

2016

**National Conference on
Urban Entomology
and
Invasive Fire Ant
Conference**



May 22-25

Albuquerque, New Mexico

ncue.tamu.edu



[groups/ncue16](https://www.facebook.com/groups/ncue16)

[#ncue16](https://www.facebook.com/ncue16)

NCUE/IFA schedule at a glance

Refer to daily details for session locations.

SUNDAY, MAY 22

6:00-8:00 **Welcome reception**

MONDAY, MAY 23

6:30-8:00 Breakfast (included with hotel registration)

8:00-9:15 **PLENARY SESSION**

9:15-9:45 **STUDENT SCHOLARSHIP AWARD PAPERS**

9:45-10:15 **BREAK**

10:15-11:30 **STUDENT PAPER COMPETITION**

11:30-1:00 Lunch on your own

1:00-2:15 **SUBMITTED PAPERS ANTS I (Misc. Ant Talks)**

2:15-2:45 **BREAK**

2:45-4:45 **SYMPOSIUM** Pest Prevention & Learnings

SUBMITTED PAPERS ANTS II (RIFA)

4:45 Dinner & evening on your own

TUESDAY, MAY 24

6:30-8:00 Breakfast (included with hotel registration)

8:00-10:00 Concurrent sessions:

SYMPOSIUM Invasive Ant Management I

SYMPOSIUM IPM Outreach

SYMPOSIUM Indoor Biomes

10:00-10:15 **BREAK**

10:15-12:15 Concurrent sessions:

SYMPOSIUM Invasive Ant Management II

SYMPOSIUM Gaps & Challenges in Urban Entomology

12:15-1:45 **AWARDS LUNCHEON**

1:45-3:30 Concurrent sessions:

SUBMITTED PAPERS Ants III (RIFA)

SYMPOSIUM Urban Rodent Control

SUBMITTED PAPERS Additional Topics

2:45-3:30 **Zika Virus Panel Discussion**

3:30-3:45 **BREAK**

3:45-5:45 Concurrent sessions:

SYMPOSIUM Mosquito Barrier Treatments

SUBMITTED PAPERS TERMITES

4:00-5:45 **Fire Ant eXtension Meeting**

6:00 Shuttles begin departing for Albuquerque Museum

6:30-8:30 **Evening at the Albuquerque Museum**

WEDNESDAY, MAY 25

6:30-8:00 Breakfast (included with hotel registration)

8:00-10:00 Concurrent sessions:

SYMPOSIUM Future of Urban Entomology

SUBMITTED PAPERS Bed Bugs

10:00-10:30 **BREAK**

10:30-11:30 **FINAL BUSINESS MEETING**

11:30-12:00 **EXECUTIVE COMMITTEE BUSINESS MEETING**

Registration and paper upload hours:

Sun 2:30-5

Mon & Tues 7:00-5:00

Wed 7:00-10:00

*Please be courteous and upload your talk at least one session prior to when you are speaking.

SUNDAY, MAY 22

- 6:00-8:00 Welcome reception (free hors d'oeuvres)
La Ventana (Sponsored by **ORKIN**)

MONDAY, MAY 23

- 6:30-7:45 **Breakfast** (included with hotel registration)

AWARDS PRESENTATIONS – Sandia V-VIII

- 8:00-8:15 Opening Remarks
8:15-9:15 **Distinguished Achievement in Urban Entomology**
The Arnold Mallis Memorial Award Lecture
Trailing with the ants
JOHN KLOTZ
UC RIVERSIDE
- 9:15-9:30 **Masters of Science Award**
Identification of botanically-derived repellents for
Turkestan cockroaches using a video tracking system
SUDIP GAIRE
NEW MEXICO STATE UNIVERSITY
- 9:30-9:45 **Doctoral Award**
Orientation of bed bugs to thermal cues
ZACHARY DEVRIES, Russell Mick, Coby Schal
NORTH CAROLINA STATE UNIVERSITY

