# ANNUAL REPORT OF THE DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY 2010

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The Department of Ecology and Evolutionary Biology appreciates the financial support of the following individuals and special funds:

Harold E. Alexander, Jr.
Ken and Katie Armitage
Jason T. Botz (G06)
Arthur L. Buikema, Jr., (G65, G70)
Daniel C. and Alicia B. Brune (C67, C68)
Mary Lou P. Coulston (G72)
Barbara and Howell Daly (C59 G55 G60)
Douglas D. Dedo (C65)
David A. and Sarah M. Doll (F68 C68 M72 M74 M76)
Judith Follo (G03)
Jon K. Evalyn B. Gelhaus (G89)
Marjorie Bedell Greer (C55, C56)
Christopher H. and Marsha S. Haufler
Ilse Hardy
Warren D. Hauk (G90)

C – class of
G – graduate school

Crista L. Johnson (C97)
Patricia H. Kerfoot and William B. Kerfoot, Jr.
Amy M. McMillan and Christopher Pennuto (G99, G94)
Thadd R. and Virginia K. Preisner (G73)
Herbert H. Regier (C39)
Beverley Cobb Richards (C59, G62)
Michael K. Rust (G73, G75)
Nancy J. Schuldt (G98)
Orlando A. Schwartz (G79)
Ronald H. and Mary C. Segal (G65 G66 G67)
Debra Shoger (C87)
Gaylea P. Silvers (C95)
Pamela S. Soltis (G86)
Michele M. and Kevin R. Toal, III (C93, C93)
Edith L. and Thomas N. Taylor
Shuping Ye (C90, G92)
James Zeller (G69)

Special Funds:
James “Steve” Ashe Memorial
Byron Alexander Memorial
Raymond H. Beamer Memorial and Scholarship Fund
William J. Bell Memorial
Chet Calkins and Joe Camin Memorial
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Florene B. Fritcher Botany Fellowship
George E. Gould Student Assistance Fund
Lewis C. Hack Scholarship Fund
Mary Harkey Hall Award in Plant Biology Fund
H. B. Hungerford Fund

Insect Flight Research Fund
Arthur J. Mix Fund
Donald J. Obee Scholarship
John K. Ostenberg Memorial
Michener Fund in Entomology
Martha M. Pearson Scholarship
Eugenia S. Polson Fund
William C. Stevens Fund
Edward W. Wiederman in EEB
David Henry Wenrich Memorial

We are deeply appreciative of the extraordinary efforts of Gil Ortiz for his assistance with the report covers.
## FACULTY

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Courtesy/Adjunct FACULTY

Burg, J. Gregory ............................................. Courtesy Assistant Professor
Busby, William H. ............................................ Courtesy Assistant Professor
Crawford, Daniel ............................................ Adjunct Professor
Freeman, Craig C. ............................................. Courtesy Associate Professor
Granier, Bruno R. Claude .................................. Adjunct Research Scientist
Greenfield, Michael ........................................ Adjunct Professor
Huggins, Don .................................................. Courtesy Professor
Kindscher, Kelly ............................................... Courtesy Associate Professor
Krings, Michael .............................................. Adjunct Research Scientist
Lieberman, Bruce S. ........................................... Courtesy Professor
Martin-Cereceda, Merche (Maria) ....................... Adjunct Research Associate
McLeod, David ................................................ Courtesy Research Associate
Smith, Marilyn ................................................ Adjunct Research Associate
Tourtellot, Michael ........................................... Adjunct Assistant Professor
White, Merlin ................................................. Adjunct Research Associate

Postdoctoral Fellows

Becklin, Katie
Blackburn, David
Bomfleur, Benjamin
Decombeix, Anne-Laure
Emry, D. Jason
Glaser, Sarah
Heath, Tracy
Koelling, Vanessa
Li, Jianwei
Medeiros, Juliana
Mellard, Jarad
Preston, Jill
Ryberg, Patricia
Welch, Corey
Zwickl, Derek

Emeritus Faculty

Armitage, Kenneth B.
Byers, George W.
Cutler, Bruce
Duellman, William E.
Johnston, Richard
Lichtwardt, Robert W.
Michener, Charles D.
Torres, Andrew
Schultze, Hans Peter
Slade, Norman
GRADUATE STUDENTS

Abe, Francine
Alexander, Blythe
Andersen, Michael
Barley, Anthony
Barve, Narayani
Bennett, Daniel
Bentlage, Bastian
Benz, Brett
Bergene, Julie
Bodbyl-Roels, Sarah
Cielocha, Joanna
Clark, Taryn
Crowther, Andrea
Davis, Steve
Eash-Loucks, Wendy
Eldredge, Taro
Esselstyn, Jacob
Finch, Debra
Fuiten, Allison
Gerhart, Laci
Grismer, Jesse
Hackett, Jenny
Harper, Carla
Hensz, Chris
Hinojosa-Diaz, Ismael
Hosner, Peter
Jones, Robin
Kilroy, Hayley
Landis, Jacob
Linkem, Charles
Lira-Noriega, Andres
Long, Quinn
Maher, Sean
Maier, Crystal
Marx, Hannah
McLeod, David
McPartlin, Claire
Mickle, Kathryn
Miller, Ginger
Mojica, Julius
Monnahan, Patrick
Murphy, Cheryl
Nawrocki, Annalise
Nuckolls, Kathleen
Nyari, Arpad
Oaks, Jamie
Oliveros, Carl

O’Neill, Brian
Owens, Hannah
Palikij, Jason
Pesek, Mari
Pittman, Kendra
Protti, Piero
Reed, Alexis
Roels, Steve
Romero, Andrea
Sanders, Steven
Schmidt, Sarah
Schwendemann, Andrew
Shin, Choru
Siler, Cameron
Song, Chao
Sparks, Katherine
Su, Yong-Chao
Su, Yong-Chao (Randy)
Suciharjo, Ika
Sukumar, Jeet
Tiemann, Lisa
Toro Nunez, Oscar
Villafuerte, Lynn
Walker, S. Michael
Welton, Luke
Williams, Bradley
Williams, Richard
## ANNUAL REPORT OF THE
### DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY
#### 2010

**Courses Taught by Faculty**

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**Summer 2010**

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**Fall 2010**

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## Journal Publications of Faculty

### ALEXANDER, DAVID

**Journal Publications of Faculty**


### ARMITAGE, KENNETH


### BALLANTYNE, FORD


### BILLINGS, SHARON


### BROWN, RAFF

**Siler, C. D., J. R. Oaks, J. A. Esselstyn, A. C. Diesmos, and R. M. Brown.** 2010. Phylogeny and biogeography of Philippine bent-

*During 2010, faculty had more than 178 peer-reviewed publications*


**Cartwright, Pauly**


**Chaboo, Caroline**


**Crawford, Daniel**


**Engel, Michael**


**Fautin, Daphne**


**Foster, Bryan**


**Haufler, Christopher**


**Hileman, Lena**


**Holder, Mark T.**


**JENSEN, KIRSTEN**


**KELLY, JOHN**


**KINDSCHER, KELLY**


Krishtalka, Leonard

King, N., L. Krishtalka, and V. Chivan. 2010. Thoughts on implementation of the recommendations of the GBIF task force on a global strategy and action plan for mobilization of natural history collections data. *Biodiversity Informatics* 7: 72-76.

Martin, Craig

Martin, C. E. 2010. The occurrence of plants with Crassulacean Acid Metabolism (CAM) photosynthesis in tropical and subtropical rain forests with very high rainfall. *Taiwan J. Forest Science* 25: 3-16.


Martin, Larry


**Martin, Edward**


**McLeod, David**


**Mort, Mark**

MOYLE, ROBERT


**PETERTON, A. Townsend**

Faculty in the Department of Ecology and Evolutionary Biology are representatives on numerous state, national, and international boards and policy-making bodies.


Pierotti, Raymond

SHORT, ANDREW  


SMITH, VAL  


SOBERON, JORGE


TAYLOR, EDITH


**TAYLOR, THOMAS**


**THORP, JAMES**


**TIMM, ROBERT**


**WARD, JOY**


**WILEY, EDWARD**


Books and Book Chapters by Faculty

**ARMITAGE, KENNETH**

**BROWN, RAFE**

**ENGEL, MICHAEL**

**JENSEN, KIRSTEN**

**MARTIN, LARRY D.**

**PETERTON, A. TOWNSEND**


**PIEROTTI, RAYMOND**
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**WILEY, EDWARD**


### Reports, Popular Articles, and Electronic Communications

**ALEXANDER, HELEN**


**BALLANTYNE, FORD**


**BILLINGS, SHARON**


**BLUMENSTIEL, JUSTIN**


**BROWN, RAFE**


**BUSBY, WILLIAM**


**deNOYELLES, FRANK**


ENGEL, MICHAEL

FAUTIN, DAPHNE

FOSTER, BRYAN L.
Foster B. L. and T. Aschenbach. 2010. Secondary succession, community assembly and restoration in grasslands and savannas. DOE Technical Report, 973804 (not peer-reviewed) www.osti.gov/servlets/purl/973804-tnL9g0/

FREEMAN, CRAIG C.

http://fna.huh.harvard.edu/files/Hydrangeaceae%20for%20Web%20%19Mar10

http://fna.huh.harvard.edu/files/Hydrangeaceae%20for%20Web%20%19Mar10

Freeman, C. C., R. K. Rabeler, and W. J. Elisens.  
http://fna.huh.harvard.edu/files/Paulowniaceae04SICH%20for%20Web

http://fna.huh.harvard.edu/files/Paulowniaceae04SICH%20for%20Web

**JENSEN, KIRSTEN**

White, W. T., P. R. Last, G. J. P. Naylor, K. Jensen, and J. N. Caira. 2010. Clarification of *Aetobatus ocellatus* (Kuhl, 1823) as a valid species, and a comparison with *Aetobatus narinari* (Euphrasen, 1790) (Rajiformes: Myliobatidae).  

