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Hexapod Herald - Vol. 24, No. 4, September 2012

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"Hexapod Herald - Vol. 24, No. 4, September 2012" (2012). *Hexapod Herald and Other Entomology Department Newsletters*. 79.

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Hexapod Herald

September 2012

Department of Entomology
College of Agricultural Sciences and Natural Resources

Volume 24, No. 4

Welcome

New Distance Masters Students: Fall 2012: **Andrew Brown**, Silver Spring, MD; **Clark Fryrear**, San Diego, CA; **Courtney Welgand Rincon**, Des Moines, IA.

New Insect Science Student: **Hillary Fischer**, Beatrice, NE

Natalia Bjorklund is a new Ph.D. student who will be working under the supervision of **Dr. Doug Golick**. Natalia is originally from Greeley, NE. She is currently an extension educator for Dodge County. She received her B.S. in Horticulture from UNL, and her M.S. in Plant Studies from the University of Tennessee-Knoxville. Natalia's area of study will involve extension and education programs in insect pollination systems.

Teresa Donze is a new postdoc working with **Dr. Tiffany Heng-Moss**. Dr. Donze is originally from McCook, NE. She received her Ph.D. in Molecular Biology and Microbiology from UNL. Dr. Donze's research will focus on understanding insect resistance in buffalograss and switchgrass. She will also be working with Dr. Keenan Amundsen from the Agronomy Department on genomic sequence assembly and evaluation in turfgrass.

Adriano Pereira is a new Ph.D. student working under the supervision of **Dr. Blair Siegfried**. He received his B.S. in Agricultural Engineering from the Federal University of Lavras and his M.S. in Entomology from the Federal University of Viçosa. He then worked as an entomologist for the USDA Animal and Plant Health Inspection Service in São Paulo, Brazil. Adriano's research will involve characterizing the response of corn rootworms to selection by RNA interference.

Renata Pereira is taking a hiatus from her M.S. program at the Federal University of Viçosa in Brazil to learn IPM techniques. She started an internship with **Dr. Tom Hunt** in July, working primarily on *Aphis glycines* and soybean host plant resistance projects.

Mateus Ribeiro received his B.S. and M.S. in Entomology from the Federal University of Viçosa and is a Ph.D. student at the Federal University of Pernambuco in Recife, Brazil working under the direction of **Dr. Herbert Siqueira** (Ph.D. UNL Entomology 2003). Mateus is working in the Toxicology Lab on a six month fellowship to develop techniques for documenting behavioral responses to insecticides using EthoVision monitoring equipment.

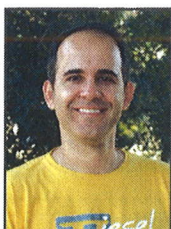
Vania Xavier also joined **Dr. Tom Hunt's** program in July. She too is a M.S. student from the Federal University of Viçosa in Brazil and will be here through December. Vania is studying *Diabrotica* research techniques with Drs. Hunt and Meinke.



Bjorklund



Donze



Pereira



Pereira



Ribeiro



Xavier

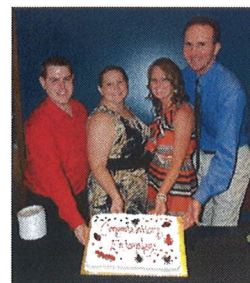
Congratulations

The following students graduated August 2102:

Ph.D. in Entomology: **Jessica Jurzenski**, Advisors—**Drs. W. Wyatt Hoback** and **Shripat Kamble**; **Khanobporn Tangtrakulwanich**, Advisors—**Drs. Fred Baxendale** and **Jerry Zhu**

M.S. in Entomology Resident: **Chelsea Piltz**, Advisors—**Drs. Tom Hunt** and **Blair Siegfried**;
Off Campus: **Peter Bonkrude**, **Aaron Hassell**, **Andrea McKern**, **Gregory Ose**, **Robert Stanley**, Advisor—**Dr. Tom Weissling**

B.S. in Insect Science: **Stephen Losey**; B.S. in Diversified Agriculture: **Matthew Langley**, **Brett Rupprecht**



Losey, Jurzenski, Piltz, Ose

Publications

Butler, S., J. Jurzenski, and W.W. Hoback. 2012. Evaluation of marking techniques, marking retention, and mark mortality in burying beetles (Coleoptera: Silphidae). The Coleopterists Bulletin 66(2):149-154.

