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## Hexapod Herald - Vol. 23, No. 4, June 2011

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# Hexapod Herald

Volume 23

June 2011

Number 4

## WELCOME

New Distance Masters Students:

Summer 2011 – **Elizabeth Foley**, Aurora, CO; **John Gasparini**, Starnberg, Bayern, Germany; **Mary Ludolph**, Atlanta, IL

Fall 2011 - **Jennifer Albrecht**, Waverly, NE; **Elizabeth Simonson**, Spokane, WA

**Gabriela Cristina Alles** is a visiting graduate student from the Brazilian state of Rio Grande do Sul, who will be working in **Dr. Blair Siegfried's** lab for the next six months. She received her B.S. in Biological Sciences and her M.S. from the University of Vale do Rio dos Sinos-Unisinós. She is currently completing her Ph.D. in Conservation and Management of Ecosystems and Wildlife from the same university and is supported through a partnership with the Oswaldo Cruz Foundation and a fellowship from CAPES that is providing support for her stay in Nebraska. She has experience in microbiology and molecular biology and her Ph.D. research involves integrated management of insects with a focus on the microbial control of *Spodoptera frugiperda* with *Bacillus thuringiensis*. Gabriela will be learning techniques related to bioassay of Bt toxins and comparing activities of gut enzymes that may be associated with resistance mechanisms in European corn borer while here in Nebraska.

**Dr. Kristina Hale** has joined the USDA/ARS Agroecosystem Management Research Unit. Dr. Hale is a medical/veterinary entomologist with interests in arthropod-borne infectious diseases and livestock pests. She received her B.S. in Microbiology in 2004, her M.S. in Entomology in 2007, and her Ph.D. in Animal and Range Sciences in 2011, all from Montana State University–Bozeman. The focus of her research here will be investigating the behavior and physiology of stable flies as well as implementing and assessing novel or improved methods of management. Currently, the unit is initiating projects that will identify and characterize larval and adult endosymbionts and describe the structure and function of soil microflora required for stable fly development. They are also implementing a phenology study with the objective of explaining stable fly dispersal and overwintering. Dr. Hale's office is 305C Entomology Hall and her telephone number is 402-472-3985.

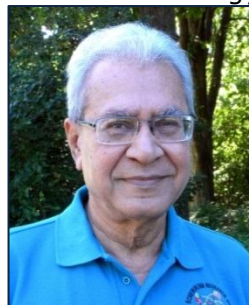
**Dr. Muhammad (Mo) Chaudhury** has returned to the USDA/ARS Agroecosystem Management Research Unit, leaving his international assignment with the USDA-ARS Screwworm Research Unit in Panama City, Panama. Mo will work in collaboration with Dr. Junwei (Jerry) Zhu on his research relative to screwworm attractants; he will also work on aspects of screwworm diet improvement and other topics as appropriate for the Screwworm Research Unit. Mo's office for now is Keim Hall, Room 125. His telephone number is 402-472-0131. After renovations in Entomology Hall and its associated facilities are completed, Mo would then be housed within the Department of Entomology.



**Gabriela Alles**



**Dr. Kristina Hale**



**Dr. Mo Chaudhury**

# CONGRATULATIONS

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The following students graduated May 2011:

**Brenda Coyle**, M.S. (Advisor – **Dr. Tom Weissling**)

**Anh Hoang**, M.S. (Advisors – **Drs. Tiffany Heng-Moss** and **Gautam Sarath**)

**Teresa Hinojos**, M.S. (Advisor – **Dr. Tom Weissling**)

**Denise Van Roekel**, M.S. (Advisor – **Dr. Tom Weissling**)

**Difabachew Belay Kondidie** Ph.D. (Advisor – **Dr. John Foster**)

**Erica Lindroth**, Ph.D. (Advisors – **Drs. John Foster** and **Tom Hunt**)

**Jesús Orozco Araújo**, Ph.D. (Advisor – **Dr. Brett Ratcliffe**)

B.S. in Diversified Agriculture – **Anthony Dallman, Branden Dux, Trent Holscher, Kane Keller, Timothy Rhoades**

B.S. in Forensic Science - **Brianna Anderson, Lindsay Bressman, Julie Carlson, Andrew Childers, Matthew Forrest, Jessica Forristall, Tiffany Garvin, Tu Ngoc Ha, Jericho Johnson, Catherine Link, Taylor Lewis, Olivia Vy Vy Nguyen, Andrea Scheibhofer**

