



Please use the information below to help choose which course you would like to attend. Remember, some courses require pre-registration because of limited space or materials. Any experience level is welcome to attend any course, however if you do not have any bees yet, we highly recommend that you attend the “beginner track”(refer to the published schedule, classes are marked orange).

Are you worried you may miss out on a class, or are you unsure of what to choose? Don't be! You will be given a full-program upon morning registration the day of the event that will include notes and/or outlines from every course we offer. This allows you access and take home to most of the information taught at Bee College and will serve as a valuable reference for years to come.

## 2012 Bee College Short Course Descriptions:

### **African Bee (AFBEE) Training for Pest Control Operators (PCOs) – Kern**

Africanized honey bees are notorious for the defense of their colonies. Because of the potential danger from an aggressively defensive colony, PMP's that want to do bee removal / pest control in Florida must first attend this required training. PMPs licensed in General Household Pest Control that completes this training may choose to be added to the Bureau of Entomology and Pest Control's list of approved bee removal personnel. This class fee is included in registration *however; if you are a PCO and wish to attend ONLY this course (and not the entire Bee College), there is a fee of just \$30.*

### **Africanized Bees in Florida – Kern**

Africanized honey bees are a concern to Beekeepers and the general public in Florida. While managed honey bee colonies have continued to suffer from Varroa mites and the diseases they vector, feral Africanized honey bees are flourishing in the southern half of the state. What is and will be the impact of AHB on beekeeping in Florida?

### **Artificial Insemination Lecture – Hall, G.**

The following information about instrumental insemination of queen honey bees will be covered: reasons for its use, the names of a text and website, a brief history of developing the technique, descriptions of the instrument parts, and the steps involved in collecting semen, mounting the queen in the instrument, and conducting the insemination.

### **Beekeeping in the Caribbean – Sterk**

In this class we will take a look at beekeepers in 10 Eastern Caribbean nations. I will illustrate how beekeeping is used as sustainable income for the 3rd world agricultural development. I will share my personal experiences working as a volunteer with The Florida Association for Volunteer Action in the Caribbean and the Americas (FAVACA) through which I have completed much of my public service credits toward the Master Beekeeper Program.



**Beekeeping in the United Kingdom – Young**

This topic will show the history of beekeeping over 500 years in the UK/British Isles and important milestones in its making.

**Beeswax Encaustic Painting – Young**

In this workshop you will gain hands-on experience of one of the oldest painting crafts from humankind; paintings that have adorned the Pyramids for thousands of years are still as fresh as today using Encaustic art.

**Beginners Overview – Dykes**

This class is a primer to beekeeping. In the class you will learn the history of beekeeping up to modern times. In addition you will learn about the modern hive and beekeeping nomenclature. This class is essential for beginners, especially those who do not yet have bees.

**Bottling, Labeling and Selling honey in Florida- Gentry**

This presentation covers the laws and guidelines for bottling in a safe and sanitary environment and spells out exactly how to make your labels according to regulation. This is a must for anyone who is getting ready to bottle and sell honey under the new Cottage Food Law.

**Building Equipment – Dykes**

This class will introduce you to the basics of Langstroth bee hive equipment construction including tools, materials, and some tips and tricks of the trade. Portions of this class are hands on to provide the novice with experience building equipment.

**Building Native Bee Habitats – Graham**

There are over 300 species of bees in Florida, though these bees do not produce honey or beeswax, they are "the unsung heroes of pollination". During this presentation, I will discuss what you can do to help native bees in your area by providing nesting habitat and simple ways you can construct dwellings for these bees.

**Building Observation Hives –Hall, D.**

Hands on demonstration on how to build a simple observation hive for under 15 dollars. Several types of observation hives will also be shown with the pros and cons for each type. Following this class you should be able to build your own observation hive using common building supplies you may already have on hand or can easily get at any hardware store.



