, watermelon, melons, pumpkins), blueberry and cranberry (88% of total rental income reported from MAAREC region pollination respondents last year). Traditional fruit rentals are declining but movement to California for almond rental is on the increase (nearly 12% of total income for 2009). Average rental fee for eastern beekeepers was nearly $25 lower at $63.90, below their western counterparts. The average price increase was 9.5% from the previous year but this increase also was less than for western beekeepers who had a 10.5% average increase. Colonies of beekeepers responding to the survey were used an average of 1.7 rentals; thus total average income was approx $120/colony for MAAREC region beekeepers.

For a full report of survey results see MAAREC.psu.edu web site. Article is entitled Bee Pollination Rental Prices Eastern U.S. with comparison to West Coast. The article also is available in the April 2010 Honey Market Report as well. If you are an eastern pollinator and would like to participate in this annual survey please drop me a note to dmcaron@udel.edu. The 2010 survey will be conducted in October 2010.

Dewey Caron
EAS Chairman Emeritus
Why are they the best in the business?

We use stainless that in some cases is almost TWICE as THICK as our competitors' stainless steel. You want durability? Here it is.

Sheets of stainless steel are difficult to permanently join together. Instead of using the old technology of soldering, caulking or crimping stainless steel together, we use state-of-the-art, Automatic MIG welders to actually melt and weld our stainless steel together. Smooth welds inside and out that won’t ever leak. No sealants are used to hide poor quality welds and prevent leaks. Dadant manufacturing standards are rigid. We meet them on each and every all-welded stainless steel tank sold. Each tank is tested before it leaves the factory.

A team of 15 is involved in the over 25 steps it takes to make the durable, efficient and sanitary stainless steel extractors from Dadant.

We use Type 304 stainless steel. This may not mean anything to you, but it is the most widely used and accepted stainless steel in the food-processing industry, because of its resistance to rust and corrosion to protect your honey.

Why are they the best in the business?

TWICE as THICK as our competitors

Quieter Running Motor
More torque

Stronger gears in gear box
Speed control is fused on both input and output lines
On/off switch on speed control

DADANT A D SONS
• www.dadant.com •
• 1-877-532-3268 •
136 Rt. 17C, Waverly, NY 14892

820 Tightsqueeze Ind. Rd., Chatham, VA 24531

Why are they the best in the business?

All Dadant Extractors are Made With Gauges of Steel Heavier than our Competitors!

Made in the USA!
Bay State Meetings 2010

The Massachusetts Beekeepers Association held its fifth Annual Field Day in South Deerfield, MA. The event attracted several hundred beekeepers from the New England states and New York. The purpose of the field day is to provide instruction on a variety of topics important to beekeeping. MBA Field Day is co-hosted by the University of Massachusetts College of Natural Resources and the Franklin County Beekeepers Association.

The day began with a welcome from Steve Goodwin, Dean of Natural Resources, and Stephen Herbert, PhD Director of Extension. Both Goodwin and Herbert have encouraged and supported cooperation between State Beekeepers and University Faculty and Staff. Each year additional funding has been directed to honey bee and native bee research with a growing emphasis on field-testing and lab analysis by graduate students and PhD candidates. This year the University re-established its permanent apiary on the Amherst campus and renewed its commitment to training student beekeepers. Early planning to set up a queen rearing program is underway for 2011 with MBA as a partner.

Twenty-four sessions were offered by 15 beekeepers representing the ten counties of Massachusetts. Topics included swarming, feeding, queen rearing (Doolittle and Miller methods), Mite control using drone brood, formic acid, and Thymol, and IPM. Workshops on using Top Bar Hives, Non-treatment approaches, the Snellgrove Board, Api-Therapy and Beekeeping Myths. To round out the meeting Bubs’ BBQ served lunch and desert was provided by Bart’s Ice Cream. The smoker contest was won by Jan Korzan of South Deerfield.

The Massachusetts Beekeepers Association will hold its fall meeting and honey show on Saturday October 2, 2010 at the Knights of Columbus Hall, Leicester, MA. Guest speakers include David Tarpy, PhD and Joe Latshaw, PhD. We have an excellent program planned and as always, it will be another competitive honey show representing the best from around the commonwealth. The fall meeting will be hosted by the Worcester County Beekeepers Association. Visit www.massbee.org to pre-register & order lunch.