**KRISHTALKA, LEONARD**


**MARTINKO, EDWARD A.**


and Technology for Reservoir Assessment (ASTRA) 
*Program Report Number 2010-13*. Submitted to the 
Kansas Water Office.

Bathymetric and sediment survey of Woodson County 
State Fishing Lake, Woodson County, Kansas. Applied 
Science and Technology for Reservoir Assessment 
(ASTRA) *Program Report Number 2010-12*. Submitted to 
the Kansas Water Office.

Bathymetric and sediment survey of Pottawatomie Lake 
#1, Pottawatomie County, Kansas. Applied Science and 
Technology for Reservoir Assessment (ASTRA) *Program 
Report Number 2010-10*. Submitted to the Kansas Water 
Office.

Bathymetric and sediment survey of Sabetha-Pony Creek 
Lake, Brown County, Kansas. Applied Science and 
Technology for Reservoir Assessment (ASTRA) *Program 
Report Number 2010-08*. Submitted to the Kansas Water 
Office.

Bathymetric and sediment survey of Lake Shawnee, 
Shawnee County, Kansas. Applied Science and 
Technology for Reservoir Assessment (ASTRA) *Program 
Report Number 2010-07*. Submitted to the Kansas Water 
Office.

Bathymetric and sediment survey of Atchison County 
Lake, Atchison County, Kansas. Applied Science and 
Technology for Reservoir Assessment (ASTRA) *Program 
Report Number 2010-04*. Submitted to the Kansas Water 
Office.

**ORIVE, MARIA**

Orive, M.E. 2011. Putting the R in evolutionary modeling 
(review of Roff, *Modeling evolution: An introduction to 
numerical methods*), *Evolution*. 
link to Early View: 

**PETERSON, A. TOWNSEND**

Calibrating divergence times on species trees versus gene 
trees: Implications for speciation history of *Aphelocoma* 

**PIEROTTI, RAYMOND**

http://nativeamericanscience.org
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TIMM, ROBERT


WILEY, ED

Publications of Postdoctoral Researchers

Blackburn, David C.


Decombeix, Anne-Laure


Koelling, Vanessa

reproductive barrier between two parapatric species of Leavenworthia (Brassicaceae). *American Journal of Botany* 97: 412-422.

**PRESTON, JILL**


**ZWICKL, DERRICK**


Publications of Graduate Students

BARLEY, ANTHONY  


BARVE, NARAYANI V.  

BENTLAGE, BASTIAN  


BENZ, BRETT  

CIELOCHA, JOHANNA J.  

DAVIS, STEVE  


**Eldredge, Ken T.**


**Gerhart, Laci M.**


**Grismer, Jesse L.**


Zootaxa. 2576: 59–68.


**Hosner, Peter**


**Jones, Robin**


**Linkem, Charles W.**


**LIRA-NORIEGA, ANDRÉS**


**MAIER, CRYSTAL A.**


**MARX, HANNAH**


**MOJICA, JULIUS P.**


**MURPHY, CHERYL A.**


**NAWROCKI, ANNALISE M.**


**NYARI, ARPAD**


Oaks, Jamie


Oliveros, Carl H.


O’Neill, Brian


**ROELS, STEVEN**


**SCHWENDEMANN, A. B.**


**SILER, CAMERON**


**SU, YONG-CHAO**

Cobbold, S. M., **Su, Y. C.** 2010. The host becomes dinner: Possible use of *Cyclosa* as a nuptial gift by Argyrodes in a colonial web. *Journal of Arachnology* 38: 132-134.

**SUKUMARAN, JEET**


**TIEMANN, LISA**


**WELTON, LUKE J.**


Williams, Brad J.

Presentations by Faculty

ALEXANDER, HELEN


ARMITAGE, KENNETH


BALLANTYNE, FORD

Ballantyne, F. 2010. The roles cellular and sub-cellular decisions play in biogeochemical cycles, University of Kansas, Center for Bioinformatics, Lawrence, KS, October.

Ballantyne, F. 2010. Elemental stoichiometry in ecological systems: cause, consequence or both? Department of Biology, University of Missouri-Columbia, October.


Li, J. S. A. Billings, and S. E. Ziegler. 2010. Effects of soil warming on boreal forest soil organic matter composition, cycling and fate along the Newfoundland and Labrador Boreal Ecosystem Latitudinal Transect (NL-BELT). Humber River Basin Project annual networking conference, Corner Brook, Newfoundland, Canada, January.


Li, J. S. E. Ziegler, D. Lane, and S. A. Billings. 2010. Warming enhanced microbial mineralization of slow-turnover soil organic matter along a boreal forest transect. Annual meeting of the Ecological Society of America meeting, Pittsburgh, PA, August.


Li, J, S. E. Ziegler, C. Lane, and S. A. Billings. 2010. Warming, nitrogen availability and site variation interact to govern soil microbial substrate choice and CO₂ release along a boreal forest transect. Annual meeting of the American Geophysical Union, San Francisco, CA, December.

**BLUMENSTIEL, JUSTIN**


**Brown, Rafe M.**


Stuart, B, and **R. M. Brown**. 2010. The role of defining species boundaries in the conservation of Southeast Asian amphibians. The Association for Tropical Biology and Conservation meetings, Bali Indonesia, July.


Barger, B. D. C. Blackburn, C. D. Siler, A. C. Diesmos, and **R. M. Brown**. 2010. Species boundaries, cryptic diversity, and conservation status of Philippine slender stream frogs of the *Rana everetti* complex. Poster
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<td>CHABOO, CAROLINE</td>
<td><strong>Chaboo, C. S.</strong> 2010. Biology and evolution in leaf beetles (Coleoptera: Chrysomelidae). NSF C-CHANGE IGERT Capstone Seminar: Climate Change, Ecological Change,</td>
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Social Change. University of Kansas, Lawrence, KS, November.


**CRAWFORD, DANIEL**


**dENoyelles, FRANK**


Martinko, E. A. M. E. Jakubauskas and **J. deNoyelles.**


Jakubauskas, M., **J. deNoyelles**, E. Martinko, D. Huggins, P. Liechti, S. Campbell, and R. Callihan. 2010. The Applied Science and Technology for Reservoir Assessment (ASTRA) Program: Addressing the research...
and information needs of Kansas reservoirs. Kansas Natural Resources Conference, Wichita, KS, February.


ENGEL, MICHAEL S. Engel, M. S. 2010. 400 million years on six legs: Evolution of the insects. Charles University, Prague, Czech Republic, September.

Engel, M. S. 2010. 400 million years on six legs: Evolution of the insects. Alabama Paleontological Society; Birmingham, AL, November.


Davis, S. R, **M.S. Engel**, A. Legalov, and D. Ren. 2010. Weevils (Coleoptera: Curculionoidea) of the Yixian Formation, China. 5th International Conference on Fossil Insects, Arthropods, and Amber; Beijing, China, August.


**Fautin, Daphne**

Faculty in the Department gave more than 250 presentations involving their research at national and international professional meetings and symposia.

**Fautin, D. G.** 2010. Is the skeleton of a coral optional? Kiel University, Germany, March.

**Fautin, D. G.** 2010. Habitat modeling in the sea Victoria University, Wellington, New Zealand, June.

**Fautin, D. G.** 2010. Biodiversity informatics New Zealand, June.


**Foster, Bryan**

Aschenbach, T. A, **B. L. Foster** and D. Imm. 2010. Lessons from a longleaf pine savanna restoration in South Carolina, USA: Primary productivity and soil organic matter. Ecological Society of America, Pittsburg PA, August.

**Murphy, C. A. and B. L. Foster**. 2010. The influence of plant species identity and seasonality on soil rhizosphere
bacterial communities. Ecological Society of America, Pittsburg PA, August.

Adams, G. S. Hinman, B. L. Foster. 2010. Plant
successional turnover on abandoned agricultural land:
effects of nutrients and dispersal limitation. KU Honors
Symposium, University of Kansas, Lawrence, KS.

Bittel. A, S. Hinman, B. L. Foster. 2010. Productivity in
early community assembly is primarily influenced by
species composition. KU Honors Symposium,
University of Kansas, Lawrence, KS.

Manthei, T, S. Hinman, B. L. Foster. 2010. Does prairie
restoration reduce habitat susceptibility to invasion? KU
Honors Symposium, University of Kansas, Lawrence,
KS.

FREEMAN, CRAIG

Freeman, C. C. 2010. Prairies across Kansas: their natural
communities and flora. Konza Environmental Education
Program Teachers’ Workshop, Manhattan, KS.

Freeman, C. C. and R. K. Rabeler. Responsibilities of lead
editors and taxon editors in the Flora of North America
project. Flora of North America Association Editorial
Workshop, St. Louis, MO.

Freeman, C. C. Kansas prairies: a beginner’s guide to the
vegetation and flora. Lawrence Master Gardener
Educational Program, Lawrence, KS.

Freeman, C. C. The Flora of North America project beyond
the halfway point: an update on efforts to produce a
continental flora. Great Plains Systematics Symposium,
Manhattan, KS.

