



## Awards and Honors

**Anthony Boughton** was awarded an Iowa State University Research Excellence Award in May. Research Excellence Awards are given to the top 10% of graduate student researchers.

**Greg Courtney** was promoted to Associate Professor with tenure.

**Wilmar Morjan** was awarded a Graduate Student Teaching Excellence Award for Spring 2001. This award is in recognition of Wilmar's outstanding performance as a teaching assistant.

**John VanDyk** has been appointed adjunct instructor.

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## New Graduate Students

**Sandhya Boyapalle** joined the Bonning lab as a Ph.D student. Sandhya received her M.S. in Veterinary Microbiology from Tuskegee University, AL. She will be working on an aphid virus as a Microbiology major.

**Matthew Cummings** joined the Krafur lab as an M.S. student. He graduated from ISU in May 2001 with a B.S. degree in Genetics. He received a Biotechnology Fellowship for his first year of graduate work in Entomology.

**Jeremy Heath** has joined the Baker lab as a Ph.D student. Jeremy received his M.S. at Ohio State University, working at the Ohio Agricultural Research and Development Center in Wooster, Ohio, in Dr. Larry Phelan's group. Jeremy will be working on the semiochemically mediated flight behavior of beetles, his key target species being the corn rootworm.

**Jeffrey Bradshaw** and **Zhiyan Liu** will join the Rice and Bonning labs respectively in the fall as Ph.D. students. **Bryan Clark** and **Keri Deppe** will be joining the Coats lab in the fall as M.S. students.

## Visiting Scientists

**Dr. Mitko Subchev** arrived on May 31 to work in the Jurenka lab for two months on pheromone biosynthesis in moths. Mitko is a visiting scientist from the Bulgarian Academy of Sciences in Sofia.

**Dr. Marija Ivezić**, Fulbright scientist and Professor of Entomology, Plant Protection, University of J.J. Strossmayer, Osijek, Croatia, arrived to work with Jon Tollefson until Oct 21. She works on both insects and nematodes, and the European corn borer in particular. She has been monitoring and conducting research on the western corn rootworm since its arrival in Yugoslavia in 1992 and spread into eastern Croatia by 1996. While in the U.S., Marija will carry out research on a cooperative international research project to screen Croatian corn germplasm for tolerance to the corn rootworm.

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## Departures

**Tun-Ping Yu** completed her two year postdoctoral position in the Beetham lab and left in June for a job with industry in Austin, Texas.

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## Graduations

**Anthony Boughton** graduated in May with a Ph.D. and began postdoctoral research in the Bonning lab to look at the potential risks of a recombinant baculovirus insecticide to insect predators.

**Rachel Binning** graduated in May with an M.S. in Entomology. She took a job as an entomologist at Pioneer Hi-Bred International in Johnston, Iowa. She will be coordinating insect-rearing activities in the Insectary.



Denny Bruck graduated in May with a Ph.D. and is working for the USDA-ARS Corn Insects and Crop Genetics Research Unit.

Chris Peterson graduated with a Ph.D. and is currently working as a postdoctoral researcher in the Coats lab.

Carol Pilcher graduated with a Ph.D. in Ag Education and Entomology. She has returned to Illinois, but will continue to work for ISU extension.

Amy Wiebe graduated with an M.S. and left for a job working as a lab technician in the Boston area.

2001. Spermatophore size and multiple mating: effects on reproductive success and post-mating behaviour in the Indian meal moth. *Animal Behaviour* (in press).

Solomon, K.R., J.P. Giesy, R.J. Kendall, L.B. Best, J.R. Coats, K.R. Dixon, M.J. Hooper, E.E. Kenaga, and S.T. McMurray. 2001. Chlorpyrifos: Ecotoxicological risk assessment for birds and mammals in corn agroecosystems, *Human & Ecological Risk Assessment* 7:497-632.

Wilson, T.A. and R.L. Wilson. 2001. Leaf extracts from Peruvian maize affect larval feeding and development of European corn borer (Lepidoptera: Crambidae). *J. Kansas Entomol. Soc.* 74(2):88-95.