B.S. in Insect Science – **Christina Doehling, Rachael Fithian, Morgan Kraft**

**Tim Husen** received the 2011 Outstanding Graduate Student Award from the University of Nebraska-Lincoln Chapter of Sigma Xi at their Annual Awards Banquet on April 21, 2011. Tim is a Ph.D. student working under the supervision of **Dr. Shripat Kamble**. His dissertation research topic is "Cloning and Characterization of Chitinase cDNA and Effects of Family 18 Chitinase Inhibitors on Chitinase Expression in the Eastern Subterranean Termite, *Reticulitermes flavipes* (Kollar)."

**Rachael Fithian** was one of two students selected for the ESA Plant Insect Ecosystem (P-IE) Section 2011 Undergraduate Scholarship. She will be acknowledged at the National ESA Meeting, November 13-16, 2011, in Reno, NV, where she will give an oral presentation or poster. The scholarship award includes a plaque and cash award of \$1,500.

**Dr. Sasi Maliphan** and Frank Wilhelmi were married May 7, 2011 in Germany, where Sasi has accepted a new position with BASF. Sasi received her Ph.D. in Entomology from UNL in 2006, working under the supervision of **Drs. John Foster** and **Steve Skoda**.



**Matthew Yans** and his wife, Angie, are the proud parents of a new daughter, Kennedy Georgia Yans, born June 8, 2011. Kennedy weighed 9 lbs., 3 oz., and was 22¼ inches long. Kennedy was welcomed home by big brothers, TJ and Lucas, and big sisters, Alexandra and Cassandra.



## PUBLICATIONS

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**Bradshaw, J. D.**, C. Zhang, J. H. Hill, and M. E. Rice. 2011. Landscape epidemiology of *Bean pod mottle virus*: Molecular evidence of heterogeneous sources. Archives of Virology DOI 10.1007/s00705-011-1005-0.

**Ikten, Cengiz, Steven R. Skoda, Thomas E. Hunt, Jaime Molina-Ochoa, and John E. Foster.** 2011. Genetic Variation and Inheritance of Diapause Induction in Two Distinct Voltine Ecotypes of *Ostrinia nubilalis* (Lepidoptera: Crambidae). Ann. Entomol. Soc. Am. 104(3):567-575.

**Johnson-Cicalese, Jennifer, Frederick Baxendale,** Terrance Riordan, **Tiffany Heng-Moss,** and **Lisa Baird.** 2011. Evaluation of Buffalograss Leaf Pubescence and Its Effect on Resistance to Mealybugs (Hemiptera: Pseudococcidae). Journal of the Kansas Entomological Society 84(1):71-77.

McPherson, J. E., R. J. Packauskas, R. W. Sites, S. J. Taylor, C. S. Bundy, **J. D. Bradshaw,** and P. L. Mitchell. 2011. Review of Acanthocephala (Hemiptera: Heteroptera: Coreidae) of America north of Mexico with a key to species. *Zootaxa*. 2835: 30-40.

**Paulsen, M. J.** 2011. A new species of *Parochodaeus* Nikolajev from the southwestern United States (Coleoptera: Scarabaeoidea: Ochodaeidae). *Insecta Mundi* 0184:1-4.

Prasifka, Jarrad R., Jennifer E. Buhay, Thomas W. Sappington, Emily A. Heaton, **Jeffrey D. Bradshaw**, and Michael E. Gray. 2011. Stem-Boring Caterpillars of Switchgrass in the Midwestern United States. *Ann. Entomol. Soc. Am.* 104(3):507-514. DOI: 10.1603/AN10183.

**Ratcliffe, B. C.** and W. B. Warner. 2011. A revision of the genus *Gymnetina* Casey, 1915 (Coleoptera: Scarabaeidae: Cetoniinae: Gymnetini). *Insecta Mundi* 0173:1-28.

**Spomer, Neil A.** and **Shripat T. Kamble.** 2011. Temporal Changes in Chlorantraniliprole and Indoxacarb in Four Midwestern Soils and Bioefficacy Against the Eastern Subterranean Termite (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 104(3):990-1001.