- 9:45-10:15 **BREAK**

STUDENT PAPER COMPETITION

Sandia V-VIII

- Moderator: Grzesiek Buczkowski, Purdue University*
- 10:15-10:27 Short-range responses of the kissing bug *Triatoma rubida* (Hemiptera: Reduviidae) to heat, moisture, and carbon dioxide
ANDRES INDACOCHEA, Alvaro Romero
NEW MEXICO STATE UNIVERSITY
- 10:27-10:39 Colony Structure of *Reticulitermes* (Isoptera: Rhinotermitidae) in northwest Arkansas
MARK A. JANOWIECKI, Amber D. Tripodi, Allen L. Szalanski, Edward L. Vargo
TEXAS A&M UNIVERSITY, USDA-ARS, University of Arkansas
- 10:39-11:51 Variation in chlorfenapyr and bifenthrin susceptibility of bed bug (*Cimex lectularius* L.) field populations
AARON R. ASHBROOK, Mike E. Scharf, Gary W. Bennett, Ameya D. Gondhalekar
PURDUE UNIVERSITY
- 11:51-11:03 Toxicity of essential oils on the Turkestan cockroach, *Blatta lateralis* (Blattodea: Blattidae)
SUDIP GAIRE, Alvaro Romero, Mary O'Connell, F. Omar Holguin
NEW MEXICO STATE UNIVERSITY
- 11:03-11:15 Sublethal effects of a combination product on bed bug (*Cimex lectularius* L.) behavior and implications for management
SYDNEY E. CRAWLEY, K.A. Knowles, J.R. Gordon, M.F. Potter, K.F. Haynes
UNIVERSITY OF KENTUCKY
- 11:15-11:27 Effects of the tawny crazy ant (*Nylanderia fulva*) on the ant community at the Port of Savannah, Georgia
BEN GOCHNOUR, Dan Suiter
UNIVERSITY OF GEORGIA

- 11:30-1:00 **Lunch on your own**
- 1:00-2:15 **SUBMITTED PAPERS ANTS I (General)**
Sandia V-VIII
Moderator: Laurel Hansen, Spokane Falls Community College
- 1:00-1:15 Distribution, identification, impact, and management of the dark rover ant, *Brachymyrmex patagonicus* (Hymenoptera: Formicidae)
ROBERT DAVIS, Chris Keefer, Janis Reed, Phillip Schults, Edward L. Vargo
BASF PROFESSIONAL & SPECIALTY SOLUTIONS, Texas A&M University
- 1:15-1:30 Survey of ants with emphasis on exotic ant species in the Pacific Northwest
LARUEL D. HANSEN
SPOKANE FALLS COMMUNITY COLLEGE
- 1:30-1:45 You shall not pass!: How we protect New Zealand's borders from invasive ants
PAUL CRADDOCK, Viv Van Dyk, Brett Rawnsley
FBA CONSULTING
- 1:45-2:00 Status of tawny crazy ants in Alabama
FUDD GRAHAM, Jeremy Pickens
AUBURN UNIVERSITY
- 2:00-2:15 Updates on the venom chemical composition in the little black ant, *Monomorium minimum* (Hymenoptera: Formicidae)
JIAN CHEN, Charles L. Cantrell, David Oi, Michael J. Grodowitz
USDA-ARS
- 2:15-2:45 **BREAK (sponsored by Syngenta Crop Protection)**
- 2:45-4:45 **Concurrent sessions**
SYMPOSIUM
Pest Prevention: What We've Learned Over the Past Decade to Make Buildings Safer
Sandia IV
Organizer/Moderator: Janet Hurley, Texas A&M Extension
LOCATION
- 2:45-3:05 The Scientific Coalition of Pest Exclusion (SCOPE 2020) – what it is and how it can help you when you work with building administrators
JODY GANGLOFF-KAUFMANN
NEW YORK STATE IPM PROGRAM
- 3:05-3:25 Excluding the diabolically clever Norway rat, *Rattus norvegicus*, from buildings; Lessons learned from the Big Apple
BOBBY CORRIGAN
RMC PEST MANAGEMENT CONSULTING
- 3:25-3:45 What you need to know about pest prevention and LEED green building certifications
CHRIS GEIGER
SAN FRANCISCO DEPT OF THE ENVIRONMENT
- 3:45-4:05 Pest exclusion using physical barriers: A sustainable future for new and existing structures
CASSIE KREJCI, T. Roger Gold, Chris Keefer
POLYGUARD, Texas A&M University, Syngenta Crop Protection

