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# Hexapod Herald

Department of Entomology  
Volume 13

July 2001

University of Nebraska-Lincoln  
Number 2

## Welcome

**Analiza Alves** is a new graduate student pursuing a M.S. degree under the supervision of **Dr. Blair Siegfried**. Analiza received her B.S. degree in agronomy from the University of São Paulo in Piracicaba, Brazil.



**Cristina Bastos** and **Fabio Suinaga** recently arrived in the department from Viçosa, Brasil. They will be conducting their research under the "sandwich program" for the next year with **Drs. Leon Higley** and **John Foster**, respectively.

**James Kriz** has begun pursuing a Masters Degree under the supervision of **Drs. Steve Danielson** and Jim Brandle. James is from Brainard, Nebraska and a recent graduate of Wayne State College.

**Dr. Jaime Molina-Ochoa** is a Fulbright Scholar who will be collaborating with **Dr. John Foster** for the next year. Dr. Molina-Ochoa is a Professor and Researcher at the University of Colima in Mexico.

**Youngjin Park** is a visiting scholar in **Dr. David Stanley's** laboratory. Youngjin is a M.S. student at Andong National University at Andong Korea and will be here until September 2001.

### New Distance Masters Students:

**Spring 2001:** **Joann Coyle**, Audubon, NJ; **Marilyn Giannantonio**, Medford, NJ; **Linda Ridinger**, Gibbstown, NJ; **Steven Robertson**, Tyndall AFB, FL; **Maryellen Russell**, Haddon Hts, NJ; **Stuart Slocum**, Thompson, PA; **Michael Trembicki**, Glen Mills, PA.

**Summer 2001:** **Charles Atkinson**, Salina, KS; **Tom Butler**, Dravosburg, PA; **Jon Cavanaugh**, Dhahran, Saudi Arabia; **Allen Dale**, Boise, ID; **Matthew Eichler**, Lake City, MN; **Cory Green**, Springville, UT; **Mark O'Donoghue**, Charlotte, NC; **Brian Olson**, Saskatchewan, Canada; **Dwight Rickard**, Landstuhl, Germany; **Daniel Snethen**, Colome, SD; **Susan Steele**, Scottsbluff, NE; **Jolene Williams**, Okinawa, Japan.

**Fall 2001:** **Amelia Fox**, Cable, WI; **Bryan Smolarz**, Forest Hills, NY; **Bryon Van Ballegooyen**, Johnston, IA.

## Congratulations

**Allen Specht**, Team Leader of the ABEO Business Center, is recipient of the IANR Outstanding Employee Award for Managerial/Professional Staff for May/June 2001. A reception to honor Allen was held on Wednesday, June 27.

**Dr. Tom Clark** (PhD '00) has accepted an Assistant Professor position in the Division of Plant Sciences at the University of Missouri at Columbia.

**Dr. Marion D. Ellis** was granted tenure effective July 1, 2001.

**Dr. Tiffany M. Heng-Moss** was appointed a Graduate Faculty Member effective April 18, 2001.

**Dr. Tiffany M. Heng-Moss** will serve on the CASNR Faculty Advisory Council for a two-year term beginning July 1, 2001.

**Dr. W. Wyatt Hoback** was honored by the UNK Chapter of Mortar Board (honorary society of students with high scholarly and service achievements) for Outstanding Contributions to the University of Nebraska at Kearney in teaching, research, and leadership.

**Dr. Brett Ratcliffe** received the University of Nebraska's Outstanding Research and Creativity Award (ORCA) in April. This award is the highest accolade bestowed by the University of Nebraska system in recognition of a faculty member's research and creative activities. Brett was honored at the UNL Honors Convocation on 7 April and at a luncheon on 16 April and at the 19 May Board of Regents meeting.

**Drs. Mary Liz Jameson** and **Brett Ratcliffe** have been designated as "Research Associates" of the Smithsonian Institution's National Museum of Natural History.

