

20th Annual 2012 Nebraska



Web Site: <http://entomology.unl.edu/upmprogram2012.pdf>
Registration Form: <http://entomology.unl.edu/upmregistration2012.pdf>

February 14-15, 2012

**The Cornhusker - Marriott Hotel
333 South 13th Street, Lincoln, NE 68508**

Sponsored by:

University of Nebraska-Lincoln Extension
and
Nebraska State Pest Control Association



In Cooperation With:

Nebraska Department of Agriculture

Conference for Pest Management Professionals in:

**Pest Control
Food Service
Building Maintenance
Sanitation
Wildlife Damage Control**

**Grain Storage
Child/Nursing Care
Public Health
Real Estate
Grounds Maintenance**

**Food Processing
Hotels/Motels/Housing
Public Schools
Termite Inspection
Warehouses**

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Dr. Elbert C. Dickey, Dean and Director of Extension, Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln.

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University of Nebraska Extension Educational Programs abide with the non-discrimination policies of the University of Nebraska-Lincoln and the United States Department of Agriculture.

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UPM Conference Registration Information

GENERAL CONFERENCE REGISTRATION:

Registration fee: \$140 per participant **until January 20, 2012.**

Registration fee: \$160 per participant after January 20, 2012.

No refunds after January 20, 2012.

(Fee includes lunches, refreshments, hand-outs and facilities.)

Please mail the completed form with your payment to: Department of Entomology, University of Nebraska, Lincoln, NE 68583-0816. **Attention: Dr. Shripat Kamble.** Make your check payable to “University of Nebraska UPM Conference.”

EXHIBITOR REGISTRATION:

Registration fee: \$400 (includes booth, table and electrical outlet.)

ON-SITE REGISTRATION AT THE CORNHUSKER HOTEL:

Tuesday, February 14, 2012, 7:00 a.m. – 4:00 p.m.

Wednesday, February 15, 2012, 7:30 a.m. – 11:30 a.m.

REFUND POLICY:

Requests for full refunds must be received in writing by January 20, 2012.

LODGING ACCOMMODATIONS:

Cornhusker-Marriott Hotel: Make reservations early! Phone: (402) 474-7474.

FAX: (402) 474-6006. Web site: www.thecornhusker.com

Single/Double room rate: \$89 per night plus tax.

INDUSTRY EXHIBITS:

Several commercial exhibitors will display the latest pest management products.

PESTICIDE RECERTIFICATION AND TESTING:

The conference meets Recertification requirements of the Nebraska Department of Agriculture (NDA) for certified commercial and noncommercial applicators.

Recertification is available by attending the appropriate session(s).

Categories: 08-Structural/Health Related Pest Control;
08W-Wood Destroying Organisms;
09-Public Health Pest Control; and
11-Fumigation (Food Processing & Grain Fumigation).

Applicators can recertify in a maximum of three categories.

To apply for continuing education units (CEUS) for other states, submit a request to your state authorities along with a copy of this program and your attendance verification document provided by NDA. To prepare for Initial Certification examinations in Nebraska, obtain study packet(s) *before* the conference by contacting the UNL Pesticide Education Office at (402) 472-1632.

Initial examinations in the above categories will be offered on February 15th by the NDA.

For more information, call (402) 471-2394.

CONFERENCE CONTACT:

Dr. Shripat T. Kamble Phone: (402) 472-6857 Email: skamble1@unl.edu

Department of Entomology

University of Nebraska, Lincoln, NE 68583-0816

Tuesday Morning – February 14th

7:00 **Conference Registration.**

OPENING GENERAL SESSION **Room: Grand Ballroom (DEF1)**

Moderator: **Dr. Gary Brewer**, Department of Entomology, University of Nebraska, Lincoln, NE.

- 8:00 Welcome to the 20th Annual UPM Conference. **Dr. Ronnie Green**, NU Vice President and IANR Harlan Vice Chancellor, University of Nebraska, Lincoln, NE.
- 8:05 Comments. **Mr. Jeff Voelker**, President, Nebraska State Pest Control Association, Critter Control of Omaha, NE.
- 8:10 Opening Remarks. **Dr. Shripat T. Kamble**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 8:15 Applicator Certification and Licensing Updates for 2012. **Mr. Mark Christenson**, Nebraska Department of Agriculture, Lincoln, NE.
- 8:30 Using Rodent Research to Make More Money in Rodent IPM. **Dr. Robert (Bobby) Corrigan**, RMC Pest Management Consulting, Richmond, IN.
- 9:15 Federal, National Legislative and Regulatory Issues Impacting the Professional Pest Management Industry. **Mr. Gene Harrington**, National Pest Management Association, Fairfax, VA.
- 10:00 Break - Coffee/Soft Drinks and Opportunity to Visit Exhibitors.
- 10:30 Updates in the EPA Rodenticide Risk Mitigation Decision. **Dr. Robert (Bobby) Corrigan**, RMC Pest Management Consulting, Richmond, IN.
- 11:15 Pesticide Regulations. **Mr. Tim Creger**, Nebraska Department of Agriculture, Lincoln, NE.
- 12:00 **Lunch Served** – Room: Lancaster 4-5-6 (Lower Level).

