



Personnel News

Linda Ho, an Iowa State University pre-med undergraduate joined the **Bonning** laboratory for 8 weeks through the Program for Women in Science and Engineering. Linda is working with **Zhiyan Liu** on determining the intracellular localization of a putative juvenile hormone esterase binding protein.

Duanmu Deqiang, a Molecular, Cellular and Developmental Biology graduate student, conducted a rotation in the **Bonning** laboratory in May/June.

Jumnongjit Phasuk (Ph.D. student) and Dr. Jariya Chanpaisaeng arrived on May 10 to work in the **Courtney** laboratory. Both are visiting from Kasetsart University, Thailand. Chanpaisaeng's visit ended on May 25. Phasuk, a co-advisee of Courtney working on Thai Simuliidae, will remain at ISU until August.

Other Thai visitors to the **Courtney** laboratory included Penkhae Thamsenanupap (Ph.D. student) and Dr. Porntip Chantaramongkol. Both arrived on June 22 and are visiting from Chiang Mai University. Chantaramongkol returned to Thailand on June 30. Thamsenanupap, a co-advisee of Courtney working on torrential insects, will remain at ISU until December.

Hun-Sub Jeong received an M.S. degree in May. His thesis title was "Hydrocarbon pheromone biosynthesis in female velvetbean caterpillar moth, *Anticarsia gemmatalis*." **Russell Jurenka** was his major advisor.

Jarrad R. Prasifka recently completed his Ph.D. in entomology from Texas A&M University and has joined the USDA-ARS, Corn Insects and Crop Genetics Research Unit as a postdoctoral research associate. Jarrad will be working on insect resistance management and nontarget issues related to transgenic corn.

Awards and Honors

Jon Tollefson received the Fulbright Senior Specialist Award Council for International Exchange of Scholars. He will serve as a consultant from July 6 to 20 to the University of J.J. Strossmayer, Osijek, Croatia, on research concerning the western corn rootworm.

Jon Tollefson has two visitors from the University of J.J. Strossmayer in Osijek, Croatia: Emilija Raspudic and Andrija Brkic. Both will spend July and August working on *Diabrotica* spp. Emilija is a visiting scientist and Andrija is a undergrad summer intern.

Publishing Activity

Aldrich, B.T., E.S. Krafur, and S. Kambhampati. (2003) Species-specific allozyme markers for Appalachian wood-feeding cockroaches (Dictyoptera: Cryptocercidae) *Biochemical Genetics* (in press).

Anderson, P.L., M.J. Weiss, **R.L. Hellmich**, M.P. Hoffmann, and M.G. Wright. (2003) Millet preference, effects of planting date on infestation, and adult and larval use of proso millet by *Ostrinia nubilalis* (Lepidoptera: Crambidae). *Journal of Economic Entomology* 96: 361–369.

Belden, J.B., T.A. Phillips, **K.D. Henderson**, **B.W. Clark**, M.J. Lydy, and **J.R. Coats**. (2003) Persistence, mobility, and bioavailability of pendimethalin and trifluralin in soil, chapter 10, in *Environmental Fate and Effects of Pesticides* (J.R. Coats and H. Yamamoto eds.) pp 167–177, American Chemical Society, Washington, DC.

Bonning, B.C. (2003) Biotechnology and insects, in *Encyclopedia of Insects* (V.H. Resh and R.T. Cardé eds.), Elsevier Science USA, San Diego.



Choi, M-Y., E-J. Fuerst, D. Rafaeli, and R.A. Jurenka. (2003) Identification of a G protein-coupled receptor for pheromone biosynthesis activating neuropeptide from pheromone glands of the moth, *Helicoverpa zea*. *Proceedings of the National Academy Sciences* (in press).

Coats, J.R. and H. Yamamoto (eds) (2003) *Environmental Fate and Effects of Pesticides*, American Chemical Society, Washington, DC.

Harrison, R.L. and B.C. Bonning. (2003) Comparative analysis of the genomes of *Rachiplusia ou* and *Autographa californica* multiple nucleopolyhedroviruses. *Journal of General Virology* 84: 1827–1842.

Hellmich, R.L., J.R. Prasifka, and P.L. Anderson (2003) Effects of Bt plants on nontarget herbivores, in *Genetically Modified Organisms - Ecological Dimensions* (H.F. van Emden and A.J. Gray eds.), Association of Applied Biologists, Wellesbourne, Warwickshire, UK.

Krafsur, E.S. (2003) Genetic diversity and gene flow in morsitans group tsetse flies. *Tsetse and Trypanosomiasis Quarterly* 25: 141–146 (invited paper).

