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Hexapod Herald

Department of Entomology
Volume 12

March 2000

University of Nebraska-Lincoln
Number 1

Calendar of Events



February 28-March 2, 2000

International Plant Resistance to Insects
Workshop, Fort Collins, CO

March 26-29, 2000

North Central Branch of the Entomological Society of
America in Minneapolis, Minnesota

May 14-16, 2000

2000 National Conference on Urban Entomology in Fort
Lauderdale, Florida

May 22-23, 2000

Short course on agricultural biotechnology and pesticide
risk assessment taught by **Dr. Bob Peterson**.
Additional information will be forthcoming.

August 20-26, 2000

XXI International Congress of Entomology, Foz do Iguacu,
Brazil

December 3-7, 2000

Annual Meeting of the Entomological Society of America in
Montreal, Canada

American Agricultural Services	\$4,000
Dr. Shripat Kamble	
Novartis	\$5,000
<i>Host Plant Resistance to Insects</i>	
Dow AgroSciences	\$2,500
<i>Termite</i>	
IR-4 Program	\$4,000
Dr. Lance Meinke	
Monsanto	\$9,500
<i>Biology, Ecology, and Management of Diabrotica Species</i>	
Dow AgroSciences	\$4,000
<i>Biology, Ecology, and Management of Diabrotica Species—Corn Yield Study 1999</i>	
Dow AgroSciences	\$4,000
<i>Biology, Ecology, and Management of Diabrotica Species—1999 Corn Rootworm Soil Insecticide Trial</i>	
Dr. Blair Siegfried	
Pioneer Hi-Bred International	\$20,650
<i>Bt Resistance Monitoring in European Corn Borer for CryAB and CryIF</i>	

Congratulations

James Austin (M.S. 1999) has received a Fulbright Fellowship to start in September 2000. James will be working on the population genetics of termites at the Middle East Technical University (METU) in Ankara, Turkey. His work will be coordinated with Drs. Aykut Kence (METU) and Chris Lomer at Bilkent University. Until his Fulbright takes effect, James will be teaching English at Kent English School in Ankara.

Dr. Robert Davis has recently begun working for Aventis, Inc. His work address is 2605 Butler National Dr., Pflugerville, TX 78660.

Dr. Ronald C. Seymour is now the Extension Educator at Adams County Extension, 300 N. Joseph Ave., Room 103, P.O. Box 30, Hastings, NE 68902-0030.



Andrew and Tracey Smith are the new parents of Maia Helen Agnes Smith, January 5, 2000. Maia weighed in at 9 lb 14 oz!

Xuguo and Lan Zhou were married on Chinese New Year, February 4, 2000.



Grants

Dr. Fred Baxendale

Lesco, Inc. \$4,000
Arthropods Associated with Buffalograss and Other Turfgrasses in Nebraska

Dr. Marion Ellis

Nebraska Beekeepers Assoc. \$2,000
Student Travel
South Dakota Beekeepers Assoc. \$1,000
Applied Research on Parasitic Mites

Dr. John Foster

Monsanto Ag Products LLC \$7,505.60
Arthropods Associated with Crop Pests
Biotechnology Industry Organization \$704.07
Arthropods Associated with Crop Pests

Mr. Keith Jarvi

Zeneca \$1,250
Rhone-Poulanc \$4,500
American Cyanamid \$1,000
FMC Corporation \$2,000
Bayer \$5,800
Wilfarm \$1,000

We Want to Know!!

If you have news you'd like to see in the *Hexapod Herald*, please email the information to jkeller@unlnotes.unl.edu.
The next deadline is April 21st.

Welcome

The following students began pursuing Distance Master Degrees:

Erin Bauer, Omaha, NE; **Debbie Crosby**, Petaluma, CA; **Joshua Granderson**, Siloam Springs, AR; **Teresa Havens**, Dayton, OH; **Peter Jentsch**, Rosendale, NY; **Jean Legge**, Valley City, ND; **Deb Meyers**, St. Joseph, MO; and **Phillip Robinson**, Whittier, CA.

Welcome to **Barb Andersen** who recently began her position as Clerical Assistant II in the department. Barb's responsibilities include copier/equipment maintenance, copying, faxing, Federal Express, insect specimen ID forms, mail distribution, Mastercard reconciliation, publication reprints, purchasing/requisitions/supplies, reimbursements, travel (expense vouchers/pre-trip notification).

Jae Behn has joined the department as a student worker. Jae is in the office on Monday and Thursday afternoons. Please keep her in mind when you have copying jobs, mailings, etc. She loves keeping busy!