Coates, B.S., A.P. Alves, H. Wang, K.K.O. Walden, B.W. French, N.J. Miller, C.A. Abel, H.M. Robertson, T.W. Sappington, and B.D. Siegfried. 2012. Distribution of Genes and Repetitive Elements in the *Diabrotica virgifera virgifera* Genome Estimated Using BAC Sequencing. Journal of Biomedicine and Biotechnology 2012:1-9.

Cruz, Ivan, Maria de Lourdes Correa Figueiredo, Rafael Braga da Silva, Ivana Fernandes da Silva, Cristine de Souza Paula and John E. Foster. 2012. Using sex pheromone traps in the decision-making process for pesticide application against fall armyworm (*Spodoptera frugiperda* (Smith) Lepidoptera: Noctuidae) larvae in maize. International Journal of Pest Management. 58(1): 83-90.

Jurzenski, J., M. Albrecht, and W.W. Hoback. 2012. Distribution and diversity of ant genera from selected ecoregions across Nebraska. The Prairie Naturalist 44(1):17-29.

Kneeland, K.M., S.R. Skoda, J.A. Hogsette, A. Li, J. Molina-Ochoa, K. Lohmeyer and J.E. Foster. 2012. A Century and a Half of Research on the Stable Fly, *Stomoxys calcitrans* (L.) (Diptera: Muscidae), 1862-2011: An Annotated Bibliography. ARS-173. U.S. Department of Agriculture. Agricultural Research Service. Washington DC. Available at <http://www.ars.usda.gov/is/np/StableFlyBiblio.pdf>

Paula-Moraes, Silvana, Wayne Ohnesorg, Eric Burkness, Gary Hein, Thomas Hunt, Robert Wright, and William Hutchison. 2012. Western bean cutworm speed scouting spreadsheet Extension Circular 1585, UNL Extension.

Ratcliffe, B.C. 2012. First reported occurrence and description of a new species of *Hoplopyga* (Coleoptera: Scarabaeidae: Cetoniinae: Gymnetini) from the West Indies. The Coleopterists Bulletin 66(2):111-115.

Grants

Fred Baxendale and Tiffany Heng-Moss

DuPont Corporation\$28,000
"Turfgrass Pest"

Syngenta\$18,000
"Turfgrass Pest"

Shripat Kamble

DuPont Corporation\$5,500
"Termite Study"

Lance Meinke

Monsanto Company\$5,000
"Biology, ecology, and management of *Diabrotica*"

Pioneer Hi-Bred International.\$10,000
"Biology, ecology, and management of *Diabrotica*"

Syngenta\$6,000
"Biology, ecology, and management of *Diabrotica*"

Drs. Lance Meinke, Nicholas Miller, and Blair Siegfried were part of a successful USDA-BRAG grant proposal led by Aaron Gassmann (Iowa State). The title of the grant is "Risks from Field-Evolved Resistance to Bt Corn by Western Corn Rootworm." The amount of the grant is \$498,000 with \$242,392 being awarded to the Entomology Department at UNL.

Department Meeting Dates for Fall 2012

9:00 a.m., ENTO 110

Tuesday, October 9

Tuesday, November 6

Tuesday, December 11

This 'n That

The first Nebraska Moth Night was held on July 27, 2012 at Spring Creek Prairie. **Andy Matz** and **Gabrielle Cooper**, along with volunteers from the Insect Science Club and members of the department, organized this event. It was one of many taking place during National Moth Week, which is a citizen science project aimed at gathering moth counts from all over the country. While not many moths showed up at our light, we had 135 human visitors. **Dr. Fred Baxendale** took groups around the prairie hunting for caterpillars and other insects. There were also hands-on displays of pinned adults, and families had the opportunity to hold some large and spectacular caterpillars. Hopefully this is the first of many Nebraska Moth Nights hosted by UNL.