- 4:05-4:25 Modeling for pest risk in and around school buildings, how the IPM Calculator can help you prevent and solve tough pest problems
JANET HURLEY, Blake K. Bennett, Michael E. Merchant
TEXAS A&M AGRILIFE EXTENSION SERVICE
- 4:25-4:45 Pest exclusion: What are the top strategies that work the best for most buildings
STEPHEN KELLS
UNIVERSITY OF MINNESOTA

SUBMITTED PAPERS ANTS II (RIFA)

Sandia V

- Moderator: Paul Nester, Texas A&M Agrilife Extension*
- 2:45-3:00 So you think you know what ant species you are working with – a fire ant case study
ROBERT K. VANDER MEER, Sanford D. Porter
USDA-ARS CMAVE
- 3:00-3:15 Updates to the Federal Imported Fire Ant Quarantine
RICHARD JOHNSON, Ron D. Weeks, Anne-Marie Callcott
USDA-APHIS-PPQ-PM, -FO, -S&T
- 3:15-3:30 Potential IFA quarantine treatments for field-grown/balled-and-burlapped nursery stock
ANNE-MARIE CALLCOTT, Jason Oliver, David Oi, Nadeer Youssef, Karla Adesso
USDA-APHIS-PPQ-S&T, Tennessee State University, USDA-ARS-CMAVE
- 3:30-3:45 Imported fire ants in the plant industry
AWINASH BHATKAR
TEXAS DEPARTMENT OF AGRICULTURE
USDA-APHIS-PPQ-PM, -FP, -S&T
- 3:45-4:00 Evaluation of various insecticide combinations as fire ant quarantine treatments on commercial grass sod
KELLY M. LOFTIN, John D. Hopkins, Anne-Marie Calcott
UNIVERSITY OF ARKANSAS, USDA-APHIS
- 4:00-4:15 Incorporating other pest ants into Fire Ant eXtension
KATHY L. FLANDERS, Paul R. Nester, Robert P. Puckett
AUBURN UNIVERSITY, Texas A&M Agrilife Extension Service
- 4:15-4:30 Red imported fire ant management efforts in Corpus Christi Independent School District – avoiding tragedy
PAUL R. NESTER, Janet A. Hurley, Brett Bostian, Hector Hernandez, Walter “Buster” Terry
Texas A&M Agrilife Extension Service, Corpus Christi Independent School District
- 4:30-4:45 Effect of cattle feed-through horn fly control mineral containing (S)-methoprene on IFA in pastures
HENRY DOROUGH, Fudd Graham, Landon Marks
ALABAMA COOPERATIVE EXTENSION SYSTEM, Auburn University

Dinner & evening on your own

TUESDAY, MAY 24

6:30-8:00 **Breakfast** (included with hotel registration)

8:00-10:00 **Concurrent sessions**

SYMPOSIUM

Sandia V

Advances in Invasive Ant Management I

Organizers/Moderators: David Oi & Sanford Porter, USDA-ARS

8:00-8:15 When imported fire ants are found outside the federally quarantined area

ANNE-MARIE CALLCOTT, Richard Johnson, Ron Weeks

USDA, APHIS PPQ-PM, -FO

8:15-8:30

Development of a lateral flow immunoassay for rapid field detection of the red imported fire ant, *Solenopsis invicta*

STEVEN VALLES

USDA-ARS CMAVE

8:30-8:45

Fire ant biological control: *Pseudacteon* decapitating flies and other natural enemies

SANFORD PORTER

USDA-ARS CMAVE

8:45-9:00

Red imported fire ant eradication efforts in Taiwan
RONG-NAN HUANG, Nancy Huei-Ying Lee, Chin-Cheng Yang, Cheng-Jen Shih, Wen-Jer Wu
NATIONAL TAIWAN UNIVERSITY, Chung-His Chemical Plant

