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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  
Sharon Billings  
Cara L. Burres  
Stephen and Cheryl Cole  
Barbara and Howell Daly  
Elizabeth Davis-Berg  
David A. and Sarah M. Doll  
David L. Edell  
Marguerite K. and Edward A. Frongillo  
Jon K. Evalyn B. Gelhaus  
Owen T. and Wendy L. Gorman (G83, G84)  
Christopher H. and Marsha S. Haufler  
Robert R. Ireland, Jr.  
Ruth A. Kava  
Jon R. Kieckhefer  
Jianwei Li and (G98) and Zhoalang Chen  
Cheryll C. McGuire  
Amy M. McMillan  
Jesse P. Ramirez

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  
John M. Deal Scholarship Fund in Entomology  
Florene B. Fratcher 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
FACULTY

Alexander, Helen M........................................................................... Professor
Billings, Sharon ............................................................................. Associate Professor
Blumenstiel, Justin ........................................................................... Assistant Professor
Brown, Rafe .................................................................................. Associate Professor
Cartwright, Paulyn .......................................................................... Associate Professor
Chaboo, Caroline ............................................................................ Assistant Professor
deBoer, Gerrit ................................................................................ Associate Professor
deNoyelles, Frank ........................................................................... Professor
Engel, Michael ................................................................................ Professor
Fautin, Daphne G ............................................................................ Professor
Foster, Bryan .................................................................................. Professor
Gleason, Jennifer ............................................................................ Associate Professor
Glor, Richard .................................................................................. Associate Professor
Hauffler, Christopher H ................................................................. Professor and Chair
Hileman, Lena ................................................................................. Associate Professor
Holder, Mark .................................................................................. Associate Professor
Jander, Rudolf ................................................................................ Professor
Jensen, Kirsten ................................................................................. Associate Professor
Kelly, John K ................................................................................... Professor
Krishtalka, Leonard ......................................................................... Professor
Lieberman, Bruce ........................................................................... Professor
Martin, Craig E .............................................................................. Professor
Martinko, Edward A ......................................................................... Professor
Mort, Mark ...................................................................................... Associate Professor
Moyle, Robert ................................................................................ Associate Professor
Orive, Maria E ................................................................................ Associate Professor
Peterson, A. Townsend .................................................................... Distinguished Professor
Pierotti, Raymond ........................................................................... Associate Professor
Short, Andrew ................................................................................ Assistant Professor
Sikes, Benjamin ............................................................................. Assistant Professor
Smith, Deborah ................................................................................ Professor
Smith, Leo ....................................................................................... Assistant Professor
Smith, Val H .................................................................................... Professor
Soberon, Jorge ................................................................................ Professor
Taylor, Edith ................................................................................... Professor
Taylor, Orley R., Jr .......................................................................... Professor
Taylor, Thomas N ........................................................................... Distinguished Professor
Thorp, James H ................................................................................ Professor
Timm, Robert M .............................................................................. Associate Professor
Walters, James ................................................................................ Assistant Professor
Ward, Joy ....................................................................................... Associate Professor
**Courtesy/Adjunct FACULTY**

Ballantyne, Ford ........................................ Adjunct Assistant Professor  
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 Researcher  
Greenfield, Michael ...................................... Adjunct Professor  
Hasiotis, Stephen ......................................... Courtesy 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 Researcher  
McLeod, David ............................................ Courtesy Researcher  
Money, Daniel ............................................ Adjunct Researcher  
Selden, Paul ................................................. Courtesy Distinguished Professor  
Smith, Marilyn ............................................ Adjunct Researcher  
Rivers, Trevor .............................................. Courtesy Researcher  
Tourtellot, Michael ....................................... Adjunct Assistant Professor  
White, Merlin .............................................. Adjunct Researcher  

**Postdoctoral Fellows**

Becklin-Atkinson, Katie  
Boom, Devin  
Bomfleur, Benjamin  
Buckridge, Kate  
Casey, Michelle  
Heath, Tracy  
Hiatt, Anna  
Koelling, Vanessa  
McTavish, Emily  
Money, Daniel  
Wessinger, Carrie  
Zwickl, Derek  

**Emeritus Faculty**

Armitage, Kenneth B.  
Byers, George W.  
Cutler, Bruce  
Duellman, William E.  
Johnston, Richard  
Lichtwardt, Robert W.  
Michener, Charles D.  
Taylor, Edith  
Torres, Andrew  
Trueb, Linda  
Schultze, Hans Peter  
Slade, Norman  
Wiley, Edward
2013 - GRADUATE STUDENTS

