

T H E O H I O S T A T E U N I V E R S I T Y
DEPARTMENT OF ENTOMOLOGY



Newsletter

Polly Graham, Editor



MESSAGE FROM THE MAIN OFFICE

Greetings from the Front Office,

We continue to work towards the reorganization that has been detailed in our strategic plan. During the month of March, we will be paying attention to revising our curriculum and establishing a new administrative structure in the front office. Please be patient as we figure out how to join functions with EEOB. There will also be some moving around of space which may necessitate patience as well.

On April 1, 2009, please plan to come hear Susan Jacoby, author of the *Age of American Unreason* give a lecture on how and why "junk" thought has eclipsed rational thought in our schools and public discourse. She will speak at 7:00 pm in 001 Jennings Hall. A reception (featuring coconut shrimp!) and a book signing will follow.

Best,
Susan

CALENDAR



March 12th Combined Faculty Meeting in Wooster, 9:00 AM-3:00 PM with morning refreshments at 9:30 AM. Location in the old Administration Bldg. across from Thorne Hall.

March 22nd Winter quarter commencement (Still need someone to represent the department).

March 31st 11:30 Seminar - Dr. Brent Sinclair "What happens when insects freeze and thaw (and freeze and thaw, and freeze and thaw)....." Western Ontario University. Columbus Aronoff 104 video-linked to Wooster Thorne Hall.

PRESENTATIONS

Bradley, R.A. Tall Grass Prairie and early successional Old Field Spider Assemblages; are they distinct? Ohio Natural History Conference, Columbus, Ohio, 28 February, 2009, poster.

- Cañas, L.A. Greenhouse Insect Management. Pesticide Recertification Conference. Dayton, OH. January 21, 2009.
- Cañas, L.A. Interiorscape Insect Management. Pesticide Recertification Conference. Dayton, OH. January 21, 2009.
- Cañas, L.A. Insect IPM. OSU Greenhouse Management Workshop. Columbus, OH. January 25, 2009.
- Cañas, L.A. New Discoveries and Trends for Insect Management in Greenhouses and Conservatories. Tri-State Green Industry Expo. Cincinnati, OH. February 5, 2009.
- Cañas, L.A. Greenhouse Insect Management. Pesticide Recertification Conference. Sandusky, OH. February 10, 2009.
- Cañas, L.A. Interiorscape Insect Management. Pesticide Recertification Conference. Sandusky, OH. February 10, 2009.
- Cañas, L.A. Best Management Practices to Manage Insects in Greenhouses. Extension Reloaded Program. Toledo, OH. February 17, 2009.
- Cañas, L.A. Greenhouse Insect Management. Pesticide Recertification Conference. Columbus, OH. February 25, 2009.
- Cañas, L.A. Interiorscape Insect Management. Pesticide Recertification Conference. Columbus, OH. February 25, 2009.
- Herms, D.A. 2009. Nitrogen and the ecology of plant defense: the synthetic contribution of William J. Mattson. 26th International Forest Insect Research Advisory Workshop. Breckenridge, CO. 22-25 February 2009.
- Herms, D.A. Management options for emerald ash borer. 2009 Tri-State Green Industry Conference. Cincinnati, OH. 5 February 2009.
- Herms, D.A. 2009. Earth is warming and we're the cause: an overview of the evidence for climate change. Watershed Nature Center. Edwardsville, IL. 27 February 2009.
- Herms, D.A. Ohio's forests under siege: the clear and present danger posed by invasive insects. Fireside Garden Club. Wooster, OH. 2 March 2009.
- Horn, D. J., Farfan, M. A. and Purrington, F. F. Ecological impacts of oil pipeline installation through previously intact forest in Hocking County, Ohio. 6th Ohio Natural History Conference. Columbus, OH. Feb. 28, 2009.
- Horn, D. J. How bioblitzes can help with biodiversity inventory: Lessons from Deep Woods. 6th Ohio Natural History Conference. Columbus, OH. Feb. 28, 2009.
- Jones, S. C. "Bed bugs: biology and control." Central Ohio Area Agency on Aging In-Service Training, Columbus, OH, 12 January 2009.
- Jones, S. C. "Bed bugs: biology and control." Columbus Code Enforcement In-Service Training, Columbus, OH, 22 January 2009.
- Jones, S. C. "Bed bugs: biology and control." Bed Bug Summit for Fire Departments, Madison Township In-Service Training, Dublin, OH, 27 January 2009.
- Jones, S. C. "Bed bugs: know your enemy." Franklin County Public Health Department In-Service Training, Columbus, OH, 12 February 2009.

