



Polly Graham, Editor
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Newsletter

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April 2008

MESSAGE FROM MAIN OFFICE

Greetings from the Front Office.

Many, many thanks to Dave Horn, Celeste Welty and an army of very dedicated OSU students for putting on a fabulous ESA-NCB meeting.

Also, congratulations to the many OSU student competition award winners:

- MS Session II, First Place: Elijah Talamas
- MS Session II, Second Place: Erin Morris
- PhD Session I, Second Place: Vanessa Muilenburg
- Ph.D. Session II, First Place: Giancarlo Lopez-Martinez
- BS First Place: Monica Farfan

Well done!!

WOSU has created a wonderful video of the Museum of Biological Diversity which is now available at: <http://www.wosu.org/mix/>. Please check it out; they really did a wonderful job.

Susan

CALENDAR

March 31st Candidate Seminar. Mary Gardiner, Michigan State University. 12:00pm. Aronoff 104 with video link to Wooster, Thorne Hall conference room. "*Spiders in the agricultural landscape.*"

April 1st Candidate Seminar. Mary Gardiner, Michigan State University. Thorne Hall conference room, video link to Aronoff 104. 11:30am. "*Landscape diversity enhances the biological control of an invasive agricultural pest.*"

April 15th Vladimir Kostal, Czech Academy of Sciences. Aronoff 104, video link to Thorne Hall, Wooster. 11:30 AM-12:18 PM. "*Role of clock genes in insect photoperiodism.*"

April 17th Faculty Meeting. Aronoff 422, video link to Thorne Hall conference room, Wooster. 2:00pm-5:00pm.

April 29th Dr. Brian Sullivan, US Forrest Service. Thorne Hall conference room 206, video link to Aronoff 104, 11:30 AM-12:18 PM. "*Semiochemical Ventriloquism?*"



April 30th Dr. Sonia Altizer, University of Georgia. Thorne Hall conference room 206, video link to Aronoff 104, 11:30 AM-12:18 PM. "*TBA.*"

PRESENTATIONS

Bradley, R.A. "Is There a Middle Ground on Spiders? The Ohio Spider Survey 14 years Later." Symposium on Citizen Science in the Study of Insect Biodiversity. ESA North Central Branch Annual Meeting. March 27, 2008. Columbus, OH.

Cañas, L.A. "Best management practices to successfully manage insects in greenhouses." Tri-State Green Industry Conference. Sharonville, OH. February 7, 2008.

Cañas, L.A. "Greenhouse insect management update." Commercial Pesticide Applicator Recertification Conference. Perrysburg, OH. February 19, 2008.

Cañas, L.A. "Interiorscape insect management update." Commercial Pesticide Applicator Recertification Conference. Perrysburg, OH. February 19, 2008.

Cañas, L.A. "Greenhouse insect management update." Commercial Pesticide Applicator Recertification Conference. Columbus, OH. February 26, 2008.

Cañas, L.A. "Interiorscape insect management update." Commercial Pesticide Applicator Recertification Conference. Columbus, OH. February 26, 2008.

Cañas, L.A. "Insect management for bedding plants." Greater Cleveland Association Extension Reloaded Program. Chagrin Falls, OH. March 11, 2008.

Chorbadjian, R.A., and D.A. Herms. "Insect-Host Phenological Synchrony: Foliar Terpenes and Free Amino Acids in Relation to European Pine Sawfly Life Cycle." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.

Farfan, M. A. and D.J. Horn. "Ecological effects of the installation of an underground oil pipeline on millipede communities in Hocking County, Ohio." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.

Gallagher, N.T., and S.C. Jones. "Termite-mediated alteration of food items." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.