9:00-9:15

Australia's battle with fire ants – we can't afford to lose

SARAH CORCORAN

BIOSECURITY QUEENSLAND CONTROL CENTRE

9:15-9:30

Bait development for tawny crazy ants

DAVID OI

USCA-ARS CMAVE

9:30-9:45

Tawny crazy ant (*Nylandaria fulva* Mayr) IPM in urban environments

ROBERT PUCKETT

Texas A&M UNIVERSITY

9:45-10:00

Strategies to manage the European fire ant

ELLIE GRODEN

UNIVERSITY OF MAINE

SYMPOSIUM

Sandia I-III

IPM Outreach in Urban Settings

Organizers/Moderators: Brittany Hanson & Kaci Buhl, Oregon State University National Pesticide Information Center

8:00-8:20

Cockroaches, bed bugs, and mice, oh, my! Lessons from urban IPM

DION LERMAN

PENN STATE UNIVERSITY

8:20-8:40

Hire us, then help us: Challenges and successes for IPM services offered by pest control companies

ALLISON TAISEY

NATIONAL PEST MANAGEMENT ASSOCIATION

8:40-9:00

A toolbox of outreach methods from the National Pesticide Information Center: Wins & losses

KACI BUHL

OREGON STATE UNIVERSITY

- 9:00-9:20 Promoting conservation of beneficials: Strengths & gaps in resources
BRITTANY HANSON
OREGON STATE UNIVERSITY
- 9:20-9:40 Efforts in endemic and invasive pest outreach for urban & community audiences in California
KAREY WINDBIEL-ROJAS
UC Statewide IPM Program
- 9:40-10:00 Creating a searchable toolbox for school IPM – introducing iSchoolPestManager and Stop School Pests
JANET HURLEY
TEXAS A&M AGRILIFE EXTENSION SERVICE

SYMPOSIUM

Sandia IV

Indoor Biomes

Organizers/Moderators: Vernard Lewis & Brian Forschler, UC Berkeley, University of Georgia

- 8:00-8:10 Introduction
- 8:10-8:30 Fungus among us: The diversity of microbes in homes
RACHEL ADAMS
UNIVERSITY OF CALIFORNIA, BERKELEY
- 8:30-8:50 Arthropods of our homes
MISHA LEONG, Matt Bertone, Keith Bayless, Robert Dunn, Michelle Trautwein
CALIFORNIA ACADEMY OF SCIENCES, North Carolina State University
- 8:50-9:10 Gut bacteria mediate aggregation in the German cockroach
COBY SHAL, Madhavi Kakumanu, Ayako Wada-Katsumata
NORTH CAROLINA STATE UNIVERSITY
- 9:10-9:30 Systematically altering pest habitat in the built environment: Application of the Pest Prevention by Design guidelines to low-income housing rehabilitation
CHRIS GEIGER
SAN FRANCISCO DEPARTMENT OF THE ENVIRONMENT
- 9:30-9:50 The California experience: Limiting water quality impacts linked to management of pests of the indoor biome
DAVE TAMAYO
CALIFORNIA STRUCTURAL PEST CONTROL BOARD

10:00-10:15 **BREAK**

10:15-12:15 **Concurrent sessions**

SYMPOSIUM

Advances in Invasive Ant Management II

Sandia V

Organizers/Moderators: David Oi & Sanford Porter, USDA-ARS

- 10:15-10:30 Lessons learned from past and current research on odorous house ant management
KAREN VAIL
UNIVERSITY OF TENNESSEE
- 10:30-10:45 Pheromone-assisted techniques to improve Argentine ant management in urban settings
DONG HWAN CHOE

- UNIVERSITY OF CALIFORNIA, RIVERSIDE
- 10:45-11:00 Comparative genetic and ecological studies of the Asian needle ant, *Brachyponera chinensis*, in native and introduced ranges
EDWARD L. VARGO
TEXAS A&M UNIVERSITY
- 11:00-11:15 The Trojan horse approach for managing invasive ants: A study with Asian needle ants
GRZESIEK BUCZKOWSKI
PURDUE UNIVERSITY
- 11:15-11:30 A new challenge – control of arboreal little fire ants in Hawaii
CASPER VANDERWOUDE
HAWAI'I ANT LAB
- 11:30-11:45 Electric ants in Australia – is this the end?
SARAH CORCORAN
BIOSECURITY QUEENSLAND CONTROL CENTRE

