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2017 Annual Imported Fire Ant and Other Invasive Ants Conference

Renaissance Mobile Riverview Plaza Hotel

Mobile, AL 36602

May 16-18, 2017



Hosted by:

Auburn University College of Agriculture

and

Alabama Cooperative Extension System



Tuesday, May 16

Notes:

1:00-5:00	Registration	outside Mobile Bay Ballroom
6:00-8:00	Reception	Jubilee Room

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Wednesday, May 17

7:30-5:00	Registration	outside Mobile Bay Ballroom
7:00-8:00	Breakfast Provided	Jubilee Room
8:00-12:00	Meeting/Posters	Mobile Bay Ballroom
12:00-1:30	Lunch Provided	Jubilee Room
1:30-5:00	Meeting/Posters	Mobile Bay Ballroom

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8:00-8:15	Welcome and housekeeping	
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Past, present and future

8:15-9:00	Historical perspective on Clemson’s contribution to fire ant research and Extension. Paul M. (Mac) Horton (retired Director Clemson Sandhill Research and Education Center)	
9:00-9:45	The 3 years of fire ant chemical ecology that turned into 40, and still counting. Robert Vander Meer (USDA-ARS-CMAVE)	
9:45-10:15	Break and posters	
10:15-11:00	Biology of IFA talk. Sanford Porter (USDA-ARS-CMAVE)	
11:00-11:30	History of APHIS IFA quarantine. Anne-Marie Callcott (USDA -APHIS-PPQ)	
11:30-12:00	History of the Annual IFA Research Conference and thoughts for the future. Tim Davis (University of Georgia Extension)	
12:00-1:30	Lunch provided	Jubilee Room

Posters

Fire ant control demonstration at Storybook Farm. **Mallory Kelley** (Alabama Cooperative Extension System) and Fudd Graham (Auburn University)

Evaluation of various insecticides and insecticide combinations as fire ant quarantine treatments on commercial grass sod. **Kelly Loftin** and John Hopkins (University of Arkansas Extension System), and Anne-Marie Callcott (USDA-APHIS-PPQ)

Contact and fumigation toxicities of three isothiocyanate compounds from *Bagrada* Bugs against red imported fire ants and tawny crazy ants. **Yuzhe Du**, Jian Chen and Michael J. Grodowitz (USDA-ARS-NBCL)

Evaluation of bifenthrin for control of tawny crazy ants (*Nylanderia fulva*) in container substrates. **Jeremy Pickens** (Department of Horticulture, Auburn University), L.C. (Fudd) Graham (Department of Entomology and Plant Pathology, Auburn University), Kelly Palmer (Alabama Cooperative Extension System)

An estimation of temperature limits for the tawny crazy ant, *Nylanderia fulva* (Hymenoptera: Formicidae). **David C. Cross** and M.A. Caprio (Mississippi State University)

Comparative water relations and desiccation tolerance of four invasive ant species. **Olufemi Ajayi** (Auburn University), Arthur Appel (AU), Li Chen (Chinese Academy of Sciences), Rammohan Balusu (AU), and Henry Fadamiro (AU)

Relationship of imported fire ant (*Solenopsis* spp.) integument coloration to cuticular hydrocarbon and venom alkaloid indices. **Manoj Pandey** (Tennessee State University), Jason Oliver (TSU), Karla Adesso (TSU), Steven Valles (USDA-ARS-CMAVE), and Anne-Marie Callcott (USDA-APHIS-PPQ)

Presentations

1:30-1:45 Biosecurity and surveillance of ants in Australia. **Antonette Walford** (Department of Agriculture and Water Resources, Australia)

1:45-2:00 Red imported fire ants in Australia: Update. **Robert T. Puckett** (Texas A&M University, Dept. of Entomology, Texas A&M AgriLife Extension)

2:00-2:15 Systems approach to imported fire ant compliance inspection. **Awinash Bhatkar** (Texas Department of Agriculture)