Egyptian visiting scholar **Dr. Samira El Shall** has been awarded a fellowship for training at USDA-ARS from the International Atomic Energy Agency Fellowship Program. She will be training in Lincoln with Drs. Steven Skoda and Dennis Berkebile from March 1 through May 31, at the Genetics Laboratory located in the Department of Entomology and the Biosecure Facility of the Midwest Livestock Insects Research Unit. Her interests are in sterile insect techniques and will work with flies and moths. We encourage everyone to meet and welcome Dr. El Shall to Lincoln and the University of Nebraska.

Visit the Entomology EntWeb at
<http://www.ianr.unl.edu/ianr/entomol/entdept.htm>

Faculty News

Dr. Mary Liz Jameson received the first runner up award for the Lacordaire Prize given by the Coleopterists Society for the best dissertation published on the systematics of Coleoptera. The paper is entitled "Phylogenetic analysis of the subtribe Rutelina and revision of the Rutela generic groups (Coleoptera: Scarabaeidae: Rutelinae: Rutelini)" and was published in the Bulletin of the University of Nebraska State Museum. A handsome plaque was presented to Mary Liz at the annual meeting of the Coleopterists Society in Atlanta last December.

Dr. J. Ackland Jones retired from the University in December. A reception was held in his honor. On the back page of the *Hexapod Herald*, you will find a tribute to Dr. Jones written by **Dr. David Keith** and read by Dr. Keith at the reception.

Drs. Lance Meinke, Mike Scharf and **Robert Wright** were each awarded a USDA Certificate of Appreciation for contributions to the National Areawide Corn Rootworm Management Pilot program, February 2000.

Dr. Brett Ratcliffe gave a presentation in February on the activities of Team Scarab at the Museum to new members of the Rotary Club in Lincoln.

Andrew Witkowski, son of **Dr. John Witkowski**, was seriously injured February 12 when he fell four stories from scaffolding at

a construction site. He has been released from the hospital and is recovering at home.

Graduate Student News

Tiffany Heng-Moss was awarded a \$5000 Watson Fellowship from the GCSAA Foundation in February 2000 when she attended the National Golf Course Superintendents Meeting in New Orleans, LA.

Paula Macedo received a \$2,000 stipend and **Tulio Macedo** received a \$3,000 stipend from the Mary and Charles C. Cooper/Emma I. Sharpless Fellowship.

Pari Pachamuthu was the recipient of the Ward A. and Helen W. Combs scholarship sponsored by Presto-X Company of Omaha, NE. Pari was recognized during an annual meeting of Presto-X on March 2, 2000. This scholarship is awarded to students involved in research/extension programs in Urban Entomology with special emphasis on Structural/Household Pests.

The following students were awarded \$100 each from the Swenk Fund for travel to the North Central Branch Entomological Society of America meetings March 26-29, 2000: **Leela Alamalakala**, **Thomas Clark**, **Kevin Delaney**, **Paula Macedo**, **Isaac Oyediran**, **Connie Reimers-Hild**, **Hasan Tunaz**, and **Amelia Zoerb**.

Congratulations to the graduate students who placed in the following competitions at the National Entomological Society of America Meeting in December:

10-Minute Presentation: First Place, **Tiffany Heng-Moss**, **Pari Pachamuthu**, and **Eric Durham**.

Poster Competition: First Place, **Jon Bedick**; **Second Place**, **Tom Clark** and **Fikru Haile**.

The Linnaean Team: Second Place, **Jon Bedick**, **Tom Clark**, **W. Wyatt Hoback**, and **Srinivas Parimi**.

The following students were awarded \$100 each from the Swenk Fund for travel to the PEET Meetings in Washington, DC, March 24-29, 2000: **Federico Ocampo** and **Aura Paucar**.

Publications



Bolles, H.G., H.E. Dixon-White, **R.K.D. Peterson**, J. R. Tomerlin, E. W. Day, and G. R. Oliver. 1999. A US market basket study to determine residues of the insecticide chlorpyrifos. *J. Food and Agric. Chem.* 47:1817-1822.

Gibson, J.E., **R.K.D. Peterson**, and B.A. Shurdt. 1998. Human exposure and risk from indoor use of chlorpyrifos. *Environ. Health Persp.* 106:303-306.

Gibson, J.E., W.L. Chen, and **R.K.D. Peterson**. 1999. How to determine if an additional 10x safety factor is necessary: a case study with chlorpyrifos. *Toxicol. Sci.* 48:117-122.