**Wright, Robert** and **Tom Hunt.** 2011. Soybean Stem Borers in Nebraska, NebGuide G2082, UNL Extension. Available online at <http://www.ianrpubs.unl.edu/sendit/g2082.pdf>

**Youm, O.,** J. F. Vayssières, A. Togola, S. P. Robertson, and F. E. Nwilene. 2011. International trade and exotic pests: the risks for biodiversity and African economies. *Outlook on Agriculture*, 40(1):59-70.

## G R A N T S

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### Jeffrey Bradshaw

- USDA-ARS ..... \$5,000  
    *"Technology Transfer for Potato Psyllids"*
- Beet Sugar Development Foundation..... \$3,200  
    *"Insect Control Research"*

### Marion Ellis

- Nebraska Department of Agriculture ..... \$18,500  
    *"Exotic bee diseases and parasites survey"*

### Marion Ellis and Lana Johnson

- UNL Extended Education and Outreach ..... \$5,000  
    *"Course Development Funding for Presentation Methods"*

### Tiffany Heng-Moss, Jon Pedersen, Tom Hunt, and Tom Clemente

- United Soybean Board ..... \$177,300  
    *"Food and Agriculture Research Experiences for Teachers – Expanding the Model Beyond Nebraska"*

### Shripat Kamble

- DuPont ..... \$5,500  
    *"Termite Research"*

### Lance Meinke

- Dow AgroSciences ..... \$4,500  
    *"Biology and Ecology of Diabrotica"*

### Gautam Sarath, Tiffany Heng-Moss, Mark Lagrimini, Jeff Bradshaw, and Guoging Lu

- USDA-NIFA-AFRI ..... \$998,030  
    *"Mitigating insect herbivory on warm-season bioenergy grasses"*

### Robert Wright, Steve Young, and Jeff Bradshaw

- USDA/North Central IPM Center..... \$9,461  
    *"Biological Control of Noxious Weeds of the North Central U.S."*

**Gary Hein** has been awarded a Research Travel Grant of \$500 to attend the 2011 American Phytopathological Society and International Plant Protection Congress Joint Meeting in Honolulu, HI on August 6 – 10, 2011.

#### Post from the Bradshaw Entomology Lab

We've had a moderate outbreak of army cutworm moths (AKA, 'miller moths') this year. A video showing the moths can be found at:

<http://panhandlepests.blogspot.com/>.

# STUDENT NEWS

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UCARE awards for 2011-2012 have been given to students listed below, along with their advisor and the amount of the award:

Insect Science students:

<b>Alex Heiden</b>	<b>Dr. Marion Ellis</b>	\$1,500 (year 2)
<b>Stephen Losey</b>	<b>Dr. Lance Meinke</b>	\$2,000 (year 1)
<b>Ginny Morgal</b>	<b>Dr. Marion Ellis</b>	\$2,000 (year 1)
<b>Courtney Spilker</b>	<b>Dr. Tiffany Heng-Moss</b>	\$2,000 (year 1)

Forensic Science students:

<b>Levi Borrego</b>	<b>Dr. Ashley Hall</b>	\$1,500 (year 1)
<b>Kaitlin Leslie</b>	<b>Dr. David Carter</b>	\$2,000 (year 2)
<b>Mong-Kuen Sun</b>	<b>Dr. Ashley Hall</b>	\$1,500 (year 1)
<b>Qiuhan Wang</b>	<b>Dr. David Carter</b>	\$2,000 (year 1)

## Lawrence Bruner Club News from Jess Jurzenski

Newly elected officers for 2011-2012 are: President-**Liz Dahlgren**, Vice-President-**Travis Prochaska**, Secretary-**Julianne Matczyszyn**, and Treasurer-**Ken Miwa**. Faculty representatives are **Drs. Steve Danielson** and **Nick Miller**.

## Insect Science Club News from Ginny Morgal

The Insect Science Club visited the Omaha Henry Doorly Zoo's insect and butterfly pavilion for a behind the scenes tour. The club members along with **Drs. Tiffany Heng-Moss** and **Tom Weissling** ventured into the insect rearing rooms and got to hold some exotic insects.

Club elections were held on April 4. Newly elected club officers are: President-**Ginny Morgal**, a senior insect science major; Vice President-**Andy Matz**, a senior insect science major; Secretary-**Stephen Losey**, a senior insect science major; and Treasurer-**Katie O'Brien**, a freshman insect science major.

