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Abbey Monnin, Co-Editor

## Newsletter

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### MESSAGE FROM MAIN OFFICE

Greetings from the front office:

Looks like winter won't bypass us after all. I know that winter has arrived when I alternate between wearing knee-high boots that get pulled off my feet by mud when I attempt to feed the livestock and allocating 30-40 minutes to the daily commute to accommodate bad weather. This is SO Ohio.



The weather notwithstanding, we will have a busy quarter. Shortly, we will be hosting a series of job candidates for the 3 open faculty positions for which we are currently searching. Please sign up when the visitor sheets come around. The decisions we make about hiring will affect our department for the next 30 years (we hope), so we need your input into these critical decisions. Thanks very much to our 3 search committee chairs: Dave Horn, Dave Denlinger and Larry Phelan. We are so grateful for all of your hard work.

We also have a major departmental event coming up at the end of March: we're hosting the **2008 North Central Branch** meetings in Columbus. Dave Horn graciously agreed to be the local arrangements chair, a task that no sane person would take on. He, and his pack of co-workers, will be asking for your assistance as the time draws near. Please give generously of your time and talent to make sure that this is a stellar event.

Finally, please let me, Dan Herms or folks in the front offices at Columbus and Wooster know if we can assist you in any way and stay warm!

Best,  
Susan

### CALENDAR

- January 1<sup>st</sup> **New Years Day. Holiday.**  
No classes, offices closed.
- January 3<sup>rd</sup> **Winter quarter classes begin.**
- January 17<sup>th</sup> **Faculty meeting.**  
Aronoff 422, 2:00 PM-5:00 PM  
*videolink to Thorne Hall, Wooster.*
- January 21<sup>st</sup> **Martin Luther King, Jr. Holiday.**  
No classes, offices closed.

### PRESENTATIONS

- Acosta, N., R. Williams and D. Fickle. Inventory of the Nitidulidae found in flowers of *Calycanthus floridus* in northeast Ohio. *Annual Meeting of the Entomological Society of America. San Diego, CA, 9-12 December, 2007.*
- Alumai, A., Salminen, S., Richmond, D. S., Shetlar, D. S., Cardina, J., Kovach, J., Rimelspach J. W., Grunkemeyer, M. & Grewal, P. S. Integrated pest management in lawn care. *First conference on Ecological Landscaping: from Scientific principles to public practices and policies. Cleveland, OH, 28-31 October, 2007.*
- Blaine, T. W., Clayton, S., Robbins, P. & Grewal, P. S. Attitudes and practices regarding lawn chemical applications: perspectives from homeowners and lawn care professionals. *First conference on Ecological Landscaping: from Scientific principles to public practices and policies. Cleveland, OH, 28-31 October, 2007.*
- Cheng, Z. & Grewal, P. S. Turfgrass lawn establishment: Effect of subsoil, topsoil, compost amendment, and nitrogen fertilization on stand establishment, weed invasion, soil foodweb, and nutrient pools. *First conference on Ecological Landscaping: from Scientific principles to public practices and policies. Cleveland, OH, 28-31 October, 2007.*
- Chiriboga, A., D. A. Herms and R. N. Royalty. Imidacloprid (Merit<sup>®</sup> 2F) increases the growth of the poplar (*Populus nigra*) clone NC5271 by increasing total leaf area. *55<sup>th</sup> Annual Meeting of the Entomological Society of America. San Diego, CA, 9-12 December, 2007.*
- Chordbadjian, R. A. and D. A. Herms. Host phenology constrains the performance of European pine sawfly larvae: the role of foliar nutrients and chemical defenses. *55<sup>th</sup> Annual Meeting of the Entomological Society of America. San Diego, CA, 9-12 December, 2007.*
- Chordbadjian, R. A. and D. A. Herms. Host phenology constrains the performance of European pine sawfly larvae: the role of foliar nutrients and chemical defenses. *55<sup>th</sup> Annual Meeting of the Entomological Society of America. San Diego, CA, 10 December, 2007.*
- Ebrahimi B. Iranian leishmaniasis: Sand fly ecology close to the Silk Road. *55<sup>th</sup> Annual Meeting of the Entomological Society of America. San Diego, CA, 12 December, 2007.*