OPEN LABORATORY SESSIONS

10:00 a.m. – 5:00 p.m. Room: Hawthorne Room (Lower Level)

Lab 1. Structural Pests/Occasional Invaders

Lab 2. Wood-Destroying Pests (including termites)

Lab 3. Pests Affecting Public Health

Lab 4. Stored Food and Pantry Pests

Mr. James Kalisch, Mr. Robert Roselle and Dr. Shripat Kamble, Department of Entomology, University of Nebraska, Lincoln, NE.

Tuesday Afternoon – February 14th

CONCURRENT LECTURE SESSIONS

Session A: Structural Pest Control

Room: Grand Ballroom (DEF1)

Moderator: Mr. Justin McMechan, Department of Entomology, University of Nebraska, Lincoln, NE.

- 1:00 German Cockroaches - Maximizing Bait Output to Knock Down Massive Populations in Low Income Situations. **Dr. Dini Miller**, Department of Entomology, Virginia Polytechnic Institute and State University, Blacksburg, VA.
- 1:30 Biology and Management of Occasional Invading Pests. **Dr. Donald Lewis**, Department of Entomology, Iowa State University, Ames, IA.
- 2:00 Biology and Control of Non-Commensal Rodents. **Mr. Dennis Ferraro**, School of Natural Resources, University of Nebraska, Lincoln, NE.
- 2:30 Non-Chemical and Chemical Control Methods for Bird Control. **Dr. Stephen Vantassel**, School of Natural Resources, University of Nebraska, Lincoln, NE.
- 3:00 Break - Coffee/Soft Drinks and Opportunity to Visit Exhibitors.
- 3:30 Carpenter Ant Biology and Control Techniques. **Dr. Michael Merchant**, Texas AgriLife Research and Extension Center, Dallas, TX.
- 4:00 New Developments in Termite Baiting. **Mr. Jack Watkins**, Rhodes Chemical Co., Kansas City, KS.
- 4:30 Open Lab Session A. Identification of Structural Pests and Their Damage. (Hawthorne Room, Lower Level). **Mr. James Kalisch**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 5:00 Adjourn.
- 5:10 - 6:30 **Exhibitors' Reception** – Hors D'oeuvres & Drinks.

CONCURRENT LECTURE SESSIONS

Session B: Food Processing and Grain Fumigation

Room: Arbor Room (Lower Level)

Moderator: Ms. Erin Bauer, Pesticide Safety Education Programs, University of Nebraska-Lincoln Extension, Lincoln, NE.

- 1:00 How to Prevent Health Risks While Performing Bird Control. **Dr. Stephen Vantassel**, School of Natural Resources, University of Nebraska, Lincoln, NE.
- 1:30 Grain Fumigant Alternatives. **Dr. Thomas Phillips**, Department of Entomology, Kansas State University, Manhattan, KS.
- 2:00 Heat Treatment Effectiveness in Commercial Facilities. **Dr. Subi Subramanyam**, Department of Grain Science and Industry, Kansas State University, Manhattan, KS.
- 2:30 Comparison of Heat, Methyl Bromide and Sulfuryl Fluoride in Flour Mills. **Dr. Subi Subramanyam**, Department of Grain Science and Industry, Kansas State University, Manhattan, KS.
- 3:00 Break - Coffee/Soft Drinks and Opportunity to Visit Exhibitors.
- 3:30 Pheromones for Detection and Mating Disruption of Stored Grain Pests. **Dr. James Campbell**, USDA-ARS-GMPRC, Manhattan, KS.
- 4:00 Additive Effect of Insect Growth Regulators and Insecticides Against Stored Grain Pests. **Dr. Frank Arthur**, USDA-ARS-GMPRC, Manhattan, KS.
- 4:30 Heat Treatment for Empty Grain Storage Bins - Floor Temperature and Insect Response. **Dr. Mark Casada**, USDA-ARS-GMPRC, Manhattan, KS.
- 5:00 Adjourn.
- 5:10 -6:30 **Exhibitors' Reception** – Hors D'oeuvres & Drinks.