Haile, F.J., **R.K.D. Peterson**, and **L.G. Higley**. 1999. Gas-exchange responses of alfalfa and soybean treated with insecticides. *J. Econ. Entomol.* 92:954-959.

Meyer, S.J. and **R.K.D. Peterson**. 1998. Predicting movement of stalk borer (Lepidoptera: Noctuidae) larvae in corn. *Crop Prot.* 17:609-612.

Pachamuthu, P., Shripat T. Kamble, and Gary Y. Yuen. 2000. *In vivo* study on combined toxicity of *Metarhizium anisopliae* (Deuteromycotina: Hyphomycetes strain ESC-1 with Sublethal doses of Chlorphrifos, Propetamphos and Cyfluthrin Against German Cockroach (Dictyoptera: Blattellidae). *J. Econ. Entomol.* 93:60-70.

Peterson, R. K. D. and B.A. Shurdut. 1999. Human health risks from cockroaches and cockroach management: A risk analysis approach. *American Entomol.* 45:142-148.

Pruess, Kenneth. 1999. The Honey Industry Council of America stamps. *American Revenuer* 53:88-89.

Szalanski, A.L., R.L. Roehrdanz, D.B. Taylor and L. Chandler. 1999. Genetic Variation in geographical populations of western and Mexican corn rootworm. *Insect Mole. Biol.* 8:519-525.

Wright, Robert J., Lance J. Meinke, Blair D. Siegfried, Michael E. Scharf, and Laurence D. Chandler. 2000. Larval susceptibility of an insecticide-resistant western corn rootworm (Coleoptera:Chrysomelidae) larvae to soil insecticides: laboratory bioassays, assays of detoxification enzymes and field performance. *J. Econ. Entomol.* 93:7-13.



Travel

Drs. Fred Baxendale, John Foster, Short Heinrich, Leon Higley along with students **Kevin Delaney, Tiffany Heng-Moss, and Tulio Macedo** attended the International Plant Resistance to Insects Workshop in Fort Collins, CO, February 28–March 2, 2000.

Dr. Fred Baxendale was an invited lecturer at Texas A & M University PCO Pest Management Conference and Workshop, College Station, TX, January 12–14, 2000.

Dr. Fred Baxendale traveled to Providence, RI, to participate in the New England Regional Turfgrass Conference and Show, March 7–9, 2000, as an invited lecturer.

Dr. Marion Ellis, Paula Macedo, and Mahmoud Ali traveled to Kansas City to present research to the Kansas Beekeepers Association March 3–4, 2000.

Dr. John Foster attended the NC205 and NCR46 meetings in Madison, WI January 22–27, 2000.

Dr. John Foster traveled to Colorado Springs, CO to present a paper at the Conservation Technology Information Center's Forum on BMO Plant Protection Traits, February 1–3, 2000.

Dr. Z B Mayo attended the NCA-15 Meetings in Cincinnati, OH, January 23–24, 2000.

Dr. Z B Mayo traveled to New Orleans, LA, February 3–6, 2000, to participate in the American Association of Higher Education Conference. He presented a symposium on "Post Tenure Review with Dr. Dan Wheeler and representatives from the University of Kentucky and Texas A&M.

As part of the NCR-46 executive committee, **Dr. Lance Meinke** met with several EPA groups in Washington, D.C. on February 28, 2000 to discuss corn rootworm transgenic plant registration and resistance management issues.

From the Office



Please remember to attach receipts and other required paperwork when turning in your MasterCard slips to Barb (without receipts, they cannot be processed).

The next deadline for
the *Hexapod Herald* is April 28th.

Entomology Spring Seminar Series 1:00 – 2:00 p.m.

- | | |
|-------------|---|
| February 15 | "Winter Survival and Population Dynamics of Bean Leaf Beetle"
Dr. Frankie Lamb, Iowa State University, Ames, Iowa
East Campus Union |
| February 22 | "Endocrine Genetics of Wing Polymorphism: Implications for the Evolution of Development and Life Histories"
Dr. Tony Zera, UNL, School of Biological Sciences
East Campus Union |
| February 24 | SPECIAL SEMINAR!
"Components of Foraging Behavior in a Predatory Mite"
Dr. David Margolies, Kansas State University, Manhattan, KS
East Campus Union |
| March 7 | "Corn and Sorghum Insect Research at EMBRAPA, Brazil"
Dr. J. M. Waquil, UNL, Department of Entomology
East Campus Union |
| March 14 | Spring Break |
| March 21 | "Life in the Belly of a Beetle"
Dr. Rich Clopton, Peru State College, Peru, NE
East Campus Union |
| March 28 | Entomological Society of America Branch meetings. No seminar. |
| April 4 | Title to be Announced
Dr. Michael Caprio, Mississippi State University, Mississippi State, MS
Food Industry Complex, Room 42 |
| April 11 | "Aquatic Insect Taxonomy and Bioassessment"
Dr. Kevin Alexander, Wayne State College, Wayne, NE
Food Industry Complex, Room 42. |
| April 18 | "Discovery to Market--Development of Spinosad for Insect Control in Florida Vegetable Crops"
Dr. Joe Eger, Dow AgroSciences, Florida
East Campus Union |
| April 25 | Title to be Announced
Dr. Guillermo Ortí, UNL, School of Biological Sciences
Food Industry Complex, Room 42 |

