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Hexapod Herald

February 2013

Department of Entomology
College of Agricultural Sciences and Natural Resources

Volume 25, No. 1

Welcome

New Distance Masters Students: **John Eads**, Baden-Württemberg, Germany; **Hillary Guzik**, Valhalla, NY; **Christopher Mortenson**, Edina, MN; **Dustin Stockmann**, Ofallon, MO; **Katharine Wilson**, Lemoyne, NE.

New Insect Science Students: **Justine LaViolette**, Fenton, MO; **Elliot Knoell**, La Vista, NE; **Bonnie Kurtenbach**, Fairfax, VA; **Breanne Lewis**, Lincoln, NE

Jenny Freed is a new masters student working under the supervision of **Drs. Tiffany Heng-Moss** and **Tom Hunt** on developing a reduced agent and area treatment strategy (RAATs) for soybean aphid management. Jenny received her B.S. degree in horticulture and insect science from UNL this past December.

Zachary Rystrom is a new masters student from Stromsburg, NE who will be working under the supervision of **Dr. Bob Wright**. Zach graduated from UNL in December with a B.S. in diversified agriculture and minors in integrated pest management and agronomy. Zach's project is researching the seasonal occurrence and distribution of the soybean stem borer, *Dectes texanus*.

Thais Moreira Teixeira is an undergraduate student from Federal University in Vicosia, MG, Brazil majoring in Agronomy. She has worked with **Dr. Ellseu Perira** (Ph.D. 2006) on entomological projects and was awarded a Science without Borders fellowship from the Brazilian government. She will be working in **Dr. Blair Siegfried's** lab for the next 12 months.

Dr. Everlyne Wosula is a new post-doc working with **Dr. Gary Hein**. Dr. Wosula received her Ph.D. in Plant Pathology from Louisiana State University in December where she worked on the dynamics of aphid-vectored viruses of sweetpotato. She had previously received her B.S. and M.S. degrees in Horticulture from Jomo Kenyatta University and had worked at ICIPE (International Center for Insect Physiology and Ecology) in Nairobi, Kenya. As part of a large regional project, she will be working across the Plant Pathology and Entomology Departments and with ARS virologists to study vector dynamics and virus epidemiology of a complex of mite-transmitted viruses in wheat.



Freed



Rystrom



Teixeira



Wosula

Congratulations

The following students graduated in December 2012:

Abdul Hafiz Ab Majid, Ph.D. (Advisor: **Dr. Shripat Kamble**)

Timothy Husen, Ph.D. (Advisor: **Dr. Shripat Kamble**)

Lia Marchi, M.S. (Advisors: **Drs. Tiffany Heng-Moss, Tom Hunt**)

Muhammad Irfan Ullah, Ph.D. (Advisors: **Drs. John Foster, Wyatt Hoback**)

Eric Anderson, Tiffany Mauro, Dennis Wilson, Distance M.S.,
(Advisor: **Dr. Tom Weissling**)

Toni Brady, Andrew Ekstein, B.S. in Applied Science; **Chance Raichart, Zachary Rystrom, Matthew Smith**, B.S. in Diversified Agriculture; **Jenny Freed**, B.S. in Insect Science



Irfan, Jenny, Hafiz, and Tim

Congratulations, con't.

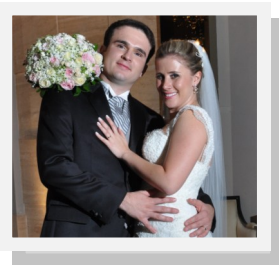
Dr. Tom Weissling has been selected to receive the 2012 IANR Dinsdale Family Faculty Award. Dr. Weissling will receive a cash award of \$2,000 and will be honored at the IANR Awards Luncheon on April 17, 2013.

Lia Marchi and **Rodrigo Werle** were married December 29, 2012 in Limeira—SP Brazil. **Dr. Tom Hunt, Jenny Freed, Crystal Ramm, and Rachael (Fithian) and Ransom Sitz** all traveled to Brazil to celebrate with Lia and Rodrigo.

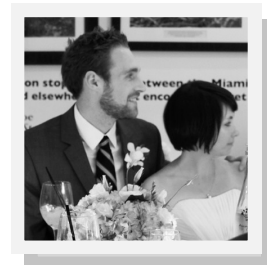
Ana Maria Velez and **Justin McMechan** were married December 20, 2012 in Miami, FL. They honeymooned in Jamaica (along with Justin's family).

David Wangila and **Elizabeth Nyongesa** were married January 2, 2013, at the Nambale Anglican Church of Kenya. David said wedding invitations are sent out as a formality, but everyone is welcome. As a result, weddings in the Kenyan suburbs usually have about 80% of the guests just showing up. Because the wedding was during the week and so close to the New Year holiday, they only had hundreds (instead of thousands) attend their wedding.

