

AGENDA

ALL MEETINGS IN LOCATION

TUESDAY, MARCH 28

- 1:00 – 5:00 pm **Registration**
- 6:00 – 7:00 pm **Reception** – Poolside
- 7:00 – 8:00 pm **Poster Setup** – State Room B & C

WEDNESDAY, MARCH 29

- 7:00 am – 1:00 pm **Registration**
- 7:00 – 8:00 am **Poster Setup** – State Room B & C
- 7:15 – 8:00 am **Continental Breakfast** – Mezzanine
- 8:00 am **Call To Order** – Crystal Ballroom
- 8:10 – 8:20 am **Welcome** from Doug Rigney, Deputy Commissioner of Agriculture
- 8:20 – 8:30 am **L. C. “Fudd” Graham:** Special Presentation
- 8:30 – 9:30 am **Keynote Address by Dr. David Williams, University of Florida:** A brief history of the red imported fire ant in the U.S

Session: Chemical Control

- Moderator:** **Fudd Graham**
- 9:30 – 9:50 am **H. Dorough, F. Graham, V. Bertagnolli, A. Wiggins, W. Datcher:** Fire ants at Talladega: bringing NASCAR fans back down to earth
- 9:50 – 10:05 am **J. Altom:** Esteem ant bait now labeled for pasture and hay
- 10:05 – 10:35 am 30 Minute Break
- Moderator:** **Henry Dorough**
- 10:35 – 10:55 am **C. Barr, A. Calixto:** Mixing bait and fertilizer: is it ok, yet?
- 10:55 – 11:15 am **T. Birthisel:** Report on 2005 ANDE development activity-Tast-E-Bait and Fertibait for use with insect growth regulators and other active ingredients for imported fire ant control
- 11:15 – 11:30 am **D. Vander Hooven:** TAST-E-Bait, a new improved bait carrier
- 11:30 – 11:45 am **T. Rashid, P. Parkman, J. Oliver, K. Vail:** Mortality response of red, black and hybrid imported fire ants to insecticide treated soil in laboratory bioassays
- 11:45 am – 1:00 pm Lunch (on your own – return by 1:00 pm)
- Moderator:** **Chuck Browne**
- 1:00 – 1:15 pm **R. Hickman, D. Calibeo-Hayes, B. Everson:** Metaflumizone: a new insecticide for imported fire ant bait from BASF

- 1:15 – 1:30 pm **L. Greenberg**, M. Rust, J. Klotz: Metaflumizone trials against RIFA in California using corn chips as an estimate of ant abundance
- 1:30 – 1:50 pm **D. Pollet**: Fire ant management at poultry houses
- 1:50 – 2:10 pm **P. Nester**, W. Thompson, B. Drees: Discussion of 2005 survey of Texas aerial applicators

Session: Behavior & Chemical Ecology

- 2:10 – 2:25 pm **T. Fink**, L. Gui, D. Streett, J. Seiner: Preliminary observations of phorid fly (*Pseudacteon curvatus*) and black imported fire ant interactions with high-speed videography
- 2:25 – 3:15 pm 50 Minute Break (Posters Attended for Discussion) – **Sponsored by Cargill**
- Moderator:** **Stan Roark**
- 3:15 – 3:30 pm **Y. Lin**, H. Chang, C. Lin, H. Ho, W. Wu: Differential cuticular chemical profiles between monogyne and polygyne red imported fire ant (*Solenopsis invicta*) colonies
- 3:30 – 3:45 pm **S. Ochleng**: Imported fire ant repellency and mortality following exposure to Ecotroll EC
- 3:45 – 4:00 pm **R. Renthal**, D. Velasquez, D. Gonzalea, A. Cassill, S. Ballji, G. Sunter: Chemical signaling and fire ant behavior
- 4:00 – 4:15 pm **R. Vander Meer**, C. Preston: The effect of biogenic amines on fire ant conspecific aggression
- 4:15 – 4:30 pm **A. Rao** and S. Vinson: Larval regulation of reproduction in the red imported fire ant
- 4:30 – 4:45 pm **J. Chen**: Chemicals incorporated in nest material by red imported fire ants
- 4:45 – 5:00 pm **M. Wang**, J. Oliver, D. Fare: Fire ant repellents from plant extracts
- 6:30 – 7:30 pm **Reception** – Poolside
- 7:30 – 9:00 pm **Dinner** – Crystal Ballroom

THURSDAY, MARCH 30

- 7:15 – 8:00 am **Continental Breakfast** – Mezzanine
- 8:00 am **General Comments**