Alvarado Gutierrez, Mabel
Andersen, Michael
Arroyo, V. Baruch
Baca, Stephen
Barley, Anthony
Barve, Narayani
Bhatta, Chet Prasad
Bittel, Alexander
Bowes, Rachel
Breitkreuz, Laura
Campbell, Lindsay
Campillo, Luke
Carter, Jacob
Chan, Kin Onn
Chang, Elizabeth “Sally”
Chen, Xi
Cielocha, Joanna
Colicchio, Jack
Colyott, Kaila
Cooper, Jacob
Davis, Steve
De Silva, Thilina
Eldredge, Taro
Erwin, Alexandra
Gerhart, Laci
Grismer, Jesse
Hall, David
Harpel, Desiree
Harper, Carla
Harris, Ted
Hemmer, Lucas
Hensz, Chris
Hosner, Peter
Hutter, Carl
Ingenloff, Kathryn
Janra, Muhammad
Jones, Robin
Klymiuk, Ashley
Koseva, Boryana
Lira-Noriega, Andres
Lubin, Terra
Luce, Logan
Maier, Crystal
Manthey, Joseph
Masterson, Courtney
Mayes, Daphne
Min, Kyungjin
Monnahan, Patrick
Munoz, Sofia

Oaks, Jamie
Oliveros, Carl
Olson, Karen
O’Neill, Brian
Owens, Hannah
Pesek, Mari
Pocius, Victoria
Roccaforte, Kathryn
Romero, Andrea
Roy, Paula
Sahrmann, John
Samy, Abdallah
Sanders, Steven
Schmidt, Sarah
Sengupta, Aniket
Shin, Choru
Simoes, Marianna
Su, Shan-Hui
Toro Nunez, Oscar
Travers, Scott
Walker, S. Michael
Williams, Bradley
Yun, Jin-Ho
Zaxicuo, Tashitso
### ANNUAL REPORT OF THE
### DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY
### 2013

#### Courses Taught by Faculty

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<td>BIOL 985</td>
<td>Advanced Study</td>
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<td>HINU 330</td>
<td>Field Biology</td>
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<td>GEOL 177</td>
<td>First Year Seminar</td>
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<td>AMS 996</td>
<td>Examination (Ph.D.) Prep</td>
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<td>EVRN 420</td>
<td>Evolution and Conservation of Marine Mammals</td>
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<td>EVRN 420</td>
<td>Natural Resource Management</td>
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<td>EVRN 460</td>
<td>Field Ecology</td>
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<td>LA 302</td>
<td>Topics in Latin American Studies</td>
<td>3</td>
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Journal Publications of Faculty

**ARMITAGE, KENNETH**


**BILLINGS, SHARON**


<table>
<thead>
<tr>
<th>Journal Publications of Faculty</th>
</tr>
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</table>

**Blumenstiel, Justin**


**Brown, Rafe**


diversity in Southeast Asian monitor lizards.


**Busby, William**


**Cartwright, Paulyn**


**Chaboo, Caroline**


**Crawford, Daniel J.**


Engel, Michael

Faculty in the Department of Ecol. & Evol. Biology had peer–reviewed publications in several national and international journals in 2013.


Davis, S. R., M. S. Engel, A. Legalov, and D. Ren. 2013. Weevils of the Yixian Formation, China (Coleoptera: Curculionoidea):


**FAUTIN, DAPHNE**


**GLOR, RICHARD**


**GRANIER, BRUNO**


**HILEMAN, LENA**


**HOLDER, MARK T.**


**JENSEN, KIRSTEN**


**Kelly, John K.**


**Kindscher, Kelly**


**Krings, Michael**


**Krishtalka, Leonard**


**Lieberman, Bruce**


MARTIN, CRAIG


MORT, MARK


MOYLE, ROBERT


**PETerson, A. TOWNSEND**


adaptation priorities for biodiversity and food security. *PLoS ONE* 8: e72590.


<table>
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<th>Author(s)</th>
<th>Title and Details</th>
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SOBERON, JORGE  


TAYLOR, EDITH  


**THORP, JAMES H.**


**TIMM, ROBERT**


**WARD, JOY**

Books and Book Chapters by Faculty

CARTWRIGHT, PAULYN

DENOYELLES, FRANK

ENGEL, MICHAEL


LIEBERMAN, BRUCE
and T. Servais (eds.). *Early Palaeozoic Biogeography and Palaeogeography.*

**MARTINKO, EDWARD**


**SMITH, VAL**


**TIMM, ROBERT**

Reports, Minor Publications, and Electronic Communications

**ALEXANDER, HELEN**

**BROWN, RAFE**

**CHABOO, CAROLINE**


**DE NOYELLES, FRANK**


Jakubauskas, M., J. deNoyelles, and E. Martinko. 2013. Bathymetric and Sediment Survey of Richmond City Lake,


ENGEL, MICHAEL


FAUTIN, DAPHNE


FOSTER, BRYAN


GLOR, RICHARD


HOLDER, MARK


KINDSCHER, KELLY

Kindscher, K. 2013. Lewis and Clark’s influence on

Krishtalka, L. 2013. What kind of Pope should we hope for?
*Lawrence Journal World*, Opinion Editorial, Lawrence, KS.