Lee, S., C.J. Peterson, and J.R. Coats (2003). Fumigation toxicity of monoterpenoids to several stored product insects. *Journal of Stored Product Research* 39: 77–85.

Ouma, J.O., M.A. Cummings, K.C. Jones, and E.S. Krafsur. (2003) Characterization of microsatellite markers in the tsetse fly, *Glossina pallidipes* (Diptera: Glossinidae). *Molecular Ecology Notes* (in press).

Phillips, T.A., J.B. Belden, M. Stroud, and J.R. Coats (2003) Evaluation of a cold-water hand-washing regimen in removing carbaryl residues from contaminated fabrics. *Bulletin of Environmental Contaminants and Toxicology* 71: 6–10.

Pilcher, C.D. and M.E. Rice. (2003) Economic analysis of using planting dates to manage European corn borer (Lepidoptera: Crambidae) with Bt corn. *Journal of Economic Entomology* 96: 941–949.

Rafaeli A., T. Zakharova, Z. Lapsker, and R.A. Jurenka (2003) The identification of an age- and female-

specific putative PBAN membrane-receptor protein in pheromone glands of *Helicoverpa armigera*: possible up-regulation by Juvenile Hormone. *Insect Biochemistry and Molecular Biology* 33: 371–380.

Rice, M.E. (2003). New host plant associations and distribution records for tortoise beetles (Coleoptera: Chrysomelidae: Cassidinae) from southern Africa. *Coleopterists Bulletin* 57: 79–83.

Zhao, S., E.L. Arthur, and J.R. Coats. (2003) The use of native prairie grasses to degrade atrazine and metolachlor in soil, chapter 9, in *Environmental Fate and Effects of Pesticides* (J.R. Coats and H. Yamamoto eds.) pp 157–166, American Chemical Society, Washington, DC.

EXTENSION, EDUCATIONAL, AND TECHNICAL PUBLICATIONS

Jeff Bradshaw contributed 15 articles to *Integrated Crop Management* newsletter.

Mark Shour and **Julie Todd** produced the May 2003 issue of *Integrated Pest Management for Schools* newsletter (IPM 70-7). **Ken Holscher** and **Joyce Hornstein** were contributing authors.

Patents/Intellectual Property

Tom Baker, John Obrycki, and Junwei Zhu (inventors). Attractants of beneficial insects. U.S. Patent No. 6,562,332.

Tom Baker, Junwei Zhu, and Kye Chung Park (inventors). Fruit fly attractant compositions. U.S. Patent No. 6, 543,181.

Out-of-State Travel

Bryony Bonning traveled to Washington, DC, June 8–10, to participate in the Stakeholder workshop Future Directions and Research priorities for the USDA Biotechnology Risk Assessment Research Grants Program. Bonning served on the panel dealing with microorganisms and presented a poster entitled, Effects of a protease-expressing recombinant baculovirus on nontarget insect predators of *Heliothis virescens*.



Jeff Bradshaw traveled to Indianapolis, IN, April 5-10, to attend the Dynamic Soybean Pest Management for Evolving Agricultural Technologies and Cropping Systems (S1010) meeting as a member of the research group and to attend the Fourth National IPM Symposium to present research results.

Joel Coats visited Chicago, IL, to teach a module on Toxicology in a mosquito control workshop on April, 30. He traveled to Washington, DC, and Arlington, VA, June 16-20 to serve as a member of the US Environmental Protection Agency FIFRA Scientific Advisory Panel. He also participated as a member of the Scientific Advisory Board for EcoSmart Technologies in Nashville and Franklin, TN, June 25-27 and attended and presented research at the Third Pan-Pacific Conference on Pesticide Science in Honolulu, HI, from May 31 through June 5.

Greg Courtney, **Jumnongjit Phasuk**, and **Jariya Chanpaisaeng** traveled to Hocking Hills State Park, OH, May 16-20, to attend a meeting of the North American Dipterists Society. Courtney presented a paper entitled, "Tales of Thai torrenticoles: the fauna of waterfalls in northern Thailand" and Phasuk, Chanpaisaeng, and Courtney presented a poster entitled, "The black flies (Diptera: Simuliidae) of Khao Yai National Park, Thailand." On the return trip, May 20-21, they visited the Department of Entomology, (University of Missouri, Columbia).

Greg Courtney, **Penkhae Thamsenanupap**, and **Porntip Chantaramongkol** visited the Department of Entomology (University of Missouri, Columbia), June 26-27, to meet with collaborators on a NSF project.