SYMPOSIUM

Sandia I-III

Gaps & Challenges: R&D, Academia, and Field Application of Control Strategies

Organizers/Moderators: Zia Siddiqi, Pat Copps, Ron Harrison, Rollins

- 10:15-10:35 Challenges in the field: The practical implications of implementing new protocols
PAT COPPS
ORKIN PEST CONTROL
- 10:35-10:55 The conundrum of meaningful action thresholds (ATs) in urban entomology
BRIAN T. FORSCHLER
UNIVERSITY OF GEORGIA
- 10:55-11:15 The Pest Management Foundation grant proposal review process and determining the 'applicability' of proposed research
JIM FREDERICKS
NATIONAL PEST MANAGEMENT ASSOCIATION/
PEST MANAGEMENT FOUNDATION
- 11:15-11:35 Reduced-risk pest management challenges: IHandcuffed by hazard tiers?
TIMOTHY J. HUSEN
TECHNICAL SERVICES, ROLLINS, INC.
- 11:35-11:55 Bed bugs demonstration project – From the lab to the bedroom: Translating research-based bed bug management strategies to low-income apartment buildings
ANDREW SUTHERLAND
UCCE/UC IPM
- 11:55-12:15 Customer expectations: From designing an IPM program to resolving pest issues with the available tools and technology
ZIA SIDDIQI
ROLLINS, INC.
- 12:15-1:45 **AWARDS LUNCHEON** (Meal sponsored by **BAYER ENVIRONMENTAL SCIENCES**)
Embassy Suites Atrium

1:45-3:30 **Concurrent sessions**

SYMPOSIUM

Urban Rodent Control

Sandia I-III

Organizer/Moderator: Bobby Corrigan, RMP Pest Management Consulting

1:45-2:05 The state of the union on rats and American cities
BOBBY CORRIGAN

RMC PEST MANAGEMENT CONSULTING

2:05-2:25 An integrated approach to commensal rodent
management in New Orleans, LA

CLAUDIA RIEGEL

CITY OF NEW ORLEANS MOSQUITO & TERMITE
CONTROL BOARD

2:25-2:40 Managing pocket gophers under the Healthy Schools
Act of California

ASHLEY REEMAN

CALIFORNIA EPA DEPT OF PESTICIDE
REGULATIONS

2:40-2:55 Harboring secrets: Ectoparasites of Norway rats in New
York City

MATT FRYE

NEW YORK STATE IPM PROGRAM

2:55-3:10 Field evaluation of two second-generation
anticoagulant rodenticides (SGARs) against the house
mouse (*Mus musculus domesticus*) in a confined swine
facility

ELRAY M. ROPER, Grzesiek Buczkowski, Steve
Sanborn

SYNGENTA, Purdue University

3:10-3:25 Field efficacy of a new global rodenticide bait
formulation

KYLE K. JORDAN, Sharon Hughes, Euan Bates,
Thorsten Storck

BASF PROFESSIONAL & SPECIALTY SOLUTIONS

SUBMITTED PAPERS ANTS III (RIFA)

Sandia V

Moderator: Kathy Flanders, Alabama Extension

1:45-2:00 Control of red imported fire ants in Alabama
LUCY EDWARDS, James D. Jones, Fudd Graham,
Reafield Vester

ALABAMA COOPERATIVE EXTENSION SYSTEM,
Auburn University

2:00-2:15 The impact of red imported fire ants (*Solenopsis invicta*
Buren) on upland arthropods in eastern India

C.R. SATPATHI

BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

2:15-2:30 Red imported fire ant survey yields eight new Texas
county records

DANNY MCDONALD, Jerry Cook

SAM HOUSTON STATE UNIVERSITY

2:30-2:45 Update on the Alabama Herd Seeder Program

KATHY FLANDERS, Henry Dorough, Fudd Graham

ALABAMA COOPERATIVE EXTENSION SYSTEM,
Auburn University

2:45-3:00 An overview of residential neighborhood treatments of
red imported fire ants in Orange County, CA

