23rd Annual
Beekeeping Institute

May 15 - 17, 2014
at Young Harris College

Sponsored by
Young Harris College
and the University of Georgia

Young Harris College
EST. 1886

University of Georgia Honey Bee Program
About the Institute

Young Harris College and the University of Georgia are offering the twenty-third annual Beekeeping Institute, May 15-17, 2014 in Young Harris, Georgia.

Since its beginning in 1992, the Institute has become one of the largest and most comprehensive educational beekeeping events in the southeast. Our intention is to create a beekeeping educational event that fits the needs of everyone, whether you’re experienced or a beginner. The Institute sponsors the Georgia Master Beekeeper Program and partners with the Welsh (U.K.) National Bee Keepers Association to provide North America’s premier licensing program for honey judges.

The Institute proper, Friday and Saturday, is a two-day series of lectures and workshops covering a range of beekeeping topics.

Thursday May 15 is dedicated to training and certification examinations for the Journeyman, Master, and Master Craftsman Beekeeper levels, as well as the Welsh Honey Judge qualifications. Training and certification for the Certified (entry) level are incorporated into the normal activities for Friday and Saturday, and classes recommended for Certified candidates are highlighted in blue. Details for these optional programs are included within this program.

Facility limitations force us to cap enrollment at 175. Registration for the Institute began March 5, 2014 and ended March 24, when we reached our maximum capacity.

One of the most rewarding opportunities at the Institute is the annual Honey Show. Along with honey, the Honey Show accepts entries in photography, art, candles, section comb honey, mead, and beekeeping gadgets. We urge students to participate in the Honey Show, even if you’ve never competed before. It costs nothing extra, and it’s a fun way to see how your honey compares to your peers’. You can find the Honey Show rules on page 6 of this program.

We look forward to spending the weekend with you!
Meet our Guest Speakers

MARK WINSTON, PH.D.

Dr. Mark Winston is Professor and Director of the Center for Dialogue, Simon Fraser University, Burnaby, British Columbia, Canada. He received the Manning Award for Innovation, Sterling Prize in Support of Controversy, British Columbia Gold Medal in Science and Engineering, Academic of the Year, Eve Savory Award for Science Communication, Michael Smith Award for Science Promotion, and Fellow of the Royal Society of Canada. Among bee scientists, he is widely known as author of the best-selling Biology of the Honey Bee.

DENNIS VANENGELSDORP, PH.D.

Dr. Dennis vanEngelsdorp is Assistant Research Scientist at the University of Maryland, a founding member of the Colony Collapse Working Group, and Project Director of the Bee Informed Partnership, a 5 year extension grant awarded by USDA/NIFA to reduce colony losses and improve honey bee management nationwide.

GILES BUDGE, PH.D.

Dr. Giles Budge is research coordinator for the National Bee Unit at the Food and Environment Research Agency in York, England (www.nationalbeeunit.com). Giles has 18 years experience conducting applied research across three national organisations and a background in plant and insect pathology. He is interested in using molecular methods and modelling to investigate the biology of organisms that cause disease in honey bees.
About the Georgia Master Beekeeper Program.

The Georgia Master Beekeeper Program is an intensive four-step program designed to provide participants the opportunity to increase their knowledge about all things dealing with bees and beekeeping. Throughout the certification levels (Certified, Journeyman, Master, and Master Craftsman), participants have the opportunity to learn and teach others about beekeeping, and to promote the industry. Certification also helps establish the participant as an authority and an educational resource in his or her community.

Individualized instruction is provided through a series of classroom lectures and hands-on workshops by experts in the field of beekeeping. Advanced lectures for validated and registered candidates for the Journeyman and Master Beekeeper certification levels will take place on Thursday morning, May 15. Training and certification for the Certified Beekeeper level are incorporated into the Institute Proper schedule on Friday and Saturday, May 16 and 17, and are highlighted in blue throughout the program. For more information about the Georgia Master Beekeeper Program, visit our website (www.ent.uga.edu/bees/master-beekeeper) or stop by the registration desk during the intsitute. We are happy to answer your questions!

