



Awards and Honors

The first Entomology Student Award for Outstanding Service was presented to **Nathan Brockman**. This award is presented in recognition of service at such events as VEISHEA, the Insect Horror Film Festival, and for work with the Insect Zoo.

Gretchen Schultz was awarded an Entomological Society of America undergraduate scholarship, sponsored by the Entomological Foundation.

Laura Weiser received an Iowa State University Teaching Excellence Award, Fall 2000 for her outstanding performance as a Teaching Assistant.

The Department of Entomology Herbert Osborn Awards for Professional Performance 2000 were presented to **Amy Wiebe** (MS student category) and **Chris Peterson** (PhD student category).

The Integrated Crop Management newsletter received a "Certificate of Excellence" during the American Society of Agronomy (ASA) annual meeting held in Minneapolis. This award recognizes specialists in agronomy, entomology, plant pathology, agricultural and biosystems engineering, and extension communications for development of an outstanding newsletter that provides agronomic information in a timely manner. The newsletter was on display in the Educational Materials Award program exhibit area during the 4-day meeting. The award certificates were presented at the ASA Extension Education business meeting on November 6. **Marlin Rice, Julie Todd, Joyce Hornstein, Larry Pedigo, Rayda Krell, Frankie Lam, and Rich Pope** received certificates for contributions that they made in the first half of 2000.

Departures

Nancy Gallagher resigned as Secretary to the Research Leader, Corn Insects and Crop Genetics

New Arrivals

Miriam Lopez joined the Corn Insects and Crop Genetics Research Unit as a Biological Science Technician..

Research Unit to take a job with USDA Market Reporting Service in Des Moines.

Richard Wilson retired from the USDA ARS Plant Introduction Station/Iowa State University on December 31 after 29 years. His research program included identification of the best pollinators of plants maintained at the Plant Introduction Station Farm, and identification of plant-derived factors conferring resistance to insects.

Publishing Activity

Buckelew, L.D., **L.P. Pedigo**, H.M. Mero, M.D.K. Owen, and G.L. Tylka. 2000. Effects of weed management systems on canopy insects in herbicide-resistant soybeans. *J. Econ. Entomol* 93:1437-1443.

Courtney, G.W. 2000. Revision of the net-winged midges of the genus *Blepharicera* Macquart (Diptera: Blephariceridae) of eastern North America. *Mem. Entomol. Soc. Washington* 23:1-99.

Fadamiro, H.Y. and **T.C. Baker**. Suppression of mating of *Plodia interpunctella* (Lepidoptera: Pyralidae) and *Sitotroga cerealella* (Lepidoptera: Gelechiidae) in an infested corn store. *J. Econ. Entomol.* (in press).

Hammond, R.B., L.G. Higley, **L.P. Pedigo**, L. Bledsoe, S.M. Spomer, and T.A. DeGooyer. 2000. Insect defoliation on soybean: influence of row width. *J. Econ. Entomol.* 93:1429-1436.

Harrison, R.L. and **B.C. Bonning**. 2001. Use of proteases to improve the insecticidal activity of baculoviruses. *Biol. Control.* (in press).



Hellmich, R. L. and B.D. Siegfried. Bt Corn and the Monarch Butterfly: Research Update. In "Genetically Modified Organisms in Agriculture — Economics and Politics." Academic Press (in press).

Hurley, T.M., B.A. Babcock, and **R.L. Hellmich**. Bt Corn and Insect Resistance: An Economic Assessment of Refuges. *J. Agric. Resource Econ.* (in press).

Krafsur, E.S., N.L. Bryant, **J.G. Marquez**, and N.T. Griffiths. 2000. Genetic distances among North American, British, and West African house fly populations (*Musca domestica* L.). *Biochem. Genet.* 38:275-284.

Krafsur, E.S., M. Madsen, D.L. Wohlford, S. Mihok, and N.T. Griffiths. 2000. Population genetics of *Glossina morsitans submorsitans* (Diptera:Glossinidae). *Bull. Entomol. Res.* 90:329-335.

