

MAY 15 - 17, 2014 AT YOUNG HARRIS COLLEGE

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Sponsored by Young Harris College and the University of Georgia

Young Harris COLLEGE

EST. 1886



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 <u>Biology of the Honey Bee</u>.



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

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.

8:00 - 9:45	JOURNEYMAN LECTUR For those registrants w Certified level for one y submitted payment for certification.	ho have been at the ear or more and have	MASTER LECTURES - ROOM 116 For those registrants who have been at the Journeyman level for one year or more and have submitted payment for Master level certification.						
9:45 - 10:15	BREAK								
10:15 - 12:00	JOURNEYMAN LECTUR For those registrants w Certified level for one y submitted payment for certification.	ho have been at the ear or more and have	MASTER LECTURES - ROOM 116 For those registrants who have been at the Journeyman level for one year or more and have submitted payment for Master level certification.						
12:00 - 1:00	LUNCH *SIGN UP FOR CERTIFIED PRACTICAL EXAM APPOINTMENTS AT REGISTRATION DESK*								
1:00 - 2:30	CERTIFIED OUTSIDE PRACTICAL - BEHIND MAXWELL Sign up for your appointment at the registration table 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.		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.	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.					
2:30 - 3:00	BREAK								
3:00 - 5:00	ELECTIVE TIME FOR CERTIFIED OUTSIDE PRACTICAL - BEHIND MAXWELL Continued from before the break.	JOURNEYMAN & MASTER WRITTEN EXAMS - ROOM 116 Exams are open to those who have submitted payment and have held prior certification level for one calendar year.	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.						



FRIDAY - MAY 16

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.





FRIDAY - MAY 16

7:00 - 6:00	REGISTRATION OPEN IN MAXWELL LOBBY *Sign up for your Certified Practical Exam time slot when you Check in.*									
8:00 - 8:45	ESSENCE OF ROYALTY Planetarium Winston Queen pheromones and their effects or the colony	F GETTING STARTED: TH PRINCIPLES 1 Owens		BIOLOGY OF INDIVIDUALS 106 Nolan Development & behavior of workers, drones & queens		BIOLOGY OF THE COLONY 116 Delaplane Seasonal life history of the honey bee colony as a superorganism		BEE DECLINE IN THE U.S. 109 vanEngelsdorp Bee decline in the United States		
9:00 - 9:45	ESSENCE OF ROYALTY Planetarium Winston Queen pheromones and their effects or the colony	PRINCIPLES Owens Getting Started	STARTED: THE PRINCIPLES 108 Owens Getting Started for		INDIVIDUALS 106CNolanDDevelopment & behavior of workers, drones & queensSe		COLONY 116 Delaplane Seasonal life history		BEE DECLINE IN THE U.S. 109 vanEngelsdorp Bee decline in the United States	
10:00 - 10:45	IN EUROPE: PARALLELS, DIFFERENCES Planetarium Budge Insight from our neighbors across the pond on the causes of bee	QUEEN INDIVI REARING 106 10 Nolan Weaver Develop Grafting larvae, & behave		vior of s, drones	BIOLOGY OF THE COLONY 116 Delaplane Seasonal life history of the honey bee colony as a superorganism		GETTING STARTED: THE REAL THING Behind Maxwell Dix Taking the principles of beginning beekeeping and applying them in the field		MAKING SENSE OF BEE CATALOGS 109 Quinn What do you need? What can wait? A common sense guide for the beginner	
11:00 - 11:45	IN EUROPE: PARALLELS, DIFFERENCES Planetarium Budge Insight from our neighbors across the pond on the causes of bee	CLASSICAL PAT QUEEN 106 REARING Nola 110 Weaver of th Grafting larvae, cell starter of th		DGENS rview primary e organisms honey bee eir control	PARASITES & PREDATORS 116 Berry An overview of the vertebrate and invertebrate enemies of honey bees and their control		GETTING STARTED: TH REAL THING Behind Maxw Dix Taking the principles of beginning beekeeping an applying them the field	vell	MAKING SENSE OF BEE CATALOGS 109 Quinn What do you need? What can wait? A common sense guide for the beginner	
11:45-12:00	GROUP PHOTO IN FRONT OF MAXWELL *Reminder: Honey show entries due by 11:45 a.m.*									
12:00 - 1:00	LUNCH									
1:00 - 1:45	Planetarium Winston The beauty and evolutionary wonder of honey bee morphology	REARING 106 110 Hodg Montgomery Cons		EPING s erations ping bees earby	PARASIT PREDATO 116 Berry An overvie the verteb and inverte enemies of bees and t control	w of rate ebrate f honey	GETTING STARTED: TH REAL THING Behind Maxw Dix Taking the principles of beginning beekeeping an applying them the field	vell	BASIC HONEY PROCESSING 117 Owens How to take it from the comb to the bottle TURN FOR THE REST OF FRIDAY'S SCHEDULE 7	