### **Creating Beekeeping Presentations & Workshops – Baldwin**

Do you get requests to present at clubs, civic organizations, festivals, and schools? Do you need community service credits for your Master Beekeeper credentials and wonder how to obtain them? Come learn some tips on creating interactive educational presentations using nature as a guide. We will address some presentation skills useful for both formal classroom settings (visual aids and technology) and informal outdoor settings (including crowd control). You will also have a chance to share some of your own creative ideas with your colleagues.

### **Confessions of a Traveling Beekeeper: Five Principles of Beekeeping- Connor**

Dr. Larry Connor will share his beekeeping epiphanies gained over thirty years of traveling, teaching, writing and always learning about the honey bee.

### **FABIS: Fast African Bee ID System – Evans Pre-registration required**

Join me on the hunt for one of Hollywood's most feared invasive species of all times, *Apis Mellifera Scutellata* or the African Honey Bee! We will be investigating the traits and habits that make the AHB unique and give it the notorious reputation as the Killer Bee. You will learn how to determine probability Africanized of a sample of honey bees and how the Department of Plant Industry processes samples of honey bees that are sent in for identification from around the country. You are invited to bring in a sample of bees from your personal colony to identify. Please note a minimum of 10 bees is required for identification but I recommend bringing between 30-50 bees. If you do not bring in a sample, a sample will be provided.

### **Florida Honey Plants – Zerba**

This presentation will give a brief overview of the plants common to Florida (in particular the Northeast Florida region) that are used by honeybees to produce honey. Pictures will be shown of the plants with information given as to time of year you might find them in bloom.

### **Gardening for Bees – Peterson**

Whether you live out in the country or in an urban setting, attracting an array of bees into your garden is simple when you craft an alluring habitat. Learn about plants that invite pollinators and some great tips for creating a bee-friendly garden, and get ready to experience a variety of honey bee and native bee visitors in your backyard.

### **Gourmet Honey Cookery – Young**

This workshop will enable all participants to create a Gourmet Meal using honey in each course. The menu includes Smoked Salmon Langstroth, Pan Fried Ostrich EAS style served with a whole grain Honey mustard sauce and accompanied with a Burnt Caramelized Honeyed & Onion Potato Mash and Root Vegetables Glazed with Honey



**Hands -on Queen Rearing/ Grafting Workshop – Connor/Klopchin** Pre-registration required

In this workshop we will be using living frames from a live honey bee colony to identify different stages of larvae. We will try out different types of grafting tools, cups and bars. Lights and magnification are provided. Everyone seated will have a chance to practice grafting for the first time. There will be ample time for practical queen rearing questions. Queen rearing is a technique geared for the experienced beekeeper who is looking to expand their colony numbers. \* Participants should also attend “Principles of Queen Rearing Lecture” (held Friday Morning) OR have already attended a queen rearing lecture at a previous event.

**Hive Demo – Staff**

Suit up, light a smoker and take a tour through a live beehive with the guidance of one of our trained staff. You will have a chance to I.D. all aspects of the hive and equipment and is typically a great place for question and answers. We please ask that if a session is too crowded you wait until another period. DO NOT open any hives on the property. ONLY staff (see nametag) are permitted to open hives.

Living together in Harmony? Looking at the **Honey Bee Diversity in Borneo – Niko & Gudrun Koeniger**

Out of the nine recognized species of honey bees (genus *Apis*) five species are found in Borneo. There are three cavity nesting species, *Apis koschevnikovi*, *A. cerana* and *A. nuluensis* and two open nesting species, the dwarf bee *A. andreniformis* and the giant bee *A. dorsata*. Due to their common ancestors all species share a large heritage. Their need for flowers, nesting sites and in particular many important chemical signals are more or less similar. So “living together” means competition among the honey bee species. We will discuss the biology of each honey bee species, before we will present some evidence and ideas how they have succeeded to avoid disastrous interactions with their close relatives.