**Dr. Mike Scharf** recently accepted the position of Research Scientist and Director of the Industrial Affiliates Program in the Department of Entomology at Purdue University.

Awards presented at the North Central Branch ESA Meetings, Ft. Collins, CO, March 25-28, 2001:

J.H. Comstock Graduate Student Awards: **Dr. Tiffany M. Heng-Moss**

Entomology Educational Project Award Program (Sponsored by the Board Certified Entomologist of Mid-America)

Bug Bash Project: **Dr. Marion Ellis, Dr. Leon G. Higley, Doug A. Golick**

### Student Competition

M.S. 10-Minute Paper: *First Place*, **Tom Eickhoff**

M.S. Poster Presentation: *First Place*, **Doug Golick**

Undergraduate 10-Minute Paper: *First Place*, Richard Thaden (**Dr. Wyatt Hoback**, Advisor, University of Nebraska-Kearney)

**Rod Madsen** and **Stephanie Suverkrubbe** were united in marriage on May 27, 2001 in Blair, Nebraska.

**Paul Nabity** was awarded a Milton E. Mohr Scholarship for \$1,000 from the UNL Center for Biotechnology for the academic year 2001-2002.

**Karla Villatoro** and Chris Smith were married on June 8, 2001 in Guatemala.

**Marilyn Weidner** received the Exemplary Service to International Students Award sponsored by the Nebraska Alumni Association and International Affairs at a reception on Friday, April 27, 2001.

The following individuals were recognized at the Annual UNL Service Awards presentation:

- **Jack Campbell** . . . . . 35 years service
- **Jim Kalisch** . . . . . 20 years service
- **Marilyn Weidner** . . . . . 20 years service
- **Katherine Gilson** . . . . . 5 years service
- **Bob Roselle** . . . . . 5 years service
- **Terence Spencer** . . . . . 5 years service

Congratulations to **Debbie and Brian Crosby** upon the birth of their first child on March 7, 2001. Conner Ryan weighed in at 7 lb. 12 oz. and was 20 inches long. Debbie is pursuing a Masters Degree via distance ed.

**Chris (M.S. '98) and Todd Davis** welcomed Brandon Nicholas into the family on December 15, 2000. Brandon weighed 7 lbs. 14 oz. and was 19 ½ inches long.

## Personnel Update

**Doug Golick (M.S. '01)** was recently hired as Web Coordinator. He will be working on the Council for Biotechnology Information grant with Dr. Leon Higley.

**Connie Reimers-Hild (M.S. '00)** is the new Distance Education Coordinator. Connie assumed her new position May 14, 2001.

**Jacque Keller** has resigned her position as Project Assistant. Best wishes to Jacque upon her future endeavors.

## Candolences

Our sympathy to **Dr. Steve Danielson** and his family. Steve's father passed away May 14, 2001 after an extended illness.

## Grants

### Fred P. Baxendale

- Bayer . . . . . \$2,000  
White Grub Control

### Marion D. Ellis

- Iowa Beekeepers Association . . . . . \$1,000
- Nebraska Beekeepers Association . . . . . \$2,000
- Wisconsin Beekeepers Association . . . . . \$2,500

### John E. Foster

- Monsanto . . . . . \$4,000  
Larval Feeding Evaluation of Corn Rootworms
- Monsanto . . . . . \$4,000  
Evaluate Feeding Behavior of Western Corn Rootworms

### Tiffany M. Heng-Moss

- Layman Funds . . . . . \$7,300  
"Characterization of Photosynthetic Responses in Agronomic Crops and Turfgrasses Challenged by Chinch Bugs"

### Gary L. Hein, Roy French, Steven Hu, Linda Young

- ARD Interdisciplinary Research Grants Program . . . \$15,050  
"Wheat Curl Mite Movement and Wheat Streak Mosaic Virus Spread from Volunteer"