*Lawrence Journal World*, Opinion Editorial, Lawrence, KS.

Martin, Craig E. Martin C. E., G. Lux, W. B. Herppich. 2012. Responses of
epidermal cell turgor pressure and photosynthetic activity
of leaves of the atmospheric epiphyte Tillandsia usneoides
(Bromeliaceae) after exposure to high humidity. *Journal
Plant Physiol.*

http://dx.doi.org/10.1016/j.jplph.2012.08.013


Bathymetric and Sediment Survey of Boy Scout Lake,

Bathymetric and Sediment Survey of Crystal Lake,

Bathymetric and Sediment Survey of Garnett City Lake,

Bathymetric and Sediment Survey of Richmond City Lake,


PETERSON, A. TOWNSEND


PIEROTTI, RAYMOND


SMITH, VAL


SOBERON, JORGE


TAYLOR, ORLEY


Are monarch butterflies true navigators? The jury is still out. *PNAS* 2013 110 (39) E3680
doi:10.1073/pnas.1308369110

THORP, JAMES

Thorp, J.H. 2013. Metamorphosis in river ecology: from reaches to macrosystems. *Freshwater Biology* DOI:
10.1111/fwb.12237


**McTavish, Emily**


Publications of Graduate Students

**ALVARADO GUTIERREZ, MABEL**


**ARROYO, V. BARUCH**


**BARLEY, ANTHONY**


**BARVE, NARAYANI V.**


DAVIS, STEVE


DE SILVA, THILINA


ELDREDGE, KEN T.


ERWIN, ALEXANDRA


HALL, DAVID


HARPER, CARLA J.


**HENSZ, CHRISTOPHER**


**HOSNER, PETER**


**HUTTER, CARL**


INGENLOFF, KATHRYN

JONES, ROBIN

KLYMIUK, ASHLEY


KOSEVA, BORYANA S.

LIRA-NORIEGA, ANDRÉS
mistletoe distribution: a multiscalar approach.  

2013. Range–diversity plots for conservation assessments:  
Using richness and rarity in priority setting. _Biological Conservation_. 158: 313-320.

**MAIER, CRYSTAL A.**

Maier, C. A., and M. A. Ivie. 2013. Re-evaluation of  
_Chalcophora angulicollis_ (LeConte) and _Chalcophora virginiensis_ (Drury) with a review and key to the North American species of _Chalcophora_ Dejean (Coleoptera: Buprestidae) _The Coleopterists Bulletin_ 457-469.

Maier, C. A. 2013. A revision of the Larainae  
(Coleoptera, Elmidae) of Venezuela, with  

Maier, C. A. and A. E. Z. Short, 2013. A revision of the Lutrochidae (Coleoptera) of Venezuela, with  

Maier, C. A. and M. A. Ivie, 2013. New Species and  
Records of _Chrysobothris_ Eschscholtz  
(Coleoptera: Buprestidae) from Montserrat, Saba,  
and Anguilla, with a key to the _Chrysobothris thoracica_ species-group in the West Indies. _The Coleopterists Bulletin_ 67(2): 81-88.

**MAYES, DAPHNE**

Sievert, L. M., Y. Suita, **D. M. Mayes**, L. R.  
Specific dynamic action, postprandial  
thermophily, and the impact of temperature on  
gastric digestion in the cornsnake, _Pantherophis guttatus_. _Zoological Studies_ 52: 33.

**OLIVEROS, CARL**

C. Diesmos, P. A. Hosner, C. W. Linkem, A. J. Barley, J.  
R. Oaks, M. B. Sanguila, L. J. Welton, D. C. Blackburn, R.  

Mahood, S. P., A. J. I. John, J. C. Eames, **C. H. Oliveros**, R.  
G. Moyle, H. Chamnan, C. Poole, H. Nielsen, and F. H.  
Sheldon. 2013. A new species of lowland tailorbird


**O’NEILL, BRIAN**


**OWENS, HANNAH**


**SHIN, CHULWOO**


**TRAVERS, SCOTT**

Presentations by Faculty

ALEXANDER, HELEN


Alexander, H. M. 2013. Plant populations in a changing world. Ecology and Evolutionary Biology BIO3 seminar, University of Kansas, Lawrence, KS. December.