GLEASON, JENNIFER

Gleason, J. M. and A. L. Vezeau. 2010. Males and
females require different sensory inputs for successful
courtship in Drosophila nebulosa. Annual Evolution
Meeting, Portland, OR, June.

multimodal signaling in the courtship behavior of
Drosophila willistoni and its effect on mating success
rate. Annual Evolution Meeting, Portland, OR, June.

Wilson, L. and J. M. Gleason. 2010. Genetics of female
and male mate choice in Drosophila sechellia and D.
simulans. Annual Biomedical Research Conference for
Minority Students, Charlotte, NC. November.
HILEMAN, Lena


HOLDER, Mark


JENSEN, KIRSTEN


**Jensen, K.** 2010. The intriguing world of elasmobranch tapeworms. Sam Houston State University. Huntsville, TX, February.


KELLY, JOHN

**Kelly, J. K.** 2010. How can QTL mapping address questions about the evolutionary potential of natural populations? University of Alaska, Anchorage, AK, March.

**Kelly, J. K.** 2010. How can QTL mapping address questions about the evolutionary potential of natural populations? Oklahoma State University, Tulsa, OK, March.


Kelly, J. K. 2010. Quantitative genetics as a predictive science. University of Toronto, Quebec, Canada, October.


KINDSCHER, KELLY

Kindscher, K. 2010. Medicinal plants of the prairie. 
Kansas State Holistic Veterinary Student Club, 
Manhattan, KS., March.

KRINGS, MICHAEL

Gradients in precipitation and seasonality between central 
and eastern Asia (Mongolia, northern Vietnam) during the 
Oligocene with implication for earlier monsoonal 
circulation. Geophysical Research Abstracts, European 
Geosciences Union General Assembly. Vienna, Austria

Bomfleur, B. E. L. Taylor, T. N. Taylor, M. Krings, and H. 
Kerp. 2010. Gymnosperm diversity in the Triassic of 
Antarctica: the enigmatic seed fern Dejerseya. Zitteliana B. 
Paläontologie im Blickpunkt. 80. Jahrestagung der 
Paläontologischen Gesellschaft, München, Germany, 
October.

Dotzler, N, M. Krings, and T. N. Taylor. 2010. Fossil 
Peronosporomycota (Oomycota). Abstracts Internationale 
Tagung der Deutschen Gesellschaft für Mykologie, 
Hamburg, Germany, September.

Dotzler, N, M. Krings, T. N. Taylor, and J. Galtier. 2010. Back 
to the roots: the advantage of thin section preparations over 
peels in the study of late Paleozoic fungi. 8th European 
Palaeobotany – Palynology Conference, Budapest, Hungary, 
July.

Dotzler, N, M. Krings, T. N. Taylor, and J. Galtier. 2010. 
Peronosporomycota (Oomycota) in the fossil record. 
Zitteliana B. Paläontologie im Blickpunkt. 80. Jahrestagung 
der Paläontologischen Gesellschaft, München, Germany, 
October.

Krings, M, N. Dotzler, T. N. Taylor, J. Galtier, and E. L. 
Taylor. 2010. The fossil record of Peronosporomycetes – a 
review. Annual Meeting of the Botanical Society of 
America, Providence, RI, July/August.

Taylor, T. N, M. Krings, N. Dotzler, J. Galtier, and E. L. 
Taylor. 2010. The truth about Palaeomyces. Annual Meeting 
of the Botanical Society of America, Providence R. I, 
July/August.

Krishtalka, Leonard

Krishtalka, L. 2010. Beyond the turnstile: Making the case 
for museums and sustainable values. AAM Annual 
Meetings, Los Angeles, CA, May

Faculty members in Ecology and 
Evolutionary Biology gave pre- 

conference, Oklahoma University, Norman, OK, April.
sentations on their research in many cities in the U.S. and in 17 international countries including: Austria, Philippines, Germany, Czech Republic, Sweden, China, Brazil, England, Mexico, Poland Indonesia, and Hungary.

**MARTIN, LARRY**


**Martin, L. D.** 2010. *Sinornithosaurus* as a venomous bird. Northeastern University, Shenyang, China, June.


**MARTINKO, EDWARD**


Jakubauskas, M, J. deNoyelles, **E. Martinko,** D. Huggins, P. Liechti, S. Campbell, and R. Callihan. 2010. The
Presentations by Faculty


**MORT, MARK**


**MOYLE, ROBERT**


**ORIVE, MARIA**


Orive, M. E. and J. Wakeley. 2010. Estimating the relative rates of horizontal versus vertical transmission of coral endosymbionts: A forward model for application to SNP data. Evolution 2010 (Joint Annual Meetings of ASN, SSE and SSB), Portland State University, Portland, OR, June.

Rosales, E. and M. E. Orive. 2010. Modeling within-host viral dynamics: The basic model and extensions to within-host structure, IMSD Research Symposium, Haskell Indian Nations University, Lawrence, KS, April.
**PETE RSON, A. TOWNS END**


**Peterson, A. T.** 2010. Ecological niche modeling, niche conservatism, and getting the methods right. Wright State University, Dayton, OH, March.


**Peterson, A. T.** 2010. Scholarly open access initiatives: Lessons from the KU Policy. University of Kansas, Lawrence, KS


**Peterson, A. T.** 2010. Integrating academic and university interests. Symposium: Future of the Public Research University, University of Kansas, Lawrence, KS.


**Peterson, A. T.** 2010. Mapping disease transmission risk with ecological niche modeling. Tulane University, New Orleans, LA.

**Peterson, A. T.** 2010. Copyright 101. Open Access Week Activities, KU Libraries, University of Kansas, Lawrence, KS.
Peterson, A. T. 2010. Faculty experiences at KU post-open access. Open Access Week Activities, KU Libraries, University of Kansas, Lawrence, KS.

Peterson, A. T. 2010. Medical anthropology in global Africa: Current trends in scholarship and practice, University of Kansas, Lawrence, KS.

PIEROTTI, RAYMOND


SHORT, ANDREW


SLADE, NORMAN

Slade, N. A. 2010. 30 years of mark-recapture of rodents: what we know and what we don’t. Biology Department, Wichita State University, Wichita, KS, March.


Reed, A. W. and N. A. Slade. 2010. Effects of climate variability on populations of cotton rats and prairie voles, presented to the American Society of Mammalogists, Laramie, WY, June.
**SMITH, DEBORAH**

**Smith D., O. Rueppell, and N. Warrit. 2010.** Co-evolution between *Varroa* and *Apis cerana* populations: Does it exist, and can we make use of it? COLOSS Workshop: “Varroa and Viruses,” Organized by the Swiss Bee Research Institute, Bern, Switzerland, November.


**SMITH, VAL**


**Smith V. H. 2010.** The ecology of algal biodiesel production. Invited seminar, University of North Carolina, Greensboro, N.C, April.

**Smith V. H. 2010.** The ecology of algal biodiesel production. Invited seminar, Educational Testing Service
(ETS) Advanced Placement Exam graders, Kansas City, KS, June.


Roden, A, V. H. Smith, and B.S.M. Sturm. 2010. Effects of nitrogen:phosphorus supply ratios, light availability, and dilution rate on cellular characteristics of the diatom
Cyclotella meneghiniana. 60th Annual KU Environmental Engineering Conference, Lawrence, KS, February.

SOBERON, JORGE


TAYLOR, EDITH


Taylor, T. N. 2010. The harder you work, the luckier you get in paleobotany and biomedical research. Kansas-IDeA Network of Biomedical Research Excellence (K-INBRE) 8th Annual Symposium, Kansas City, MO, January.


**THORP, JAMES**


**TIMM, ROBERT**


**TRUEB, LINDA**


**WARD, JOY**


Ward, J. K. 2010. Evolutionary responses of plants to changes in [CO$_2$] since the last ice age. UC Irvine, CA, April.


Ward, J. K. 2010. Evolutionary responses of plants to changes in [CO₂] since the last ice age. University of California, Santa Cruz, CA, January.

Ward, J. K. 2010. Evolutionary responses of plants to changes in [CO₂] since the last ice age. Washington University, St. Louis, MO, November.

## Presentations by Postdoctoral Researchers

### BOMFLEUR, BENJAMIN


### BLACKBURN, DAVID C.


### DECOMBEIX, ANNE-LAURE


### GLASER, SARAH


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Koelling, Vanessa


Preston, Jill


Presentations by Graduate Students

ALEXANDER, BLYTHE

Alexander, B. A. 2010. Locomotor patterns in the exploring house mouse (*Mus musculus*). 5th Annual International Conference of Ph.D. Students and Young Scientists, Warsaw, Poland, September.


Alexander, B. A. 2010. No viewpoint extrapolation in the homing house mouse (*Mus musculus*). American Association for the Advancement of Science, Southwestern and Rocky Mountain Division, Houston, TX, April.


ANDERSON, MICHAEL


BARLEY, ANTHONY


BENTLAGE, BASTIAN


Annual Meeting of the Society for Integrative and Comparative Biology, Seattle, WA, January.


**BERGENE, JULIE A.**


**BODBYL ROELS, SARAH**


**CIELOCHA, JOANNA**

**Cielocha, J. J.** K. Jensen, and J. Borucinska. 2010. The taxonomic status of *Hexacanalis* (Cestoda: Lecanicephalidea), with comments on pathology caused by one species of *Hexacanalis* from a butterfly ray in Indonesia. The XII International Congress of Parasitology, Melbourne, Australia, August.