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## Publishing Activity

Boughton, A.J., L.C. Lewis, and B.C. Bonning. Potential of *Agrotis ipsilon* nucleopolyhedrovirus for suppression of the black cutworm (Lepidoptera: Noctuidae) and effect of an optical brightener on virus efficacy. *J. Econ. Entomol.* (in press).

Lam, W.F., L.P. Pedigo, and P.N. Hinz. 2001. Population dynamics of bean leaf beetles (Coleoptera: Chrysomelidae) in central Iowa. *Environ. Entomol.* 30:562-567.

Lewis, R.E. and G.E. Haas. 2001. A review of the North American *Catallagia Rothschild*, 1915, with the description of a new species (Siphonaptera: Ctenophthalmidae: Neopsyllinae: Phalacroscyllini). *J. Vector Ecol.* 26(1):51-69.

Peterson, C.J. and J.R. Coats. 2001. Insect repellents: Past, present and future. *Pesticide Outlook*. (August issue).

Pilcher, C.D., M.E. Rice, R.A. Higgins, and R. Bowling. 2001. Pollen drift from Bt corn: efficacy against European corn borer (Lepidoptera: Crambidae) in adjacent rows of non-Bt corn. *Environ. Entomol.* 30:409-414.

Pilcher, C.D. and M.E. Rice. 2001. Effect of planting dates and *Bacillus thuringiensis* corn on the population dynamics of European corn borer (Lepidoptera: Crambidae). *J. Econ. Entomol.* 93:730-742.

Ryne, C., J-W. Zhu, S. Van Dongen, and C. Löfstedt.

## Extension, Educational, and Technical Publications

A revised version of 'Field Records for Integrated Crop Management, Restricted-use Pesticide Applications, and Manure Applications' is available through the Extension Distribution Center, reference ICM 1. It is a pocket-size booklet that contains reference materials and space for recording field activities including pesticide applications, manure applications, planting details, and rainfall. Contributors include Joyce Hornstein and Agronomy Department staff. Julie Todd is the editor.

'For Pesticide Work, Guard Your Hands with Gloves' is the title of a new educational display produced by Janis Stone, Textiles and Clothing, and Joyce Hornstein. A brochure to accompany the display is ISU Extension, PM 1878. The display and brochure were funded by the Iowa Department of Agriculture and Land Stewardship through a grant for the U.S. Environmental Protection Agency.

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## Patents/Intellectual Property

Patent application submitted: Attractant Blend for *Drosophila* Fruit Flies. Thomas C. Baker, Kye Chung Park, and Junwei Zhu, Inventors.



## Out of State Travel

**Thomas C. Baker** traveled to Washington, DC, on May 7-11 to participate on the grants evaluation panel of the USDA/NRI Entomology/Nematology Organismal Program. He traveled to Geneva, NY, on June 27-July 4 to present a talk at the New York State Agriculture Experiment Station at Geneva (Cornell University) and to discuss collaborative research on moth antennal transplants and their effect on olfactory pathways with Dr. Wendell Roelofs.

**Thomas Baker** and **Kye Chung Park** traveled to San Antonio, TX, on June 3-6 to engage in testing and demonstration of antennal biosensors for Defense Advanced Research Projects Agency (DARPA), using the Southwest Research Institute's test facility outside of San Antonio.

**Royce Bitzer** traveled to Monmouth, IL, on June 27-28 to assist in setting up experimental field plots of corn in the Monsanto Agronomy Center.

**Elsie Burbano, Susan Chapman, Laura Hansen Jesse, and Bethzayda Matos-Carrion** traveled to Amboy, IL, June 25-29 to attend the annual Midwest Biological Control Institute conference for graduate students. The subject for the conference this year was Biological Control of Invasive Species. **John Obrycki** also attended the workshop as an instructor.