- Ellsworth, D. & D. A. Herms. Master gardeners and the Ohio State University Phenology Garden Network. *55<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA, 9-12 December, 2007.
- Farfan, M. A. and D. J. Horn. Ecological impact of oil pipeline installation on millipedes (Diplopoda) in a mixed deciduous forest in southern Ohio. *55<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA, 10 December, 2007.
- Fisher, Susan W. and J. Ridgway. Making Sense of Darwin for Nonmajors. *Annual Lilly Conference on College Teaching*, Miami University, Oxford, Ohio, 17 November, 2007.
- Horn, D. J. and J. K. Kahn. Impacts of prescribed burning and habitat fragmentation on moths in mixed-oak forests of Ohio. *Entomological Society of America Annual Meeting*. San Diego, CA. 12 December, 2007.
- Gandhi, K. J. K., A. Smith, R. A. Taylor, and D. A. Herms. Three-year progression of emerald ash borer induced ash decline and mortality of the forests of southeastern Michigan. *55<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA, 9-12 December, 2007.
- Grewal, P. S. The environmental impact of lawns: science and perception. *Ohio Turfgrass Conference and show*, Columbus, Ohio, 3-6 December, 2007.
- Grewal, P. S. Using natural controls and host-plant resistance to manage insect pests. *Ohio Turfgrass Conference and show*, Columbus, Ohio, 3-6 December, 2007.
- Grewal, P. S. Building an ecosystem management approach to lawn care: understanding a manipulating ecological interactions in urban lawns. *Ecological Landscaping: from scientific principles to public practices and policies*. Cleveland, OH, 28-31 October, 2007.
- Grewal, P. S. Lawn revolution and the emergence of urban environmentalism. *Ecological Landscaping: from scientific principles to public practices and policies*. Cleveland, OH, 28-31 October, 2007.
- Herms, D. A. Efficacy of imidacloprid for controlling insect pests of trees: knowledge and knowledge gaps. *55<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA, 9-12 December, 2007.
- Herms, D. A. Emerald ash borer invasion: the beginning of the end of ash in North America. *55<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA, 9-12 December, 2007.
- Johnson, N. F. and A. D. Austin. Dealing with the ultimate megadiverse group - the parasitic Hymenoptera: an NSF PBI project. *Society of Australian Systematic Biologists and Invertebrate Biodiversity Conservation Group*, Brisbane, 3 December, 2007.
- Johnson, N. F. Hit the road, Jack: Trials and tribulations of imaging type specimens in the museums around the world. *Annual Meeting of the Entomological Society of America*, San Diego, CA, 10 December, 2007.
- Johnson, N. F. Platygastridae PBI: building efficiency into large-scale taxonomic work. *Annual Meeting of the Entomological Society of America*, San Diego, CA, 11 December, 2007.
- Andrew P. Michel and Jeffrey L. Feder. Genome-wide clinal variation revealed through microsatellite genome scan of *Rhagoletis pomonella*. *Entomological Society of America National Meeting*. San Diego, CA, 9-12 December, 2007.
- Medeiros, A., R. Montiel, P. Garcia, N. Simões, L. Oliveira, R. Williams. Effect of temperature and soil moisture on entomopathogenic nematodes against the Mediterranean fruit fly. *Annual Meeting of the Entomological Society of America*. San Diego, CA, 9-12 December, 2007.
- Morris, E. E. & Grewal, P. S. Autodissemination of insect pathogens: A novel approach to controlling the Japanese beetle in urban landscapes. *Annual Meeting of the Entomological Society of America*. San Diego, CA, 9-12 December, 2007.
- Morris, E. E. & Grewal, P. S. Autodissemination of pathogens: A novel approach to controlling the Japanese beetle. *First conference on Ecological Landscaping: from Scientific principles to public practices and policies*. Cleveland, OH, 28-31 October, 2007.
- Muilenburg, V. L., D. A. Herms, and P. Bonello. Identification of resistance mechanisms of birch to bronze birch borer. *55<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA, 9-12 December, 2007.
- Musetti, L., N. F. Johnson, E. Talamas, and L. Masner. Neotropical species of the genus *Scelio* (Hymenoptera: Scelionidae), parasitoids of grasshopper and locust eggs (Orthoptera: Acrididae). *Annual Meeting of the Entomological Society of America*, San Diego, CA, 12 December, 2007.
- Mynhardt, G. & Wenzel, J. W. Origin and evolution of the "hanging lip" in *Cremastocheilus* Knoch (Coleoptera: Scarabaeidae). *Entomological Society of America Annual Meeting*. San Diego, CA, 9-12 December, 2007.
- Park, S., McSpadden Gardener, B. B. & Grewal, P. S. The abundance and diversity of soilborne nitrogen-fixing bacteria in urban lawns established on subsoil and topsoil and the effect of compost amendment. *First conference on Ecological Landscaping: from Scientific principles to public practices and policies*. Cleveland, OH, 28-31 October, 2007.
- Raczkowski, J. Founding stage of *Lasius* (*Acanthomyops*) (Hymenoptera: Formicidae). Student Competition for the President's Prize, Section C, Session Cb and Cc. Apiculture, Social insects, and Insect Vectors in Relation to Plan Disease. *Entomological Society of America Annual Meeting*. San Diego, CA, 9-12 December, 2007.
- Singh, M., Dick, W. A., Grewal, P. S., Lal, R., Hurto, K. A., and Hamza, H. B. Turfgrass systems: Sources or sinks of carbon? *First conference on Ecological Landscaping: from Scientific principles to public practices and policies*. Cleveland, OH, 28-31 October, 2007.