ARMITAGE, KENNETH


Armitage, K. B. 2013. Sociality, individual fitness and population dynamics of yellow-bellied Marmots. Evolutionist meeting, University of Kansas, Lawrence, KS., April.

BILLINGS, SHARON


climate in boreal forest soils. The American Geophysical Union, San Francisco, CA., December.

BLUMENSTIEL, JUSTIN


BROWN, RAFE M.


CARTWRIGHT, PAULYN


Cartwright, P. 2013. A phylogenetic and developmental perspective to understanding life cycle evolution in Hydrozoa (Phylum Cnidaria). Seminar in Ecology and Evolutionary Biology, Kansas State University, Manhattan, KS., February.


CHABOO, CAROLINE

Chaboo, C. S. 2013. Factors driving the super-radiation of leaf beetles, Rutgers University, Newark, N.J.


Chaboo C. S. 2013. Biodiversity and art in the Peruvian Amazon. Hall Center Lecture Series in Art and Nature, University of Kansas, Lawrence, KS.

Chaboo C. S. 2013. Insect biology along an Andes-Amazon transect in Peru. Latin American Studies Program, University of Kansas, Lawrence, KS.

Chaboo C. S. 2013. International field research with undergraduate students, Biodiversity Institute, University of Kansas, Lawrence, KS., September.

Chaboo C. S. Factors driving the super-radiation of leaf beetles. Bug lunch, University of Kansas, Lawrence, KS., March.


Muñoz, S., F.V. Vencl, C. S. Chaboo. 2013. Molecular phylogeny of the shining leaf beetles (Chrysomelidae:
Criocerinae) with special focus on *Lema* (Fabricius, 1798). Entomological Society of America, Austin, TX, November.

**CRAWFORD, DANIEL**

Crawford, D. J., M. E. Mort, and J. K. Kelly. 2013. Melding the old and the new: The potential for incorporating genomics into the conservation of island floras, with an example from *Tolpis* Asteraceae) in the Macaronesain archipelagos. UNESCO Chair Meeting: La Conservación de la Biodiversidad en Macaronesia y el Oeste de África. Jardin Botanico Canario, Gran Canaria, Canary Islands, November.


**DE NOYELLES, FRANK**


**ENGEL, MICHAEL S.**

Engel, M. S. 2013. Entomological museum management: An example from the University of Kansas. Department of Plant Protection, King Saud University, Riyadh, Saudi Arabia, November.

Engel, M. S. 2013. Scratching an ancient itch: Giant fleas, bugs in the biogeography, and general revelations from fossil insects. KU Biodiversity Institute Board of Advisors Meeting, Lawrence, KS., February.
Faculty in the Department gave more than 200 presentations for their research at national and international professional meetings and symposia.


Engel, M. S. 2013. 400 million years on six legs: Evolution of the insects. Science on Tap series, Lawrence, KS., June.

Engel, M. S. 2013. Phylogeny, geological history, and the ecological dominance of termites. II Simpósio Brasileiro de Termitologia, Universidade de Brasilia, Brasilia, Brazil, August.

Engel, M. S. 2013. 400 million years on six legs: Evolution of the insects. Departamento de Zoologia, Universidade Federal da Bahia; Salvador, Brazil, August.


Engel, M. S. 2013. To bee or not to bee: Melittology and the importance of systematics. VIII Congreso Mesoamericano de Abejas Nativas, Universidad Nacional, Heredia, Costa Rica, August.


Ortega-Blanco, J., **M. S. Engel,** and X. Delclòs. 2013. New families of Hymenoptera described in Spanish amber. 6th International Congress on Fossil Insects, Arthropods, and Amber. Byblos, Lebanon, April.


Kotthoff, U., T. Wappler, and **M.S. Engel.** 2013. Migrations of European honey bee lineages into Africa, Asia, and North America during the Oligocene and Miocene. European Geosciences Union General Assembly, Vienna, Austria, April.

Fautin, Daphne


Fautin, D. G. 2013. Sea anemones: so much more than clownfish homes; Southern Illinois University, Carbondale, IL., January.

Fautin, D. G. 2013. Big data: lesson learned from sea anemones. 8th International Conference on Coelenterate Biology, Eilat, Israel, December.