Jerry DeWitt, **Joyce Hornstein**, **Carol Pilcher**, **Rich Pope**, **Mark Shour**, **Jon Tollefson**, **John VanDyk** and **Matt Westgate** all attended the Fourth National Pest Management Symposium/Workshop in Indianapolis, IN, on April 8-10, 2003.

Jerry DeWitt attended the Kellogg Foundation Food and Society Conference in Houston, TX from April 22-24. He traveled to Washington D.C. May 16-28 and June 20-26 to work at the USDA on National Sustainable Ag Program, and attended the Sustainable Ag Administrative Council meeting in Columbus, OH June 17-20.

Richard Hellmich was invited to organize a session on "Images of Sustainable Agriculture: Landscapes, Pest Management, and Biotechnology" and to present a talk "Role of Biotechnology for Sustainable Agriculture" at the Fourth National IPM Symposium, Indianapolis, IN, April 8-10. He was invited to be a steering committee member to organize a CAST symposium and to be a rapporteur for "Management of Pest Resistance: Strategies Using Crop Management, Biotechnology, and Pesticides." Indianapolis, IN. Richard was also invited to present "Butterflies and Bt Corn: Allowing Science to Guide Decisions" at a Carleton College convocation, Northfield, MN and participated as a panel member for a USDA-CSREES, Stakeholder Workshop: Future Directions and Research Priorities for the USDA Biotechnology Risk Assessment Research Grants Program, Washington, DC.

Russ Jurenka presented a seminar to the Department of Entomology at Kansas State University in Manhattan, KS, on April 17-19.

John Obrycki attended a meeting with colleagues from Purdue University, University of Illinois, and Milliken College to prepare a paper based on the distance education biological control course offered during the spring of 2002 from May 5-8.

Marlin Rice served as a Section E (Extension) representative to Governing Board summer meeting of the Entomological Society of America in Lanham, MD May 19-22.

James Romer attended the International Master Gardener Conference in Cincinnati, OH from June 18 through June 23, 2003.

Mark Shour attended the at the Fourth National IPM Symposium in Indianapolis, IN, April 8-10, and presented a poster entitled, "Pilot School Program in Iowa: Approach and Assessment."

John VanDyk moderated a session at the Fourth National IPM Symposium in Indianapolis, IN. The session was entitled, "Aggregating IPM News: Navigating the Information Tsunami Efficiently with RSS." John presented "What is RSS and Why is it Such a Breakthrough?" and **Matt Westgate** presented "Implementing RSS."



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Junwei Zhu traveled to Philadelphia, PA as an invited speaker for a professional presentation May 5-10 and gave an invited talk at the Third Pan-Pacific Conference on pesticide science in Hawaii from May 31 through June 6.

International Travel

Tom Baker traveled to Sweden July 21-29, to chair a session and present an invited paper at the Third International Symposium on Insect Pheromones and to present an invited seminar at the Swedish Agricultural University at Alnarp.

Richard L. Hellmich was invited to participate in a Mexican/U.S. Workshop on Plant Biotechnology and Biosafety/Risk Assessment Research, Irapuato, Mexico.

Laura Jesse attended and presented a poster at the XI International Symposium on the Biological Control of Weeds in Canberra, Australia from April 24 through May 3.

Russell Jurenka traveled to Backaskog Castle, Sweden, to attend the 3rd International Symposium on Insect Pheromones, May 25-29. He presented a talk and helped organize a symposium along with Christer Löfstedt on Biosynthesis, Molecular Biology, and Genetics of Biosynthesis.

Elliot Krafur and **Johnson Odera** traveled to several cities in Kenya and Tanzania to carry out NIH sponsored field research together with the collaborators from the University of Stellenbosch (SA), Kenya Trypanosomiasis Research Institute, and the Tanzania Tsetse and Trypanosomiasis Research Institute from April 20 through May 17. They traveled to the University of Alberta in Edmonton, Canada to present research data, coordinate research on tsetse flies an African trypanosomiasis with interested scientists, and draft plans for manuscripts by meeting participants for journal publication from June 22-28.

Wayne Rowley traveled to Costa Rica to evaluate setting up a research program on West Nile virus in Costa Rica.

Other News

Wayne Rowley's research on West Nile virus is receiving considerable attention from the media. Rowley was featured in an article in the May-June 2003 issue of *Successful Farming*. He also was quoted in the Feature Magazine of the *Chicago Tribune* in May and his research was featured in two front page articles in the *Des Moines Register*. In addition, Rowley appeared in a feature on West Nile virus on the NBC Evening News with Tom Brokaw. The story on WNV was expanded and was part of NBC's Dateline program. NBC also used the story on MSNBC and their Saturday Morning news program. A picture of Dr. Rowley relative to WNV was in the June 30 issue of *Time* magazine.



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