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Hexapod Herald

June 2013

Department of Entomology
College of Agricultural Sciences and Natural Resources

Volume 25, No. 3

Welcome

New Distance Masters Students: **Brandon Frederick**, Omaha, NE; **Trace Hardin**, Omaha, NE; **Kaylen Reilley**, Springfield, MO; **Rachel Woods**, Collins, IA.

Ivy Hoppes is a new extension assistant who will be working with **Jim Kalisch** for the next two years. Ivy, originally from Fremont, NE, received her bachelors degree in horticulture this past May from UNL. Besides the usual extension duties, Ivy will be creating/organizing a image library that will be accessible to faculty, staff, and the general public. She shares an office with Jim in ENTO 12BB. Her email address is ihoppes@unl.edu, and her phone number is 402-472-8651.

Angela De Sapio is a new masters student working under the supervision of **Dr. Gary Brewer**. She received her bachelor's degree in environmental science from the University of Notre Dame in 2001 and her masters degree in environmental science from Marquarie University's Graduate School of the Environment in Sydney, Australia in 2012. Angela's research will be a push-pull IPM project to manage cattle flies in west-central Nebraska.

Joshua Hinman is a new masters of applied science student who will be working under the supervision of **Drs. Fred Baxendale** and **Ashley Hall**. Josh, who is from Lincoln, NE, just graduated this May with a bachelor's degree in forensic science from UNL. Josh will work to develop and optimize forensic protocols for the collection and profiling of DNA extracted from fingerprints, will generate a reference material for use with this "touch DNA" and will also be researching the effects of histone placement on the incidence of double stranded DNA breaks.

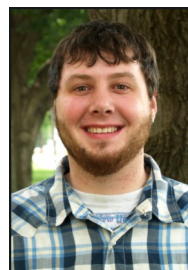
Luis Eduardo Pannuti is a visiting scholar who is working with **Dr. Tom Hunt**. Luis received his bachelor's degree in agronomy and masters degree in entomology at São Paulo State University-UNESP in Brazil. He recently started his doctoral program in entomology at UNESP with focus on the behavior of fall armyworm on transgenic and non-transgenic corn. During his time at UNL, he will be also conducting research on the behavior of fall armyworm under different corn genotypes.



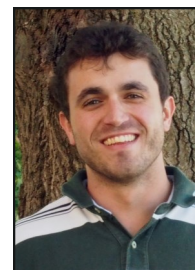
Hoppes



De Saplo



Hinman



Pannuti

Grants

Ashley Hall

Nebraska EPSCoR\$ 20,000
"Evaluation of the effects of DNA/histone interactions on the incident of strand breaks"

Shripat Kamble

Syngenta Inc.\$ 25,500
"Termite research"

North Central Branch News

The North Central Branch Meeting of the Entomology Society of America was held June 16-19, 2013, in Rapid City, SD. UNL's Entomology Department was represented well with the following awards:

"Inside the Hive" was selected as one of the winners for the 2013 Entomology Educational Project Awards. Project coordinators included **Drs. Marion Ellis, Doug Golick, Tiffany Heng-Moss, and Tom Weissling** and Aimee Johns from the Lincoln Children's Museum. **Drs. Abdul Hafiz Ab Majid and Shripat Kamble** also received an Educational Project Award for an Urban and Structural/Industrial Entomology course outline.

James Kalisch received the Special Recognition for Outstanding Service to the NCB-ESA award.

Mitch Stamm was awarded the Graduate Student Scholarship Award.

Mitch Stamm and Ralph Narain were awarded a Presidential Student Travel Scholarship.

Johan Pretorius was awarded 3rd place in the Ph.D. poster competition. **Karen da Silva** received a 2nd place, and **Camila de Oliveira** received a 3rd place in the M.S. poster competition, and **Thais Teixeira** received 1st place in the undergraduate poster competition.

Linnaean team members were **Tim Husen, Jessica Jurzenski, Wayne Ohnesorg, Johan Pretorius, and David Wangila**.



Kalisch



Stamm, Fuller



Pretorius, Fuller



da Silva, Fuller



Oliveira, Fuller

Publications

Albrecht, M., **K.M. Kneeland, E. Lindroth, and J.E. Foster**. 2013. Genetic diversity and relatedness of mangrove *Rhizophora mangle* L. (Rhizophoraceae) using amplified fragment Polymorphism (AFLP) among locations in Florida and the Caribbean. *Journal of Coastal Conservation* ISSN 1400-0350, Vol. 1.