**Honey Bee Mating: “Mysteries in the Blue Sky: Mating Flight and Reproductive Biology of the Honey Bee – Niko & Gudrun Koeniger**

Drones leave the hive and wait for virgin queen away from the colony flying high up in the sky. Where do the drones fly? How many drones assemble at that location (called Drone Congregation Areas or DCA) and how many colonies are represented at a DCA? How do drones compete for arriving queens? And how do they transfer their sperm under “sterile” conditions into the queen? How does a queen know when she has received enough and can return to her safe home? You are invited to the continuation of the list of mysteries and a few answers in our lecture room.



**Honey Bee Pests and Predators – HBREL Staff**

This course will review the known viruses, fungi, and bacterial diseases that affect the honey bee. It will also review insect pests including the bee louse, wax moths, small hive beetle, mites and other winged and vertebrate pests. This course is designed to inform the beekeeper of all the possible problems that they may encounter over a lifetime of beekeeping, providing some simple identification techniques and a brief explanation of treatments. Please note: there are other courses on the schedule that examine some of these pests or predators of the honey bee in more detail.

**Honey Extraction – Kelley**

This workshop will demonstrate, using real honey frames and full-size extracting equipment, how to extract honey from your hives. There will be some minor class participation and discussion of different extraction techniques, filtration, equipment and proper preparation for bottling.

**How to Make Splits – Horsburgh**

This workshop will go over exactly how and what time of year to make splits from your full size colonies. This is a crucial technique for swarm control, colony management, and expanding your apiary. What every beekeeper should know about increasing their number of colonies for fun and for profit. This course is recommended for beginners.

**How to Teach Youth about Bees – Baldwin**

Are you excited about teaching others about bees and bee keeping, but would like to have some tips on how to connect with youth? If so, join us as we take a look at some beekeeping terms and how they can be defined for audiences of all ages. We'll also review projects available to 4H'ers, scouts, and FFA members, so you can mentor students with their projects. You will have a chance to share your own youth project success stories with the group.

**Insect Sting Emergency Treatment– Drake**

You will be prepared to handle bee sting emergencies at your home or bee yard. Completion of this course will also allow you to apply to the Department of Health for certification to provide epinephrine autoinjector treatment in an emergency.

**Installing Packages, Clipping and Marking Queens –Corbin**

In this workshop you will learn how to install a package of honey bees into your brand-new box and some interesting tips from a seasoned professional. You will also be able to gain some hands on experience in handling, clipping, and marking a queen, an essential skill in beekeeping.



**Integrated Pest Management – Hood**

The U.S. beekeeping industry must embrace IPM because it represents the best long-term approach to the pest problems that we face today. The 8 principles of integrated pest management will be discussed during this workshop. Attendees will go away with a better understanding of this sustainable approach to pest control.

**Jr. Bee College –David & Ursula Westervelt**

A conception of beekeeping for the “NEW” (never owned bees) to the novice beekeepers! Starting with “What’s The BUZZ On Bees?”; Honey Bee Education Program for all ages, and (weather allowing) ending the day with a field trip exploring the world of the bee ending in the bee hive in the bee yard. This course is recommended for children ages 6-16 and is will have 2 adults present at all times. Teachers and parents are welcome to attend.

**Making Beekeeping into a Business – Hall, D.**

There are a lot of steps that need to be done to turn your hobby in to a small sideline business. This lecture covers all these business related items that are often overlooked. This includes the subject matters of: obstacles, legal structures, necessary permits and licenses, taxes, insurance, and other business related topics.

**Meade Making – Hogtown Brewers; Alex & Caitlin Pries**

Do you want to do something a little different with your bees' honey? Come learn about the ancient process of making mead or honey wine. Stop by for a real-time demonstration and a discussion on home mead-making and the techniques involved. You'll be surprised how easy it is to get started!

**Native Bees of Florida – Hall, G**

Characteristics of the different bee families found in Florida and the current and potential value of native bees for agricultural pollination will be described. Results from recent studies will be presented. Surveys of bee populations in north-central Florida have led to the discovery of rare and previously undescribed species of bees, including ones particularly important for agricultural pollination. Other studies have revealed interesting relationships between cuckoo bees and their hosts.