Faculty News

Dr. Bob Wright briefed Sen. Mike Johanns and staff on "Insect Impacts" at a drought update meeting in Lincoln on August 9, 2012, and spoke on "Corn rootworm management options" at the South Central Ag Laboratory Field Day, at Clay Center on August 22 and at the Monsanto Corn-on-Corn Workshop on July 25 at Norfolk. He also gave a talk on "Corn insects" at the Iowa State University "Corn Clinic" on August 15 at Ames, IA, and provided an overview of entomology research at Clay Center during a tour of South Central Ag Laboratory by the Ag Builders of Nebraska on July 12.

Dr. Junwei (Jerry) Zhu was elected as a new councilor of the International Society of Chemical Ecology (ISCE). The ISCE forms a nucleus for worldwide interdisciplinary cooperation between biologists and chemists. Its membership directory currently lists more than 600 scientists from 35 countries.

Student News

Ken Miwa has received a 2012-2013 Shear-Miles Fellowship in the amount of \$2,000. **Ana Velez** and **Kyle Koch** have each been awarded a Milton E. Mohr Fellowship in the amount of \$2,000. A special recognition luncheon to honor all fellowship and award recipients will be held on October 30, 2012.

Abdul Hafiz Ab Majid and **Ralph Narain** were each awarded a Fred Clute Memorial Fellowship.

Aaron Gilman and **Kathryn O'Brien** have been awarded scholarships from the Earl and Bertha Ramsey Memorial Fund for 2012. **Elias Bloom** and **Kathryn O'Brien** each received an Ephraim and Veallon Hixson Memorial Fund Scholarship. **Jenny Freed** was awarded a scholarship from the Insect Science Scholarship Fund.

UCARE awards for 2012-2013 have been given to students listed below, along with their adviser and the amount of the award:

Levi Borrego	Dr. Ashley Hall	\$2,000 (year 2)
Rebecca Osborn	Dr. Nick Miller	\$2,000 (year 1)
Courtney Spilker	Dr. Tiffany Heng-Moss	\$2,400 (year 2)
Erin Steward	Larry Barksdale	\$2,000 (year 1)

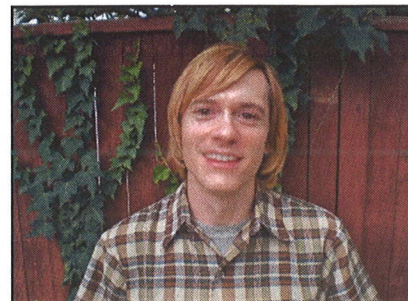
Meet an Off Campus Student

Joey Caputo

As a young adult I graduated with my first bachelor's degree in political studies and I became an activist. I did this because I felt compelled to "give back" for the many privileges I had received in life. In hindsight I wonder if it was actually a forgotten head injury that led me in such a direction. I say this because after years of being a rabble-rouser, I one day abruptly decided to put down my picket sign and pick up my gardening shovel.

I made the choice to follow in the footsteps of my uncle and aunt, Don and Ann Ivie, and learn to grow plants. They owned a small commercial greenhouse before they passed away. This line of work brought them much joy throughout their lives and I thought it would suit me well too. I found employment at a local, wholesale nursery and decided to go back to college and study horticulture. After graduating—again—my thirst to learn was unquenched, so I started applying to graduate programs. After weighing my options I selected the University of Nebraska's off-campus program because I was able to customize the degree to reflect my specific interests: insects and their interactions with plants. I'm hoping that the Master's in Entomology program will give me a thorough understanding of plant/insect ecology.

From my perspective, insects are the unsung heroes and misunderstood villains of our agriculturally dependent civilization. Ultimately I hope to secure employment with an institution that shares my goal of better educating the public about the importance of insects in agriculture. In a way my aspirations are the same today as they were many years ago—I want to change the way people think. However it is no longer my desire to influence who they vote for or their political ideology. Instead I merely want folks to be mindful of the many organisms which help make our way of life possible.



Condolences

Arthur Hagen, 84, died July 26, 2012 at the Community Hospital in Torrington, WY. Hagen attended Colorado State University where he received his Masters Degree in Entomology. He worked as a Research and Extension Entomologist for the state of Nebraska for 33 years.

Dr. George Manglitz, 85, passed away May 7, 2012. Manglitz received his Ph.D. in Entomology from UNL in 1962 and was a research entomologist with the USDA until his retirement in 1988.