FRIDAY - MAY 16, continued

2:00 - 2:45	BEE ANATOMY Planetarium Winston The beauty and evolutionary wonder of honey bee morphology	ALTERNATIVE QUEEN REARING 110 Montgomery Grafting larvae can be a difficulty in classical queen rearing. This method gets around that.	URBAN BEEKEEPING 106 Hodges Considerations for keeping bees with nearby neighbors	PARASITES & PREDATORS 116 Berry An overview of the vertebrate and invertebrate enemies of honey bees and their control	CANDLE MAKING 109 Ball An overview of the principles of beeswax candle making	BASIC HONEY PROCESSING 117 Owens How to take it from the comb to the bottle		
3:00 - 3:45	QUEEN EVALUATIONS Behind Maxwell Funderburg How to judge queen quality and whether she should be replaced	SPRING MANAGEMENT Behind Maxwell Dix Swarm prevention, colony buildup, supering for the honey flow	CANDLE MAKING 109 Ball An overview of the principles of beeswax candle making	MITICIDE MODES OF ACTION & CONSEQUENCES 113 vanEngelsdorp How do chemical mite controls work and what do they do to the bees?	CARPATHIAN BEEKEEPING: AN APPALACHIAN PARALLEL? 108 Arnold A look at apicultural practices in the Carpathian Mtn region of Ukraine, the Carpathian bee, & parallels w/traditional beekeeping in the Appalachian mountains of GA.	BASIC HONEY PROCESSING 117 Owens How to take it from the comb to the bottle		
4:00 - 4:45	QUEEN EVALUATIONS Behind Maxwell Funderburg How to judge queen quality and whether she should be replaced	SPRING MANAGEMENT Behind Maxwell Dix Swarm prevention, colony buildup, supering for the honey flow	PATHOGENS 106 Nolan An overview of the primary disease organisms of the honey bee and their control	MITICIDE MODES OF ACTION & CONSEQUENCES 113 vanEngelsdorp How do chemical mite controls work and what do they do to the bees?	CARPATHIAN BEEKEEPING: AN APPALACHIAN PARALLEL? 108 Arnold A look at apicultural practices in the Carpathian Mtn region of Ukraine, the Carpathian bee, & parallels w/traditional beekeeping in the Appalachian mountains of GA.	BASIC HONEY PROCESSING 117 Owens How to take it from the comb to the bottle		
5:00 - 6:00	CERTIFIED WRITTEN EXAMCERTIFIED WRITTEN EXAM116 - Weaver *Same exam, two rooms*113 - Nolan *Same exam, two rooms*							
6:30	GROUP DINNERThis year, the group dinner will be at the Georgia Mountain Fairgrounds in Hiawassee, GA.ADDRESS:DIRECTIONS:1311 Music Hall Rd• From College Street (the main entrance of Young Harris College), turn RIGHT onto MAIN St.• Drive approximately 6.5 MILES - the fairgrounds will be on your LEFT							

FOR DIRECTIONS ONCE YOU ENTER THE FAIRGROUNDS

FRIDAY - MAY 16, continued

Group Dinner

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.



SATURDAY - MAY 17

7:00 - 3:00	REGISTRATION OPEN IN MAXWELL LOBBY							
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	HONEY PLANTS 116 Fielder An overview of the primary nectar producing plants of the Southeast	HONEY NUTRITION & SUPPLEMENTS 113 Berry An overview of the nutrient demands of bees and ways to meet them		
9:00 - 9:45	EPIDEMIOLOGY & DISEASE EVOLUTION Planetarium Budge How can we use our knowledge of disease spread to minimize disease in our colonies?		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	HONEY PLANTS 116 Fielder An overview of the primary nectar producing plants of the Southeast	HONEY NUTRITION & SUPPLEMENTS 113 Berry An overview of the nutrient demands of bees and ways to meet them		
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		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	HOST DENSITY & VARROA 116 Nolan How does the colony number in our apiaries affect our colonies' health?	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		
11:00 - 11:45	THE FOULBROOD GANG: TRACKING DOWN BEE KILLERS Planetarium Budge New insights on an old foe of honey bees – American and European foulbrood		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	HOST DENSITY & VARROA 116 Nolan How does the colony number in our apiaries affect our colonies' health?	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		
11:45 - 1:00	LUNCH							

TURN THE PAGE FOR THE REST OF SATURDAY'S SCHEDULE

SATURDAY - MAY 17, continued

1:00 - 1:45	LOOK LIKE Planetarium vanEngelsdorp A scientist at the forefront of bee decline imagines how the problem will resolve	POLLEN ANALYSIS OF HONEY 109 Arnold Students are invited to bring their own honey and learn how to determine the pollen associated with it	A MID-SIZE BEEKEEPING OPERATION 113 Fielder Insights into moving from a		CERTIFIED NATURALLY GROWN BEEKEEPING 116 Hodges An overview of the CNG program for Georgia farmers		EQUIPMENT CONSTRUCTION 108 Funderburg A popular repeat workshop on the construction of hive equipment		ADVANCES IN BEE HEALTH PRODUCTS 106 Dix The latest in bee health medicines and miticides
2:00 - 2:45	LOOK LIKE Planetarium vanEngelsdorp A scientist at the forefront of bee decline imagines how the problem will resolve	POLLEN ANALYSIS OF HONEY 109 Arnold Students are invited to bring their own honey and learn how to determine the pollen associated with it	RUNNING A MID-SIZE BEEKEEPING OPERATION 113 Fielder Insights into moving from a small-scale to a medium-scale operation		CERTIFIED NATURALLY GROWN BEEKEEPING 116 Hodges An overview of the CNG program for Georgia farmers		EQUIPMENT CONSTRUCTION 108 Funderburg A popular repeat workshop on the construction of hive equipment		ADVANCES IN BEE HEALTH PRODUCTS 106 Dix The latest in bee health medicines and miticides
3:00 - 3:45	RUNNING A JUNIORPOLLEN ANA OF HONEYBEEKEEPING PROGRAM109 Arnold117 HodgesStudents are in to bring their o honey and learn to determine th pollen associat with it		nvited pwn n how the SIZE BEEKEEPI OPERATION 113 Fielder Insights into mov from a small-scale to a medium-scale		KEEPING ON to moving all-scale	EEPING BEE STINGS N 115 Dix Defusing the fear of bee stings with knowledge,		CO 108 Fun A p wo cor	UIPMENT NSTRUCTION 3 nderburg oopular repeat rkshop on the nstruction of hive uipment
4:00	ANNOUNCE & CLOSING Planetarium								
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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 twoterm 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 Beekeper.



- 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