Bauer, E. 2013. Insects in the World of Fiction. *American Entomologist*. 59(2): 95-109.

Belay, Difabachew K., Pete L. Clark, Steven R. Skoda, David J. Isenhour, Jaime Molina-Ochoa, Claudia Gianni, and John E. Foster. 2012. Spatial Genetic Variation Among *Spodoptera frugiperda* (Lepidoptera: Noctuidae) Sampled From the United States, Puerto Rico, Panama, and Argentina. *Ann. Entomol. Soc. Amer.* 105(2): 359-367.

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 applications against fall armyworm (*Spodoptera frugiperda* (Smith) Lepidoptera: Noctuidae) larvae in maize. *International Journal of Pest Management*. 58(1): 83-90.

Khajurla, C., C.E. Williams, M.E. Bouhssini, R.J. Whitworth, S. Richards, J.J. Stuart, and M.S. Chen, 2013. Deep sequencing and genome-wide analysis reveals the expansion of MicroRNA genes in the gall midge *Mayetiola destructor*. *BMC Genomics* 14:187.

Publications, con't.

Lindroth, E., T.E. Hunt, S.R. Skoda, M.D. Culy, D. Lee, and J.E. Foster. 2012. Population Genetics of the Western Bean Cutworm *Striacosta albicosta* Smith (Lepidoptera: Noctuidae) Across the United States. *Ann. Entomol. Soc. Am.* 105(5): 685-692.

Paula-Moraes, S., T.E. Hunt, R.J. Wright, G.L. Hein & E.E. Blankenship. 2013. Western Bean Cutworm Survival and the Development of Economic Injury Levels and Economic Thresholds in Field Corn. *Journal of Economic Entomology*, 106(3): 1274-1285.

Prochaska, T.J., L.M. Pierson, E.L.L. Baldin, T.E. Hunt, T.M. Heng-Moss, and J.C. Reese, 2013. Evaluation of Late Vegetative and Reproductive Stage Soybeans for Resistance to Soybean Aphid (Hemiptera: Aphididae) *Journal of Economic Entomology*, 106(2): 1036-1044.

Samarakoon, U., S.R. Skoda, F.P. Baxendale, and J.E. Foster. 2013. A Molecular Key for the Identification of Blow Flies in Southeastern Nebraska. *J. Forensic Sciences*, 58:(1) 173-178.

Vivian, Lindsay A., Michael Carvallaro, Kate Kneeland, Erica Lindroth, W. Wyatt Hoback, Kerri M. Farnsworth-Hoback, Robert R. Harms, and John E. Foster. 2013. Current known range of the Platte River caddisfly, *Ironoquia plattensis*, and genetic variability among populations from three Nebraska rivers. *Journal of Insect Conservation*. DOI 10.1007/s10841-013-9570z

Ruiz-Najera, Ramiro E., Ramiro A. Ruiz-Estudillo, Juan M. Sanches-Yanez, Jaime Molina-Ochoa, Steven R. Skoda, Roberto Coutino-Ruiz, Rene Pinto-Ruiz, Fancisco Guevara-Hernandez, and John E. Foster. 2013. Occurrence of entomopathogenic fungi and parasitic nematodes on *Spodoptera frugiperda* (Lepidoptera: Noctuidae) larvae collected in Central Chiapas, Mexico. *Florida Entomologist* 96(2): 498-503.

Congratulations

The following students graduated May 2013:

Alexa Harrod, M.S. (Advisor- Dr. Tom Weissling); Christopher Hohnholt, M.S. (Advisor- Dr. Tom Weissling); Theodore Schneski, M.S. (Advisor- Dr. Tom Weissling); Gary Torrisi, Ph.D. (Advisors- Drs. Wyatt Hoback, John Foster); Ana Vález, Ph.D. (Advisor- Dr. Blair Siegfried)

Fatima Mustafa, Ph.D. (Advisors- Drs. Wyatt Hoback, John Foster) will officially graduate in August but has returned to Pakistan where she is an assistant professor in the Department of Entomology at the University of Agriculture in Faisalabad.

Insect Science graduates were **Renee Berger** and **Elias Bloom**.