### Leon G. Higley

- Monsanto . . . . . \$5,000  
Applied Research on Crop Insects

### Thomas E. Hunt

- Layman Funds . . . . . \$7,500  
"Bean Leaf Beetle Overwintering Habitat Selection and Survival in the West-Central U.S. Soybean Production Region"

### Lance J. Meinke

- Monsanto . . . . . \$5,000  
Corn Rootworm Greenhouse Emergence Study

### Blair D. Siegfried, Lance Meinke, David Gosselin, Ed Harvey, Thomas E. Hunt

- ARD Interdisciplinary Research Grants Program . . . \$20,060  
Using Trace Elements for Labeling Corn Tissue and Insect Pests for Mark-Recapture Experiments

### David W. Stanley

- North Atlanta Treaty Organization . . . . . \$6,740  
"Prostaglandin Biosynthesis: Cloning and Sequencing an Insect Cyclooxygenase"

**Dr. Leon Higley and Paul Nability** were awarded an Undergraduate Creative Activity and Research Experience (UCARE) grant for \$2,400. The title of Paul's project is "Responses of Spearscale to Biotic and Abiotic Factors."

**Drs. Mary Liz Jameson (PI) and Brett Ratcliffe (co-PI)** received a second NSF/PEET grant for \$750,000 to continue their research and student training with the Scarabaeoidea. The grant is for five years and begins in September 2002 at the conclusion of their first PEET grant.

**Dr. Mary Liz Jameson**, along with undergraduate Mitch Wellman, received a UCARE grant of \$2,000 from UNL to continue work with the Nebraska Dragonfly Project, which will completely database and georeference the Museum's odonates.

## Graduate Student News

### 2001-2002 Bruner Club Officers

- President** . . . . . **Tom Eickhoff**
- Vice President** . . . . . **Federico Ocampo**
- Secretary** . . . . . **Raj Saran**
- Treasurer** . . . . . **Peter Clark**
- Student Representative** . . . . . **Jeff Carstens**
- Faculty Advisors** . . . . . **Dr. Mary Liz Jameson**  
. . . . . **Dr. Tiffany Heng-Moss**

Congratulations to the following students who graduated in May:

- **Brian Clark**, M.S. (Advisors: **Drs. Dave B. Taylor** and **Tom O. Powers**)
- **Douglas Golick**, M.Ed. (Advisors: Drs. David Fowler and **Marion Ellis**)
- **Abel Pitti**, M.S. (Advisors: **Drs. John E. Foster** and **Steve R. Skoda**)
- **John Thomas**, M.S. (Advisor: **Dr. Gary L. Hein**)
- **Amelia Zoerb**, M.S. (Advisor: **Dr. Blair D. Siegfried**)

**Leela Alamalakala** received a \$1,000 Milton E. Mohr fellowship for the 2001-2002 academic year from the Center for Biotechnology.

**Analiza Alves** received a \$2,000 stipend from the Mary and Charles C. Cooper/Emma I. Sharpless Fellowship.

**Jon Bedick** is recipient of the Mabel J. Riechenbach Fellowship for 2001-2002 with a stipend of \$4,000.

**Joan Christen** received a Tier II Lottery Grant for \$151,258 entitled B.U.G.S. (Bringing Understanding thru Global Studies).

(Only 7 applications out of 52 were funded.) Joan teaches at the Southeast Nebraska Consolidated School in Stella, Nebraska and is pursuing a Masters Degree via distance. **Drs. Steve Danielson** and **Brett Ratcliffe** will serve as resources for the project. Joan also received a NSEA Teaching Excellence Award.

**Peter L. Clark** has been selected to receive the 2001-2002 Widaman Trust Distinguished Graduate Assistant Award from the Agricultural Research Division. An additional \$2,000 will supplement Peter's assistantship.