The club is organizing a donation to Spring Creek Prairie for insect collecting. **Katie O'Brien, Jenny Freed**



UNL Entomology T-Shirts and polo shirts are still available through the Insect Science Club. The T-Shirts are \$8.00 and the polo shirts are \$29.00. T-Shirts are available immediately; polo shirts are made per order and must be paid for before the order can be placed. Please allow 2-3 weeks for delivery of the polo shirts. Contact Ginny Morgal at Ginrose82@gmail.com to order.

# MEET AN OFF-CAMPUS STUDENT

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Off-Campus M.S. Student – **Erin Bauer**

I work as the Extension Associate in the Pesticide Education Office at the University of Nebraska-Lincoln. Born in Ames, IA, I've lived in South Carolina, Minnesota, Wyoming, Illinois, and Nebraska. My love of insects began at an early age. I recall her father telling me that he took me to the zoo once when I was around two years old and showed me a walking stick. Apparently I was completely fascinated, and that newfound interest in insects continued to grow and has always stayed with me.

While in South Carolina as a small child, I remember seeing a diverse number of insects, from cockroaches to sand fleas. I also had the misfortune of being stung by fire ants when I was walking barefoot on the sidewalk. My natural curiosity got me in trouble when I disturbed their mound.



My educational background includes earning my bachelor's degree in education from the University of Nebraska at Omaha in 1995 and my MLIS (masters of library and information science) from Rosary College (now Dominican University) in River Forest, IL, in 1996.

I joined the Pesticide Education Office staff in 2004 and have been involved in Integrated Pest Management (IPM) and Pesticide Education since that time. I've worked on revising pesticide training manuals and videos, creating PSEP dramatization videos, developing web-based IPM learning modules, visiting IPM pilot schools, and scriptwriting and voice work for a "Pest Private Eye" video game, which teaches children about IPM. You can read more about the IPM efforts on my blog at <http://nebraskaschoolipm.blogspot.com>

My job allows me to combine my interest in insects with the writing, teaching, and research skills I've obtained through my education and MLIS degrees. Pursuing a Masters in Entomology seemed like the next logical step, and I've received a lot of encouragement and support from my university colleagues to work on the degree. I'm excited to become an entomologist! It's something I have thought about for a long time, and I can apply knowledge I gain in this program both to my job and in helping friends and family who have insect questions.

In addition to insects, I love reading, especially murder mysteries by authors such as Conan Doyle, Agatha Christie, Carrie Bebris and Lisa Lutz. I hope to one day write a murder mystery of my own, perhaps even using insects as a theme. I also enjoy going to plays, movies, museums, and dining out. I also volunteer at the Lincoln Children's Zoo in the Butterfly House during the summer.

## ***T R A V E L***

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**Dr. Jeff Bradshaw** traveled to Landskrona, Sweden April 20 - May 1, 2011, and presented a talk at the Syngenta sugar beet variety development facility regarding root aphid resistance.

**Dr. Shripat Kamble** attended the South Eastern Branch of the Entomological Society of America Annual Meeting, March 19-22, 2011 in San Juan, Puerto Rico. At this meeting, he co-organized and co-moderated the Urban Entomology Symposium. He also presented the research paper, "Temporal changes in chlorantraniliprole and indoxacarb in four soils and bioefficacy against the eastern subterranean termites."

**Dr. Matt Paulsen** was collecting in mainland Japan and Okinawa for three weeks in May.

**Craig McGill**, academic advisor for Biochemistry and Forensic Science, presented "Transcending Normal: Enriching the Experience of the Mobile Student through Strengthened Articulation Agreements" at the April 2011 Region V National Academic Advising Association (NACADA) Conference in Normal, IL. He also gave two presentations, "Transcending Boundaries: Enriching the Experience of the Mobile Student through Strengthened Articulation Agreements" and "The LGBT Student Support Process through Graduation Persistence" at the May 2011 Region VI NACADA Conference in Winnipeg, MB, Canada.

## ***C O N D O L E N C E S***

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**Sheri Svehla**, a Ph.D. graduate student in the Entomology Department, passed away on June 3, 2011, in Lincoln, NE, after a long battle with breast cancer. Sheri, who was working under the supervision of Dr. Leon Higley, had completed all of her graduate requirements and will be awarded her Ph.D. degree posthumously at the August graduation ceremony. Leon stated that "Sheri was the heart of my research group, advising new graduate students and undergraduates, ensuring that everything on the project worked smoothly, and remaining curious and enthusiastic about entomology." Our sincerest sympathies go out to Sheri's children and families and her parents.