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## Hexapod Herald – Volume 19, Number 3, June 2007

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# Hexapod Herald

Volume 19

June 2007

Number 3

## WELCOME

New Distance Masters Students:

Fall 2007: **Teresa Madrid**, El Paso, TX; **Tiffany Mauro**, Hillside, NJ

**Khanobporn "Kim" Tangtrakulwanich** is a new Ph.D. student working under the supervision of **Dr. John Foster**. Kim received her M.S. in Ecology in 1999, and her B.S. in Nursing and Midwifery in 1991 from the Prince of Songkla University in Thailand.

**Jeremy Wagnitz** will be pursuing his M.S. degree under the supervision of **Dr. Marion Ellis**. Jeremy received his B.S. from UNL this past May, majoring in Horticulture and minoring in Insect Science.



## CONGRATULATIONS

The following students graduated May 5, 2007:

Resident - **Thomas Eickhoff**, Ph.D. (Advisors - **Drs. Fred Baxendale** and **Tiffany Heng-Moss**)  
**Rosana Serikawa**, M.S. (Advisors - **Drs. John Foster** and **Gary Hein**)  
**Sheri Svehla**, M.S. (Advisors - **Drs. Leon Higley** and **Tom Hunt**)

Distance - **Frances (Casey) Burks**, **Christopher Logue**, **Stephanie Mallozzi**, **Brian Mount**, **Michele Phillips**, **Douglas Ruby**, and **Toni Taylor**

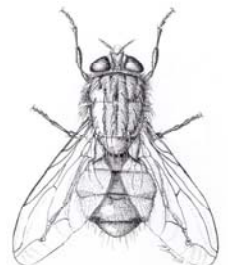
Undergraduate insect science minors - **Sarah Mack**, **Jeremy Wagnitz**

**Dr. W. Wyatt Hoback** has been promoted to Professor at the University of Nebraska-Kearney, effective August 15, 2007.

**Dr. Matthew Paulsen** started a new position at the Florida State Department of Arthropods, Bureau of Entomology, Nematology & Plant Pathology in Gainesville, FL on May 25. Matt received his Ph.D. here in 2006, under the supervision of **Drs. Mary Liz Jameson** and **Brett Ratcliffe** and had been working at the University Museum. Congrats and a fond farewell to Matt!

**Drs. George Manglitz**, **Kenneth Pruess**, and **Earle Raun** have been members of the Entomological Society of America (ESA) for at least 50 continuous years and were recognized for this achievement in the June 2007 ESA Newsletter.

**Tierney Brosius'** pen and ink on scratchboard of a *Calliphora vicina* was selected for display in the Guild of Natural Science Illustrators (GNSI) 2007 Annual Members Exhibition to be held July 16-30, 2007, at Montana State University, Bozeman, MT. This yearly exhibit is a juried show of the best illustrations created by GNSI members. Tierney completed this illustration in the 2005 Scientific Illustration course. She is also Vice-President of the Great Plains Chapter of the Guild of Natural Science Illustrators.



# ***FROM GARY'S DESK***

by Dr. Gary Brewer

In August of 2006, I came home to the Entomology Department when I was given the privilege of returning as Department Head. A lot has changed since I received my M.S. from this department in 1978, but one thing has remained the same, the Entomology Department continues to do great work and be a great place for students. Let me tell you about a few of the recent highlights.

Our first insect science graduate, **Lanae Pierson**, transitioned into our M.S. program. She was joined by **Sandra Schaeffer** and **Mitch Stamm**, who minored in insect science. The insect science major will begin its second year this fall with an expected 20 students.

The Forensic Science major proposal quickly moved through the approval process and will have its official start this fall. **Dr. David Carter**, who moved into an assistant professor position in April, will be leading the major. Another new curriculum venture for Entomology is our participation in the Cooperative Program in Veterinary Medicine. Beginning this fall, Nebraska veterinary students will spend their first two years in Lincoln before going to Iowa State University for their final two years of clinical practice. We're currently searching for a parasitologist to teach second year veterinary students.

**Dr. Tom Weissling** joined the Entomology Department last summer to coordinate our distance degree program. The distance M.S. continues to be a model for success for UNL and a model program for the discipline of entomology.

Our graduate students demonstrated the breadth and depth of their entomological knowledge by taking 1<sup>st</sup> Place at the National Linnaean Games at the 2006 Indianapolis ESA meeting. The team will return to the national stage at the 2007 ESA meeting in San Diego after taking 2<sup>nd</sup> place at the NCB ESA meeting at Winnipeg, Manitoba. The 2007 Linnaean Team competition will be our second consecutive appearance on the national stage.