**Cielocha, J. J.** and K. Jensen. 2010. Investigating the validity of two questionable lecanicephalidean genera *Cephalobothrium* and *Hexacanalis*. Southwestern Association of Parasitologists, University of Oklahoma, Norman, OK, April.

**CROWTHER, ANDREA**

**Crowther, A. L.** P. Cartwright, M. Daly, and D. G. Fautin. 2010. Evolution of column morphology in Aliciidae (Cnidaria, Hexacorallia, Actiniaria) inferred from a

**Crowther, A. L.** 2010. Tropical sea anemones with branched outgrowths and spherical defensive structures: a revision based on molecules and morphology. Marine Biodiversity Meeting, NCB Naturalis, Leiden, the Netherlands, April.

**Davis, Steve**

**Davis, S. R.** and M. S. Engel. 2010. Early evolution of the weevils (Coleoptera: Curculionoidea): evidence from the Yixian Formation, China, and the Karatau site, Kazakhstan. Entomological Society of America annual meeting, San Diego, CA, December.

**Davis, S. R.,** M. S. Engel, A. Legalov, and D. Ren. 2010. Weevils. (Coleoptera: Curculionoidea) of the Yixian Formation, China. 5th International Conference on Fossil Insects, Arthropods, and Amber (Fossils X3), Beijing, China, August.

**Davis, S. R.** 2010. Preliminary studies on rostrum development in the rice weevil, *Sitophilus oryzae* (Coleoptera: Curculionidae). Graduate Student Research Competition, University of Kansas, Lawrence, KS, March.

**Eldredge, Kent T.**


**Fuiten, Allison**

**Fuiten, A.** 2010. Osteological correlates of ecomorph variation in the anuran family Ceratobatrachidae, Annual Graduate Student Organization Retreat, Lawrence, KS, October.

**Fuiten, A.** 2010. Osteological correlates of ecomorph variation in the anuran family Ceratobatrachidae, Joint Meeting of Ichthyologists and Herpetologists, Providence, RI, July.

**Gerhart, Laci**


**Grismer, Jesse L.**

**Grismer, J. L.** 2010. Asexuality on the beach: Phylogeny, biogeography and the origin of parthenogenesis in
Leiolepis. Stowers Institute for Medical Research, Kansas City, MO, November.

**Hosner, Peter**

Hosner, P. A. 2010. Pleistocene island groups do not sufficiently explain diversification in eight Philippine bird lineages. NHMGSO retreat, Lawrence, KS, October.


**Landis, Jacob**


**Linkem, Charles**


**Lira-Noriega, Andrés**


Lira-Noriega, A. 2010. A GIS and object oriented classification application to the problem of scaling
<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mickle, K. E. 2010. Revisiting the actinopterygian preoperculum. KU Graduate Student Retreat, Lawrence, KS, October.</td>
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</tbody>
</table>


Monnahan, Patrick

Monnahan, P. J. 2010. Identification of 29 novel, polymorphic microsatellite loci in the red shiner (Cyprinella lutrensis). GSO Retreat, University of Lawrence, Lawrence, KS, October.

Murphy, Cheryl

Murphy, C. A. 2010. The influence of plant communities and seasonality upon soil bacterial communities in a tallgrass prairie system. Department of Biological and Environmental Sciences, University of Tennessee-Chattanooga, TN, October.


Nawrocki, Annalise


Oaks, Jamie


OLIVEROS, CARL. H.


OWENS, HANNAH


Owens, H. L. 2010. Predicting the distributions of the coelacanths *Latimeria chalumnae* and *Latimeria menadoensis*. University of Kansas Biodiversity Institute, Graduate Student Organization Annual Retreat, Lawrence, KS, November.


Owens, H. L. 2010. Predicting the distributions of the coelacanths *Latimeria chalumnae* and *Latimeria menadoensis*. Joint Meeting of Ichthyologists and Herpetologists, Providence, RI, July.

Owens, H. L. 2010. Predicting the distributions of the coelacanths *Latimeria chalumnae* and *Latimeria
**Presentations by Graduate Students**

**PSEK, MARI**


**REED, ALEXIS**


**ROELS, STEVEN**

Roels, S. M. 2010. Why bad things happen to good plants: Herbivory on threatened Mead’s milkweed. University of Kansas Graduate Student Retreat, Lawrence, KS, October.


**ROMERO, ANDREA**


**SANDERS, STEVEN**


Hiebler, S. S. Sanders, D. D’Armi, D, E. Veliz. 2010. Genetic diversity in the federally endangered species...
Ptilininium nodosum. Salisbury University Student Research Conference, Salisbury, MD, April.


Schmidt, Sarah


Schwendemann, Andrew


Shin, Chulwoo


Siler, Cameron


**SONG, CHAO**

Song, C., and F. Ballantyne. 2010. Steady state C-N interaction in fresh water phytoplankton assembly in response to rising atmospheric CO₂. 95th ESA annual meeting, Pittsburgh, PA, August.


**SU, YONG-CHAO**


**SUKUMARAN, JEET**

Sukumaran, J., and M. T. Holder. 2010. Performance and robustness of phylogeographic statistics under complex simulations. Joint annual meeting of the Society for the Study of Evolution (SSE), and the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN), Portland, OR, June.

Sukumaran, J. and M. T. Holder. 2010. Phylogenetic operations in Python with DendroPy Informatics for
Phylogenetics, Evolution and Biodiversity Conference, Portland, OR, June.

TIEMANN, LISA


WELTON, LUKE


WILLIAMS, BRADLEY


Extramural Funding Received by Faculty

ALEXANDER, HELEN M.  
Effects of early life history stages and competition on crop gene introgression in wild sunflower. (PI with 2 others)

BALLANTYNE, FORD  
**National Science Foundation.** 2010-2013. $595,998.  
(ETBC) Temperature sensitivity of substrate decomposition from enzymes to microbial communities.  
( Co-PI with 2 others)

BILLINGS, SHARON  
**National Science Foundation.** 2009-2012. $595,998.  
Temperature sensitivity of substrate decomposition from enzymes to microbial communities. (PI with two others).

In 2010 faculty in EEB was supported by active extramural grants totaling $39.5 million.

**Canadian Forest Service and Humber River Basin Provincial Funds.** 2009-2011. $190,409. Soil carbon dynamics with climate change in boreal forests of Newfoundland and Labrador. (PI with one other).

**National Science Foundation (DDIG).** 2009-2011. $14,886. Comparative phylogeography of a dynamic Archipelago. (PI with two others).

Blumenstiel, Justin P.  
**National Science Foundation.** 2010-2013. $678,711. The epigenetics of RNA based silencing and transposon control in *Drosophila virilis*. (PI)

BROWN, RAFE  
**National Science Foundation (DDIG).** 2010-2011. $15,000. Dissertation research: Beyond the black box: understanding the relationship between microbial community structure and function under environmental stress and disturbance. (PI with one other).

**National Science Foundation, Systematic Biology.** 2007–2011, $244,481. Collaborative Research: Comparative Biogeography of Sulawesi – phylogenetic and coalescent analyses of diversification in frogs, lizards, and monkeys. (PI and linked with UC Berkeley and McMasters University, Canada)

**National Science Foundation, Dissertation Improvement Grant.** 2008-2010. $14,800. Integrative morphological


<table>
<thead>
<tr>
<th>Extramural Funding Received by Faculty</th>
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<tbody>
<tr>
<td><strong>2009 Annual Report</strong></td>
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<tr>
<td><strong>Extramural Funding Received by Faculty</strong></td>
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<tr>
<td><strong>evolution in Philippine forest lizards of the genus Sphenomorphus.</strong> (PI with one other)</td>
</tr>
<tr>
<td><strong>National Science Foundation, Biodiversity Surveys and Inventories.</strong> 2008-2011. $800,000. A comprehensive biotic survey of Philippine land vertebrates and their parasites. (PI with 3 others)</td>
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<tr>
<td><strong>Centers for Disease Control and Prevention (CDC).</strong> 2010-2011. $1,121,067. Epidemiology and laboratory capacity for infectious disease. (co-PI with 6 others)</td>
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<tr>
<td><strong>BUSBY, WILLIAM</strong></td>
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<tr>
<td><strong>Kansas Department of Wildlife and Parks</strong>, 2008-2010. $180,710. Management for species of greatest conservation need: Anderson County prairie. (co-PI with one other)</td>
</tr>
<tr>
<td><strong>CARTWRIGHT, PAULYN</strong></td>
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<tr>
<td><strong>National Science Foundation.</strong> 2005–2010, $1,610,000. Assembling the Tree of Life: An integrative approach to investigating cnidarian phylogeny. (PI with 2 others)</td>
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<tr>
<td><strong>National Science Foundation.</strong> 2010-2015. $750,000. CAREER: Integrating phylogenetics and development to investigate character evolution in hydrozoans. (PI)</td>
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<tr>
<td><strong>National Science Foundation, Dissertation Improvement Grant.</strong> 2009-2011. $14,991. Aplanulata (Cnidaria: Hydrozoa): A model clade for investigating the evolutionary and developmental basis of hydrozoan body plan diversity. (PI with one other)</td>
</tr>
<tr>
<td><strong>National Science Foundation, Dissertation Improvement Grant.</strong> 2009-2011. $14,990. Biogeography of open ocean hydrozoans (Cnidaria: Medusozoa). (PI with one other)</td>
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<td><strong>CHABOO, CAROLINE</strong></td>
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<tr>
<td><strong>National Science Foundation-EPSCoR</strong>, 2010-2011. $142,000. Phylogenetic research in the hyperdiverse leaf beetle family, Chrysomelidae (Coleoptera). (PI)</td>
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<tr>
<td><strong>National Science Foundation.</strong> 2010-2013, $495,426. A specimen-level database of the world’s bees (Apoidea) at the University of Kansas. (co-PI with 3 others)</td>
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<td>Name</td>
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<tr>
<td>DeNoyelles, Frank</td>
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<td>Engel, Michael</td>
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<td>Fautin, Daphne</td>
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<td>Foster, Bryan</td>
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<td>FREEMAN, CRAIG</td>
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<td>HILEMAN, Lena</td>
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<td>HOLDER, MARK</td>
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<td>JENSEN, KIRSTEN</td>
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<tr>
<td>KELLY, JOHN</td>
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</table>
Genomic analysis of complex trait variation in Mimulus. (PI with 1 other)

