

Maryland State Beekeepers' Association Winter Meeting June 13, 2015

Plant Sciences Building Auditorium, University of Maryland/College Park

8:00 am	Refreshments, Coffee, Donuts, etc.	
9:00 am	Opening and Welcome	Toni Burnham, President
9:15 am	Maryland Apiary Inspector's Report	Cybil Preston, Maryland State Apiary Inspector
9:30 am	Born and Bred in MD: Queen Rearing Basics	Dr. Juliana Rangel Texas A&M University
10:30 am	Beekeeping Regions of Maryland: The Tulip Popular Region	Jim Fraser, EAS Master Beekeeper
11:15 am	National and Maryland-Specific Results of the USDA APHIS National Survey	Shayne Madella, University of Maryland
12:00 Noon	Lunch	
1:15 pm	Factors that influence the Reproductive Quality of Queens and Drones	Dr. Juliana Rangel Texas A&M University
2:15 pm	National and Maryland Pesticide Results	Dr. Kirsten Traynor University of Maryland
3:15 pm	Ask Expert Beekeepers Your Anonymous Questions	Panel Discussion
4:00 pm	Adjourn	Dr. Wayne Esaias, President

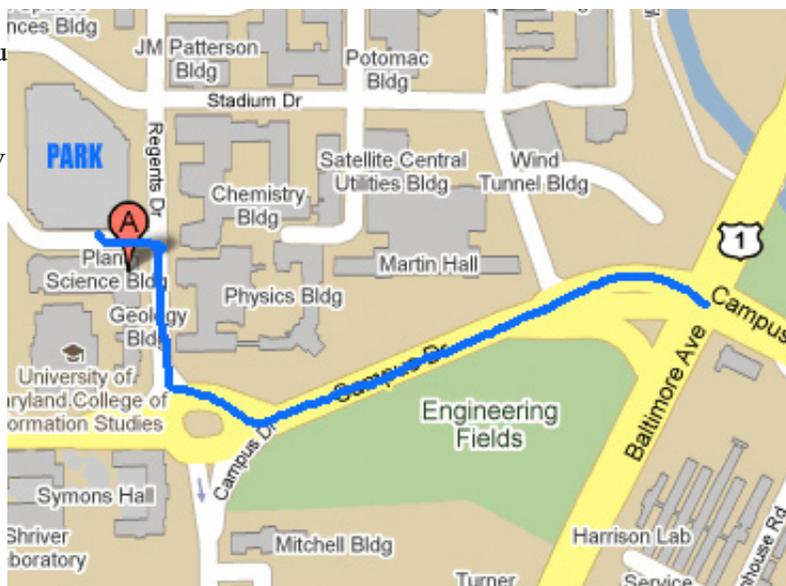
Directions to the University of Maryland

If you are using GPS, please use address 7950 Baltimore Avenue, College Park, MD 20742 and follow directions (below) to Plant Sciences Building. More info at <http://www.cvs.umd.edu/visitors/maps.html>

UMD/College Park is located on U.S. Route 1 south of the Capital Beltway (I-495). Take exit 25B from I-495. Proceed about two miles south, and follow signs to turn right into Main Entrance (at intersection of Campus Drive with Paint Branch Parkway).

Once inside the gate, keep left on Campus Drive until the rotary with the large "ME" logo. Take first exit right. Proceed to first intersection; make a left and then immediate right into Regents Parking Garage. You may park in one of the UNNUMBERED spaces on the 1st floor; parking is free in unnumbered spaces only! The Plant Sciences Building is directly across the street from the Garage Entrance.

The "M" Rotary at UMD/College Park



Spring 2015 Meeting to Feature Dr. Juliana Rangel

MSBA welcomes **Dr. Juliana Rangel** as keynote of our Spring meeting. Since January 2013, Dr. Rangel has served as Assistant Professor of Apiculture in the Department of Entomology at Texas A&M University in College Station, TX. Born in Colombia, South America, Juliana moved with her family to the United States in 1998. She graduated in 2004 from the Ecology, Behavior,



and Evolution Program at the University of California, San Diego, where she worked with Dr. James Nieh on multi-modal communication in stingless honey bees. Also in 2004, she began doctoral studies in the Department of Neurobiology and Behavior at Cornell. Working under Dr. Thomas Seeley, she researched the mechanisms and functional organization of reproductive swarming in *Apis mellifera*. In particular, she led projects that examined the signals that initiate the mass exodus of a honey bee swarm from its nest, the identity of the signalers that initiate swarm departure, the types of agonistic interactions that occur between competing honey bee swarms during their house-hunting process, and the potential for intracolony nepotism during colony fissioning in honey bees. She obtained her Ph. D. in 2009 and in 2010 joined Dr. David R. Tarpay at North Carolina State University as the coordinator of the “Born and Bred in North Carolina: Queen-Rearing and Bee-Breeding Program,” through which she trained over 1,000 beekeepers across several states. In 2010, Juliana was awarded one of 15 National Science Foundation Postdoctoral Fellowships in Biology. As a postdoctoral fellow, Juliana conducted field and laboratory experiments aimed at determining the mechanisms and causes of queen replacement in honey bees, one of the biggest problems facing the beekeeping industry today. Her research program focuses on the biological and environmental factors that influence the reproductive quality of honey bee queens and drones, the health and population genetics of feral honey bees, and the quality and diversity of floral sources collected by honey bees in developed areas across the country. She is also an active member of the Texas Beekeepers Association and has spoken to numerous beekeeping associations in Texas and across the United States and was the 2014 President of the American Association of Professional Apiculturists. As part of her teaching responsibilities, she teaches the undergraduate courses Honey Bee Biology and Introduction to Beekeeping.

She also teaches a graduate-level course on grant writing. She is the co-advisor of the Undergraduate Entomology Student Organization and the coach of Texas A&M University’s undergraduate and graduate teams of the Linnaean Games, a quiz bowl style national competition that tests students on their knowledge of entomology. In her spare time, Juliana likes to play the guitar, sing folk Latin American songs, and cook for friends and family.

Shayne Madella is a Faculty Research Assistant at the University of Maryland as part of the Bee Informed Partnership. She specializes in molecular biology lab work and honey bee disease diagnostics for the APHIS National Honey Bee Survey. Shayne earned her bachelor’s



degree at the University of Maryland in Cell Biology and Molecular Genetics in 2012 and is working on a Master’s degree in Biotechnology with a specialization in Bioinformatics.

Dr. Kirsten S. Traynor is Research Associate, University of Maryland, and Editor of *Bee World*. Kirsten won her first honey bee hive in a raffle and has been fascinated by these social insects ever since. As a German Chancellor Fellow of the



Alexander von Humboldt Foundation in 2006-2007, she was based at the largest German Institute of Bee Research and traveled over 55,000 miles by car to meet with honey bee scientists and bee breeders throughout Western Europe, publishing 50+ articles in bee journals. Upon return, she earned her PhD in honey bee biology with Dr. Robert Page from Arizona State University. Her research focused on how pheromones influence colony dynamics, pollen foraging and honey bee physiology. Dr. Traynor joined Dr. Dennis vanEngelsdorp’s lab as a post-doc in 2014, where she investigates the impacts of disease and pesticides on honey bee health. Recently she was appointed editor of *Bee World*, the International Bee Research Association’s beekeeping magazine. Author of the new book *Simple, Smart Beekeeping*, an illustrated guide that walks you through keeping healthy honey bees and *Two Million Blossoms: Discovering the Medicinal Benefits of Honey*.