**Nosema Dissections – Klopchin Pre-registration required**

In this hands-on workshop we will discuss a brief history of nosema, challenges and treatments. We will dissect the abdomens of honeybees and microscopically look for nosema spores. I highly recommend that you bring a sample of 50 bees from a suspect (sick or problem) colony in your yard. To do this, shake or scoop bees from the lid or outer frames into a glass jar of rubbing alcohol, just enough to cover the bees. We will then discuss our individual findings and how to approach treatment.



**Pollination Basics – Connor**

This class offers an overview of the mechanisms of flower-insect relationships, with special emphasis on honey bee pollination of plants that are important to humans. Special pollination needs and practices for pollination will be discussed.

**Principles of Queen Rearing Lecture – Connor**

This extended lecture will discuss the mechanisms of queen production used by bees and how beekeepers can use simple manipulations to produce high quality queens by non-transferal and transferal (of larvae) methods. You will also learn how to evaluate a queen by size and performance. This class is a must for anyone who has signed up for the “Hands-on Queen Rearing /Grafting” workshop held Friday afternoon.

**Races of Honey Bees – Westervelt, D.**

Which race of honey bee is right for you? Did you know there are over 13 (and counting!) races of honey bees? Power point on the different traits, character, behavior, qualities etc.... a beekeeper might look for in the “RACE OF BEE” they use. Great for all experience levels.

**Rendering Wax, Making Candles & other Wax Products – Hutson, Twitchell**

In this course, we will discuss the process of rendering wax (preparing it for use from its raw form), pouring molded candles using a variety of molds, making rolled candles, and other wax items as time permits. Some live demonstration is included. This course is for beginner and intermediate wax artists.

**Setting Up Your Apiary –Ellis**

This class will introduce you to the basics of setting up your apiary including: starting colonies, hive placement, and hive checks. We will also cover the yearly timetable of beekeeping. This class is essential for beginners, especially those who do not yet have bees.

**Small Hive Beetle (SHB) Management – Hood**

Attendees will receive a copy of my recently published booklet on "Small Hive Beetle Integrated Pest Management." There are many SHB IPM tools currently available to beekeepers which will be discussed during this workshop.

**Swarm Control - Hood**

This presentation will include why honey bees swarm and how beekeepers may prevent and control swarming. This class is great for beginners, especially those who just purchased bees this year.



### **The Challenges of Writing a Bee Book – Sanford**

This presentation will focus on decisions to be made as part of determining what topics to include in a beginning beekeeping book. In addition to this other things have to be determined. The depth of discussions, graphics presented and in the case of Storey's Guide to Keeping Honey Bees <http://apisenterprises.com/storey> what vignettes to include and why.

### **Top Bar Hives – Sterk**

This presentation will discuss top=bar hives as an alternative to traditional Langstroth equipment. Pros and Cons on how this low cost, low impact hive design can be used in the state of Florida and how it is used outside the U.S. This class will also feature building tips and notes on the differences in comb and honey collection.

### **Varroa-Gate: The Long Run from an Innovative Concept to Reality – Niko & Gudrun Koeniger**

Less than a year ago we started the research program "Varroa-Gate". Our concept is clear: we want to develop a device which prevents horizontal infestation of bee colonies by Varroa. In other words a Varroa-Gate must eliminate mites which are carried by bees entering the hive. The breakdown of this general goal to single sub goals and criteria resulted in a cumbersome road map (which has brought us to Gainesville!). We will report first steps, initial results and failures.

### **Welsh Honey Judge Training – Brewer SEPARATE registration required**

Welsh Honey Judge Training is the most stringent training for would-be honey judges in the world. Training for the Welsh Honey Judge Examination will be held on FRIDAY ONLY and requires a separate fee (see registration form). Entry-level students are given the opportunity during the Bee College to complete the *first two* requirements that are required to become a judge: (1) attendance in the Friday afternoon training session, and (2) documented experience as a steward (judge's assistant) of the actual Bee College Honey Show. Please see [www.ufhoneybee.com](http://www.ufhoneybee.com) for more information on Welsh Honey Judging.