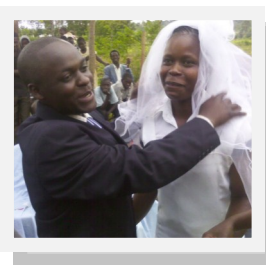
Wayne Ohnesorg and his wife, **Gina**, are the proud parents of a baby boy, **Garrett John**, born October 23, 2012. Garrett weighed 8 lbs, 5 oz., and was 21 inches long.



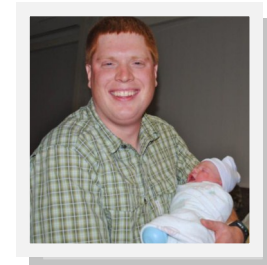
Marchi-Werle



Velez-McMechan



Nyongesa-Wangila



Ohnesorg

Faculty News

Dr. Fred Baxendale is the new director of the Forensic Science Program and will serve in this capacity for the next two years.

Dr. Shripat Kamble was recognized in the December 2012 issue of the Pest Management Professional magazine in their feature called "difference makers".

Grants

Lizette Dahlgren, Marion Ellis, Blair Siegfried

National Honey Board \$11,000
"Acaricide Tolerance by Diutinus and Non-Diutinus Workers"

Shripat Kamble

Dow AgroSciences \$ 5,000
"Termite Research"

FMC \$ 6,250
"Termite Research"

Lance Meinke

AMVAC Chemical Corporation \$ 7,500
"Biology, Ecology, and Management of Diabrotica"

Blair Siegfried

Pioneer Hi-Bred International \$ 7,500
"Toxicology Lab"

Robert Wright

Valent, USA \$ 5,000
"Crop Insect Management Research"

Publications

Brust, M.L., C.B. Knisley, S.M. Spomer, and K. Miwa. 2012. Observations of Oviposition Behavior Among North American Tiger Beetle (Coleoptera: Carabidae: Cicindelinae) Species and Notes on Mass Rearing. *The Coleopterists Bulletin* 66(4): 309-314.

Brust, M.L., W.W. Hoback, and S.M. Spomer. 2012. Splendid hybrids: the effect of a tiger beetle hybrid zone on apparent species diversity. *Psyche*, Vol. 2012. Article ID 398180, 10 pp.

Clark, T.L., D.L. Frank, B.W. French, L.J. Meinke, D. Moellenbeck, T.T. Vaughn, and B.E. Hibbard. 2012. Mortality impact of MON863 transgenic maize roots on western corn rootworm larvae in the field. *J. Appl. Entomol.* 136(10): 721-729.

Dahlgren, Lizette, Reed M. Johnson, Blair D. Siegfried, and Marion D. Ellis. 2012. Comparative Toxicity of Acaricides to Honey Bee (Hymenoptera: Apidae) Workers and Queens. *Journal of Economic Entomology.* 105 (6): 1895-1902.

Dupuis, F., J.C. Neita, and B.C. Ratcliffe. 2012. Synonymic note on the genus *Palaeophileurus* Kolbe, 1910 (Coleoptera, Dynastidae). *Bulletin de la Société Entomologique de France* 117: 460.

Paula-Moraes, S.V., T.E. Hunt, R.J. Wright, G.L. Hein, and E.E. Blankenship. 2012. On-Plant Movement and Feeding of Western Bean Cutworm (Lepidoptera: Noctuidae) Early Instars on Corn. *Environ. Entomol* 41 (6): 1494-1500.

Tiroesele, Bamphitlhi, Thomas E. Hunt, Robert Wright, Erin E. Blankenship, and John E. Foster. 2012. The soybean aphid, *Aphis glycines* (Hemiptera: Aphididae): Population dynamics on edamame soybeans in Nebraska, USA. *African Journal of Agricultural Research*, Vol. 7(44): 5912-5918.

Wangila, David S., B. Rogers Leonard, Yaoyu Bai, Graham P. Head, and Fangheng Huang. 2012. Larval survival and plant injury of Cry1Ab-susceptible, -resistant, and -heterozygous genotypes of the sugarcane borer on transgenic corn containing single or pyramided Bt genes. *Crop Protection* 42: (2012) 108-115.

Zhang, L., F. Huang, B.R. Leonard, Y.C. Zhu, D.S. Wangila, Fei Yang, and Ying Niu. 2012. Susceptibility of Cry1Ab maize-resistant and -susceptible strains of sugarcane borer (Lepidoptera: Crambidae) to four individual Cry proteins. *Journal of Invertebrate Pathology* 112(3): 267-272.