- Jones, S. C. "Bed bugs: know your enemy." Ohio Fire Chiefs Association Conference, Columbus, OH, 24 February 2009.
- Jones, S. C. - 3 presentations: "Termite control update"; "Bed bugs: Biology"; "Bed Bugs: Integrated pest management strategies." Ohio Pesticide Applicator Recertification Conference, Dayton, OH, 21 January 2009; Sandusky, OH, 10 February 2009; and Columbus, OH, 25 February 2009.
- Michel, A. P. Field Crop Insect Update, and Seed Treatment Update. Pesticide Applicator Training, Columbus, OH. February 25, 2009.
- Michel, A. P. Field Crop Insect Update. Coshocton Co. & Muskingum Co. Agronomy School. Conesville, OH. February 17, 2009.
- Michel, A. P. Field Crop Insect Update. Northern Ohio Crops Day. Gibsonburg, OH. February 5, 2009.
- Michel A. P. IPM: back to the basics, How much damage are those insects actually doing?, Soybean aphid and population genetics: applications for management, and IRM and refuge: what's the biology. OARDC Plant Pathology and Entomology Workshop. Wooster, OH. February 3 & 4, 2009.
- Niemczyk, H. D. Insect Pests In Sod Production. Seminar. Point Clear, AL. Turfgrass Producers International Convention. February 11, 2009.
- Niemczyk, H. D. Using Nicotinoid Systemicity to Control Billbugs, Annual bluegrass Weevil and Ants. Golf Course Superintendents Association of America, International Conference, New Orleans, LA, February 7, 2009.
- Otienoburu, P. E. Developing synthetic plant attractants for the surveillance of the WNV-transmitting mosquito *Culex pipiens*. New Jersey Mosquito Control Association (NJMCA) Annual Meeting, NJ. March 11, 2009.

PUBLICATIONS

- Gardiner, M. M., D. A. Landis, C. Gratton, C. D. DiFonzo, M. O'Neal, J. Chacon, M. Wayo, N. Schmidt, E. Mueller, and G. E. Heimpel. 2009. Landscape diversity enhances biological control of an introduced crop pest in the north-central U.S. **Ecological Applications** **19**: 143-154.
- Landis, D. A., M. M. Gardiner, W. van der Werf, and S. Swinton. 2008. Increasing corn for biofuel production reduces biocontrol services in agricultural landscapes. **PNAS** **105**: 20552-20557.
- Li, A., Rinehart, J.P. and Denlinger, D.L. 2009. Neuropeptide-like precursor 4 is uniquely expressed during pupal diapause in the flesh fly. **Peptides** **30**:518-521.
- Oliver, J. B., D. C. Fare, N. Youssef, M. A. Halcomb, M. E. Reding, C. M. Ranger. 2009. Evaluation of systemic insecticides for potato leafhopper control in field-grown red maple. **Journal of Environmental Horticulture** **27**: 17-23.
- Ranger, C. M., A. P. Singh, J. M. Frantz, L. Cañas, J. C. Locke, M. E. Reding, and N. Vorsa. 2009. Influence of silicon on resistance of *Zinnia elegans* to the green peach aphid *Myzus persicae* (Hemiptera: Aphididae). **Environmental Entomology** **38**: 129-136.
- Ranger, C. M., M. E. Reding, J. B. Oliver, J. J. Moyseenko, and N. N. Youssef. 2009. Toxicity of botanical formulations to nursery-infesting white grubs (Coleoptera: Scarabaeidae). **Journal of Economic Entomology** **102**: 304-308.

Zhang, Q., R.J. Nachman, R.J., Zubrzak, P. and Denlinger, D.L. 2009. Conformational aspects and hyperpotent agonists of diapause hormone for termination of pupal diapause in the corn earworm. **Peptides 30:596-602.**

GRANTS

Bradley, R.A. Common Spiders of Ohio booklet. Ohio Department of Natural Resources, Division of Wildlife, Wildlife Diversity Program. 2009. \$2,500

Cardina, J., Michel A. P., Goebel, C. Genetics, Age, and Spatial Structure to Improve Invasive Plant Management Strategies. OARDC Interdisciplinary Program, 2009-2011. \$100,000

Gardiner, M. M. A landscape-scale approach to understanding native Coccinellidae decline. OARDC-SEEDS 2009-2010. \$49,163

Horn, D. J. and J. W. Wenzel. Reintroduction of the federally endangered American burying beetle in Ohio. Ohio Division of Wildlife. 2009. \$7,200

Ozkan, E., H. Zhu, R. Derksen, P. Bonello, D.A. Herms, M. Ellis, and C. Welty. Development of new technology for safe, effective, efficient, and environmentally-sound application of pesticides to specialty crops. USDA NCR-IPM Competitive Research Grant. 2009-2011. \$97,500

Ragsdale D. W. and 12 others. Soybean Aphid: Management, Biocontrol, and Host Plant Resistance. North Central Soybean Research Program. March 2009-March 2010. \$39,778

MISCELLANEOUS



The **Fifth Museum Open House** was held on February 6 and 7. On Friday, February 6, approximately 40 students from Linden-McKinley school and their teachers were chaperoned through the Auditorium exhibits by a dozen students from the Metroschool. On Saturday, the public was welcomed to see the special exhibits in the Auditorium and the research collections. More than 1000 people attended the event, which was staffed by 100 OSU volunteers. As usual, the Triplehorn Insect Collection and the Insect Zoo were among the most popular units.



Please welcome Samuel Discua from Honduras and Lucia Orantes from Guatemala. Samuel started to work as a visiting scholar with Dr. Dan Herms. Lucia is currently working as a visiting scholar with Dr. Andy Michel. Lucia was recently admitted to the Entomology graduate program and will start graduate work with Dr. Andy Michel. Also, Loren Rivera a visiting scholar from Honduras has started working with Dr. Omprakash Mittapalli.

The **Newsletter** is a monthly publication of the of the *Department of Entomology, The Ohio State University*. All in the Department are encouraged to submit news, current happenings, achievements, images and important deadlines related to the OSU Entomology faculty, staff and students.

Send material for next month's **Newsletter** to Polly Graham (graham.311@osu.edu)

Credits: Newsletter design by L. Musetti (2007-2009)