National Institutes of Health. 2008-2010. $75,000.  
Diversity supplement. (PI)

National Science Foundation, Dissertation Improvement Grant. 2010-2013. $12,000. A cytogenetic characterization of the Mimulus guttatus genome. (PI with one other)

National Science Foundation, Dissertation Improvement Grant. 2010-2014. $12,000. Experimental evolution of mating system under varying pollinator availability in Mimulus guttatus. (PI with one other)

KINDSCHER, KELLY  
Innovation Center for advanced plant design: plants for the Heartland. (co-PI with one other)

Heartland Plant Innovations. 2010-2013. $20,000.  
Pharmacy garden at the KU School of Pharmacy. (co-PI with one other)

City of Lenexa, Kansas. 2008-2010. $59,040. Assessment of the short and long term effectiveness of Bio-retention cells treating paved surface runoff in Lenexa, Kansas. (co-PI with two others)

KRINGS, MICHAEL  
National Science Foundation. 2010-2014. $390,746.  
Understanding the diversity and biology of microbes in late Paleozoic ecosystems. (co-PI with one other)

KRISEHTALKA, LEONARD  
National Science Foundation, IGERT: C-CHANGE.  
2008–2013. $3,200,000. Climate change, humans and nature in the global environment. (co-PI with 4 others)

Centers for Disease Control and Prevention (CDC).  
2008-2010. $1,012,000. Forecasting the spread of emerging zoonotic diseases. (PI with 5 others)

National Science Foundation. 2009-2012. $6,000,000. A cybercommons for ecological forecasting. (co-PI with 8 others).

National Science Foundation. 2006-2010. $6,837,783. An ecoforecasting center for the Great Plains. (PI with 5 others)
Lichtward, Robert W.

**National Science Foundation.** 2009-2012. $81,473.
Collaborative Research REVSYS: RUI: Phylogenetic and revisionary systematics of early-diverging, ecologically unique clades of fungi, Harpellales and Asellariales. (PI with one other)

Martin, Craig

**Deutscher Akademischer Austausch Dienst (DAAD).**
2009-2010. $5,800. Physiological significance of water vapor absorption by leaf epidermal trichomes in epiphytic bromeliads. (PI)

Martinko, Edward

**National Fish and Wildlife Foundation.** 2005-2025.
$10,000. Wet meadow restoration on the Robinson Tract. (PI with 2 others)

$71,590. Supporting the natural resource management objectives using geographic information systems (GIS) and remote sensing techniques. (PI)

Kansas Water Office. 2009-2010. $157,000. Bathymetric surveys of Kansas reservoirs. (co-PI with 2 others)

Kansas Water Office. 2010-2011. $160,000. Bathymetric surveys of Kansas reservoirs. (co-PI with 2 others)


**Industry.** 2010-2011. $6,600. Dry season special Crustacean surveys. (PI)

**Industry.** 2010-2011. $3,800. Enplan dry sampling. (PI)

**Industry.** 2010-2012. $40,588. Impact assessment of vernal pools. (PI with one other)

Mort, Mark

**Bureau of Land Management.** 2010-2011. $23,744.
Assessment of the status of blowout penstemon (*Penstemon haydenii* S. Watson, Plantaginaceae) using molecular and morphological approaches. (co-PI with one other)

Moyle, Robert

**National Science Foundation.** 2008-2011. $225,000.
Collaborative Research: Avian diversification across...
tropical Asia: A systematic and biogeographic analysis of babblers (Aves: Timaliidae). (co-PI with others)

**National Science Foundation.** 2008-2013. $900,000. A comprehensive survey of Philippines land vertebrates and their parasites. (PI with 3 others)

**Centers for Disease Control and Prevention (CDC).** 2008-2010. $1,112,067. Forecasting the spread of emerging zoonotic diseases. (co-PI with 5 others)

**National Geographic.** 2010-2011. $19,500. Biogeography of birds in the lowlands and mountains of Borneo. (co-PI with 2 others)

**National Institute of Health.** 2010-2013, $350,000. Monkeypox ecology: An integrated approach to investigations of the sylvatic reservoirs of human monkeypox. (PI)

**American Rhododendron Society.** 2009-2011. $6,000. Predicting distributions of rare *Rhododendron* species in northeastern India. (PI)

**U. S. Geological Survey.** 2009-2011. $230,000. Serving biodiversity data for U. S. institutions. (co-PI with one other)


**National Science Foundation.** 2004-2011. $3,000,000. IGERT: C-CHANGE: Climate change, humans, and nature in the global environment. (co-PI with 4 others)

**National Science Foundation.** 2004-2011. $750,000. Biodiversity surveys in the southern borderlands of the People’s Republic of China. (PI with 4 others)

**National Science Foundation.** 2008-2013. $1,500,000. A community effort to build an integrated distributed, enriched and error-check ORNithological Information System. (PI with 2 others)

**Microsoft Research.** 2007-2010. $550,000. Ecological niche modeling in theory and practice. (co-PI with 1 other)
## Extramural Funding Received by Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Year(s)</th>
<th>Amount</th>
<th>Description</th>
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<tr>
<td></td>
<td><strong>Centers for Disease Control and Prevention (CDC).</strong></td>
<td>2008-2010</td>
<td>$1,012,000</td>
<td>Forecasting the spread of emerging zoonotic diseases. (co-PI with 5 others)</td>
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<td></td>
<td><strong>National Science Foundation.</strong></td>
<td>2008-2010</td>
<td>$300,000</td>
<td>MRI: Acquisition of an advanced computational infrastructure for modeling biological systems. (co-PI with several others)</td>
</tr>
<tr>
<td><strong>PIEROTTI, RAYMOND</strong></td>
<td><strong>Kansas Alliance for Wetlands and Streams.</strong></td>
<td>2009-2011</td>
<td>$20,000</td>
<td>Water quality, rainfall, and runoff sampling and monitoring in upper Wakarusa watershed. (PI)</td>
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<td><strong>Kansas Alliance for Wetlands and Streams.</strong></td>
<td>2009-2011</td>
<td>$25,000</td>
<td>Shawnee County Natural Resource Inventory and Analysis (NRIA) database. (PI)</td>
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<td></td>
<td><strong>National Science Foundation.</strong></td>
<td>2007-2011</td>
<td>$350,000</td>
<td>Collaborative Research: Native American science curriculum. (PI with 2 others)</td>
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<tr>
<td><strong>SHORT, ANDREW</strong></td>
<td><strong>National Science Foundation.</strong></td>
<td>2008-2012</td>
<td>$500,000</td>
<td>Survey of the aquatic insects of Venezuela with an emphasis on Coleoptera. (PI)</td>
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<tr>
<td></td>
<td><strong>National Science Foundation.</strong></td>
<td>2007-2012</td>
<td>$7,433</td>
<td>Survey of the aquatic insects of Venezuela with an emphasis on Coleoptera. (PI)</td>
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<td><strong>National Science Foundation.</strong></td>
<td>2010-2013</td>
<td>$495,426</td>
<td>A specimen-level database of the world’s bees (Apoidea) at the University of Kansas. (co-PI with 3 others)</td>
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<tr>
<td><strong>SMITH, DEBORAH</strong></td>
<td><strong>U.S. Department of Agriculture-CREES.</strong></td>
<td>2010-2012</td>
<td>$449,988</td>
<td>Genetic characterization of absolute <em>Varroa</em> mite resistance in honey bees.</td>
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<td></td>
<td><strong>U. S. Israel Binational Science Foundation.</strong></td>
<td>2010-2014</td>
<td>$101,212</td>
<td>Evolution of inbred social systems in spiders: the <em>Stegodyphus</em> (Eresidae) model. (co-PI with 2 others).</td>
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<tr>
<td><strong>SOBERON, JORGE</strong></td>
<td><strong>Microsoft Research.</strong></td>
<td>2007-2010</td>
<td>$550,000</td>
<td>Ecological niche modeling in theory and practice. (co-PI with 1 other)</td>
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<tr>
<td><strong>TAYLOR, EDITH</strong></td>
<td><strong>National Science Foundation, Polar Programs.</strong></td>
<td>2010-2013</td>
<td>$618,348</td>
<td>Collaborative Research: Antarctic ecosystems across the Permian-Triassic boundary: integrating paleobotany, sedimentology, and paleoecology. (PI with 1 other, lead PI)</td>
</tr>
</tbody>
</table>
National Science Foundation, Polar Programs. 2007–2011, $411,497. Permineralized plants from the Permian and Triassic of Antarctica: A critical time in seed plant evolution. (PI with 1 other)