Ghandi, K., M.E. Reding, C.M. Ranger, D.M. Lightle, B.J. Mosley,

- and D.A. Herms. "Activity of Subcortical Insects in Northeastern Ohio Nurseries." ESA North Central Branch Annual Meeting. March 26, 2008. Columbus, OH.
- Herms, D.A. "Mulching the landscape: effects of organic mulches on soil ecology and plant health." 2008 Ohio Compost Operator Education Course. March 5. OARDC, Wooster, OH.
- Herms, D.A. "Research update: insecticide options for controlling emerald ash borer." 2008 North Coast Urban Forestry Conference. Kirtland, OH. March 14, 2008.
- Herms, D.A. "Phenology and integrated pest management. Licking County Master Gardener Training Program. Licking County Extension. Newark, OH. March 18, 2008.
- Herms, D.A. "The Emerald Ash Borer Invasion: the Beginning of the End of Ash in North America." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.
- Horn, D. J. "The real story about the birds and the bees: pollination ecology and the need for subtle conservation." Ohio Botanical Symposium. March 19, 2008. Columbus, OH.
- Jones, S. C. "Integrated Pest Management Approaches for Subterranean Termites." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.
- Klompen, H. "The role of systematics and taxonomy in dealing with invasive mites." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.
- Knight, K., and D.A. Herms. "Emerald ash borer: biology, impact, research results, and implications." Penn State Cooperative Extension Forest Health 2008 Annual Insect and Disease Conference. March 19, 2008.
- Lightstreet, PA. Knight, K., and D.A. Herms. "Emerald ash borer: biology, impact, research results, and implications." Penn State Cooperative Extension Forest Health 2008 Annual Insect and Disease Conference. March 20, 2008. St. Mary's, PA.
- Morris, E.E. "Lure and Kill: A Novel Approach to Controlling Japanese Beetle." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.
- Meuti, M., S. C. Jones, and P. S. Curtis. "Effects of dietary nitrogen on symbiotic nitrogen fixation in the eastern subterranean termite, *Reticulitermes flavipes*." North Central Branch of Entomological Society of America Meeting. March 26, 2008. Columbus, OH.
- Muilenburg, V.L. and D.A. Herms. "Resistance Mechanisms of Paper Birch Against Bronze Birch Borer." ESA North Central Branch Annual Meeting. March 25, 2008. Columbus, OH.
- Obopile, M., Hammond, R. B. and Thomison, P. R. "Interaction Among Planting Dates, Transgenic Corn and Seed Treatment on Corn Rootworm Damage and Corn Grain Yield." Poster Presentation. ESA North Central Branch Annual Meeting. March 24-27, 2008. Columbus, OH.
- Rodriguez, A.C. and W.A. Foster. "Insemination Capacity of Male *Anopheles gambiae*." ESA North Central Branch Annual Meeting. M.S. Student Poster Competition. March 25, 2008. Columbus, OH.
- Talamas, E.J. "Revision of the African genus *Oreiscelio* (Hymenoptera: Scelionidae)." ESA North Central Branch Annual Meeting. March 25, 2007. Columbus, OH.
- Wenzel, J.W. "Fossils from Ohio, the USA, and around the World." Wyandott Elementary School. March 20, 2008. Dublin, OH.
- Williams, R.N. "Novel Approaches to Grape Insect Management." Ohio Grape and Wine Conference, Shisler Center, OARDC, Feb. 11-12, 2008. Wooster, OH.
- Williams, R.N. "Grape Insect Control Strategies." NE Ohio Grape School. Chalet DeBonne Vineyards. March 17, 2008. Madison, OH.

PUBLICATIONS

- Bochkov, A. V., Klompen, H. and OConnor, B. M. 2008. Review of external morphology of Chirorhynchobiidae (Acari: Sarcoptoidea) with description of a new species. **Journal of Medical Entomology 45: 193-202.**
- Denlinger, D.L. 2008. Why study diapause? **Entomological Research 38: 1-9.**
- Hammond, R., P. Paul, A. Michel, and B. Eislely. 2008. Barley Yellow Dwarf Virus and Aphids on Wheat. **Crop Observation and Recommendation Network (C.O.R.N.). 2008-03, Feb 5 Feb 20, 2008.**
- Hammond, R., P. Paul, A. Michel, D. Mills, and B. Eislely. 2008. Our Annual Prediction of Flea Beetle Activity and Stewart's Disease for the 2008 Corn Crop. **Crop Observation and Recommendation Network (C.O.R.N.). 2008-05, March 4 March 19, 2008.**
- Hammond, R., A. Michel, and B. Eislely. 2008. Transgenic Corn and the 20 Percent Refuge. **Crop Observation and Recommendation Network (C.O.R.N.). 2008-06, March 19 April 2, 2008.**

GRANTS

- Bonello, P., D.A. Herms, and R.C. Hansen. Testing the Systemic Induced Resistance Hypothesis: Implications for Plant Defense Theory. OARDC SEEDS Competitive Grants Program, Interdisciplinary Team Competition. **\$99,944**, 2008-2010.
- Cañas, L. A. Whitefly preference for poinsettia cultivars: impact of plant host traits on whitefly development, survival and fecundity. American Floral Endowment Competitive Grant. **\$48,049**, 2008-2010.
- Cañas, L. A. Whitefly preference for poinsettia cultivars: impact of plant host traits on whitefly development, survival and fecundity. USDA-IR4 Biopesticide Competitive Grant. **\$27,920**, 2008-2009.