**Kevin Delaney** received a research grant for \$1,000 from the Initiative for Ecological and Evolutionary Analysis (IEEA) sponsored by UNL. Kevin is also the recipient of the Hardin Distinguished Graduate Fellowship for 2001-2002 which provides a \$2,000 supplement to his graduate assistantship.

**Eric Durham** has accepted an offer to attend Pharmacy School at the University of Georgia and will begin in August of this year.

**Thomas E. Eickhoff** has been selected to receive the 2001-2002 Milton E. Mohr Fellowship in Agriculture awarded by the College of Agriculture Sciences and Natural Resources. Tom will receive \$2,000 in addition to his assistantship.

**Paula Macedo** is the recipient of a \$14,000 major fellowship for the 2001-2002 academic year. Paula is also the recipient of the 2001 Eastern Apicultural Society Student Award. The award will be presented at the annual EAS Conference in August 2001 in Massachusetts.

**Federico Ocampo** received a 2001 Graduate Teaching Assistant Award from the Nebraska Alumni Association. The award comes with an engraved plaque and \$500. Federico also received a research grant (for systematics field work in Argentina) of \$2,500 from the Initiative for Ecology and Evolutionary Analysis sponsored by UNL. In addition, Federico has been selected to receive the 2001-2002 Widaman Trust Distinguished Graduate Assistant Award which provides a \$2,000 supplement to his assistantship.

**Andrew Smith** received a travel grant (ESA San Diego) of \$500 and a research grant of \$1,500 (for molecular systematics work at University of California-Riverside) from the Initiative for Ecology and Evolutionary Analysis sponsored by UNL. Andrew also received a Sue Wilson Fellowship from the University of Nebraska for \$1,250.

**Hasan Tunaz** received a \$1,000 Milton E. Mohr fellowship for the 2001-2002 academic year from the Center for Biotechnology.

**Karla Villatoro** received a Gretchen Bechtol Lee scholarship from the University of Nebraska for \$2,000.

## *Publications*

**Barrigossi, J.A.F., G.L. Hein, and L.G. Higley.** 2001. Life Tables and Larval Dispersal of Mexican Bean Beetle (Coleoptera: Coccinellidae) on Dry Bean in the High Plains. *Environ. Entomol.* 30: 235-243.

**Barrigossi, J.A.F., L.J. Young, C.A. Gotway Crawford, G.L. Hein, and L.G. Higley.** 2001. Spatial and Probability Distribution of Mexican Bean Beetle (Coleoptera: Coccinellidae)

Egg Mass Populations in Dry Bean. *Environ. Entomol.* 30: 244-253.

**Cabrera, B.J. and S.T. Kamble.** 2001. Effects of Decreasing Thermophotoperiod on the Eastern Subterranean Termite (Isoptera: Rhinotermitidae). *Environ. Entomol.* 30: 166-171.

**Campbell, J.B., D.J. Boxler, and R.L. Davis.** 2001. Comparative Efficacy of Several Insecticides for Control of Cattle Lice (Mallophaga: Trichodectidae and Anoplura: Haematopinidae). *Veterinary Parasitology* 96: 155-164.

**Campbell, J.B., S.R. Skoda, D.R. Berkebile, D.J. Boxler, G.D. Thomas, D.C. Adams, and R. Davis.** 2001. Effects of Stable Flies (Diptera: Muscidae) on Weight Gains of Grazing Yearling Cattle. *J. Econ. Entomol.* 94: 780-783.

**Danielson, S.D., J.R. Brandle, and L. Hodges.** 2001. Parasitoids of the Bean Leaf Beetle (Coleoptera: Chrysomelidae) Found in Nebraska Soybean Fields. *J. Kans. Entomol. Soc.* 73:242-244.

**Danielson, S.D., J.R. Brandle, L. Hodges, and P. Srinivas.** 2000. Bean Leaf Beetle (Coleoptera: Chrysomelidae) Abundance in Soybean Fields Protected and Unprotected by Shelterbelts. *J. Entomol. Sci.* 35: 385-390.