Lee, J.H. and **W.A. Rowley**. 2001. The abundance and seasonal distribution of *Culex* (Diptera:Culicidae) mosquitoes in Iowa during 1995-1997. *J. Amer. Mosq. Control Assoc.* (in press).

Lewis, R.E. 2000. A taxonomic review of the North American genus *Orchopeas* Jordan, 1933 (Siphonaptera:Ceratophyllidae:Ceratophyllinae). *J. Vector Ecol.* 25: (in press).

Lewis, R.E. and G.E. Haas. 2000. A review of the North American *Catallagia* Rothschild, 1915, with the description of a new species (Siphonaptera:Ctenophthalmidae:Neopsyllinae:Phalacroscyllini). *J. Vector Ecol.* (in press).

Murphy, M.W., R.F. Dunton, M.J. Perich, and **W.A. Rowley**. 2001. Attraction of *Anopheles* (Diptera:Culicidae) mosquitoes to volatile chemicals in western Kenya. *J. Med. Entomol.* (in press).

Ochieng, S.A., **K.C. Park**, **J.W. Zhu**, and **T.C. Baker**. Functional morphology of antennal chemoreceptors of the parasitoid, *Microplitis croceipes* (Hymenoptera: Braconidae). *Arthr. Struct. Devel.* (in press).

Park, K.C., **J.W. Zhu**, **J. Harris**, **S.A. Ochieng**, and **T.C. Baker**. 2000. Electroantennogram responses of

a parasitic wasp, *Microplitis croceipes*, to host-related volatile and anthropogenic compounds. *Physiol. Entomol.* (in press).

Platt, K.B., J.A. Mangiafico, O.J. Rocha, M.A. Zaldivar, J. Mora, G. Trueba, and **W.A. Rowley**. 2000. Detection of dengue virus neutralizing antibodies in bats from Costa Rica and Ecuador. *J. Med. Entomol.* 37(6):965-67.

Tunaz, H., **R.A. Jurenka**, and D.W. Stanley. 2001. Prostaglandin biosynthesis by fat body from true armyworms, *Pseudaletia unipuncta*. *Insect Biochem. Molec. Biol.* (in press).

Vickers, N.J., T.A. Christensen, **T.C. Baker**, and J. G. Hildebrand. How do odour plume dynamics influence the brain's olfactory code? *Nature (London)* (in press).

Zhu, J.W., **K.C. Park**, **S.A. Ochieng**, R.C. Unelius, **J.J. Obrycki**, and **T.C. Baker**. 2000. Identification of (Z)-4-tridecene from defensive secretion of green lacewing, *Chrysoperla carnea*. *J. Chem. Ecol.* 26:2421-2434.

Extension, Educational, Technical Publications

Anderson, P.L. and **R.L. Hellmich**. Bt Corn and Insect Resistance Management: What are they? Site-Specific Management Guidelines, Potash and Phosphate Institute (in press).

Joyce Hornstein revised Restricted-Use Pesticide Record Keeping Rules for Certified Private Applicators (PAT 11) and developed an insert to PAT 11, called Private Applicator Restricted-Use Pesticide Records Worksheet (PAT 11A).

Donald Lewis and **Mark Shour**. Iowa Commercial Pesticide Applicator Manual, Category 7B Termite Control. Manual CS-20. Edited by Julie L. Todd.

Pedigo, L.P., **W.F. Lam**, **M.E. Rice**, and J. Haanstad. The soybean aphid: what we know and what we don't know. Proc. 2000 Crop Production and Protection Conf., Nov. 29-30, Ames, IA. pp. 63-74.

The Pest Management and the Environment group produced Extension Publications IPM 66 and IPM 66A, posters entitled "Don't go until it is 50 de-

grees or below." Posters were distributed to more than 1,300 fertilizer dealerships and 1,100 Certified Crop Advisers in Iowa.

Rice, M.E., R.K. Krell, W.F. Lam, and L.P. Pedigo. 2000. New thresholds and strategies for management of bean leaf beetles in Iowa soybean. Proc. 1999 Crop Production and Protection Conf., Dec. 1-2, Ames, IA. pp. 75-84.