Other good news includes our 10<sup>th</sup> annual *Bug Bash* at the Children's Zoo last September and the just recently inaugurated interactive exhibit at the Lincoln Children's Zoo called *Bug Buddies*. **Drs. Tiffany Heng-Moss** and **Marion Ellis**, along with zoo personnel, Mimi Wickless and John Chapo, developed the new attraction.

Our neighbors in Plant Industry - members of the Nebraska Forest Service and the School of Natural Resources - are moving out, and the entire building will be for our use. Rumor is that the Plant Industry Building will be renamed Entomology Hall.

One final item, **Dr. Tiffany Heng-Moss**, who leads our Insect Science Major, received a USDA Food and Science Excellence in Teaching award. The award was presented at the annual meeting of the National Association of State Universities and Land Grant Colleges meeting in Houston, TX in November 2006. Tiffany generously used her cash prize to endow a new scholarship, The Insect Science Scholarship Fund. Donations are welcome!

## ***PUBLICATIONS***

**Alves, Analiza P. e Rosana H. Serikawa.** 2006. Controle quimico de pragas do algodoeiro. Revista Brasileira de Oleaginosas e Fibras 10(3): 1197-1209. <http://www.cnpa.embrapa.br/rbof/fasciculos.php>

**Baxendale, Frederick P. and Tiffany M. Heng-Moss.** 2007. Chinch Bugs, p. 63-67. *In:* Lamp, William O., Richard C. Berberet, **Leon G. Higley**, and Craig R. Baird (eds.), Handbook of Forage and Rangeland Insects. Entomological Society of America, Lanham, MD.

The following publications by **Julia Colby** were all in **B.C Ratcliffe** and **M.L. Jameson** (eds.) *Generic Guide to New World Scarab Beetles* (URL: <http://www-museum.unl.edu/research/entomology/Guide/Guide-introduction/Guideintro.html>)

**Colby, Julia B.** 2007. *Aegidium* Westwood, 1846 (Coleoptera: Scarabaeidae: Orphninae). (URL: <http://www-museum.unl.edu/research/entomology/Guide/Scarabaeoidea/Scarabaeidae/Orphninae/Orphninae-generic-pages/Aegidium/Aegidium.html>).

**Colby, Julia B.** 2007. *Aegidinus* Arrow, 1904 (Coleoptera: Scarabaeidae: Orphninae). (URL: <http://www-museum.unl.edu/research/entomology/Guide/Scarabaeoidea/Scarabaeidae/Orphninae/Orphninae-generic-pages/Aegidinus/Aegidinus.html>).

**Colby, Julia B.** 2007. *Paraegidium* Vulcano, Pereira, and Martínez, 1966 (Coleoptera: Scarabaeidae: Orphninae). (URL: <http://www-useum.unl.edu/research/entomology/Guide/Scarabaeoidea/Scarabaeidae/Orphninae/Orphninae-generic-pages/Paraegidium/Paraegidium.html>).

**Colby, Julia B.** 2007. *Aegidiellus* Paulian, 1984. (Coleoptera: Scarabaeidae: Orphninae). (URL: <http://www-museum.unl.edu/research/entomology/Guide/Scarabaeoidea/Scarabaeidae/Orphninae/Orphninae-generic-pages/Aegidiellus/Aegidiellus.html>).

**Colby, Julia B.** 2007. Key to genera of Orphninae (Scarabaeidae). (URL: <http://www-museum.unl.edu/research/entomology/Guide/Scarabaeoidea/Scarabaeidae/Orphninae/Orphninae-Key/OrphninaeK.html>).

**Higley, Leon G.** 2007. Identification of Arthropods and Diagnosis of Injury, p. 33-40. *In:* Lamp, William O., Richard C. Berberet, **Leon G. Higley**, and Craig R. Baird (eds.), Handbook of Forage and Rangeland Insects. Entomological Society of America, Lanham, MD.

**Ikten, Cengiz and John E. Foster.** 2006. Genetic Analysis of Resistance to European Corn Borer (*Ostrinia Nubilalis* Hub. Lepidoptera: Crambidae) Damage in Eight Maize Germplasm. Akdeniz Üniversitesi Ziraat Fakültesi Dergisi 19(1): 69-73.