Entomology 905 Seminar

East Campus Union—3:30 p.m. unless otherwise noted

- February 11 *Sources of Insect Resistance in Vigna unguiculata (L.) Walp in Africa*
Isaac Oyediran
- February 18 *Bugs Vectoring Death*
Agustin Sagell
- February 25 *Synthetic Versus Natural Insecticides*
Eric Durham.
- March 3 *Insects as Bioindicators*
Connie Reimers-Hild
- March 10 *Biology and Control of the Colorado Potato Beetle*
Brian Clark
East Campus Union—12 Noon
- Constructivism: The architecture of learning (and Bloom's Taxonomy does the landscaping)*
Martha Lutz
East Campus Union—3:30 p.m.
- March 24 *An Entomological Omelette: Form, Function and Physiology of the Insect Egg*
Jon Bedick
- March 31 *IPM of the Cattle Tick, Boophilus Microplus*
Abel Pitti
- April 7 *Management of Bt Resistance in Transgenic Plants*
Raj Saran
- April 14 *Cytochrome P₄₅₀*
Joe Zhou
- April 21 *Inducers of Plant Resistance to Pests*
Cengiz Ikten
- April 28 *Sperm Competition in Insects: Does the Last Male Really Sire the Majority of Subsequent Offspring?*
Tom Clark

It is the policy of the University of Nebraska-Lincoln not to discriminate based on gender, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin or sexual orientation.

Ackland

Ack came to the Department one fall,
His office was just down the hall,

A room somewhat longer than wide,
Desk, chair, shelves inside,

Room 203 on the south PI wall.

Prof. Jones, who was hired to teach,
worked hard, his kids tried to reach.

Farmers sent their kids off to college,
hoping they'd rub off some of Ack's knowledge.

He taught them biology, orders, morphology,
metamorphosis, behavior and a little ecology...

...bug structure and function, both inside and out.
To Ackland his teach was what its about.

As he taught, Ack's stuff grew in his room ²⁰³201,
A collection of artifacts, white elephants, some...

...shelves cluttered with flies and some old flutter-bys,
an ashtray, nets, pins and some glue.

There's a pair of shark jaws, a coffee cup with two feet,
Caps, hammers and beakers and glass slides in heaps.

Stacked Schmidt boxes, malaises and black lights amazes
any who glance inside for some gazes.

Time-structured, like Jurassic and Pleistocene data,
His story of teaching, of career, all in strata.

From bottom to top, they're all linked together
from the last to the first, all tied up with a tether...

...of care and concern and a love for his art,
Of thinking, of speaking and teaching with heart.

Last week he paused, his last paper graded,
The results all posted on doors

He'll go through it this week, give each layer a peek,
And then he'll clean off the floors

But when he gets down to year one:

He'll think of the kids in his classes – the fun
Of helping, of sharing and learning as one.

Ack, you've meant a lot to this place. We'll miss you. Thanks for sharing your teaching space with me. You have been a terrific colleague. I'll miss your regular presence in Room 203 and your advice and counsel. I'll always remember you, and Dick Dickason, Z B, Bob Roselle, Ken Pruess and Tom Holtzer at coffee break each morning when we were the "kids" in the department. Best wishes for your retirement.

Dave Keith

Competition Results
National Entomological Society of America Meeting
Atlanta, Georgia
Dec 12-16, 1999

Congratulations to the following graduate students:

10 Minute Presentations

- ❖ First Place – Tiffany Heng-Moss
- ❖ First Place – Pari Pachamuthu

Poster Competition

- ❖ First Place - Jon Bedick
- ❖ Second Place - Tom Clark
Fikru Haile

The Linnaean Team

Second Place

- ❖ Jon Bedick
- ❖ Tom Clark
- ❖ W. Wyatt Hoback
- ❖ Srinivas Parimi