Mark Shour revised two publications in the Safe Farm series: Dispose of Pesticides properly (PM 1265e) and Work toward Zero Pesticide Storage (PM 1518a).

Out-Of-State Travel

Thomas Baker traveled to the Department of Bioengineering, University of Illinois, Chicago, on October 13-14 to give an invited seminar.

Jeffrey Beetham traveled to Houston, TX, to give a presentation and to moderate a session at the annual meeting of the American Society of Tropical Medicine and Hygiene.

Jason Belden, Joel Coats, and Todd Phillips traveled to Nashville, TN, from November 11-16 to present research at the national meeting of the Society of Environmental Toxicology and Chemistry.

Edwin Berry traveled to San Antonio, TX, from October 23-27 to participate in the area-wide insect management annual meeting.

Joel Coats traveled to Chicago, IL, from October 16-19 to participate in a workshop on mosquito larval control sponsored by Clarke Mosquito Control Company. He also traveled to Nashville, TN, from December 6-8 to present research results at the EcoSmart Technologies board meeting.

Greg Courtney traveled to Clemson University on November 17-20 for research, then to Michigan State University on November 21-22 to visit the butterfly rearing facility and meet with aquatic entomologists.

Jerald DeWitt traveled to the USDA Waterfront

Building in Washington, DC, from October 17-22 to attend the Integrated Pest Management National Meeting. He also traveled to Lincoln, NE, from November 15-17 to attend the Sustainable Agriculture Research and Education (SARE) Administrative Council Meeting. DeWitt traveled to Washington, DC, from December 6-10 to work on Sustainable Ag projects with National Sustainable Ag personnel.

Richard Hellmich was invited to participate on two EPA Science Advisory Panels for Bt Plant-Pesticides Risk and Benefit Assessments: "Insect Resistance Management" and "Gene flow, Outcrossing, Environmental Fate in the Soil, and Non-target Organisms Effects," in Washington, DC, in October. He also attended and chaired the NCR-148 meeting, "Migration and Dispersal of Insects and other Biota," on November 23-24, in East Lansing, MI, and organized a meeting held in Chicago, IL, November 16-17 to review research conducted in 2000 on monarch butterflies and Bt corn, and gave three presentations. EPA, USDA and 20 scientists attended the meeting.

Joyce Hornstein traveled to Minneapolis, MN, from November 5-9 to attend the American Society of Agronomy Meeting and to chair the Agricultural Extension session.

Frankie Lam attended the Monarch-Bt workshop in Chicago, IL, on November 16-17 for a data review meeting on butterfly life history and abundance within corn and soybean fields, roadsides, and uncultivated areas. He also traveled to Chicago, IL, on December 6-8 to attend the 30th Soybean Seed Research Conference of the American Seed Trade Association and to present an invited paper, "Insects, Virus Interactions, and Seed Quality."

Donald Lewis visited Brookings SD, on November 2 as an invited speaker for the South Dakota Pest Control Conference. Presentations were transmitted to three remote locations via Internet interactive teleconferencing.

Les Lewis traveled to Beltsville, MD, November 15-16 to meet with National Program Leaders of the USDA-ARS and to Chicago, IL, November 16-17 to participate in the Monarch Bt Workshop.



John Obrycki traveled to Amboy, IL, from October 10-12 to meet with colleagues from Purdue University and the University of Illinois, to work on biological control courses and grant applications. He also traveled to Madison, WI, from October 23-25 to attend the North Central Regional Committee Meeting on the biological control of arthropod pests and weeds (NCR-125).

Marlin Rice traveled to Chicago, IL, from October 9-10 to attend the Soybean Aphids Research meeting (NC-502). He also traveled to Detroit, MI, from November 20-21 to speak at the pest management workshop sponsored by the University of Guelph, Ontario. Rice also traveled to St. Louis, MO, on December 13 to meet with scientists from Monsanto to discuss research for the year 2001.

Wayne Rowley traveled to Berkeley, CA, from October 12-18 to attend the annual meetings of the Society for Vector Ecology. He also traveled to Houston, TX, from October 28 through November 1 to attend the annual meetings of the American Society of Tropical Medicine and Hygiene.