Lamp, William and **Leon Higley.** 2007. Integrated Pest Management, p. 28-33. *In:* Lamp, William O., Richard C. Berberet, **Leon G. Higley**, and Craig R. Baird (eds.), Handbook of Forage and Rangeland Insects. Entomological Society of America, Lanham, MD.

**Martinelli, S., P.L. Clark, M.I. Zucchi, M.C. Silva-Filho, J.E. Foster, and C. Omoto.** 2007. Genetic structure and molecular variability of *Spodoptera frugiperda* (Lepidoptera: Noctuidae) collected in maize and cotton fields in Brazil. Bulletin of Entomological Research 97(3): 225-231.

**Oyediran, Isaac O., Thomas L. Clark, Steve R. Skoda, Elvis A. Heinrichs, and John E. Foster.** 2007. Utility of Morphological and Molecular Techniques for Determination of Paternity in Two Subspecies of *Diabrotica undecimpunctata* (Coleopera: Chrysomelidae). J. Entomol. Sci. 42(2): 174-184.

## ***FACULTY NEWS***

**Dr. Marion Ellis** will speak to the British Beekeepers Association on June 27 in Somerset, England about techniques for using oxalic acid to manage varroa mite populations. On June 30, he will travel to Belfast, Ireland to speak to the Northern Ireland Beekeepers Association about the impact of changes in the

almond pollination enterprise in the U.S. and its effect on honey bee health. Dr. Ellis was also recently interviewed for an article in the May 18 issue of *Science* on the honey bee colony collapse disorder.

**Dr. Jack Campbell** will really be retiring this summer after 41 years of service to the University of Nebraska. Jack first "retired" from his position as Research and Extension Entomologist at the University of Nebraska's West Central Research and Extension Center on June 30, 2003. He has continued to work on a part-time basis at the Center. Jack's last day will be June 30.

**Dr. Mary Liz Jameson** gave the presentation, "Scarab beetles and angiosperms: co-evolution, exploitation, and associations" on February 15 at the Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS.

**Dr. Bob Wright** participated in a grant review panel for the USDA's Southern IPM Center on May 30 in Baltimore, MD. Bob also participated in the annual meeting of the USDA regional committee on IPM, NCERA 201, April 10-11 at Minneapolis MN. Wright is the 2007-2009 chair of the committee.

**Dr. Jaime Molina-Ochoa** was recently recognized by the Universidad de Colima in Tecomán, Colima, Mexico for 25 years of service to education in the State of Colima, particularly in the School of Biological and Agricultural Sciences.

## ***GRADUATE STUDENT NEWS***

**Tim Husen** and **Neil Spomer** each received a Ward A. and Helen W. Combs Scholarship in the amount of \$300.

**Nick Aliano** and **Jeremy Wagnitz** were invited speakers at the Northeastern Kansas Beekeepers' Association Funday, June 2 in Lawrence, KS.

**William (Matt) Herrmann**, a distance student in the M.S. in Entomology program, will be collecting and studying in Panama during June and July. He is specifically looking to observe *D. hercules* and *M. elphas* and collect both in the hope of obtaining eggs. He will also be observing bees in the genera *Euglossa* and *Eufriesea*.

**Analiza Alves** has been awarded a Milton E. Mohr Scholarship from the UNL Center for Biotechnology and the College of Engineering and Technology in the amount of \$1,000 for academic year 2007-2008.

**Nick Aliano** has been awarded a Maude Hammond Fling Fellowship from Graduate Studies for academic year 2007-2008. The fellowship carries a stipend of \$20,000 as well as payment of tuition, fees, and the University's portion of the student's health insurance premium for basic individual coverage.

**Julia Colby** has been awarded an Ernst Mayr Travel Grant in Animal Systematics for \$1,500 from Harvard University for travel support for the study and curation of specimens in European museums.

**Analiza Alves**, **Andre Crespo**, **Michael Fisher**, and **Julie Colby** each received a David H. & Annie E. Larrick Student Travel award in the amount of \$500 for their attendance at the ESA meeting in San Diego, CA on December 9-12, 2007.

Newly elected Bruner Club Officers are: President - **Tim Husen**, Vice President - **Andre Crespo**, Secretary - **Sek Yee Tan**, Treasurer - **Julia Colby**, and Student Representative - **Analiza Alves**. Drs. **Blair Siegfried** and **David Carter** were elected as the faculty representative/advisor.

# UNDERGRADUATE STUDENT NEWS

UCARE awards for 2007-2008 have been given to the students listed below, along with their advisor and the amount of the award.