Foster, Bryan


Hall, D. R., B. L. Foster, G. R. Houseman, C. C. Freeman and J. M. Delisle. 2013. Past agricultural activity and current vegetation cover are consistent predictors of invasion and spread of Sericea lespedeza at local and landscape scales. Ecological Society of America, Minneapolis, MN., August.

Roccaforte, K., B. L. Foster, A. T. Bittel and G. R. Houseman. 2013. Interactive effects of soil fertility and initial community states on small-scale plant species richness. Ecological Society of America, Minneapolis, MN., August.

Freeman, Craig


Gleason, Jennifer


Hileman, Lena


Holder, Mark


Jensen, Kirsten


Faculty members in Ecology and Evolutionary Biology gave presentations on their research in many cities in the U.S. and in 20 international countries including: Philippines, Estonia, Lebanon, Netherlands, Brazil, Czech Republic, India, and Saudi Arabia.


Kelly, John


Kindscher, Kelly


Klymiuk, A. A., and M. Krings. 2013. Trauma in the fossil record: dictyosporic conidia in an extinct fern may illustrate phenotypic

**Krishtalka, Leonard**


Krishtalka, L. GBIF Science. GBIF Governing Board, Berlin, Germany, October.

**Lieberman, Bruce**


Lieberman, B. 2013. Applying Biodiversity Science to Paleontology; Stasis; Astrobiology; Phylogenetic Biogeography; History of Biogeography; Evidence for Periodicity in the Fossil Record; and Nature of Evolutionary Radiations. 1st International Winter School on Evolution, University of Lisbon, Portugal, March.


Crawford, D.J., M. E. Mort, and J. K. Kelly. 2013. Melding the old and the new: The potential for incorporating genomics into the conservation of island floras, with an example from Tolpis Asteraceae) in the Macaronesian archipelagos”. UNESCO Chair Meeting: La Conservación de la Biodiversidad en Macaronesia y el Oeste de África. Jardin Botanico Canario, Gran Canaria, Canary Islands, November.


anonymous nuclear loci. American Ornithologists’ Union meeting, Chicago, IL., August.


ORIVE, MARIA


Orive, M. E. and J. Wakeley. 2013. The roles of vertical vs. horizontal symbiont transmission in host-endosymbiont dynamics. Evolution Meetings, Snowbird, UT., June.


PETERSON, A. TOWNSEND


Peterson, A. T. 2013. Plague migration and human activities, Migration seminar, University of Kansas, Lawrence, KS.

Peterson, A. T. 2013. Opening access to literature and data empowers academia, Texas State University Libraries, San Marcos, TX.

PIEROTTI, RAYMOND


SHORT, ANDREW


Short, A.E.Z. 2013. Expanding the utility and resolution of the traditional collection database. ADBC Wet Collections Workshop, Lawrence, KS., April.


Sikes, Benjamin

Sikes, B. A. 2013. Deciphering the dirt: understanding microbes, their roles in ecosystems, and potential application. Hawkesbury Institute for the Environment, University of Western Sydney-Hawkesbury, Sydney, NSW, Australia, April.

Sikes, B. A. 2013. Deciphering the dirt: understanding microbes, their roles in ecosystems, and potential application. Louisiana State University, Baton Rouge, LA., October.

Smith, Deborah

Smith, D. 2013. Interesting problems in the biology of Indian honey bees and stingless bees. 4th International Insect Science Congress, Bangalore, India, February.

Smith, Val


Smith, V. H. 2013. The ecology of algal biofuels production. Kansas State University, Manhattan, KS., April.


Smith, V. H. 2013. Algal biofuels research: Where are the aquatic ecologists? Association for the Sciences of Limnology and Oceanography, New Orleans, LA, February.


SOBERON, JORGE


Soberón, J. 2013. From practice to theory: areas of distribution as policy building-blocks. Ecological Integration Symposium, Texas A & M University, College Station, TX., March.


TAYLOR, EDITH


Taylor, O. 2013. Gardening, monarchs, butterflies, pollinators, climate change, Kansas, and the Ogalala. Mini-College, University of Kansas, Lawrence, KS., June.


Taylor, O. 2013. Pollinator Prairie. EPA video, Olathe, KS., June.


Taylor, O. 2013. Citizen sciences, Monarchs, and open access. Mini Conference, University of Kansas, Lawrence, KS., October.

Taylor, O. 2013. The importance of pollinators. Kansas Rural Center meeting, Newton, KS., November.


TAYLOR, THOMAS

Taylor, T. N. 2013. Fairways, fossil and federal funding. KU Self Graduate Fellowship, University of Kansas, Lawrence, KS., January.