**Hoback, W.W. and D.W. Stanley.** 2001. Insects in Hypoxia. *J. Insect Physiol.* 47: 533-542.

Mico, E., W. E. Hall, and **B.C. Ratcliffe.** 2001. Descriptions of the larvae of *Hoplopyga singularis* (Gory and Percheron) and *Hologymnetis cinerea* (Gory and Percheron) with a revised key to the larvae of New World Gymnetini (Coleoptera: Scarabaeidae: Cetoniinae). *Coleopterists Bull.* 55: 205-217.

**Ni, X. and S.S. Quisenberry.** 2000. Comparison of DIMBOA Concentrations Among Wheat Isolines and Corresponding Plant Introduction Lines. *Entomologia Experimentalis et Applicata* 96:275-279.

**Park, N-J. and S.T. Kamble.** 2001. Decapitation Impacting Effect of Topically Chlorpyrifos on Acetylcholinesterase and General Esterases in Susceptible and Resistant German Cockroaches (Dictyoptera: Blattellidae). *J. Econ. Entomol.* 94: 499-505.

**Paucar-Cabrera, A.** 2001. Overview of the tribe Anomalini, Genera of the New World.  
<http://www-museum.unl.edu/research/entomology/Guide/Rutelinae/Anomalini/AnomaliniO.htm>

**Paucar-Cabrera, A.** 2001. Profiles of the species of *Epectinaspis* (Coleoptera: Scarabaeidae: Rutelinae: Anomalini).  
<http://www-museum.unl.edu/research/entomology/Guide/Rutelinae/Anomalini/Epectinaspis/Epectinaspis.htm>

**Ratcliffe, B.C.** 2001. Book Review. *Fauna Iberica*, Vol. 14: Coleoptera, Scarabaeoidea I by F. Martin Piera and J.L. Lopez-Colón. *Coleopterists Bull.* 55: 124.

**Ratcliffe, B.C.** 2001. New Journal Review. *Cetoniimania*, a publication devoted to Cetoniinae, Valginae, and Trichiinae published by R. Alexis and M. Delpont. *Coleopterists Bull.* 55: 123-124.

**Ratcliffe, B. C.** 2001. Book Review. Bomby, the Bombardier Beetle by H. M. Rue. *Coleopterists Bulletin* 55: 241-242.

**Scharf, M.E., S. Parimi, L.J. Meinke, L.D. Chandler, and B.D. Siegfried.** 2001. Expression and Induction of Three Family 4 Cytochrome P450 (CYP4) Genes Identified from Insecticide-Resistant and Susceptible Western Corn Rootworms, *Diabrotica virgifera virgifera*. *Insect Molec. Biol.* 10: 139-146.

**Smith, A. B. T.** 2001. Checklist of the Scarabaeoidea of the Nearctic realm.  
<http://www.museum.unl.edu/research/entomology/nearctic.htm>

**Smith, A.B.T. and M.L. Jameson.** 2001. Eremophygus bicolor (Gutierrez) (Coleoptera: Scarabaeidae: Rutelinae: Rutelini): a new tribal and generic placement for the Bolivian scarab *Platycoelia bicolor* (Gutierrez) (Anoplognathini). *Coleopterists Bull.* 55: 103-106.

**Srinivas, P., S.D. Danielson, C.M. Smith, and J.E. Foster.** 2001. Cross-Resistance and Resistance Longevity as Induced by Bean Leaf Beetle, *Ceratomya trifurcata* and Soybean Looper, *Pseudoplusia includens* herbivory on Soybean. 5 pp. *J. Insect Sci.* 1:5. Available online: <http://www.insectscience.org/1.5>.

**Tunaz, H., R.A. Jurenka, D.W. Stanley.** 2001. Prostaglandin Biosynthesis by Fat Body from True Armyworms, *Pseudaletia unipuncta*. *Insect Biochem. Molec. Biol.* 31: 435-444.