National Science Foundation, Office of International Science and Engineering. 2008-2010. $9,149. U. S.-South Africa Dissertation Enhancement, late Paleozoic fossil plants from Gondwana: Clarifying the role of glossopterids in seed plant evolution. (PI with 1 other)

TAYLOR, ORLEY
U. S. Forest Service. 2010-2011. $25,000. Monarch conservation. (PI)

TAYLOR, THOMAS
National Science Foundation, Polar Programs. 2010–2013, $618,348. Collaborative Research: Antarctic ecosystems across the Permian-Triassic boundary: integrating paleobotany sedimentology, and paleoecology. (co-PI with 1 other)


National Science Foundation, Polar Programs 2007–2011, $411,497. Permineralized plants from the Permian and Triassic of Antarctica: A critical time in seed plant evolution. (co-PI with one other)

National Science Foundation. 2006–2010. $385,000. Fossil microbes from the Rhynie Chert Lagerstatte. (PI with 1 other)

THORP, JAMES
National Science Foundation. 2010-2011. $80,000. Landscape legacies in rivers: retrospective analyses of changes in ecosystem function across two centuries. (co-PI with one other)

National Park Service, Pacific Island Network’s Inventory. 2010-2011. $28,746. Development of stream decapod crustacean identification key and field guide for the island of Guam. (PI with 1 other)

Teichert and Sons. 2010-2011. $42,803. Identification of invertebrates in seasonal wetlands. (co-PI with 1 other)

TIMM, ROBERT
National Institutes of Health. IRACDA. 2008-2011. Phylogeography of Pacific NW mammals. (PI with 1 other)
<table>
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<tr>
<th>Name</th>
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<th>Grant Periods</th>
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<tr>
<td>Trueb, Linda</td>
<td>U. S. Geological Survey</td>
<td>2009-2011</td>
<td>$230,000</td>
<td>Serving biodiversity data for U. S. institutions. (co-PI with one other)</td>
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<tr>
<td>Ward, Joy</td>
<td>National Science Foundation, CAREER</td>
<td>2008–2013</td>
<td>$842,893</td>
<td>Plant evolution at low CO2: Responses of ice age trees. (PI)</td>
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<tr>
<td></td>
<td>National Science Foundation</td>
<td>2009-2011</td>
<td>$299,999</td>
<td>Global environmental change and local ecosystems: A Kansas MSP-Start project for P-20 students. (PI)</td>
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<tr>
<td>Wiley, Edward</td>
<td>National Science Foundation</td>
<td>2007–2012</td>
<td>$309,985</td>
<td>Collaborative Research: Assembling the Euteleost Tree of Life: Addressing the major unresolved problem in vertebrate phylogeny. (co-PI with 4 other institutions)</td>
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<tr>
<td></td>
<td>National Science Foundation, REU Supplement</td>
<td>2010-2011</td>
<td>$6,500</td>
<td>Assembling the Euteleost Tree of Life: Addressing the major unresolved problem in vertebrate phylogeny. (PI)</td>
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### Funding Received by Graduate Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Source</th>
<th>Amount</th>
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<tbody>
<tr>
<td>ABE, FRANCINE</td>
<td>EEB Travel Funds</td>
<td>$ 300</td>
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<tr>
<td></td>
<td>Graduate Studies Student Paper Travel Fund</td>
<td>$ 400</td>
</tr>
<tr>
<td>ALEXANDER, BLYTHE</td>
<td>Graduate Studies Student Paper Travel Fund</td>
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<td></td>
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<td>$ 300</td>
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<tr>
<td>ANDERSON, MICHAEL</td>
<td>Sigma Xi Grants-in-Aid Fund</td>
<td>$ 700</td>
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<td>American Ornithologist’s Union Travel Fund</td>
<td>$ 210</td>
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<tr>
<td>BARLEY, ANTHONY</td>
<td>EEB Travel Funds</td>
<td>$ 300</td>
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<tr>
<td></td>
<td>Biodiversity Travel Funds</td>
<td>$ 300</td>
</tr>
<tr>
<td>BENTLAGE, BASTIAN</td>
<td>NSF Doctoral Dissertation Improvement Grant</td>
<td>$14,990</td>
</tr>
<tr>
<td></td>
<td>EEB Travel Funds</td>
<td>$ 300</td>
</tr>
<tr>
<td>BERGENE, JULIE</td>
<td>Hall Plant Biology Travel Fund</td>
<td>$ 350</td>
</tr>
<tr>
<td>BODBYL ROELS, SARAH</td>
<td>Graduate Studies Student Paper Travel Fund</td>
<td>$ 400</td>
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<tr>
<td>CIELOCHA, JOANNA</td>
<td>EEB Travel Funds</td>
<td>$ 400</td>
</tr>
<tr>
<td>DAVIS, STEVE</td>
<td>NSF Doctoral Dissertation Improvement Grant</td>
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<tr>
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<td>EEB Travel Fund</td>
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<td>Panorama Small Grant, University of Kansas</td>
<td>$ 877</td>
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<tr>
<td></td>
<td>Entomology Society of American Travel Funds</td>
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<tr>
<td>ESSELSTYN, JACOB</td>
<td>EEB Travel Fund</td>
<td>$ 300</td>
</tr>
<tr>
<td>FUJITEN, ALLISON</td>
<td>EEB Travel Fund</td>
<td>$ 300</td>
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<tr>
<td>HARPER, CARLA</td>
<td>Hall Plant Biology Travel Fund</td>
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<tr>
<td></td>
<td>Women in Science Travel Grant</td>
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<tr>
<td>LANDIS, JACOB</td>
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<tr>
<td>LINKEM, CHARLES</td>
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<td></td>
<td>Tinker Grant (Latin Am. Studies)</td>
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<tr>
<td></td>
<td>NHM Panorama Grant</td>
<td>$ 1,000</td>
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<tr>
<td>MAIER, CRYSTAL</td>
<td>H. B Hungerford Travel Fund</td>
<td>$ 784.17</td>
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<tr>
<td>MICKLE, KATHRYN</td>
<td>NSF Doctoral Dissertation Improvement Grant</td>
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<tr>
<td></td>
<td>NHM Panorama Grant</td>
<td>$ 700</td>
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<tr>
<td>Graduate Student</td>
<td>Funding Received by Graduate Students</td>
<td></td>
</tr>
<tr>
<td>------------------</td>
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</tbody>
</table>
| **MOJICA, JULIUS** | NSF Doctoral Dissertation Improvement Grant $11,260  
|                  | EEB Grad Travel Funds $ 300 |
| **MURPHY, CHERYL** | Kansas Field Station Small Grants Fund $ 300  
|                  | EEB Travel Funds $ 300 |
| **NAWROCKI, ANNALISE** | EEB Travel Fund $ 300  
|                  | NSF Doctoral Dissertation Improvement Grant $14,991 |
| **OAKS, JAMIE** | EEB Travel Fund $ 300  
|                  | NHM Panorama Grant $ 300  
|                  | NSF Travel Stipend $ 1,000  
|                  | Sigma Xi Fund $ 1,000  
|                  | NSF Doctoral Dissertation Improvement Grant $14,886 |
| **OLIVEROS, CARL** | Conservation Leadership Programme Grant $50,000  
|                  | Philippine Tropical Forest Conservation Grant $15,500 |
| **OWENS, HANNAH** | EEB Travel Fund $ 300 |
| **PESEK, MARI** | American Arachnological Society Travel Fund $ 500 |
| **ROELS, STEVEN** | Kansas Academy of Science Student Grant $ 1,000  
|                  | KSR Small Grant Fund $ 250  
|                  | EEB Grad Travel Fund $ 300 |
| **SCHMIDT, SARAH** | EEB Grad Travel Fund $ 400 |
| **SHIN, CHULWOO** | EEB Grad Travel Fund $ 300  
|                  | Michener Travel Fund $ 555  
|                  | Entomology Endowment Funds $ 300  
|                  | Kansas Field Station Small Grants $ 300  
|                  | George Byers Travel Fund $ 1,054 |
| **SILER, CAMERON** | NSF Doctoral Dissertation Improvement Grant $11,960  
|                  | Fulbright-Hayes Doctoral Dissertation Research Abroad $22,835  
|                  | Society for the Study of Amphibians & Reptiles Travel Funds $ 500  
|                  | NHM Panorama Fund $ 1,250  
|                  | EEB Travel Funds $ 900  
|                  | Ernst Mayr Travel Grant in Animal Systematics $ 835 |
| **SONG, CHAO** | EEB Grad Travel Funds $ 400  
|                  | Kansas Field Station Small Grant Funds $ 300 |
| **SPARKS, KATHRYN** | National Sunflower Association Grant $ 1,000 |
| **TIEMANN, LISA** | KSR Small Grant $ 500  
|                  | EEB Travel Fund $ 300  
<p>|                  | KS Academy of Science Grant $ 985 |</p>
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<thead>
<tr>
<th>Funding Received by Graduate Students</th>
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<tbody>
<tr>
<td>American Geophysical Union Travel Fund</td>
<td>$ 500</td>
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<tr>
<td>Ecological Society of America Travel Fund</td>
<td>$ 250</td>
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<tr>
<td><strong>WELTON, LUKE</strong></td>
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<td>EEB Travel Funds</td>
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<tr>
<td>Biodiversity Travel Funds</td>
<td>$ 200</td>
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<tr>
<td><strong>WILLIAMS, BRADLEY</strong></td>
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<tr>
<td>EEB Travel Fund</td>
<td>$ 300</td>
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</table>
# Faculty Awards