NOTE: Institute classes are not explicitly designed to prepare students for the exams but are tailored to help those who are already prepared focus on the most important information and have a better experience. Students are expected to bring to the Institute a degree of prior knowledge through independent reading and experience.

About the Welsh Honey Judge Certification

The Welsh Bee Keepers Association has partnered with the YHC-UGA Beekeeping Institute to offer training and certification for honey show judges. This is the first collaboration of its kind between the USA and United Kingdom and has since expanded into a partnering program with the University of Florida. One can become a certified Welsh Honey Judge (WHJ) in 1 year. It takes at least one additional year to achieve the rank of Senior WHJ, although candidates for both levels may proceed through the certification process at their own pace.

Please consult the full program description at http://www.ent.uga.edu/bees/young-harris/certifications.html. If you wish to sit for this training please indicate your intention on the attached registration form and include the appropriate fee. Questions may be addressed to program director Keith Fielder at kfielder@uga.edu.
Thursday, May 15 is dedicated for those wishing to qualify for the Journeyman, Master, Master Craftsman, or Welsh Honey Judge certifications. Master Craftsman audits and exam times are by advance appointment only. Thursday afternoon will be an elective time for Certified candidates to complete the outdoor portion of their practical exam. Reservations for Certified outdoor practicals and exams can be made at the registration desk.

Please do not ask Institute instructors for copies of their digital presentations. There are many copyright and intellectual property difficulties.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>JOURNEYMAN LECTURES - ROOM 113</td>
<td></td>
<td>For those registrants who have been at the Certified level for one year or more and have submitted payment for Journeyman level certification.</td>
</tr>
<tr>
<td>9:45</td>
<td><strong>BREAK</strong></td>
<td></td>
<td></td>
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<tr>
<td>10:15</td>
<td>JOURNEYMAN LECTURES - ROOM 113</td>
<td></td>
<td>For those registrants who have been at the Certified level for one year or more and have submitted payment for Journeyman level certification.</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>LUNCH</strong> <em>SIGN UP FOR CERTIFIED PRACTICAL EXAM APPOINTMENTS AT REGISTRATION DESK</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td>ELECTIVE TIME FOR CERTIFIED OUTSIDE PRACTICAL - BEHIND MAXWELL</td>
<td></td>
<td>Sign up for your appointment at the registration table</td>
</tr>
<tr>
<td>2:30</td>
<td><strong>BREAK</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00</td>
<td>ELECTIVE TIME FOR CERTIFIED OUTSIDE PRACTICAL - BEHIND MAXWELL</td>
<td></td>
<td>Continued from before the break.</td>
</tr>
</tbody>
</table>

**JOURNEYMAN PRACTICAL EXAMS**
Room 109
Practical exams consist of hive and disease identification, among other things. The exam is open only to those who have submitted payment and have been Certified for no less than one calendar year.

**MASTER PRACTICAL DOCUMENTATION AUDITS**
Room 116
You must provide all documentation for Master level certification at this time. For a list of requirements, visit http://bit.ly/1ncmJX7.

**WELSH HONEY JUDGE TRAINING LECTURES**
Room 107
Please note that WHJ qualifications have changed. New rules can be found here: http://bit.ly/1nWrOCY. These lectures are open to those who have registered and submitted payment for honey judge training.

**WELSH HONEY JUDGE EXAMS & AUDITS**
Room 107
Please note that WHJ qualifications have changed. New rules can be found here: http://bit.ly/1nWrOCY. These exams & audits are open to those who have registered and submitted payment for honey judge training.
Honey Show Rules