<b>Jeff Hays</b>	<b>Fred Baxendale</b>	<b>\$2,000 (Year 1)</b>
<b>Matthew Moore</b>	<b>Blair Siegfried</b>	<b>\$2,000 (Year 1)</b>
<b>Ashley Effken</b>	<b>Tiffany Heng-Moss</b>	<b>\$2,400 (Year 2)</b>

**Dori Porter** was awarded \$751 from the Earl & Bertha Ramsey Memorial Fund and \$970 from the Fred Clute Memorial Scholarship Fund. **Ashley Effken** and **Ransom Sitz** each received \$250 from the Fred Clute Memorial Scholarship Fund. **Matthew Moore** received \$200 from the Fred Clute Memorial Scholarship Fund and \$50 from the Insect Science Scholarship Fund. **Crystal Ramm** also received \$250 from the Insect Science Scholarship Fund.

## GRANTS

### John Foster

- USDA-ARS ..... \$34,500  
*"Risk of Western Corn Rootworm Adaptation to Transgenic Corn"*

### Lance Meinke

- Monsanto Company..... \$25,000  
*"Rootworm Management in High Pressure Situations in a Nebraska Trap Crop"*
- Pioneer Hi-Bred International, Inc. .... \$46,078  
*"2007 External Collaborator Corn Rootworm Adult Fitness Study"*
- Syngenta Seeds, Inc. .... \$22,000  
*"MIR604: Refuge Strategy Adult Emergence Tent Studies"*
- Syngenta Seeds, Inc. .... \$22,000  
*"MiR604/Bt11: Corn Rootworm Control and Yield Performance in Mid Maturity Field Corn"*

S. Scott, S. Harris, S. Henniger, **M.L. Jameson-Russell**, E. Moriyama, **F. Ocampo**, and L. Soh

- University of Nebraska Layman Fund ..... \$10,000  
*"SCID: Semantic Cyberinfrastructure to Support Investigation and Discovery"*

### Blair Siegfried

- USDA-ARS ..... \$50,951  
*"Risk of Western Corn Rootworm Adaptation to Transgenic Corn"*

### Robert Wright

- Syngenta Seeds, Inc. .... \$19,000  
*"MIR604: Efficacy in Refuge Strategies"*
- USDA-APHIS..... \$25,907  
*"Grasshoppers of the Western United States: Electronic Identification and Information Tool Development"*
- Monsanto ..... \$6,300  
*"Protocol 2007-01-30-02 YieldGard VT PRO EUP - 2007"*

## TRAVEL

**Dr. Mary Liz Jameson** traveled to Bozeman, MT for the Beetle Tree of Life Workshop from May 20-25. Jameson is a collaborator on this NSF initiative that aims to provide a robust phylogenetic hypothesis for beetle families and subfamilies based on molecular and morphological data. It is anticipated that results of this research will provide a framework understanding beetle diversification and evolution.

Dr. Brett Ratcliffe traveled to Japan from May 21-June 2 to visit with colleagues and return to his childhood collecting haunts.

Dr. Mary Liz Jameson, Julia Colby, and Matt Moore (NSF-Research Experience for Undergraduates in Entomology) traveled to the Central States Entomology meetings in Emporia, KS as well as Kansas State University, Manhattan, KS to study collections from April 20-21.

## ***MEET A DISTANCE STUDENT***

***Stephanie D. Mallozzi*** - a (former!) distance student

I live in Dutchess County, NY which is about 70 miles north of NYC. Far enough away to appreciate the city, but not close enough to have to deal with metropolitan congestion! I grew up in the Bronx, Queens, Rockland County, and since graduating from college have lived in Dutchess County for 28 years. I am married to my high school sweetheart Andy, have two sons, Chad (21) and Alex (16) and two Labrador retrievers, Mookie and Wilson. We are big NY Mets fans, and Mookie Wilson was one of our favorite players! Mook and Wilson spent many a day and night under my dining room table on my feet as I did school work!