Tuesday Afternoon – February 14th

CONCURRENT LECTURE SESSIONS

Session C: Public Health Pest Control

Room: Grand Ballroom (ABC1)

Moderator: Ms. Lizette Dahlgren, Department of Entomology, University of Nebraska, Lincoln, NE.

- 1:00 Biology and Habitats of Mosquitoes in Nebraska. **Dr. Thomas Janousek**, Pest Consulting Services Inc., Omaha, NE.
- 1:30 Mosquito Transmitted Diseases. **Dr. Roberto Cortinas**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 2:00 Mosquito Larvicide Products. **Dr. Thomas Janousek**, Pest Consulting Services Inc., Omaha, NE.
- 2:30 Sampling Techniques for Monitoring Tick Populations. **Dr. Roberto Cortinas**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 3:00 Break - Coffee/Soft Drinks and Opportunity to Visit Exhibitors.
- 3:30 Fleas on the Rebound. **Dr. Barbara Ogg**, Lancaster County Extension, University of Nebraska, Lincoln, NE.
- 4:00 Use of Integrated Pest Management (IPM) to Suppress Bed Bug Populations. **Dr. Gary Bennett**, Department of Entomology, Purdue University, West Lafayette, IN.
- 4:30 Importance of DNA Research in Bed Bug Control. **Dr. Shripat T. Kamble and Mr. Ralph Narain**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 5:00 Adjourn.
- 5:10-6:30 **Exhibitors' Reception** – Hors D'oeuvres & Drinks.

Wednesday Morning – February 15th

OPEN LABORATORY SESSIONS

9:00 a.m. – 2:00 p.m. Room: Hawthorne Room (Lower Level)

Lab 1. Structural Pests/Occasional Invaders

Lab 2. Wood-Destroying Pests (including termites)

Lab 3. Pests Affecting Public Health

Lab 4. Stored Food and Pantry Pests

Mr. James Kalisch, Mr. Robert Roselle and Dr. Shripat Kamble, Department of Entomology, University of Nebraska, Lincoln, NE.

CONCURRENT LECTURE SESSIONS

Session A: Structural Pest Control

Room: Grand Ballroom (DEF1)

Moderator: Mr. Timothy Husen, Department of Entomology, University of Nebraska, Lincoln, NE.

- 8:00 Pitfalls in Biology and Habits of Subterranean Termites. **Dr. Nicola Gallagher**, DuPont Professional Products, Columbus, OH.
- 8:30 Major Wood Boring Insect Pests: Biology and Management. **Dr. Michael Merchant**, Texas AgriLife Research and Extension Center, Dallas, TX.
- 9:00 Update on Construction Features and How They Affect Termite Control. **Mr. Dennis Ferraro**, School of Natural Resources, University of Nebraska, Lincoln, NE.
- 9:30 Proper Methods for Liquid Termiticide Application - Equipment Calibration, Mixing and Label Rate Applications, Trenching and Rodding. **Dr. Bob Davis**, BASF Corp., Pflugerville, TX.
- 10:00 Break - Coffee/Soft Drinks and Opportunity to Visit Exhibitors.
- 10:30 The Lowly Dermestid: In the Bedroom and the Pantry. **Dr. Barbara Ogg**, Lancaster County Extension, University of Nebraska, Lincoln, NE.
- 11:00 Controlling Wood Decaying Fungi with Borate. **Dr. Janet Kintz-Early**, Nisus Corp., Rockford, TN.
- 11:30 Research Update: Chitinase Inhibitors as Potential for Termite Bait. **Mr. Timothy Husen and Dr. Shripat Kamble**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 12:00 **Lunch on your own.**

Wednesday Morning – February 15th

CONCURRENT LECTURE SESSIONS

Session B: Food Processing and Grain Fumigation

Room: Arbor Room (Lower Level)

Moderator: Mr. Travis Prochaska, Department of Entomology, University of Nebraska, Lincoln, NE.

- 8:00 Update on Grain Protectants. **Mr. Jerry Heath**, Industrial Fumigant Co., Olathe, KS.
- 8:30 ProFume Fumigation for Stored Product Pests. **Dr. Joseph DeMark**, Dow AgroSciences, Fayetteville, AR.
- 9:00 Moisture Effects During Aeration to Cool Stored Grains and Its Impact on Insects. **Dr. Mark Casada**, USDA-ARS-GMPRC, Manhattan, KS.
- 9:30 Open Laboratory Session B - Identification of Stored Food Pests and Their Damage. (Hawthorne Room, Lower Level). **Mr. James Kalisch**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 10:00 Break - Coffee/Soft Drinks and Opportunity to Visit Exhibitors.
- 10:30 Biology and Habits of Red Flour Beetles and Lesser Grain Borers. **Dr. James Campbell**, USDA-ARS-GMPRC, Manhattan, KS.
- 11:00 Fumigation Management Plan - Part I: Techniques to Reduce Applicator Exposure. **Mr. Jerry Heath**, Industrial Fumigant Co., Olathe, KS.
- 11:30 Fumigation Management Plan - Part II: Calculation of Application Rates, Fumigation Release Methods and Maintaining Correct Concentration. **Mr. Jerry Heath**, Industrial Fumigant Co., Olathe, KS.
- 12:00 **Lunch on your own.**