CYNTHIA ROSS

ORANGE COUNTY MOSQUITO AND VECTOR
CONTROL DISTRICT

3:00-3:15 Watching ants: How insect behavior impacts protocols
ROBERTA DIECKMANN, Gabriela Perezchica-Harvey,
Jennifer Henke
COACHELLA VALLEY MOSQUITO AND VECTOR
CONTROL DISTRICT

SUBMITTED PAPERS ADDITIONAL TOPICS

Sandia IV

Moderator: Barry Furman, BASF Professional & Specialty Solutions

- 1:45-2:00 Clemson Extension Commercial Pesticide Applicator
Licensing Prep Course
VICKY BERTAGNOLLI, Tim Davis
CLEMSON UNIVERSITY COOPERATIVE
EXTENSION
- 2:00-2:15 The confusing case of chlorfenapyr: The challenges of
testing Phantom®
JASON MEYERS, James Austin, Bob Davis, Barry
Furman, Bob Hickman, Kyle Jordan, Freder Medina
BASF PROFESSIONAL & SPECIALTY SOLUTIONS
- 2:15-2:30 Cross resistance between hydramethylnon and
indoxacarb in German cockroaches (*Blattella
germanica*)
ALEX KO, Coby Schal, Jules Silverman
NORTH CAROLINA STATE UNIVERSITY
- 2:30-2:45 Mosquitoes of New York City
WAHEED BAJWA, Nareeza Sakur, Zahir Shah, Liyang
Zhou, Maddie Perlman-Gabel
NEW YORK CITY DEPARTMENT OF HEALTH AND
MENTAL HYGIENE
- 2:45-3:30 **Zika Virus Panel Discussion** – Sandia IV
Organizer/Moderator: James Austin, BASF
Professional & Specialty Solutions
James Austin, Brian Forschler, Claudia Riegel,
Roxanne Connelly,
BASF P&SS, University of Georgia, New Orleans
Mosquito & Termite Control Board, University of
Florida,
- 3:30-3:45 **BREAK**
- 4:00-5:45 **FIRE ANT eXtension MEETING** – Sandia V
- 3:45-5:45 **Concurrent sessions**
- SYMPOSIUM**
**Barrier Applications for Mosquito Management in
Residential Settings**
Sandia I-III
- Organizers/Moderators: Nicky Gallagher & Clay Scherer,
Syngenta Crop Protection*
- 3:45-3:55 Introduction
- 3:55-4:10 Backyard versus community-wide mosquito service
RON HARRISON
ROLLINS/ORKIN TECHNICAL SERVICES
- 4:10-4:25 New developments in backyard mosquito control and
their relation to mosquito-borne disease
GRAYSON C. BROWN, A. Glenn Skiles, Kyndall C.
Dye
UNIVERSITY OF KENTUCKY

- 4:25-4:40 Comparing public vector management and private mosquito control service: Is this a competition?
JOE BARILE
BAYER ENVIRONMENTAL SCIENCE
- 4:40-4:55 Evaluation of barrier applications of Demand® CS and Archer® IGR for control of container mosquitoes in Indian River County, FL
C. ROXANNE CONNELLY, Carol Thomas, Wayne Thomas, Tim Hope, Gregg Ross
UNIVERSITY OF FLORIDA
- 4:55-5:10 Residual effectiveness of Demand® CS on *Aedes albopictus* in Virginia
NICOLA T. GALLAGHER, Benjamin McMillan, Jake Bova, Carlyle Brewster, Sally L. Paulson
SYNGENTA CROP PROTECTION, Virginia Tech
- 5:10-5:25 Mosquito work doesn't bite!
RICK BELL
ARROW EXTERMINATORS
- 5:25-5:40 The use of backyard treatments by mosquito control districts for routine and targeted mosquito control
CLAUDIA RIEGEL, E.R. Cloherty, B.H. Carter, S.R. Michaels, C.W. Scherer
CITY OF NEW ORLEANS MOSQUITO & TERMITE CONTROL BOARD, Syngenta Crop Protection
- 5:40-5:45 Closing remarks & questions