Talamas, E. and N. F. Johnson. Species and relationships of the Afrotropical genus *Oreiscelio* Kieffer (Hymenoptera: Scelionidae). *Annual Meeting of the Entomological Society of America, San Diego, CA, 10 December, 2007.*

Taekul, C. and N. F. Johnson. Classification and revision of world species of the genus *Fusicornia* Risbec (Hymenoptera: Scelionidae). *Annual Meeting of the Entomological Society of America, San Diego, CA, 10 December, 2007.*

Wenzel, J. W., Luque, G. M. Parsimony Analysis of Ecological Succession: A powerful tool for interpreting changes in Community Structure. *Entomological Society of America, San Diego, CA, 10 December, 2007.*

Wenzel, J. W., Mates, A. Against Consensus. *Entomological Society of America, San Diego, CA, 11 December, 2007.*

Williams, R., R. Downer and D. Fickle. Native pollinators and their association with commercial fruit and vegetable production in Ohio. *Annual Meeting of the Entomological Society of America, San Diego. 9-12 December, 2007.*

## PUBLICATIONS

Agosti, D., C. Klingenberg, G. Sautter, N. Johnson, C. Stephenson, and T. Catapano. 2007. Why not let the computer save you time by reading the taxonomic papers for you? ***Biológico* 69 (suppl. 2): 545-548.**

An R. & Grewal P. S. 2007. Differences in the virulence of *Heterorhabditis bacteriophora* and *Steinernema scarabaei* to three white grub species: the relative contribution of the nematodes and their symbiotic bacteria. ***Biol. Control* 43: 310-316.**

Ammar, E. -D. and Hogenhout, S. A. 2008. A neurotropic route for Maize mosaic virus (Rhabdoviridae) in its planthopper vector *Peregrinus maidis*. ***Virus Research* 131:77-85.**

Bai, X., Grewal, P. S., Hogenhout, S. A., Adams, B. J., Ciche, T. A., Gaugler, R. & Sternberg, P. W. 2007. Expressed sequence tag analysis of gene representation in insect parasitic nematode *Heterorhabditis bacteriophora*. ***J. Parasitol.* 93:1343-1349.**

Bai, X. & Grewal, P. S. 2007. Identification of two down-regulated genes in entomopathogenic nematode *Heterorhabditis bacteriophora* infective juveniles upon contact with insect hemolymph. ***Mol. Biochem. Parasitol.* 156:162-166.**

Briar, S. S., Jagdale, G. B., Cheng, Z, Hoy, C. W., Miller, S. A. & Grewal, P. S. 2007. Indicative value of nematode food web indices and trophic group abundance in differentiating habitats with a gradient of anthropogenic impact.. ***Environ. Bioindicators* 2:146-160.**

Briar, S. S., Grewal, P. S., Somasekhar, N., Stinner, D. & Miller, S. A. 2007. Soil nematode community, organic matter, microbial biomass and nitrogen dynamics in field plots transitioning from conventional to organic management. ***Appl. Soil Ecol.* 37:256-266.**