**Wright, R.J. and T.A. DeVries.** 2000. Species Composition and Relative Abundance of Coccinellidae (Coleoptera) in South Central Nebraska Field Crops. *J. Kans. Entomol. Soc.* 73: 103-111.

#### Book Chapters:

Hellmich, R.L. and **B.D. Siegfried.** 2001. *Bt* Corn and the Monarch Butterfly: Research Update, p. 283-289. *In:* G.C. Nelson (ed.), *Genetically Modified Organisms in Agriculture - Economics and Politics.* Academic Press.

**Siegfried, B.D. and M.E. Scharf.** 2001. Mechanisms of Organophosphate Resistance in Insects, p. 269-291. *In:* Isaac Ishaaya (ed.), *Biochemical Sites of Insecticide Action and Resistance.* Springer-Verlag, Berlin, Heidelberg, New York.

## Travel

**Drs. Brett Ratcliffe and Mary Liz Jameson** presented papers at the Scarab Biocontrol Conference in Maricopa, Arizona in March and studied the entomology research collections at the University of Arizona in Tucson.



Thirty-three faculty and graduate students participated in the North Central Branch meetings at Fort Collins, Colorado March 25-28, 2001.

**Drs. Shripat Kamble and Bob Wright** participated in the annual meeting of the NC IPM Regional committee and NDC Pest Management Center in Indianapolis, Indiana, April 3-5.

**Drs. Shripat Kamble and Z B Mayo** attended the ESA Governing Board at from May 17-19 at ESA Headquarters in Lanham, Maryland.

**Drs. Brett Ratcliffe and Mary Liz Jameson**, along with graduate students **Andrew Smith** and **Federico Ocampo**, conducted research in the principal European scarab collections in Paris, Berlin, Prague, Leiden (Netherlands), and London in May.

**Drs. Brett Ratcliffe and Mary Liz Jameson** conducted research and collected in Honduras, Nicaragua, and El Salvador 12-28 June as part of Ratcliffe's NSF Biotic Surveys and Inventory grant.

## From the Office



**Credit Card Purchases.** Please remember to get credit card receipts to Barb Andersen every week. Reconciliation of the credit cards is done on Tuesday so all receipts need to be on her desk by Monday. Please fill out a requisition/purchase order form for each charge.

**Telephone.** Personal long distance phone calls cannot be charged to UNL telephone numbers. Barb will be giving copies of the phone charges to faculty each month for their review.

Information Services Communications and Operations is now charging for conference call assistance. The set-up fee is \$3 per call for both operator-assisted calls and meet-me bridge calls.

**Vehicle Logs.** Did you know that each vehicle is assessed a \$10 late fee if the mileage log is not turned in by the 7<sup>th</sup> of each month? Logs can be sent to Transportation Services through the mail, faxed to 2-8660 or entered on-line: <http://transportation.unl.edu>

### Entomology Fall Faculty Meeting Dates

9:30 AM - 214 Plant Industry Bldg  
September 19 - October 17 - December 5

## Calendar of Events



The "Departmental Calendar" can now be accessed through the Entomology homepage  
<http://entomology.unl.edu/announce/events.htm>

#### August 2, 2001

- Panhandle Research and Extension Center Field Day, Scottsbluff

#### August 5-9, 2001

- Rocky Mountain Conference of Entomologists, Woodland Park, Colorado (<http://www.okstate.edu/rmce/>)

#### August 6, 2001

- Nebraska Turfgrass Field Day, ARDC, Ithaca

#### August 21, 2001

- Haskell Ag Lab Tour, Concord

#### August 27, 2001

- First Day of Classes

#### August 29-30, 2001

- Nebraska/Kansas Sorghum Research Symposium, Clay Center

#### December 9-13, 2001

- Entomological Society of America Annual Meeting, 2001: *An Entomological Odyssey*, Town and Country Resort and Convention Center, San Diego, California

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