As a Horticulture Extension Educator for Cornell Cooperative Extension, Dutchess County, NY, one of my responsibilities includes diagnostics. I love the diagnostic aspect of horticulture rather than the cultural aspect! If a plant is healthy, to me that's boring! During my 28 years as an extension educator, I had oftentimes felt like a "Jack of All Trades" and "Master of None"! I have to know a little about a lot! Several years ago, my position was re-classified to require a masters degree. At the time of this re-classification, I had 22 years in the Cornell Cooperative Extension system and to be exempt from this requirement, one had to have been in the system a minimum of 25 years. So I found myself in the position of having to obtain a masters degree. I looked into several programs and initially thought it would be in my best interest to obtain a masters degree in a more "marketable" generic or global subject, such as education or public administration. I felt obtaining this type of degree would allow me more flexibility, should I decide to leave the extension system. When I looked at these programs, I found them to be confusing, too philosophical, and not very practical. I also explored many on-line programs, because I was not in a position to relocate for the duration of my studies. I then happened upon the University of Nebraska distance Masters in Entomology and instantly fell in love! After all, I have been doing diagnostics my entire extension career and felt very comfortable with the entomology subject matter. I even thought I could teach some of these courses! So, a Masters Degree in Entomology allows me to now know *a lot about a little, instead of a little about a lot!* The "little" is entomology and the "a lot" is in-depth knowledge of one subject! After all these years as an extension educator, I am now finally able to refer to entomology as my specialty!

I started my journey in the spring of 2003. I had much trepidation, as I had not been back to school in 25 years (ok...you do the math to guess my age!!!!). Much to my surprise my trepidation turned into passion...passion for learning and passion for "giving back". One of the biggest surprises of this journey (for me) is I felt I could "give back". I truly felt my experience and knowledge gained during my tenure as an extension educator offered a contribution to the classes I took! Who knew?! I've met some wonderful co-students who have become good friends. I was also lucky to take this journey with two colleagues from Cornell Cooperative Extension...so we were able to commiserate on a regular basis as well as partner on projects.

I work with Christmas tree farmers in the Hudson Valley of New York. I had implemented an IPM education program to teach farmers how to scout and monitor for Christmas tree pests. So it was a logical choice to choose the creation of an IPM Guide for Christmas tree growers as my Master's project.

The NYS IPM program liked my guide and recently applied for a Northeast states collaborative grant to expand the guide to include a weed section and pine section. It currently covers arthropod pests, diseases, abiotic disorders, and vertebrate pests and is contained in a three ring binder, so it can conveniently be updated if necessary. The manual covers Douglas fir, true firs and spruce. Most of the growers I work with in the Hudson Valley have either phased out of growing pines or do not grow them. I am thrilled to say the grant was awarded, and the guide I created is going to be the "guts" of an expanded guide, (it now stands at 92 pages!) and I will be listed as a principle author! The guide will also be professionally printed, once it is expanded.

As I have said to several UNL colleagues as well as friends, I may work for Cornell, but my heart belongs to the Huskers, and my diploma will hang proudly in my office.

## ***FROM THE OFFICE***

**Revision in HR job ads language.** Previously when filling staff positions, we posted our jobs with "Valid Nebraska Driver's License required." In the future, language based on the new Transportation Services Driving Policy will be used instead. This statement will be used any time we post a position "**where duties include a substantial amount of vehicle operation.**" In these instances "**job offers will be made contingent on obtaining an acceptable driving record.**"

The building abbreviation for the Plant Industry Building is now **PIND**.

### Retirement Party for Dr. John Witkowski

Please join us in celebrating with Dr. John Witkowski on Friday, July 20, at the Wayne Country Club in Wayne, NE. We plan to start with a golf outing earlier in the day. Please contact Dr. Terry Mader at 402-584-3812 or [tmader1@unl.edu](mailto:tmader1@unl.edu) if you are interested in golfing, since the number of interested parties will affect the planning of the event. Social (cash bar) is planned to start at 7:00 p.m. with a steak fry to follow at 8:00 p.m. Cost for the steak fry is \$30.00/person. Please send reservations and checks made payable to Judy Rastede to Judy @ NEREC, 601 E Benjamin Ave, Ste 104, Norfolk NE 68701-0812. Reservations need to be placed by July 10 .

We are planning a book of letters. Please send flat (unfolded) to Ann Fenton, UNL Extension in Pierce County, 111 W Court St, Rm 13, Pierce, NE 68767-1224. In lieu of gifts, John has requested that donations be made to the NEREC fund or the NE arboretum fund, both through the UNL Foundation. If you wish to contribute, those checks need to be made payable to UNL Foundation and may also be sent to Judy Rastede. We hope to see you there! If you have questions or need assistance please feel free to contact Judy Rastede (402) 370-4002, [jrastede1@unl.edu](mailto:jrastede1@unl.edu), Charles Shapiro (402) 584-3803, [cshapiro1@unl.edu](mailto:cshapiro1@unl.edu), or Ann Fenton (402) 329-4821, [afenton1@unl.edu](mailto:afenton1@unl.edu)

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