Meet an Off Campus Student

Christopher Hohnholt

I'm **Christopher Hohnholt** and I serve as the Director of Development and Outreach for the School of Forest Resources and Environmental Science at Michigan Technological University. I'm married to Courtney, and we have three daughters: Olivia, Naomi, and Chloe. I'm an Air Force veteran, and I live in the Michigan Upper Peninsula where I enjoy exploring the north woods with my family and our dog, Harper. I enjoy riding horses and getting to coach my children's soccer teams. When I'm not outside, I like to read articles and books on corporate finance and national security affairs.



I developed an interest in entomology as an FFA-er in high school, so I took a veterinary entomology class at Texas A&M University as part of my undergraduate degree program. Lecturer **Steve Robertson** sparked my interest in this program while we were stationed together at Tyndall Air Force Base, Florida. Simply put, I'm utterly fascinated by these incredible organisms and the more I learn about them—their ecology, their physiology, and their impact on our economy—the more enthralled with them I become.

Off-Campus Student, con't.

I'm enthusiastic about continually improving people, ideas, and things, (and that includes me!) so I want to complete a M.S. degree in order sharpen my knowledge in entomology and to boost my general job performance. I also wanted the enhanced qualifications associated with having a master's degree awarded by the University of Nebraska.

After completing the program I'd like to use my new knowledge to better serve my home institution, (Michigan Tech) to improve my local community, and to share my awe with the many fine folks whose paths I cross. Although I've enjoyed the program immensely, I have a deferred reading list that should keep my nose in books for many years to come.

Student News

Liz Dahlgren has received an American Association of Professional Apiculturists Research Scholarship for \$1,000 for her research proposal, "Honey bee caste acetylcholinesterase inhibition: Insights into coumaphos tolerance."

Erin Ingram has been awarded a \$2,000 scholarship from the Foundation for the Preservation of Honey Bees to be used for professional development. Erin presented her research at the American Bee Research Conference in Hershey, PA, on January 10, 2013.

Muhammad Irfan Ullah received First Place in the graduate student poster competition for the President's Prize sponsored by Monsanto at the 2012 ESA Meeting in Knoxville, TN in November. The award includes a free one-year ESA membership, a \$175 cash prize, and a certificate.

David Wangila was selected to receive a David H. & Anne E. Larrick Memorial Travel Fund in the amount of \$500 to attend the 29th Annual Conference for the Association for International Agricultural and Extension Education in Ft. Worth, TX, May 19–23, 2013.

Travel

Drs. Tom Hunt, Lance Meinke, Nick Miller, Blair Siegfried, and Bob Wright participated in the NCCC-46 and NC205 meetings held in New Orleans, LA, January 21-24, 2013.

This 'n that

Congratulations to the Tumblebugs, the Entomology Department's bowling team, who is currently in first place and will continue to battle for the number one spot until mid-April. Congratulations also to **Kyle Koch** who was awarded November Bowler of the Month by the University Bowling League at Hollywood Bowling Alley. Led by **Dr. Ken Pruess**, team members are **Laramy Enders, Jess Jurzenski, Kyle Koch, Lia Marchi, Adriano Pereira, Travis Prochaska, Geoff Putney and Terrence Spencer**. Good luck with the rest of the season!

Entomology Department Meetings

Spring 2013

9:30 a.m. in ENTO 110

Wednesday, February 6

Wednesday, March 6

Wednesday, April 3

Wednesday, May 8

The Lawrence Bruner Entomology Club presented the first established recognition of a University of Nebraska entomology distinguished alumnus to **Dr. Robert Davis** of the BASF Pest Control Solutions on October 30, 2012 for his career achievements, professionalism, contributions and dedication to science. The honor recognizes and promotes achievement and professionalism in entomology and its related disciplines. With this recognition we are highlighting the accomplishments of alumni, enhancing alumni and student connections, and highlighting the mentorship of current and past faculty. Dr. Davis received a plaque commemorating this honor and his name was added to the Bruner Distinguished Alumni Recognition plaque hanging in Entomology Hall.

Dr. Davis received his Doctorate and Masters from the University of Nebraska Department of Entomology and was nominated by his graduate advisor **Dr. Shripat Kamble**. His graduate degree work focused on testing and evaluating termite control techniques. Dr. Davis published seven refereed publications resulting from his M.S. and Ph.D. research. He is a Board Certified Entomologist and is active in service to the Entomological Society of America. Dr. Davis was employed immediately after his graduation as a Technical and Training Director of ABC Pest & Lawn Service Inc., Austin, TX. After four years with ABC, he was hired as a Technical Field Representative for Aventis Environmental Sciences which later became Bayer Environmental Sciences and is now part of the BASF Corp with whom he remains today. Dr. Davis has provided many educational and research presentations in our industry for over twenty years and is currently a Market Development Specialist for BASF Pest Control Solutions.