Taylor, T.N. 2013. Potential Ecology and Evolutionary Biology Graduate Students workshop, University of Kansas, Lawrence, KS.


**THORP, JAMES**


**TIMM, ROBERT**


**WARD, JOY**

hemispheres. 16th International Congress on Photosynthesis Research, St. Louis, MO., August.


**Ward, J. K.** 2013. Plant Responses to Changing [CO₂]: From the last glacial period through the future. Duke University, Durham, N. C., October.

**Ward, J. K.** 2013. Plant Responses to Changing [CO₂]: From the last glacial period through the future. University of Maryland, College Park, MD., September.

**Ward, J. K.** 2013. Plant Responses to Changing [CO₂]: From the last glacial period through the future. University of New Mexico, Albuquerque, May.


**Ward, J. K.** 2013. Plant responses to changing [CO₂]: From the last glacial period through the future. Geology Department, University of Kansas, Lawrence, KS., April.

**Ward, J. K.** 2013. Climate change and plants: Red hot research. The Commons, University of Kansas, Lawrence, KS., February.


Presentations by Postdoctoral Researchers


**BLOOM, DEVIN**


**BUCKERIDGE, KATE**


**CASEY, MICHELLE**

### Presentations by Postdoctoral Researchers

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casey, M.</td>
<td>Conservation paleobiology of Long Island Sound Mollusks.</td>
<td>Illinois College, Department of Environmental Studies, Jacksonville, IL.</td>
<td>November 2013</td>
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<tr>
<td>McTavish, Emily J.</td>
<td>Genomic structure of introgression in New World cattle - Quantitative genetics and genomics.</td>
<td>Gordon Research Conference, Galveston, TX.</td>
<td>2013</td>
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<tr>
<td>McTavish, Emily J.</td>
<td>Challenges of synthesizing divergence time information on the tree of life.</td>
<td>iEvoBio, Snowbird, UT.</td>
<td>June 2013</td>
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<tr>
<td>McTavish, Emily J.</td>
<td>Estimating population histories using single-nucleotide polymorphisms sampled throughout genomes.</td>
<td>Evolution meeting, Snowbird, UT.</td>
<td>June 2013</td>
</tr>
<tr>
<td>Wessinger, Carolyn</td>
<td>Parallel gene breakdown in Penstemon.</td>
<td>Evolution meeting, Snowbird, UT.</td>
<td>June 2013</td>
</tr>
</tbody>
</table>
Presentations by Graduate Students

ANDERSON, MICHAEL


ALVARADO, MABEL


Suarez, J., J. Grados, L. Figueroa, M. Alvarado, and P. Sánchez. 2013. Estudio preliminar de las comunidades de Pompilidae, Ichneumonidae (Hymenoptera), Arctiinae (Lepidoptera), Scarabaeinae (Coleoptera) del área de conservación privada Abra Patricía, Alto Nieva, Amazonas, Perú. Peruvian Entomological Meeting, Lima, Peru, November.


Simoes, M., V. Arroyo-Peña, and M. Alvarado. 2013. Assessing the environmental differences within Mesophalia sexmaculata Boheman, 1850 (Coleoptera, Cassidinae, Mesomphaliini)


**BHATTA, CHET** Bhatta, C. P. 2013. Effectiveness of some local baits for the management of hornets in apiaries of Kathmandu Valley. Graduate Student Retreat, University of Kansas, Lawrence, KS October.


**Graduate students in Ecology and Evolutionary Biology gave presentations on their research in Several states and in a number of International countries including: Peru, Germany, Israel, and Egypt.**
<table>
<thead>
<tr>
<th>Graduate Student Name</th>
<th>Presentations</th>
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</table>
Colyott, Kaila


Davis, Steve


Shin, C. and S. R. Davis. 2013. A study of the morphology and mechanism behind color change in Eurypepla calochroma (Coleoptera: Chrysomelidae). Entomological Society of America annual meeting, Austin, TX., November.

Eldredge, Kent T.

Eldredge, K. T. 2013. The future of symbiont biology as a unified research field. Entomological Society of America, Austin, TX., November.


Erwin, Alexandra


Hall, David

Hall, D. R., B. Foster, G. Houseman, J. Delisle, and C. Freeman. 2013. Past agricultural activity and current vegetation cover are consistent predictors of invasion and spread of Sericea at local
and landscape. Ecological Society of America, Minneapolis, MN., August.