• Only registered Institute participants may enter.
• Judges, stewards, and show secretary are disqualified from competition.
• Institute reserves the right to limit the number of entries on a first-come, first-admitted basis.
• There are fourteen show classes: (1) extracted honey light, (2) amber, (3) dark, (4) chunk honey, (5) black jar, (6) cut-comb, (7) creamed honey, (8) mead, (9) flavored mead, (10) beeswax cake (a single molded piece of two pounds or more), (11) candle (poured or dipped, straight or ornamental), (12) original bee-related photography, (13) original bee-related art, and (14) beekeeping gadgets. Contestant may enter in any or all classes but may enter only once per class.
• All honey and beeswax entries must have been produced by the submitter and within the last 12 months. This restriction does not apply to entries in mead, photography, art, and gadgets.
• All entries for honey and candles must be submitted in triplicate: i.e., three matching jars of honey, three boxes of cut-comb, or three candles. The only exemption is black jar; one is enough.
• Submit extracted honey in standard one-pound Gamber or queenline-type jars. Either plastic or glass is acceptable; jars with tamper-proof seals will be disqualified.
• Submit chunk honey in standard one-pound chunk honey jars with wide mouths and straight sides. Insert only one piece of comb in jar.
• Submit mead in clear 750 ml bottles.
• The sole criterion in the black jar class is flavor. Bring entry in a jar spray-painted black.
• Beeswax entries must be pure beeswax.
• Art and photography must be presented in a self-standing frame, and each accompanied with a 3 x 5 card giving the title, artist, and brief “story” behind the piece.
• Do not label products in any way; an identifying code sticker will be assigned to your entry at registration.

ENTRIES WILL BE ACCEPTED FROM 8:00 A.M. UNTIL 11:45 A.M. FRIDAY.

Judging criteria are selected at the discretion of senior judge. All entries are judged on individual merit; class ribbons are awarded at judge’s discretion.
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<tr>
<td>7:00 - 6:00</td>
<td><strong>REGISTRATION OPEN IN MAXWELL LOBBY</strong>&lt;br&gt;<em>Sign up for your Certified Practical Exam time slot when you Check in.</em></td>
</tr>
</tbody>
</table>
| 8:00 - 8:45| **ESSENCE OF ROYALTY**<br>Planetarium<br>Winston<br>Queen pheromones and their effects on the colony  
**GETTING STARTED: THE PRINCIPLES**<br>Owens<br>Getting Started for the new beginner  
**BIOLOGY OF INDIVIDUALS**<br>Nolan<br>Development & behavior of workers, drones & queens  
**BIOLOGY OF THE COLONY**<br>Delaplane<br>Seasonal life history of the honey bee colony as a superorganism  
**BEE DECLINE IN THE U.S.**<br>vanEngelsdorp<br>Bee decline in the United States |
| 9:00 - 9:45| **ESSENCE OF ROYALTY**<br>Planetarium<br>Winston<br>Queen pheromones and their effects on the colony  
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| 10:00 - 10:45| **BEE DECLINE IN EUROPE: PARALLELS, DIFFERENCES**<br>Planetarium<br>Budge<br>Insight from our neighbors across the pond on the causes of bee decline in Europe  
**CLASSICAL QUEEN REARING**<br>Weaver<br>Grafting larvae, cell starter colonies, finisher colonies, and principles of queen rearing  
**BIOLOGY OF INDIVIDUALS**<br>Nolan<br>Development & behavior of workers, drones & queens  
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**GETTING STARTED: THE REAL THING**<br>Behind Maxwell<br>Dix<br>Taking the principles of beginning beekeeping and applying them in the field  
**MAKING SENSE OF BEE CATALOGS**<br>Quinn<br>What do you need? What can wait? A common sense guide for the beginner |
| 11:00 - 11:45| **BEE DECLINE IN EUROPE: PARALLELS, DIFFERENCES**<br>Planetarium<br>Budge<br>Insight from our neighbors across the pond on the causes of bee decline in Europe  
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**PATHOGENS**<br>Nolan<br>An overview of the primary disease organisms of the honey bee and their control  
**PARASITES & PREDATORS**<br>Berry<br>An overview of the vertebrate and invertebrate enemies of honey bees and their control  
**GETTING STARTED: THE REAL THING**<br>Behind Maxwell<br>Dix<br>Taking the principles of beginning beekeeping and applying them in the field  
**MAKING SENSE OF BEE CATALOGS**<br>Quinn<br>What do you need? What can wait? A common sense guide for the beginner |
| 11:45-12:00| **GROUP PHOTO IN FRONT OF MAXWELL**<br>*Reminder: Honey show entries due by 11:45 a.m.* |
| 12:00 - 1:00| **LUNCH** |
| 1:00 - 1:45| **BEE ANATOMY**<br>Planetarium<br>Winston<br>The beauty and evolutionary wonder of honey bee morphology  
**ALTERNATIVE QUEEN REARING**<br>Montgomery<br>Grafting larvae can be a difficulty in classical queen rearing. This method gets around that.  
**URBAN BEEKEEPING**<br>Hodges<br>Considerations for keeping bees with nearby neighbors  
**PARASITES & PREDATORS**<br>Berry<br>An overview of the vertebrate and invertebrate enemies of honey bees and their control  
**GETTING STARTED: THE REAL THING**<br>Behind Maxwell<br>Dix<br>Taking the principles of beginning beekeeping and applying them in the field  
**BASIC HONEY PROCESSING**<br>Owens<br>How to take it from the comb to the bottle |