Mark Shour traveled to Charlotte, NC, from November 7-11 to attend the Tree Care Expo, a series of seminars and workshops to educate the industry in the proper care of woody ornamental landscape plants.

Colothdian Tate, Jon Tollefson and Ted Wilson traveled to St. Louis, MO, from October 10-11 to present a paper at the Monsanto Corn Rootworm-Protected Data Review.

Jon Tollefson traveled to San Antonio, TX, from October 24-26 to participate in the annual coordination and planning meeting of the USDA ARS Area-Wide Corn Insect Management Project as a representative of the Iowa site. He also traveled to San Diego, CA, from October 30 through November 1 to participate in the workshop to set national priorities for crop production and protection from insect and mite pests affecting US agriculture. Tollefson traveled to Lincoln, NE, from November 27-28 to meet with Jay Pershing, Monsanto, and Lance Meinke, University of NE, to discuss resistance management plans for Corn Rootworm transgenic varieties.

International Travel

Thomas Baker traveled to Paris, France from November 25-28 and then to Lund, Sweden from November 28 through December 3. He presented an invited talk to the INRA pheromone group at Versailles, France and discussed a collaborative project on pheromone reception biochemistry. He discussed collaborative research on calcium imaging of moth antennal lobes with the pheromone research group at the University of Lund, Department of Ecology, and attended the dissertation exam of a PhD student, Jane Fan, as a member of her exam committee.

Jeffrey Beetham traveled to Thailand from November 9-17 to set up collaborative links between Iowa State University and Kasetsart and Mahidol Universities.

Donald Lewis traveled to San Jose, Costa Rica from October 7-12 for an initial visit for the group study abroad program, "Integrated Pest Management of Tropical Crops" (ENT 511), to be taught Spring Semester 2001 with Mark Gleason (Plant Pathology) and Kathleen Delate (Horticulture). He also presented an invited lecture at the University of Costa Rica entitled "Insect Pest Management for Golf Courses."

Jon Tollefson traveled to Stuttgart, Germany from November 15-19 and to Osijek, Croatia from November 19-22 to collaborate with the Croatian scientist Prof. M. Ivezic and corn breeders of the University of J.J. Strossmayer and to develop an international research grant for screening corn germplasm for tolerance to the western corn rootworm. He also participated in the 7th meeting of the International Working Group on *Ostrinia* and other Maize Pests and the European Plant Protection Organization's meeting on *Diabrotica vigifera*.

Wayne Rowley traveled to Costa Rica from November 15-21 for continuation of the dengue research project.

Annual meeting of the Entomological Society of America

The 2000 Joint annual meeting of the Société d'entomologie du Québec, Entomological Society of Canada, and the Entomological Society of



America was held December 3-6, 2000 in Montréal, Québec, Canada. **Marlin Rice** served as program chair for the meeting. The meeting was attended by the following faculty: **Thomas Baker, Joel Coats, Richard Hellmich, Marlin Rice, Wayne Rowley, Jon Tollefson***, and **Junwei Zhu***; postdocs: **Samuel Ochieng*** and **Kye Chung Park***; and students: **Patricia Anderson***, **Rachel Binning***, **Denny Bruck, Rayda Krell, Seong-Gyu Lee***, **Wilmar Morjan***, **Timothy Nowatzki***, **Chris Peterson, Carol Pilcher***, **Colothdian Tate***, **Laura Weiser***, and **Amy Wiebe***.

* presented research results at the meeting

In addition, **Patricia Anderson** was selected to serve on the ESA National Student Affairs Committee and will serve as the vice-chair for the website sub-committee. **Richard Hellmich** co-organized an Informal Conference at the ESA annual meeting entitled, "Effects of transgenic corn on monarch butterflies: Progress reports."

Other

Richard Hellmich, Marlin Rice, and Frankie Lam organized a workshop entitled, "Of Monarchs and Men: Possible Influences of Bt Corn in the Agricultural Community," at the Iowa State University 12th Annual Integrated Crop Management Conference, which was held November 29-30.

Julie Todd handled 64 manuscripts for the Journal of Economic Entomology in 2000. Thirty-one of these manuscripts have been accepted for publication.