**HARPER CARLA**


**HARRIS, THEODORE**


**HEMMER, LUCAS**


Lira-Noriega, A. 2013. A comparison of process-based and correlative modeling approaches to understand species distributions at different spatial scales. Department of Ecology and Evolutionary Biology, Kansas State University, Manhattan, KS., April.


Maier, Crystal. 2013. The travertine beetles (Coleoptera: Lutrochidae): a morphological phylogenetic study of a poorly known aquatic
dryopoid family. Entomological Society of America, Austin, TX., November.

**MANTHEY, JOSEPH**


**MASTERSO, COURTNEY**


**MAYES, DAPHNE**

Mayes, D. 2013. Trap-nesting hymenopterans in prairie landscapes. Entomology talk, University of Kansas, Lawrence, KS., December.


**MIN, KYUNGJIN**


**MONNAHAN, PATRICK**

Monnahan, P. J. 2013. Next-Gen high-throughput genotyping yields dense linkage map for *Mimulus guttatus*. EEB Genetics, University of Kansas, Lawrence, KS, November.

Monnahan, P. J. 2013. Epistasis among QTL affecting floral size and development in *Mimulus guttatus*. GSO Retreat, University of Kansas, Lawrence, KS, October.
MUÑOZ, SOFIA I.  


OLIVEROS, CARL. H.  


O’NEILL, BRIAN  


OWEN, HANNAH  


ROCCAFORTE, KATHY  
Roccaforte, K., B. L. Foster, A. T. Bittel and G. R. Houseman. 2013. Interactive effects of soil fertility and initial community states on small-scale plant species richness. Ecological Society of America, Minneapolis, MN., August.

SAMY, ABDALLAH M.  

coarse-resolution ecology in Egypt. International Conference of Biological Sciences, Cairo, Egypt, July.

**SHIN, CHULWOO**

Shin, C. 2013. A study of morphology and mechanism behind color change in *Eurypepla calochroma* (Coleoptera: Chrysomelidae). Entomological Society of America, Austin, TX., November.

Shin, C. 2013. Color change in *Eurypepla calochroma* (Coleoptera: Chrysomelidae). The University of Kansas, Entomology Division, Lawrence, KS., October.

Shin, C. A study of morphology and mechanism behind color change in *Eurypepla calochroma* (Coleoptera: Chrysomelidae). The University of Kansas, Dept. of Ecology and Evolutionary Biology, Graduate Student Organization Retreat. Lawrence, KS., October.

**SIMOES, MARIANA**


**SANDERS, STEVEN M.**


Walker, S. Michael


Walker II, S. M. 2013. CO₂ and Temperature interactions buffer flowering time changes over the last century. Topics in Ecology: Global Climate Change. University of Kansas, Lawrence, KS., November.

Walker II, S.M. 2013. Climate change and plant phenology. EEB Genetics, University of Kansas, Lawrence, KS., September.

Walker II, S. M. and J. K. Ward. 2013. CO₂ and temperature interactions buffer flowering time changes over the last century. IGERT C-CHANGE HERS Summer Institute, Haskell University, Lawrence, KS., June.


Yun, Jin-Ho

Yun, J. 2013. Freshwater macroalgae as a potential biofuels feedstock. EEB Graduate Student Retreat. University of Kansas, Lawrence KS., October.

Yun, J., T. Patterson, G. Roberts, J. deNoyelles, and V. Smith. 2013. Freshwater macroalgae as a potential biofuels feedstock. Kansas Biological Survey, University of Kansas, Lawrence KS.


Yun, J., T. Patterson, G. Roberts, V. Smith. 2013 Productivity and growth of filamentous macroalgae for use as a potential biofuels
Yun, J., T. Patterson, G. Roberts, and V. Smith. 2013. Productivity and growth of filamentous macroalgae for use as a potential biofuels feedstock. Sigma Xi Graduate Research Competition, University of Kansas, Lawrence KS.
## Extramural Funding Received by Faculty

### 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)

**National Science Foundation.** 2011-2016. $195,660.
Collaborative Research: Scale, Consumers and Lotic Ecosystem Rates (SCALER): Scaling from Centimeters to Continents. (PI on KU portion)

### BILLINGS, SHARON

**National Science Foundation.** 20011-2014. $329,890.
Facilities to enhance research and teaching at the University of Kansas Field Station. (P.I. with two others)

**National Science Foundation.** 2010-2013. $595,998.
ETBC: Temperature sensitivity of substrate decomposition from enzymes to microbial communities. (P.I. with two others)

Faculty in EEB were supported by several million in active extramural grants.