Thank you to the many volunteers and county officers who continue to make the goal of Massachusetts beekeeping accessible and sustainable for all beekeepers.

Dan Conlon
President Massachusetts Beekeepers Association / EAS Director Massachusetts

Volunteers

If you have an hour or two to spare while you’re at EAS, I urge you to consider volunteering for some task that needs done.

Will and his NC folks are pretty well staffed as far as volunteers, but there’s usually something that comes up that we need extra bodies for – helping at registration, helping vendors unload then load again at the end of the week, helping folks find their way around – just helping to keep things running smoothly.

If you can help please contact Kathy Summers or Will Hicks, either before or after you arrive. You’ll be glad you did!

Check Out The EAS Website
www.easternapiculture.org
You’ll Find Out All About –
EAS 2010
Master Beekeepers
Contact Information
Past Award Winners

The world’s largest producer of the New World Carniolans.

Strachan Apiaries, Inc.
2522 Tierra Buena Rd. Yuba City, CA
(530) 674-3881 (530) 674-5802-fax
(800) 368-3881-orders only
orders@strachanbees.com
www.strachanbees.com
From the Colonies
News • Events • Gossip From The EAS Beeyard

EAS belongs to most of our region’s State Associations in order to keep up with what’s going on in the Colonies. If we don’t yet belong to your Association, contact Loretta so we can sign up. And, send your newsletter to our Editor so we can keep up.

The Vermont Beekeepers Association
will hold their annual meeting July 24 at the Long Trail School in Dorset. Registration and refreshments begin at 8:30 a.m. and meeting runs until 4:00 p.m. A potluck lunch will be served.

The guest is Marla Spivak of the University of Minnesota.

For information contact Bill Mares, 802.863.4938 or bill.mares@gmail.com.

Delaware Valley Beekeeping Course
– July 16-18 in the Feldman Building, Room 114. The cost of the class is $160. Please register early, class size is limited.

Class runs from 9:00 a.m. to 4:00 p.m. each day. Bring your veils and a three-ring binder for the materials that will be distributed. Please do not bring gloves. Bring your lunch. Videos will be shown each day during lunch.

For more information contact Vincent Aloyo, 610.278.1621 or Christopher tipping, 215.489.2449.

The Connecticut Beekeepers’ Association (CBA) will hold their 5th Annual Southern New England Beekeepers’ Assembly (SNEBA) on Saturday, November 20, 2010 at the Unitarian Society in Hamden, CT. Put it on your calendar, and for more information closer to the date, visit their website at: www.sneba.com.

Maine State Beekeepers Association
has decided to change its annual meeting from the spring to the fall! The meeting will be held on October 16, 2010 in Portland, Maine. We are excited to have Medhat Nasr as a speaker as well as a report from Maine Apiarist Tony Jadczak. Julianna Rangel-Posada will also be speaking. The exact location and registration information will be on the MSBA website (mainebeekapers.org) as soon as it becomes available.

The Empire State Honey Producers Association will hold their summer picnic on July 24, 2010 at Dyce Lab in Ithaca, NY. The picnic will be preceded by a business meeting to commence at 10AM. Lunch will feature BBQ chicken, with pot-luck side dishes provided by members. Please bring your own place settings and lawn chair. The guest speaker will be Sam Comfort of Anarchy Apiaries.
EAS Membership, and Life Member Dues Payment/Address Correction Form  
(Please send all money in U.S. funds)

<table>
<thead>
<tr>
<th>Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
</tr>
<tr>
<td>City/State or Province/Zip Code or Mailing Code</td>
</tr>
<tr>
<td>Phone/Fax Email</td>
</tr>
</tbody>
</table>

What local association do you belong to?

| Individual/Family: $25 | $ __________________ |
| Life Membership Dues: $250 | $ __________________ |
| EAS Honey Bee Research Grant | $ __________________ |
| Speaker & Education Fund | $ __________________ |

TOTAL $ __________________

Do not send to EAS Journal Editor. Send your check to –
John Tulloch, EAS Treasurer
P.O. Box 29, Blountville, TN 37617 USA