<table>
<thead>
<tr>
<th>Name</th>
<th>Award Description</th>
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<tbody>
<tr>
<td>Armitage, Kenneth</td>
<td>Elected Honorary Member, The American Society of Mammalogists.</td>
</tr>
<tr>
<td>Busby, William</td>
<td>Imagination and Place Environmental Award for Public Service</td>
</tr>
<tr>
<td>Cartwright, Paulyn</td>
<td>Byrd Graduate Educator Award</td>
</tr>
<tr>
<td>Engel, Michael</td>
<td>Bicentenary Medal of the Linnean Society of London.</td>
</tr>
<tr>
<td>Smith, Deborah</td>
<td>William T. Kemper Teaching Fellowship Award</td>
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<tr>
<td>Ward, Joy</td>
<td>Presidential Early Career Award for Scientists and Engineers</td>
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</table>
### Graduate Student Scholarships or Fellowships

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<tr>
<th>Name</th>
<th>Scholarship/Low</th>
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<tbody>
<tr>
<td><strong>ALEXANDER, BLYTHE</strong></td>
<td>GK-12 NSF Fellowship</td>
</tr>
<tr>
<td><strong>BARVE, NARAYANI</strong></td>
<td>NSF IGERT C-CHANGE Fellowship</td>
</tr>
<tr>
<td><strong>BENNETT, DANIEL</strong></td>
<td>R. H. Beamer Scholarship</td>
</tr>
<tr>
<td><strong>BENTLAGE, BASTIAN</strong></td>
<td>Smithsonian Institute, Pre-doctoral Fellowship</td>
</tr>
<tr>
<td><strong>BODBYL ROELS, SARAH</strong></td>
<td>Florene Fratcher Botany Scholarship</td>
</tr>
<tr>
<td><strong>CIELOCHA, JOANNA</strong></td>
<td>Alpha Omicron Phi Scholarship</td>
</tr>
<tr>
<td><strong>CROWTHER, ANDREA</strong></td>
<td>Martin Fellowship, National Museum of Natural History</td>
</tr>
<tr>
<td><strong>DAVIS, STEVE</strong></td>
<td>John M. Deal Scholarship</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Area Scholarship (Japanese)</td>
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<tr>
<td><strong>ELDREDGE, KEN T.</strong></td>
<td>K. T. Diversity Fellowship</td>
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<tr>
<td></td>
<td>John M. Deal Scholarship</td>
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<tr>
<td><strong>GERHART, LACI</strong></td>
<td>Madison and Lila Self Graduate Fellowship</td>
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<tr>
<td></td>
<td>NSF IGERT C-CHANGE Fellowship</td>
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<td></td>
<td>Arthur J. Mix Scholarship</td>
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<tr>
<td><strong>HENSZ, CHRISTOPHER</strong></td>
<td>NSF IGERT C-CHANGE Fellowship</td>
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<tr>
<td><strong>LIRA-NORIEGA, ANDRES</strong></td>
<td>National Council for Science and Technology; Secretaría de Educación Pública (SEP) Scholarship</td>
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<tr>
<td><strong>MARX, HANNAH</strong></td>
<td>NSF Graduate Research Fellowship</td>
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<tr>
<td><strong>MICKLE, KATHRYN</strong></td>
<td>Research and Graduate Studies Research Fellowship</td>
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<tr>
<td><strong>MOJICA, JULIUS</strong></td>
<td>Arthur J. Mix Scholarship</td>
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<tr>
<td><strong>NAWROCKI, ANNALISE</strong></td>
<td>Madison and Lila Self Graduate Fellowship</td>
</tr>
<tr>
<td><strong>OWENS, HANNAH</strong></td>
<td>NSF IGERT C-CHANGE Fellowship</td>
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<tr>
<td><strong>ROELS, STEVEN</strong></td>
<td>Eugene Polson Scholarship</td>
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<tr>
<td><strong>ROMERO, ANDREA</strong></td>
<td>Madison and Lila Self Graduate Fellowship</td>
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<tr>
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<td>Ida H. Hyde Scholarship</td>
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<td><strong>SCHMIDT, SARAH</strong></td>
<td>Ida H. Hyde Scholarship</td>
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<tr>
<td>Graduate Student Scholarships or Fellowships</td>
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<tr>
<td>SCHWENDEMANN, ANDREW</td>
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<tr>
<td>Graduate Studies Summer Research Fellowship</td>
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<tr>
<td>Arthur J. Mix Scholarship</td>
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<tr>
<td>SHIN, CHULWOO</td>
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<tr>
<td>John M. Deal Scholarship</td>
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<tr>
<td>SILER, CAMERON D.</td>
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<tr>
<td>Madison and Lila Self Graduate Fellowship</td>
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<tr>
<td>Encyclopedia of Life Rubenstein Fellowship</td>
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<tr>
<td>SU, SHAN-HUI</td>
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<tr>
<td>Raymond H. Beamer Scholarship</td>
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<tr>
<td>Marshall Barber Scholarship</td>
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<tr>
<td>SU, YONG CHAO</td>
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<tr>
<td>John M. Deal Scholarship</td>
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<tr>
<td>Raymond H. Beamer Scholarship</td>
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<td>TIEMANN, LISA</td>
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<td>NSF Graduate Teaching Fellows in K-12 Education Fellowship</td>
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<tr>
<td>TORO, OSCAR</td>
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<tr>
<td>Florene Fratcher Botany Scholarship</td>
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<tr>
<td>Graduate Studies Tuition Scholarship</td>
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<tr>
<td>Fulbright-Hayes CONICYT Scholarship</td>
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### Graduate Student Awards

<table>
<thead>
<tr>
<th>Name</th>
<th>Awards/Recognition Details</th>
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<tr>
<td><strong>ALEXANDER, BLYTHE</strong></td>
<td>Best Oral Presentation, 5th International Conference of Ph.D. Students and Young Scientists</td>
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<td>Top Poster Presentation, AAAS, SWARM meeting</td>
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<tr>
<td><strong>BODBYL ROELS, SARAH</strong></td>
<td>AAAS/Science Program for Excellence in Science</td>
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<tr>
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<td>1st Place Award, GIS Day, University of Kansas</td>
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<tr>
<td><strong>CIELOCHA, JOANNA</strong></td>
<td>Honorable Mention, Best Student Paper, American Society of Parasitologists</td>
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<td>David A. Becker Memorial Award for Best Student Paper, SW Association of Parasitologists</td>
</tr>
<tr>
<td><strong>CLARK, TARYN</strong></td>
<td>Mary Harkey Hall Award in Plant Biology</td>
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<tr>
<td><strong>ELDREDGE, KEN</strong></td>
<td>H. B. Hungerford Award</td>
</tr>
<tr>
<td><strong>LANDIS, JACOB</strong></td>
<td>2nd Place, Sigma Xi Research Paper Competition</td>
</tr>
<tr>
<td><strong>LIRA-NORIEGA, ANDRES</strong></td>
<td>2nd Place, GIS Day, University of Kansas</td>
</tr>
<tr>
<td><strong>MICKLE, KATHRYN</strong></td>
<td>2nd Place, Kansas Academy of Science talk</td>
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<tr>
<td><strong>MONNANAH, PATRICK</strong></td>
<td>Mary Harkey Hall Award in Plant Biology</td>
</tr>
<tr>
<td><strong>OAKS, JAMIE</strong></td>
<td>Society of Systematic Biologists Graduate Student Award</td>
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<tr>
<td><strong>OLIVEROS, CARL</strong></td>
<td>Conservation Leadership Programme Award</td>
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<td><strong>OWENS, HANNAH</strong></td>
<td>3rd Place, 9th Annual GIS Day, University of Kansas</td>
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<td></td>
<td>1st Place, Biodiversity Institute Graduate Student Award</td>
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<tr>
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<td>Michael S. Gaines Award for Excellent in Teaching, University of Kansas</td>
</tr>
<tr>
<td><strong>PESEK, MARI</strong></td>
<td>H. B. Hungerford Award</td>
</tr>
<tr>
<td><strong>SILER, CAMERON</strong></td>
<td>ASID Henri Seibert Award for best student presentation</td>
</tr>
<tr>
<td><strong>SU, YONG-CHAO</strong></td>
<td>Biological Sciences GTA award</td>
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</tbody>
</table>
Students Graduating with Advanced Degrees

Students Graduating with M. A. Degree and Thesis Title
(Graduate Advisor in parenthesis)

EASH-LOUCKS, WENDY (D. Fautin) — Taxonomy and distribution of sea anemones (Cnidaria: Actiniaria, Corallimorpharia) from deep water of the northeastern Pacific

FINCH, DEBRA (H. Alexander) — Ecology of Carex blanda throughout a woodland/grassland ecotone: A small-scale study of a woodlands species in heterogeneous environments

KILROY, HAYLEY (K. Kindscher) — Landscape context, metacommunity dynamics, and private management practices of native prairie hay meadows

MCPARTLIN, CLAIRE (L. Trueb) — Osteology of Calluella guttulata (Blyth 1855) and associated commentary on evolution in the family Microhylidae (Anura)

O’NEILL, BRIAN (J. Thorp) — Ecological responses to hydrogeomorphic fluctuations in a sand bed prairie river: River complexity, habitat availability, and benthic invertebrates

PROTTI, PIERO (M. Mort) — Distribution and diversity of Aeonium spathulatum (Crassulaceae) on the western Canary Islands