**TURN FOR THE REST OF FRIDAY’S SCHEDULE**
### FRIDAY - MAY 16, continued

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<thead>
<tr>
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<td>QUEEN EVALUATIONS - Behind Maxwell Funderburg</td>
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<td>How to judge queen quality and whether she should be replaced</td>
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<td>How do chemical mite controls work and what do they do to the bees?</td>
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<td>5:00 - 6:00</td>
<td>CERTIFIED WRITTEN EXAM - Weaver <em>Same exam, two rooms</em></td>
<td>Weaver</td>
<td></td>
<td>Same exam, two rooms*</td>
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<td>CERTIFIED WRITTEN EXAM - Nolan <em>Same exam, two rooms</em></td>
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</tr>
<tr>
<td>6:30</td>
<td>GROUP DINNER</td>
<td></td>
<td></td>
<td>This year, the group dinner will be at the Georgia Mountain Fairgrounds in Hiawassee, GA.</td>
</tr>
</tbody>
</table>

**Please refer to the printed map on the next page for directions once you enter the fairgrounds.**
THE RED LINE HIGHLIGHTS THE LOCATION OF OUR GROUP DINNER. WE WILL BE MEETING IN THE PARIS PAVILION. PLEASE STOP BY THE REGISTRATION DESK BEFORE YOU LEAVE IF YOU HAVE ANY QUESTIONS ABOUT DIRECTIONS OR THE EVENT.
<table>
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| 8:00 - 8:45 | **EPIDEMIOLOGY & DISEASE EVOLUTION** Planetarium Budge  
How can we use our knowledge of disease spread to minimize disease in our colonies?  
**LESSONS I’VE LEARNED FROM BEES**  
106 Winston  
Ruminations by Dr. Winston on applications to human life learned from our six-legged friends  
**CERTIFIED PRACTICAL EXAM**  
110 SCHEDULE YOUR EXAM TIME AT THE REGISTRATION DESK.  
**BOTANICAL HIVE PRODUCTS**  
108 Ball  
Processing and commercializing propolis and other products of the hive  |
| 9:00 - 9:45 | **EPIDEMIOLOGY & DISEASE EVOLUTION** Planetarium Budge  
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| 10:00 - 10:45 | **THE FOULBROOD GANG: TRACKING DOWN BEE KILLERS** Planetarium Budge  
New insights on an old foe of honey bees – American and European foulbrood  
**WRITING ABOUT BEES**  
106 Winston  
Dr. Winston, an award winning science writer, talks about the craft of writing about bees  
**CERTIFIED PRACTICAL EXAM**  
110 SCHEDULE YOUR EXAM TIME AT THE REGISTRATION DESK.  
**MANAGEMENT IN THE OFF-SEASON** Behind Maxwell Weaver  
How to manage colonies for optimum survival through late summer, autumn, and winter  |
| 11:00 - 11:45 | **THE FOULBROOD GANG: TRACKING DOWN BEE KILLERS** Planetarium Budge  
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| 11:45 - 1:00 | LUNCH                                                                 |