Bruner Club President, Camila de Oliveira, presents Dr. Bob Davis with his commemorative plaque



Dr. Bob Davis' name is the first to be placed on the Bruner Distinguished Alumni Recognition Plaque

Call for nominees:

The Library and Education Committee of the Bruner Club requests nominations for the 2013 recipient of the second annual recognition of an outstanding alumni (<http://entomology.unl.edu/alumninomination.docx>). The selection by the UNL graduate students is intended to recognize an alumnus or alumna for his or her outstanding career, professionalism, and dedication to science. Current and past faculty, staff, and students can nominate alumni. Nominees must have received a terminal degree at least 5 years ago (2008) and must not be currently employed by the University of Nebraska.

A completed nomination packet should include:

1. A completed nomination form (<http://entomology.unl.edu/alumninomination.docx>)
2. A nomination letter from the nominator
3. An optional, but suggested, CV

The committee requests that complete nomination packets be received by April 2, 2013. You can email the package to Carolina Camargo at carolinacamargo01@gmail.com, or mail the nomination packet to:

Bruner Club Library and Education Committee
 Department of Entomology
 University of Nebraska – Lincoln
 103 Entomology Hall
 Lincoln, NE 68583-0816

Blasts from the past

Alumni and current members of the Toxicology Lab that attended the National ESA meeting at Knoxville, TN, gathered after the KSU/UNL/CSU Mixer on Monday, November 12, 2012. The reunion took place at the Downtown Grill and Brewery and was attended by (front row) **Diana Londoño**, M.S., 2002, Ph.D. 2005; **Dan Mollenbeck**, long-time collaborator; **Mike Scharf**, Post-doc 1998-2001; **Murugesan Rangasamy**, Post-doc 2008-2010; **Tim Nowatzki**, Post-doc 2002-2004; **Srinivas Parimi**, Post-doc 2000-2002; (standing) **Blair Siegfried**; **Eric Durham**, M.S. 2000; **Herbert Siqueira**, Ph.D. 2002, Post-doc 2002-2004; **Eliseu Pereira**, Ph.D. 2006; **Analiza Alvarez**, M.S. 2004, Ph.D. 2008; **Leonardo Magalhães**, M.S. 2007; **Carollina Camargo**, current student; **“Joe” Zhou**, Ph.D. 2002, Post-doc 2002-2003). Not pictured were **Jess Jurzenski** (current post-doc), **Karen da Silva** (current student), and **John Wang** (current lab manager) who joined us later in the evening. We all shared dinner, a few drinks and lots of good memories. For those that couldn't join us, we look forward to the next opportunity to get together. (Submitted by **Srinivas Parimi**)



Dow AgroSciences recently named **Dr. Neil Spomer**, field scientist for its urban pest management business, including the Sentricon System. In his new role, Neil will manage the Urban Pest Management Lab in Indianapolis and also cover parts of the Midwest and East Coast as field scientist for Sentricon. Previously, Neil was a field scientist in Dow AgroSciences' northern crops business in South Dakota. Neil received his M.S. and Ph.D. degree from UNL under the supervision of **Dr. Shripat Kamble**.



Calendar of Events

February 5, 2013

Entomology Seminar—**Dr. Thomas Phillips**, Entomology Department, Kansas State, 4:00 p.m., Entomology Hall, Room 202

February 12, 2013

Entomology Seminar—**Amanda Maegli**, Entomology Graduate Student, 4:00 p.m., Entomology Hall, Room 202

February 12-13, 2013

21st Annual Urban Pest Management Conference, The Cornhusker-Marriott Hotel, Lincoln, NE

February 19, 2013

Entomology Seminar—**Johan Pretorius**, Entomology Graduate Student, 4:00 p.m., Entomology Hall, Room 202

February 26, 2013

Entomology Seminar—**Ashley Yates**, Entomology Graduate Student, 4:00 p.m., Entomology Hall, Room 202

March 5, 2013

Entomology Seminar—**Camila De Oliveira**, Entomology Graduate Student, 4:00 p.m., Entomology Hall, Room 202

March 9, 2013

Beginning Beekeeping Workshop, North Platte, NE

March 12, 2013

Entomology Seminar—**Karen da Silva**, Entomology Graduate Student, 4:00 p.m., Entomology Hall, Room 202

March 16, 2013

Beginning Beekeeping Workshop, Nebraska City, NE

March 17–24, 2013

Spring Vacation

March 26, 2013

Entomology Seminar—**Matheus Ribeiro**, Entomology Graduate Student, 4:00 p.m., Entomology Hall, Room 202