2:15-2:30 Watching ants: How insect behavior impacts protocol. **Gabriela Perezchica-Harvey** and Jennifer A. Henke (Coachella Valley Mosquito and Vector Control District)

2:30-2:45 Imported fire ant worker size as relates to species/hybrid and geographic distribution in Tennessee. **Manoj Pandey** (Tennessee State University), Jason Oliver (TSU), Karla Adesso (TSU), Steven Valles (USDA-ARS-CMAVE), Reginald Archer (TSU), and Anne-Marie Callcott (USDA-APHIS-PPQ)

2:45-3:00 Volatile compounds in the imported fire ants. **Jian Chen** (USDA-ARS-NBCL)

3:00-3:30 Break and posters

3:30-3:50 Fifteen years with the Lago Santa Fe fire ant project. **Paul Nester** (Texas A&M AgriLife Extension Service)

3:50-4:20 State/university/agency updates

4:20-5:00 What's next for this group/meeting/NCUE 2018 and beyond

Dinner on your own.....

Thursday, May 18, 2017

8:30-11:30	Meeting	Mobile Bay Ballroom	10:00-10:20	Getting familiar with invasive ants. Margaret L. Allen (USDA-ARS)
11:30-1:00	Lunch on your own		10:20-10:40	The tawny crazy ant (<i>Nylanderia fulva</i>) at the port of Savannah, Georgia. Ben Gochmour and Dan Suiter (University of Georgia)
1:00-5:00	eXtention Workshop	Mobile Bay Ballroom		
	=====		10:40-10:55	Alleged injury to new born calves in Texas counties attributed to presence of tawny crazy ant. Paul Nester and Robert Puckett (Texas A&M AgriLife Extension Service)
	Presentations			
8:30-8:45	Geographic incidence of <i>Kneallhazia solenopsae</i> and <i>Solenopsis invicta</i> viruses (SINV-1, -2, and -3) in imported fire ant species and their hybrid in Tennessee. Jason Oliver (Tennessee State University), Karla Adesso (TSU), Steven Valles (USDA-ARS-CMAVE), Nadeer Youssef (TSU), Manoj Pandey (TSU), Paul O'Neal (TSU), Joshua Basham (TSU), Joseph Lampley (TSU), Debbie Eskandarnia (TSU), Garrett Roper (TSU), Megan Patton (TSU), Steve Powell (Tennessee Dept of Agriculture), and Anne-Marie Callcott (USDA-APHIS-PPQ)		10:55-11:15	Fire ant data management: Preserving the past and tools for the future. Joseph LaForest (University of Georgia), Rebekah Wallace (University of Georgia), and Kathy Flanders (Auburn University).
			11:15-11:30	Past, present and future of e-Xtension IFA/Pest Ant communities of practice. Kathy Flanders (Auburn University)
			11:30-1:00	Lunch on your own
			1:00-5:00	eXtension workshop
8:45-9:00	Introduction and establishment of fire ant biocontrol agents in the Coachella Valley of California. David Oi (USDA-ARS-CMAVE), Steven Valles (USDA-ARS-CMAVE), Sanford Porter (USDA-ARS-CMAVE), Christopher Cavanaugh (Coachella Valley Mosquito & Vector Control District) and Gregory White (Coachella Valley Mosquito & Vector Control District)			
9:00-9:15	Tropical fire ants and <i>Pseudacteon</i> decapitating flies in Ecuador. Sanford Porter (USDA-ARS-CMAVE), Henri Herrera (Escuela Superior Politécnica de Chimborazo, Ecuador), Robert VanderMeer (USDA-ARS-CMAVE), and Charlotte Causton (Charles Darwin Foundation for the Galapagos Islands, Ecuador)			
9:15-9:30	The USDA-APHIS phorid fly release project: 2001-2017. Anne-Marie Callcott (USDA-APHIS-PPQ)			
9:30-10:00	Break/take down posters			