SUBMITTED PAPERS TERMITES

Sandia IV

- 3:45-4:00 Moderator: Susan Jones, The Ohio State University
Field trials with *Coptotermes formosanus* Shiraki in New Orleans: Performance of Recruit® AG FlexPack and determination of colony foraging distance
JOE DEMARK, Barry Yokum, Neil Spomer
DOW AGROSCIENCES, City of New Orleans Mosquito & Termite Control Board
- 4:00-4:15 Evaluation of proprietary and generic termiticides in laboratory studies with *Reticulitermes flavipes* and *Coptotermes formosanus* subterranean termites
ROGER E. GOLD, Philip Shults, Ron Harrison
TEXAS A&M UNIVERSITY, Rollins/Orkin Technical Services
- 4:15-4:30 Controlling Termite infestations in wall voids
X.P. HU, Meng Chen, Jordon Yuan
AUBURN UNIVERSITY
- 4:30-4:45 A multi-state study to assess the efficacy of Altriset® termiticide in controlling *Reticulitermes flavipes* in infested structures
SUSAN C. JONES, Edward L. Vargo, Paul Labadie, Chris Keefer, Roger E. Gold, Clay W. Scherer, Nicola T. Gallagher
THE OHIO STATE UNIVERSITY, Texas A&M University, North Carolina State University, Syngenta Crop Protection
- 4:45-5:00 High Precision Termite Control
FREDER MEDINA, Kenneth S. Brown, Jeff D. Vannoy, Bob Davis, Bob Hickman, Kyle Jordan, Jason Meyers, Matt Spears, Judy Fersch, Amy Dugger-Ronyak, Anil Menon, Richard Warriner, Jim Cink, John Paddock, Joe Schuh
BASF PROFESSIONAL & SPECIALTY SOLUTIONS, DryJect Inc.

6:00 Shuttles begin departing for Albuquerque Museum
6:15-8:00 **Evening at the Albuquerque Museum** (Sponsored by
BASF Professional & Specialty Solutions)

WEDNESDAY, MAY 25

6:30-8:00 **Breakfast** (included with hotel registration)

8:00-10:00 **Concurrent sessions**

SYMPOSIUM

The Future of Urban Entomology

Sandia IV

Organizer/Moderator: Shripat Kamble, University of Nebraska

8:00-8:10 Introduction

SHRIPAT KAMBLE

UNIVERSITY OF NEBRASKA

8:10-8:30 Past, present, and future of urban entomology

ROGER E. GOLD

TEXAS A&M UNIVERSITY

8:30-8:50 Impact of department mergers and university downsizing on urban entomology

PATRICIA ZUNGOLI, Eric Benson

CLEMSON UNIVERSITY

8:50-9:10 Funding resources – urban entomology

COBY SCHAL

NORTH CAROLINA STATE UNIVERSITY

9:10-9:30 Molecular research in urban entomology

EWARD L. VARGO

TEXAS A&M UNIVERSITY

9:30-9:50 Industry perspectives on the future of urban entomology

JOSEPH SCHUH, Robert Davis

BASF PROFESSIONAL & SPECIALTY SOLUTIONS

9:50-10:00 Closing remarks and questions

SUBMITTED PAPERS BED BUGS

Sandia V

Moderator: Jason Meyers, BASF Professional & Specialty Solutions

8:00-8:15 Field evaluations of bed bug interceptor traps in homeless shelters

MICHAEL MERCHANT, Jonathan Garcia, Elizabeth Brown, Molly Keck, Paul Nester

TEXAS A&M AGRILIFE EXTENSION SERVICE

8:15-8:30 Evaluating the efficacy of hand-held and backpack vacuums as bed bug management tools

DINI M. MILLER, Molly L. Stedfast, Katlyn L. Amos

VIRGINIA TECH

8:30-8:45 Insecticide resistance bioassays for bed bugs: A review of methodologies

ALVARO ROMERO

NEW MEXICO STATE UNIVERSITY

8:45-9:00 Laboratory assays to determine the efficacy of several commercially available insecticide products for bed bug control

KATLYN L. AMOS, Dini M. Miller, Molly L. Stedfast

VIRGINIA TECH

9:00-9:15 Evaluating encasements: Are all created equal?