Session: Biological Control

- Moderator:** **Micky Eubanks**
- 8:10 – 8:30 am **H. Fadamiro**, L. Chen: The vegetarian side of parasitic phorid flies: use of non-host food by *Pseudacteon tricuspis*
- 8:30 – 8:45 am **D. Oi**, J. Briano: Host specificity and transovarial transmission of *Vairimorpha invictae*
- 8:45 – 9:00 am **S. Porter**, L. Calcaterra, L. Varone, J. Briano: New biocontrol agents from Argentina
- 9:00 – 9:15 am **S. Valles**: *Solenopsis invicta* viruses 1 and 1A: Phenology, geographic distribution, and species specificity
- 9:15 – 9:30 am **S. Vinson**, T. Azizi and K. Snowden: The historical occurrence of *Thelohania solenopsae* in red imported fire ant (*Solenopsis invicta*) colonies in the Brazos valley region of Texas.

Session: Biology & Ecology

- 9:30 – 9:50 am** **M. Eubanks**, L. Cooper, J. Murphy: Fire ants can increase the spread of aphid-vectored plant viruses
- 9:50 – 10:05 am** **D. Henne**, S. Johnson: Characteristics of *Pseudacteon tricuspis* Borgmeier (Diptera: Phoridae) population spread in Louisiana
- 10:05 – 10:35 am** 30 Minute Break
- Moderator:** **Vicky Bertagnolli**
- 10:35 – 10:55 am** **A. Lee**, C. Husseneder, L. Hooper-Bùi: Culture-independent identification of bacteria in fourth-instar red imported fire ant larvae, *Solenopsis invicta* Buren
- 10:55 – 11:10 am** **L. Luo**: The red imported fire ant, *Solenopsis invicta* in mainland China
- 11:10 – 11:30 am** **K. Rice**, M. Eubanks: Effect of fire ants on an old field arthropod community
- 11:30 – 11:45 am** **J. Vogt**, B. Wallet: Modeling thermal dynamics of imported fire ant mounds
- 11:45 am – 1:00 pm** Lunch (on your own – return by 1:00 pm)
- Moderator:** **Chip East**
- 1:00 – 1:15 pm** **B. Wiltz**, L. Hooper-Bùi: Effect of Hurricane Katrina flooding on ants of New Orleans and St. Bernard parishes, Louisiana: Part I
- 1:15 – 1:35 pm** **L. Hooper-Bùi**, B. Wiltz: Effect of Hurricane Katrina flooding on Ants of New Orleans and St. Bernard parishes, Louisiana: Part II
- 1:35 – 1:55 pm** **L. Womack**, L. Hooper-Bùi, M. Chamberlain, B. Moser: Impacts of red imported fire ants (*Solenopsis invicta* Buren) on native faunal communities in two pine-dominated ecosystems
- 1:55 – 2:10 pm** **C. Yang**, C. Shih, W. Wu: Molecular evidence on the origin of red imported fire ant *Solenopsis invicta* in Taiwan

Session: Eradication Efforts

- 2:10 – 2:25 pm** **C. Cassidy**, G. Goedhart, J. Green, M. Hearst, L. Shaw: Residential R.I.F.A. treatments in Orange County, CA
- 2:25 – 2:55 pm** 30 Minute Break
- Moderator:** **Willie Datcher**
- 2:55 – 3:10 pm** **C. McNicol**: Surveillance methodologies used within Australia. Various methods including visual surveillance and extraordinary detections; above ground and in ground lures

Session: Extension / Public Education

- 3:10 – 3:25 pm** **K. Flanders**, B. Drees: eXtension: Taking the sting out of imported fire ants

Session: Regulatory Issues & Quarantine

- 3:25 – 3:40 pm** **R. Wright**, W. Smith, V. Karpakakunjaram: Update on the area-wide fire ant management project in Oklahoma

- 3:40 – 3:55 pm** **J. Haffenden:** Movement controls used to control red imported fire ant in Australia. Various mechanisms utilized including steam machine, crushers, flame thrower machine and mulching processes
- 3:55 – 4:10 pm** **C. Brown** and A. Callcott: A Regulatory Perspective on Fire Ant Research
- 4:10 – 4:25 pm** **A. Bhatkar:** The edging fire ant and the buzzing bees
- 4:25 – 4:40 pm** **K. Loftin, J. Hopkins:** IFA quarantine treatment for commercial sod: Arkansas experiences
- 4:40 – 4:55 pm** **C. Russell:** Pacific Invasive Ant Conference: Hawaii 2007
- 4:55 – 5:10 pm** **Wrap Up** – Next Meeting Site