Cheng, Z., Grewal, P. S., Stinner, B. R., Hurto, K. A. & Hamza, H. B. 2008. Effects of turfgrass management practices on soil nematode community and nutrient pools. ***Appl. Soil Ecol.* 38, 174-184.**

Early, J. W., L. Masner, and N. F. Johnson. 2007. Revision of the genus *Archaeoteleia* Masner (Hymenoptera: Platygastroidea, Scelionidae). ***Zootaxa* 1655:1-48**

Fujiwara, Y. and Denlinger, D. L. 2007. p38 MAPK is a likely component of the signal transduction pathway triggering rapid cold hardening in the flesh fly, *Sarcophaga crassipalpis*. ***J. Experimental Biology* 210: 3295-3300.**

Hermes, D. A. 2007. White pine weevil: new headaches from an old pest. ***American Nurseryman* 206(11):8-11.**

Jagdale, G. B. & Grewal, P. S. 2008. Influence of the entomopathogenic nematode *Steinernema carpocapsae* in host cadavers or extracts from cadavers on the foliar nematode *Aphelenchoides fragariae* on *Hosta*. ***Biol. Control* 44:13-23.**

Jagdale, G. B., Casey, M. L., Grewal, P. S. & Cañas, L. 2007. Effect of entomopathogenic nematode species, split application and potting medium on the control of fungus gnats, *Bradysia difformis* (Diptera: Sciaridae) in greenhouse at alternating cold and warm temperatures. ***Biol. Control* 43:23-30.**

Nikbakhtzadeh M. R., Hemp C., Ebrahimi B. 2007. Further Evidence on the Role of Cantharidin in the Mating Behaviour of Blister Beetles (Coleoptera: Meloidae). ***Integrative Biosciences.* 11:141-146.**

Rae, R. G., Verdun, C., Grewal, P. S., Robertson, J. S., and Wilson, M. J. 2007. Biological Control of Terrestrial Molluscs Using *Phasmarhabditis hermaphrodita*: Progress and Prospects. ***Pest Manag. Sci.* 63:1153-1164.**

Williams, R. N., D. S. Fickle, M. A. Ellis. 2007. Chemical Evaluations For Control Of Grape Berry Moth On Grapes, 2006: Arthropod Management Tests 32 (2007) <http://www.entsoc.org/Protected/AMT/AMT32/results.asp>

Williams, R. N., D. S. Fickle. 2007. Chemical Evaluations For Control Of Japanese Beetle On Grapes, 2006: Arthropod Management Tests 32 (2007) <http://www.entsoc.org/Protected/AMT/AMT32/results.asp>

Williams, R. N., D. S. Fickle. 2007. Managing The Multicolored Asian Lady Beetle In Grapes, 2006: Arthropod Management Tests 32 (2007) <http://www.entsoc.org/Protected/AMT/AMT32/results.asp>

Williams, R. N., D. S. Fickle. 2007. Bioassay Evaluation Of Insecticides On Strawberry Fruit And Foliage, 2006: Arthropod Management Tests 32 (2007) <http://www.entsoc.org/Protected/AMT/AMT32/results.asp>

Xie X., Michel A., Schwarz D., Rull J., Velez S., Forbes A., Aluja M., Feder J. Radiation and divergence in the *Rhagoletis pomonella* species complex: inferences from DNA sequence data. ***Journal of Evolutionary Biology*, in press**

## GRANTS

**Fisher, Susan W. and Christopher Andersen.** A Public Dialogue, Academic Research and Public Broadcast at the Intersection of Darwinism and Religion. Templeton Foundation, 2008-2012 \$236,729

**Grewal, P. S.** Laboratory and field evaluations of new *Bacillus thuringiensis* formulations for the curative management of white grubs. Valent Bioscience, 2007. \$18,600

## MISCELLANEOUS

**Elijah Talamas** collected scelionid wasps in Death Valley, California and the adjacent Panamint Valley, from 13-16 December.

**Norm Johnson and Luciana Musetti** visited the insect collection of the Bernice P. Bishop Museum in Honolulu, from 14-18 December.

Congratulations to **Alejandro Chiriboga** and **Maria Gabriela (Gabby) Navarrete**, who were married on December 14!

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 [Abbey](#) or [Polly](#).

Newsletter design: L. Musetti (2007-2008)



*Xylocopa* sp., specimen scanned at 600 dpi