MOLLY L. STEDFAST, Katlyn L. Amos, Dini M. Miller

VIRGINIA TECH

10:00-10:30 **BREAK/CHECK OUT**

10:30-11:30 **FINAL BUSINESS MEETING** - Sandia V

11:30-12:00 **EXECUTIVE COMMITTEE BUSINESS MEETING**

NOTES/AUTOGRAPHS/STICKER COLLECTION:

Past Recipients of the Distinguished Achievement Award in Urban Entomology

1986	Walter Ebeling, James Grayson
1988	John V. Osmun, Eugene Wood
1990	Francis W. Leichleitner
1992	Charles G. Wright
1994	Roger D. Akre, Harry B. Moore, Mary H. Ross
1996	Donald G. Cochran
1998	Gary H. Bennett
2000	Michael K. Rust
2004	Roger E. Gold
2006	Coby Schal
2008	Nan-Yao Su
2010	Don Reiersen
2012	Shripat Kamble
2014	Jules Silverman

Past Conference Chairs

1986	Patricia A. Zungoli
1988	William H. Robinson
1990	Michael K. Rust
1992	Gary W. Bennett
1994	Roger E. Gold, Judy K. Bertholf
1996	Donald A. Reiersen
1998	Brian T. Forschler, Shripat Kamble
2000	Shripat Kamble
2004	Daniel R. Suiter
2006	Dini Miller, Robert Kopanic
2008	Richard Houseman, Bob Cartwright
2010	Karen Vail
2012	Faith Oi
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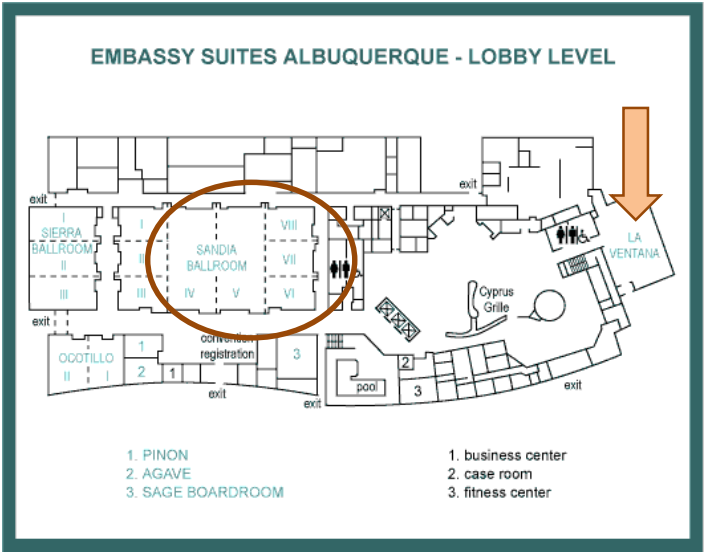
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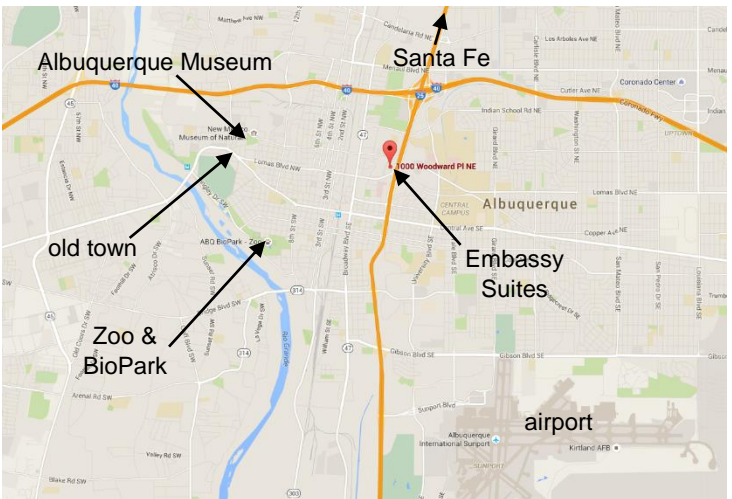
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