POSTERS

PRESENTERS PLEASE BE AVAILABLE AT POSTERS ON WEDNESDAY FROM 2:25 – 3:25 PM

1. Ant Conference Hawaii. **C. Russell**

Session: Behavior & Chemical Ecology

2. Acoustic and high-speed videographic analysis of flying imported fire ants. **L. Gui, C. Talmadge, R. Hasse, T. Fink, Z. Cao, Y. Wang, J. Seiner, D. Streett, A. Pranschke**
3. Stridulation behavior in *Solenopsis invicta* and *S. richteri*. **J. Marquess, J. Anderson**

Session: Biological Control

4. Arkansas' first *Pseudacteon curvatus* release. **J. Clemons, A. Simpson, J. Hopkins, K. Loftin**
5. Distribution patterns of *Thelohania solenopsae* in the RIFA populations of southeastern Oklahoma: Implications. **V. Karpakakunjaram, A. Chan, R. Wright**
6. Expansion of *Pseudacteon tricuspis* in Arkansas. **M. McCarter, D. Petty, G. Gavin, R. Herring, J. Clemons, R. Dollar, J. Hopkins, K. Loftin**
7. Host location behavior of *Pseudacteon curvatus* (Diptera: Phoridae) in mono- and polygyne fire ant colonies (Hymenoptera: Formicidae). **V. Bertagnolli, F. Graham**
8. *Pseudacteon* spp. (Diptera: Phoridae) range expansion in Alabama. **F. Graham, V. Bertagnolli, K. Ward, R. Ward**
9. The effects of food supplement on lifespan and nutrient metabolism in the parasitic phorid fly, *Pseudacteon tricuspis*. **L. Chen, H. Fadamiro**
10. Update on USDA, APHIS phorid fly releases and monitoring efforts. **R. Weeks, A. Callcott**
11. Compensatory foraging strategy of red imported fire ant (*Solenopsis invicta*) colonies after exposure to introduced dipteran parasitoids (*Pseudacteon tricuspis*). **R. Puckett, M. Harris, C. Barr**

Session: Biology & Ecology

12. Cloning, sequencing, and expression of arginine kinase gene from the fire ant, *Solenopsis invicta* (B.). **N. Liu, H. Wang**
13. Diel and seasonal phenology and spatial dynamics of *Pseudacteon tricuspis* Borgmeier (Diptera: Phoridae) in Louisiana. **D. Henne, S. Johnson**
14. Making wax casts of imported fire ant mounds. **D. Petty, K. Loftin, J. Hopkins**
15. Phylogeography of the fire ant *Solenopsis invicta*. **M. Ahrens, D. Shoemaker**

16. Survey of red imported fire ant populations in north central Mississippi. **D. Streett**, M. Allen, A. Pranschke
17. The distribution of imported fire ants (Formicidae: *Solenopsis* spp.) in Christmas tree plantations across Mississippi. **S. Self**
18. The distribution of imported fire ants (*Solenopsis* spp.) and their potential foraging competitors in relation to local conditions and interspecific competition in Mississippi forests. **T. Menzel**, T. Nebeker
19. Identification of the gene(s) involved in the early events concerning flight muscle degeneration in the Red Imported Fire Ant (*Solenopsis invicta*). **T. Azizi**, S. B. Vinson

Session: Chemical Control

20. Entomological, economical and philosophical considerations concerning automated detection and treatment of fire ant colonies. **J. Reed**, F. To, D. Smith
21. Evaluation of BAS 3201 bait and drench applications for the control of imported fire ants. **W. Hudson**, S. Diffie
22. Evaluation of homeowner formulations of indoxacarb, hydramethylnon, pyriproxyfen and fipronil against imported fire ants. **J. Hopkins**, D. Petty, K. Loftin
23. Evaluation of hydramethylnon bait and various contact insecticides as individual mound treatments against imported fire ants. **J. Gavin**, K. Loftin, J. Hopkins, D. Shanklin
24. Fire ant management at poultry houses. **D. Pollet**
25. Using population index and foraging activity to evaluate broadcast applications of baits and granular insecticides for imported fire ants. **T. Rashid**, P. Parkman, J. Oliver, K. Vail

Session: Regulatory Issues & Quarantine

26. Bifenthrin and chlorpyrifos in reduced radius band treatments for in-field application on nursery plants. **S. James**, L. McAnally, A. Callcott

Session: USDA-ARS Area-Wide Suppression Project

27. Area-wide suppression of fire ants: demonstration project in Mississippi, 2005. **D. Streett**, A. Pranschke, J. Vogt, J. Reed, A. Callcott

Session: Extension / Public Education

28. The pest ants of Louisiana: a guide to their identification, biology and control. **S. Dash**, L. Hooper-Bùi, M. Seymour, L. Womack, B. Corns
29. Public Education - Fire Ant City a teaching tool. **P. Beckley**