**HONEY PLANTS**  
116 Ball  
An overview of the primary nectar producing plants of the Southeast  
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**HONEY NUTRITION & SUPPLEMENTS**  
113 Berry  
An overview of the nutrient demands of bees and ways to meet them  
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An overview of the nutrient demands of bees and ways to meet them  
**INSTALLING BEES FROM PACKAGES & NUCS** Behind Maxwell Quinn  
Nucleus colonies (small starter colonies) are one of the most effective ways to make increases & reduce swarming  
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<td>1:00 - 1:45</td>
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<td>vanEngelsdorp</td>
<td>A scientist at the forefront of bee decline imagines how the problem will resolve</td>
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<td><strong>POLLEN ANALYSIS OF HONEY</strong></td>
<td>Arnold</td>
<td>Students are invited to bring their own honey and learn how to determine the pollen associated with it</td>
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<td></td>
<td><strong>RUNNING A MID-SIZE BEEKEEPING OPERATION</strong></td>
<td>Fielder</td>
<td>Insights into moving from a small-scale to a medium-scale operation</td>
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<td><strong>CERTIFIED NATURALLY GROWN BEEKEEPING</strong></td>
<td>Hodges</td>
<td>An overview of the CNG program for Georgia farmers</td>
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<td><strong>EQUIPMENT CONSTRUCTION</strong></td>
<td>Funderburg</td>
<td>The latest in bee health medicines and miticides</td>
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<td>Hodges</td>
<td>How to attract youngsters to beekeeping</td>
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<td><strong>UNDERSTANDING BEE STINGS</strong></td>
<td>Dix</td>
<td>Defusing the fear of bee stings with knowledge, preventive skills, and appropriate treatment</td>
</tr>
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<td><strong>EQUIPMENT CONSTRUCTION</strong></td>
<td>Funderburg</td>
<td>A popular repeat workshop on the construction of hive equipment</td>
</tr>
<tr>
<td>4:00</td>
<td><strong>ANNOUNCE NEWLY QUALIFIED CERTIFIED BEEKEEPERS &amp; CLOSING REMARKS</strong></td>
<td>Planetarum</td>
<td></td>
</tr>
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Meet our Staff & Instructors

- Paul Arnold is professor of biology at Young Harris College. He is co-founder and host of the Beekeeping Institute.

- Keith Delaplane is professor of entomology at the University of Georgia and co-founder of the Beekeeping Institute.

- Robert Brewer is Towns County Extension Director with the University of Georgia Cooperative Extension Service and co-founder of the Beekeeping Institute.

- Jennifer Berry is Apicultural Research Coordinator and Apiary Manager at the University of Georgia.

- Nicholas Weaver is the Research Project Supervisor with the University of Georgia Honey Bee Program. He manages all of UGA’s honey bee colonies.

- Brett Nolan is a Ph.D student with the University of Georgia Honey Bee Program.

- Philip Quinn is a Georgia Master Beekeeper, the 2014 YHC-UGA Bee Institute Coordinator, and a research technician at the UGA Honey Bee Lab.

- Wil Montgomery is a Georgia Master Beekeeper and long-time supporter of the Beekeeping Institute.

- Cindy Hodges is a Georgia Master Beekeeper, President of the Metro Atlanta Beekeepers Association, and 2012 Georgia Beekeeper of the Year.

- Bill Owens is past president of the Georgia Beekeepers Association and Georgia’s first Master Craftsman beekeeper.

- Cyndi Ball is a beekeeping educator, advocate for sustainable farming practices, and owner of lazy b farms (thelazybfarm.com).

- Lonnie Funderburg is a Georgia Master Beekeeper and two-term president of the Alabama Beekeepers Association.

- Will Dix is a practicing physician in Athens, a Fellow of the American College of Emergency Physicians, and a Journeyman Beekeeper.

- Keith Fielder is Putnam County Extension Director with the University of Georgia Cooperative Extension Service and Director of the Institute Honey Show.

- Ben Rouse is a research technician at the UGA Honey Bee Lab and an aspiring artist & photographer.

- Tabitha Weaver has worked with the Institute since 2011, and is the 2014 YHC-UGA Bee Institute Manager and materials designer.
General Information

For driving directions, visit: http://goo.gl/QOkrk2

THE INSTITUTE IS HELD AT YOUNG HARRIS COLLEGE IN YOUNG HARRIS, GA.

THE ADDRESS IS:
1 COLLEGE STREET
YOUNG HARRIS, GA
30582

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