Travel

Dr. M.J. Paulsen, Collection Manager in Entomology at the University of Nebraska State Museum, had a busy collecting season. He traveled to Japan for three weeks in June and July, specifically northern Honshu and Hokkaido islands and also collected throughout Arizona for three weeks in July and August.

Dr. Brett Ratcliffe conducted collections work in Guadeloupe in the French West Indies, Jamaica, and Puerto Rico during the last three weeks in June.

Dr. Ken Pruess attended the Rocky Mountain Conference of Entomologists, August 5-8, 2012, at Woodland Park, CO.

Dr. David Stanley was in Daegu, South Korea, for the ICE 2012 meeting, August 18-25, 2012, where he and a Korean colleague, Professor Y. Kim (Andong National University), co-organized and presented a joint paper to a symposium on cross-talk between biochemical signaling systems in insect immunity. Stanley also had traveled to China in June, 2012, and co-organized and presented a plenary lecture at the First International Workshop on Insect Immunity at Zhejiang University in Hangzhou. He also traveled to Guangzhou, where he presented invited seminars at the South China Agricultural University and the South China Normal University. He completed his trip with a visit to cooperators in the Chinese Academy of Agricultural Sciences in Beijing.

September will see the arrival of a Laser Capture Microdissection (LCM) system in the Entomology Department. The LCM system consists of a research-grade microscope linked to a laser that can cut out regions as small as a single cell from a variety of specimens. The \$150,000 cost of the LCM system is being met in equal parts by a successful departmental equipment bid led by **Dr. Ashley Hall**, a successful ARD equipment bid led by **Dr. Blair Siegfried** and additional support from the Office of Research and Economic Development.

Fond Farewell

Dr. David Carter accepted a new position as an Associate Professor of Forensic Sciences, Assistant Dean of Natural Sciences and Mathematics, and Director of Forensic Sciences, at Chaminade University of Honolulu, effective August 1, 2012. Carter joined the Entomology Department as a lecturer in 2006, developing forensic science courses for our undergraduate, graduate, and distance programs. He was promoted to an Assistant Professor of Entomology in 2007, and Associate Professor of Entomology in 2011, and was coordinator of the Forensic Science Program.

Craig McGill accepted a advising position at Florida International University in Miami. He had been an academic advisor for the Forensic Science Program since 2009.

Calendar of Events

September 14, 2012

Bruner Club Presents– Jennifer Struck, Pioneer HI-Bred International, Inc., 12:00 NOON, ENTO 202

September 18, 2012

Entomology Seminar—Carolina Carmargo, Entomology Graduate Student, 4:00 p.m., Nebraska East Union

September 21, 2012

Bruner Club Presents—Julie Obermeyer, UNL Career Services, 12:00 NOON, ENTO 202

September 25, 2012

Entomology Seminar – Amanda Maegli, Entomology Graduate Student, 4:00 p.m., Nebraska East Union

September 28, 2012

Bruner Club Presents– Dr. E.A. (Short) Heinrichs, INTSORMIL/Entomology Department, 12:00 NOON, ENTO 202

October 2, 2012

Entomology Seminar – TBA, 4:00 p.m., Nebraska East Union

October 5, 2012

Bruner Club Presents—Devin Bird, Dow AgroSciences

October 9, 2012

Entomology Seminar—Dr. Ivan Hiltbold, Plant Sciences Department, University of Missouri, 4:00 p.m., Nebraska East Union

October 12, 2012

Bruner Club Presents—Rod Madsen, LI-COR, 12:00 NOON, ENTO 202

October 15-16, 2012

Fall Semester Break (Student Holiday—UNL offices open)

October 19, 2012

Bruner Club Presents—Dr. Brett Ratcliffe, Entomology Department, 12:00 NOON, ENTO 202

October 23, 2012

Entomology Seminar—Ashley Yates, Entomology Graduate Student, 4:00 p.m., Nebraska East Union

October 26, 2012

Bruner Club Presents—Dr. Junwei (Jerry) Zhu, USDA-ARS, 12:00 NOON, ENTO 202

October 30, 2012

Entomology Seminar—Dr. Bob Davis, BASF Pest Control Solutions, 4:00 p.m., Nebraska East Union

November 2, 2012

Bruner Club Presents—Dr. Doug Golick, Entomology Department, 12:00 NOON, ENTO 202