Michel, A.P. Genome Scanning and the Genetics of Adaptation within the Apple Maggot Fly, *Rhagoletis pomonella*. OARDC-SEEDS Research Grant. **\$48,500**, 2008-2009.

MISCELLANEOUS

(Very brief) workshop on mite identification in conjunction with NCB-ESA meeting. Organizer Hans Klompen. 12 participants. March 24, 2008.

Congratulations to Adrea Rodriguez and Jennifer Andon. Both graduated with a Master of Science degree in Entomology this Winter quarter (March 16, 2008).

We extend a hearty welcome Dr. Vladimir Kostal from the Czech Academy of Sciences who will be a Fulbright Visiting Scholar in the Denlinger laboratory until the end of June 2008. Dr. Kostal is an authority on molecular and physiological aspects of insect cold hardening and diapause.

David Denlinger received the Ted Hopkins Award in Insect Physiology from Kansas State University during a visit to Manhattan on March 6-8, 2008.

Monica A. Farfan. First Place in B.S. Poster Competition at NCB-ESA Annual Meeting in Columbus, OH.

Monica A. Farfan. Awarded Graduate Enrichment Fellowship for 2008-2009.

After a ten-year absence, Ohio State returned a team to the North Central Branch ESA Linnaean Games, held at the Branch meeting in Columbus. The team of Glene Mynhardt, Josh Bryant, Nicky Gallagher, Kaitlyn Uppstrom with alternates Monica Farfan and Megan Meuti strove valiantly before losing to the eventual winners, a veteran team from the University of Nebraska. Our OSU Buckeyes, in matching shirts, scored more points against Nebraska than did any other team. Until ... we received some vindication when coach Dave Horn participated with a team of "Old-Timers" that defeated Nebraska in overtime. Possibly the U. of N. team was unnerved by a withering barrage of trash-talk from the geezers. Thanks to all who support our Linnaean Gamesters.

Student Paper Competition: Elijah Talamas, First Place, M.S. Session II; Erin Morris, Second Place, M.S. Session II; Vanessa Muilenberg, Second Place, Ph.D. Session I; Giancarlo Lopez-Martinez, First Place, Ph.D. Session II; Joe Raczkowski, Second Place, Ph.D. Session II. Student Poster Competition, Monica Farfan, First Place. Congratulations to all.

A huge "thank you" is due to all who assisted with the North Central Branch ESA meeting this month. The long hard hours invested by the Local Arrangements Committee and the preliminary and on-site support of our students paid off in providing an excellent meeting. Especially we want to thank the Committee: Dave Horn, Glene Mynhardt, Claudia Kuniyoshi, Phil Otienoburu, Chris Ranger, Celeste Welty and Roz Horn. Many others expended extra effort and a list of all would include most of the students in the Department. Several faculty and staff were very helpful as well, but it was out students who really pulled this off. Thanks again.

Please welcome to Entomology/OARDC the following persons: Alejandra Claire from Bolivia will be working with Dr. Dan Herms.

Nelson Davila from Nicaragua will be working with Dr. Andrew Michel. Ronald Batallas from Ecuador will be working with Dr. Luis Cañas. All three are visiting scholars that will engage in research at their respective labs. They came through the Zamorano-OSU program established by Dr. Luis Cañas.

Ron Hammond attended Insects and Slugs, Conservation Tillage & Technology Conference, Ada, OH. February 22, 2008, 75 people. He also attended Panel Participant, Grain Production Program, Organic Workshop 101, OARDC, Wooster, OH, 50 people.

Ron Hammond's interviews:

- Magazine article. *Scout before you spray wheat*. Ohio Farmer. March, 2008.
- Magazine article. *Transgenics could pose planting challenges this season*. Ohio's Country Journal, March, 2008.
- Magazine article. *IPM approach best for managing wheat*. Ohio's Country Journal, March, 2008.

Latest news on our previous MS graduate student James Cannon. He's now at UNL, and originally left the OSU program for Army duties. He's been an officer for the last 2 years and was just sworn in March 31st as an Army Entomologist.

Foster Purrington and Cathy Drake collected ground beetles near Pelican Island National Wildlife Refuge north of Wabasso, Florida on 7-8 February, followed by collections on the Gulf of Mexico at Flamingo in Everglades National Park and in the lower Florida Keys on Bahia Honda and Big Pine Key.

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.

Newsletter design: L. Musetti (2007-2008)