Students Graduating with Ph.D. Degree and Dissertation Title
(Graduate Advisor in parenthesis)

ABE, FRANCINE (B. Lieberman & E. Wiley) — The nature of evolutionary radiations with a special focus on Devonian calmoniid trilobites

BENNETT, DANIEL (M. Engel) — Phylogenetics of Crabronini, with a consideration of the evolution of predatory and nesting behaviors (Insecta: Hymenoptera: Crabronidae)

DIAZ, ISMAEL HINOJOSA (M. Engel) — Comparative genital morphology, phylogeny, and classification of the orchid bee genus Euglossa Latreille (Hymenoptera: Apidae), with distributional modeling of adventive euglossines

ESSELSTYN, JACOB (R. Brown and R. Timm) — Diversification processes in an island radiation of shrews

LONG, QUINN (B. Foster and K. Kindscher) — Species coexistence in restored grassland plant communities: trait-based recruitment, niche-neutral assembly, and heterogeneous management

MAHER, SEAN (A. T. Peterson and R. Timm) — Spatial dynamics of mammals and their pathogens and parasites

MCLEOD, DAVID (L. Trueb) — Elucidating the relationships within the Limnoectes kuhlii species complex (Amphibia: Anura: Dicroglossidae)
MILLER, GINGER (M. Greenfield and J. Gleason) — Pre-mating communication and hybridization between two meadow katydids, *Orchelimum nigripes* and *O. pulchellum* (Orthoptera: Tettigoniidae): Male calling song and asymmetric female preference

NUCKOLLS, KATHLEEN (K. Armitage and N. Slade) — Determinants of annual and lifetime reproductive success in female yellow-bellied marmots: a cross-generational study

WILLIAMS, RICHARD (A. T. Peterson) — Ecology and geography of avian viruses using niche models and wild bird surveillance
## Partial Listing of Service Activities Provided by Faculty

<table>
<thead>
<tr>
<th>Faculty Name</th>
<th>ActivitiesProvided</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ALEXANDER, DAVID</strong></td>
<td>Endowment Award/Special Support Committee, Entomology Scholarships, Undergraduate Program Committee</td>
</tr>
<tr>
<td><strong>ALEXANDER, HELEN</strong></td>
<td>Field Station and Ecological Reserves Executive Committee, EEB Merit Evaluation Committee, EEB Graduate Program Committee, Armitage Speaker Fund Committee, EEB Graduate Program Committee</td>
</tr>
<tr>
<td><strong>ARMITAGE, KENNETH</strong></td>
<td>Historic Mount Oread Friends</td>
</tr>
<tr>
<td><strong>BALLANTYNE, FORD</strong></td>
<td>EEB Seminar Committee, EEB Strategic Planning Committee</td>
</tr>
<tr>
<td><strong>BILLINGS, SHARON</strong></td>
<td>NEON Domain Science and Education Committee, KBS Field Station Executive Committee, KBS Executive Committee, College Academic Council, BI Strategic Planning Committee, EEB Graduate Admissions Committee, Armitage Lecture Committee</td>
</tr>
<tr>
<td><strong>BLUMENSTIEL, JUSTIN</strong></td>
<td>EEB Strategic Planning Committee, EEB Research Enhancement Committee, EEB Seminar Committee</td>
</tr>
<tr>
<td><strong>BROWN, RAFE</strong></td>
<td>Wildlife Conservation Society of the Philippines, Society for the Study of Amphibians &amp; Reptiles, SSAR Long-Range Planning Committee, University Scholars Program, KU-University of Costa Rica Research Committee, EEB Graduate Program Committee, Museum GSO Organization</td>
</tr>
<tr>
<td><strong>BURG, GREGORY</strong></td>
<td>UKan Teach Advisory Committee, UKan Policy and Appeals Committee, EEB Undergraduate Biology Program Committee, Beta Beta Beta Biology Honors Society, BioScholars Program, College Academic Council</td>
</tr>
<tr>
<td><strong>BUSBY, WILLIAM</strong></td>
<td>Kansas Threatened and Endangered Species Task Force, Kansas Ornithology Society, Kansas Nongame Wildlife Advisory Council</td>
</tr>
<tr>
<td><strong>CARTWRIGHT, PAULYN</strong></td>
<td>EEB Executive Committee, EEB Graduate Program Committee</td>
</tr>
<tr>
<td>Name</td>
<td>Service Activities Provided by Faculty</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| CHABOO, CAROLINE      | Entomological Foundation, Bioquip Undergrad Award Committee  
                      Kansas African Studies Center  
                      EEB Graduate Admissions Committee  
                      EEB Diversity Enhancement Committee                                                                                                                        |
| deBOER, GERRIT        | EEB Graduate Admissions Committee  
                      Entomology Endowment Committee  
                      Academic Misconduct Hearings Committee  
                      Faculty Student Senate  
                      College Undergraduate Studies and Advising Committee                                                                                                     |
| deNOYELLES, FRANK     | Kansas Reservoir Restoration Technical Advisory Committee  
                      Sediment Baseline Research Group  
                      Mission Lake Restoration Advisory Committee  
                      ICL Community Advisory Board  
                      Kansas Field Station and Ecological Reserves  
                      Kansas Biological Survey, Deputy Director  
                      EEB Promotion and Tenure Committee  
                      EEB Sabbatical Leave Committee                                                                                                                                     |
| ENGEL, MICHAEL        | University Committee on Faculty Compensation  
                      University Committee on Distinguished Professors  
                      KU Undergraduate Biology  
                      EEB Diversity Development Committee                                                                                                                                  |
| FAUTIN, DAPHNE        | Global Biodiversity Information Facility (GBIF)  
                      U. S. National Committee for the Census of Marine Life  
                      EEB Diversity Development Committee                                                                                                                                  |
| FOSTER, BRYAN         | EEB Graduate Program Committee  
                      Executive Committee Kansas Field Station  
                      EEB Strategic Planning Committee                                                                                                                                        |
| FREEMAN, CRAIG        | Flora of North America Association  
                      Western Prairie Fringed Orchid Recovery Team, U.S. Fish & Wildlife Service.  
                      Kansas Native Plant Society  
                      Grassland Heritage Foundation  
                      Kansas Forestry Stewardship Committee  
                      Dyck Arboretum of the Plains  
                      Biodiversity Institute Promotion & Tenure Committee  
                      KBS Executive Committee                                                                                                                                                |
| GLEASON, JENNIFER     | Sigma Xi, Judging Panel  
                      Graduate Writing Program  
                      EEB Seminar Committee                                                                                                                                               |
| HAUFLER, CHRISTOPHER  | EEB Department Chairperson  
                      Honors Program  
                      Center for Teaching Excellence                                                                                                                                 |
Botanical Society of America

**HILEMAN, LENNA**
EEB Graduate Admissions Committee  
CLAS Academic Misconduct Committee

**HOLDER, MARK**
EEB Seminar Series Committee  
EEB Graduate Program Committee  
Committee on Research Computing

**JANDER, RUDOLF**
Biology Honors Committee  
EEB Diversity Development Committee  
Biology Evolutionist

**JENSEN, KIRSTEN**
American Society of Parasitologist  
Scientific Committee, International Symposium for Fish Parasites  
American Society of Parasitologist Site Selection Committee  
Fulbright/Graduate Direct Exchange Committee  
Biology Honors Committee  
Biology Microscopy Committee  
EEB Promotion & Tenure Committee  
EEB Seminar Committee

**KELLY, JOHN**
EEB Greenhouse Director  
EEB Promotion and Tenure Committee  
EEB Merit Committee  
National Institute of Health Panel

**KINSCHER, KELLY**
KBS Undergraduate Research and Internship Committee  
Kansas Land Trust Board Member  
Iowa State University NIH Botanical Center Advisory Council

**KRISHTALKA, LEONARD**
Global Biodiversity Information Facility  
AAAS Council on Science, Engineering and Public Policy  
Natural Science Collections Alliance Board  
Provost Strategic Planning  
Freedom Frontier Natural Heritage Site  
NHM Curriculum Committee  
The Commons Leadership Team  
EEB Strategic Planning Committee

**MARTIN, CRAIG**
EEB Undergraduate Committee

**MARTIN, LARRY**
TERQUA Reorganization Committee  
EEB Sabbatical Leave Committee  
MNH Building-users Committee

**MARTINKO, EDWARD**
Kansas Biological Survey Director  
KUCR Promotion Committee  
NEON Domain 6 Committee  
KU Field Station Director
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International Union for the Conservation of Nature (IUCN)
Kansas Parks and Wildlife
Academic Misconduct Panel
Graduate Committee, Latin American Studies
University Governance Committee on Libraries
George and Eleanor Woodyard International Educator Award
Science Library Liaison
EEB Sabbatical Leave Committee

TRUEB, LINDA
American Society of Ichthyology and Herpetology Board of Governors
VertNET Steering Committee
Amphibian Ontology Project
EEB Associate Chair
EEB Executive Committee
EEB Graduate Admissions Committee
EEB Graduate Program Committee

WARD, JOY
Kavli Fellow Planning Committee
Kansas Geological Survey Director Search
KU Center for Research, Board of Trustees
Chancellor’s Research Task Force
CLAS Dean Search
KU Faculty Mentor Program in Athletics
PREP and IRACDA NIH Program Mentor
EEB Strategic Planning Committee

WILEY, EDWARD
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EEB Promotion and Tenure Committee
Japanese Journal of Ichthyology Advisory Board
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