Marissa Young and Kelvin Kemp were married on June 1, 2013 in York, NE.

Teresa Donze and Ben Reiner were married on June 8, 2013 in Omaha, NE



L-R Front—Berger, Mustafa, Velez
L-R Back—Torrisi, Bloom



Young—Kemp



Donze-Reiner

Student News

David Wangila has been chosen the recipient of a 2013-2014 Milton E. Mohr Fellowship Award in the amount of \$1,000 from the Center for Biotechnology.

Karen Da Silva and **Camila de Oliveira** each received a travel support award from the Swenk Fund to attend the North Central Branch Entomological Society of America Meetings June 16-19 in Rapid City, SD.

Insect Science Club Officers for 2013–2014 are: President—**Kait Armitage**, Vice-President—**Stephanie Endrulat**, Secretary—TBD, and Treasurer—**Katie O'Brien**.

Meet an Off-Campus Student

Keith L. Haas, BCE

I am Keith Haas, and I am currently employed as a senior product development entomologist at Central Life Sciences, Dallas, Texas. As a product development entomologist, I've been able to transfer knowledge gained from past experiences in the areas of crop and area wide insect management, basic research, integrated pest management, personnel management, business operator, commodity and quarantine fumigation, and vector control to help form knowledge based solutions.



My experiences as an entomologist have expanded my reach and understanding of entomological issues and problems from a regional scale to a national scale. These experiences combined with the knowledge I've have gained as an entomology masters student at the University of Nebraska-Lincoln have increased my abilities and confidence as an entomologist.

My main interests are related to solution based integrated pest management on a national scale in the areas of vector and stored product/commodities pest management. Training and knowledge transfer are two of the most rewarding parts of my career as an entomologist.

I've been married to Heather Lomax, a very supportive and lovely lady for over 16 years. We have two awesome daughters, Emily and Theresia. The family has helped mold me into a more understanding and compassionate person.

My hobbies are extensive; just wish I had more free time. My newest hobby is participating in Triathlons, that way I can swim, bike and run all in the same day. I love water skiing, softball, fishing (any type), archery, photography, insect collecting (mainly for education based collections), gardening, and bee keeping. I'll play any sport for fun and wish I got paid to play golf!

This 'n That

The Entomology Department bowling team, The Tumblebugs, finished out the year in 3rd place. For the season, they were first overall with the highest game with handicap (751 pins) and second overall in series with handicap (1383 pins). Congratulation to **Laramy Enders** for scoring the female 2nd overall for both game (212 pins) and series (354 pins)! It was a fun year and they hope to see some new faces in the fall to add to the team. A special thanks to the vigilant team captain, **Dr. Ken Pruess**, for his dedication and willingness to provide constructive criticism!

Workshop News

A honey bee queen rearing workshop was conducted June 14-16, 2013, at the Agricultural Research and Development Center near Mead, NE. Twenty-two beekeepers, selected for their interest in raising and selling regionally adapted stocks, were provided detailed hands-on training in queen rearing techniques and bee breeding. The workshop included beekeepers from Nebraska, Kansas, Missouri and Minnesota, and most had previously completed the UNL's Master Beekeeping Program. Participants in the 2011 queen rearing workshop are already offering regionally selected stocks, and one of them (Jim Sack) helped in training the 2013 participants. Workshop leaders were **Lizette Dahlgren**, **Erin Ingram**, **Ginny Morgal**, (ISU) **Jim Sack**, and **Dr. Marion Ellis**.



Ph.D. student, **Liz Dahlgren**, teaches beekeepers how to successfully graft honey bee larvae.



Workshop presenter, **Ginny Morgal**, leads participants in arranging bees and resources in a finishing colony.



Beekeepers practice the art and science of the Doolittle method for raising high quality, locally-adapted honey bee queens.

Calendar of Events

July 4, 2013

Independence Day (Student and Staff Holiday—UNL Office Closed)

July 12, 2013

8-week and 1st 5-week Sessions End

July 15, 2013

2nd 5-week Session Begins

August 15, 2013

2nd 5-week Session Ends

August 16, 2013

Graduate Commencement, 3:00 p.m., Pinnacle Bank Arena

August 17, 2013

Undergraduate Commencement, 9:30 a.m., Pinnacle Bank Arena

August 26, 2013

Fall Semester Begins