CONCURRENT LECTURE SESSIONS

Session C: Public Health Pest Control

Room: Grand Ballroom (ABC1)

Moderator: Mr. Mitchell Stamm, Department of Entomology, University of Nebraska, Lincoln, NE.

- 8:00 Biology and Habits of Medically Important Spiders. **Mr. James Kalisch**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 8:30 The Novel Verifi Bed Bug Detector - Results from Field Trials. **Dr. Dina Richman**, FMC Professional Solutions, Philadelphia, PA.
- 9:00 Bed Bug Resistance to Insecticides. **Dr. Dini Miller**, Department of Entomology, Virginia Polytechnic Institute and State University, Blacksburg, VA.
- 9:30 Biting and Stinging Insects. **Dr. Donald Lewis**, Department of Entomology, Iowa State University, Ames, IA.
- 10:00 Break - Coffee/Soft Drinks and Opportunity to Visit Exhibitors.
- 10:30 How to Deal with Customers with Delusory Parasitosis. **Dr. Michael Merchant**, Texas AgriLife Research and Extension Center, Dallas, TX.
- 11:00 Adult Mosquito Control to Include NPDES. **Dr. Thomas Janousek**, Pest Consulting Services Inc., Omaha, NE.
- 11:30 Open Lab Session C. Identification of Public Health Pests and Their Damage. (Hawthorne Room, Lower Level). **Mr. James Kalisch**, Department of Entomology, University of Nebraska, Lincoln, NE.
- 12:00 **Lunch on your own.**

Wednesday Afternoon – February 15th

CLOSING GENERAL SESSION

Room: Grand Ballroom (ABC1)

Moderator: **Dr. Shripat T. Kamble**, Department of Entomology, University of Nebraska, Lincoln, NE.

- 1:00 Examples of State Inspections. **Mr. Kevin Holdorf**, Pesticide Program, Nebraska Department of Agriculture, Lincoln, NE.
- 1:30 Print and Digital Resources for Pest Professionals. **Dr. Bob Davis**, BASF Corp., Pflugerville, TX.
- 2:00 Handling Lawsuits (speaker, TBA)
- 3:00 Break - Coffee/Soft Drinks
- 3:30 The End.

CLOSING RECERTIFICATION SESSION

Room: Grand Ballroom (DEF1)

Mr. Clyde Ogg and Ms. Erin Bauer, Pesticide Safety Education Program, University of Nebraska-Lincoln Extension, Lincoln, NE and **Mr. Mark Christenson**, Pesticide Program, Nebraska Department of Agriculture, Lincoln, NE.

- 1:00-4:30 Re-Certification Program.
- Laws, Regulations and the Label.
 - General Calibration Concepts.
 - Pesticide Safety.
 - Environmental Protection.
 - Unique Pesticide Risks for UPMC Applicators.
 - Complete the Paperwork.

ACKNOWLEDGEMENTS

2012 UPM Conference Committee

University of Nebraska-Lincoln Extension, Lincoln, NE

Shripat Kamble, Coordinator
Erin Bauer
Dennis Ferraro
Scott Hygnstrom
James Kalisch
Barbara Ogg
Clyde Ogg
Stephen Vantassel

State of Nebraska Representatives

Tim Creger, Nebraska Department of Agriculture
Mark Christenson, Nebraska Department of Agriculture

Pest Control Industry and Association Representatives

Doug Bennett, Pest Management Supply Co.
Charles DeMoss, Usher Pest Control Co.
Thomas Janousek, Nebraska Mosquito & Vector Control Assoc.
Ryan King, President, Nebraska Environmental Health Assoc.
Brad Kuiper, Nebraska State Pest Control Assoc. (NSPCA)
Linda McFarland, District 5 Director, NSPCA
Leslie Theisen, Nebraska Environmental Health Assoc.
Jack Watkins, Dow AgroSciences Co.
Jeff Voelker, Nebraska State Pest Control Assoc. (NSPCA)

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DEPARTMENT OF ENTOMOLOGY

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Urban Pest Management Conference Coordinator
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