**Joel R. Coats** traveled to Stillwater, OK, on May 18-20 to attend a Regional Meeting of the Society of Environmental Toxicology and Chemistry. He also traveled to Nashville, TN, to present a report on research at EcoSmart Technologies, Inc. and serve as member of their scientific advisory panel.

**Greg Courtney** and **Joel Gibson** traveled to La Crosse, WI, on June 3-7 to attend the annual meeting of the North American Benthological Society. Joel presented the following paper: Gibson, J.F. & Courtney, G.W. Generic boundaries among Asian *Apistomyiini* (Diptera: Blephariceridae: Blepharicerinae) based on morphology of the immature stages.

**Elwood Hart** traveled to Arizona on May 6-13 for an EEB 585 Extended Field Trip.

**Joyce Hornstein, Rich Pope, and Mark Shour**

traveled to San Antonio, TX, June 9-14 to attend a National Pesticide Applicator Training and Certification Workshop.

**Laura Hansen Jesse** and **John Obrycki** traveled to Kansas City, KS, on May 20-23 to attend and present at a conference on Monarch Population Dynamics.

**Rick Hellmich** was invited by EPA to participate in a workshop on Bt Corn Insect Resistance Management Pest Simulation Model Design and Validation, held in Washington, DC, in June. He also presented a talk entitled "Spare the Plow, Environmental Benefits of Biotechnology: Bt Corn and the Monarch Butterfly" at the BIO 2001 Convention in San Diego, CA, in June. He also participated in the Biotechnology Communicator's Summit and presented a talk with Keith Pitts from the PEW Foundation entitled, "Case Study: Joint Government-Academia-Industry Response to Questions Raised by the Monarch Butterfly Issue" in St. Louis, MO.

**Larry P. Pedigo** traveled to Baton Rouge, LA, on April 6-10 to attend the annual meeting of the S-281 regional research committee to discuss the Southern Regional CREES project entitled, "Dynamic Soybean Insect Management for Emerging Agricultural Technologies and Variable Environments."

**Todd A. Phillips** traveled to Stillwater, OK, on May 17-21 to attend and present research at the Ozark-Prairie Regional Society of Environmental Toxicology and Chemistry meeting.

**Rich Pope** traveled to Indianapolis, IN, on April 2-7 to participate in the North Central IPM meetings. He also traveled to Washington, DC, on April 27-May 3 to visit cooperating USDA personnel to plan western con belt corn strategic planning meetings.

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## International Travel

**Greg Courtney** and **Joel Gibson** traveled to Thailand during May to visit scientists at Kasetsart, Chiang Mai, and Khon Kaen universities and to conduct field research at Khao Yai, Doi Inthanon, Doi Suthep, and Phu Hin Rongkla national parks. They also met with Greg's co-advisees at Kasetsart and Chiang Mai universities, and initiated plans for two Kasetsart students to visit ISU during Fall 2001.



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**Russell Jurenka** traveled to Sofia, Bulgaria, May 5-14 to conduct research on pheromone biosynthesis in moths as part of a National Science Foundation funded project.

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## Other

**Julie Todd** was an invited speaker at a writing workshop called *Mystery, Mastery, and the Muse*, held at the Gateway in Ames on April 22-24. The participants in her workshop on technical writing and editing included communications specialists and educators from across the United States.

**John VanDyk** contributed a 60-page appendix for the fourth edition of Larry Pedigo's textbook, *Entomology & Pest Management*. The appendix is taken largely from John's Entomology Index of Internet Resources. (<http://www.ent.iastate.edu/list/>)

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## Insect Zoo

The Insect Zoo saw 2,468 participants in April, 1,572 in May, and 7,037 in June to give a three-month total of 11,077 participants. This includes the week of June 23-29 when zoo staff reached 6,562 participants at the following sites: Science Center of Iowa in Des Moines, Sugar Bottom Campgrounds in Coralville, Blank Park Zoo in Des Moines, State 4-H Conference held in the Insect Zoo, The Science Station in Cedar Rapids, Whistle Stop Child Care Center in Huxley, and the UNI Museum in Cedar Falls.