**Wallace Genetic Foundation.** 2012-2013. $3,086.
Planning for sampling and analysis of the world’s long-term soil experiments. (co-PI with 1 other)

**National Science Foundation.** 2009-2013. $580,720.
Purchase of a cyber-enhanced regional 500 MHz solid state NMR spectrometer. (co-PI)

**National Science Foundation.** 2013-2018. $4,900,000.
Human and natural forcings of critical zone dynamics and evolution at the Calhoun Critical Zone Observatory. (co-PI with several others)

**National Science Foundation.** 2013-2016. $346,714.
FSML: Enhancements to internet and communication systems at the KU Field Station. (co-Investigator)

### BLUMENSTIEL, JUSTIN P.

**National Science Foundation.** 2010-2014. $678,711. The epigenetics of RNA based silencing and transposon control in *Drosophila virilis*. (PI)

**National Science Foundation.** 2013-2016. $500,000. MRI: Acquisition of computing equipment for data-intensive bioinformatics research at the University of Kansas. (co-PI with 4 others)

BROWN, RAFE

National Science Foundation, Dissertation Improvement Grant. 2010-2013. $14,886. Comparative phylogeography of a dynamic Archipelago. (PI with two others)

National Science Foundation, Biotic Surveys and Inventories Panel. 2008–2014. $900,942. A comprehensive biotic survey of Philippine land vertebrates and their parasites. (PI with 2 co-PIs)

National Science Foundation, Digitization ADBC Program Grant. 2013-2017. $198,000. Centralized digital archive of vouchered animal communication signals source of support. (PI with one other)

National Science Foundation, Systematic Panel Proposal. 2014-2015. $125,000. RAPID: Re-organization of Philippine rainforest biodiversity following disturbance on regional scales from a powerful typhoon. (PI with 2 others)

BUSBY, WILLIAM


Kansas Department of Wildlife, Parks and Tourism. 2013-2014. $119,002. Management of protected and sensitive species data for environmental review and state wildlife conservation planning. (co-PI with one other)

CARTWRIGHT, PAULYN

National Science Foundation. 2010-2015. $750,000. Career: Integrating phylogenetics and development to investigate character evolution in hydrozoans. (PI)

National Science Foundation. 2013-2016. $249,943. ICOB: Molecular and morphological characterization of polar capsules in the parasitic Myxozoa. (co-PI with one other)

CHABOO, CAROLINE

National Science Foundation. 2011-2015. $775,769. Digitization TCN: Collaborative research: Plants, herbivores, and parasitoids: A model system for the study of tri-trophic associations. (Co-PI with three others)
National Science Foundation. 2011-2013. $495,426. A specimen-level database of the world’s bees (Apoidea) at the University of Kansas. (co-PI with three others)

DeNOYELLES, FRANK

Kansas Water Resources Institute. 2012-2013. $15,000. Sediment core analysis for understanding reservoir history. (co-PI with one other)

Kansas Water Resources Institute. 2012-2013. $155,000. Bathymetric surveys of Kansas reservoirs. (co-PI with two others)

National Fish and Wildlife Foundation. 2005-2015. $10,000. Wetland and wet meadow restoration on the Robinson tract. (co-PI with two others)

National Fish and Wildlife Foundation. 2009-2013. $8,000. Topeka Shiner study extension. (co-PI with one other)

National Science Foundation, EPSCoR. 2009-2014. Phase VI: Climate change and energy: Basic science, impacts and mitigation. $20,000,000. (Collaborator)


Kansas Water Resources Institute. 2013-2014. $50,000. Bathymetric survey of John Redmond Reservoir. (Co-PI with two others)

Kansas Water Resources Institute. 2013-2014. $20,000. Characterization and mapping of sediment thickness and pattern in John Redmond Reservoir. (co-PI with two others)

Engel, Michael

National Science Foundation. 2011–2014. $495,426. A specimen-level database of the world’s bees (Apoidea) at the University of Kansas. (PI with three others)

National Science Foundation. 2011–2013. $14,824. Doctoral Dissertation Improvement Grant: Evolution of the weevils and development of the weevil rostrum (Coleoptera: Curculionoidea). (PI with two others)

Digitization TCN: Collaborative research: Fossil insect collaborative: A deep-time approach to studying diversification and response to environmental change. (PI)

**FOSTER, BRYAN**

**National Science Foundation.** LTREB. 2010-2015.
$267,524. Long-term studies of secondary succession and community assembly in the prairie-forest ecotone of eastern Kansas. (PI)

Facilities to enhance research and teaching at the University of Kansas Field Station. (co-PI with two others)

National Science Foundation. LTREB. 2010-2015.
$580,362. Plant recruitment, coexistence and community assembly in developing prairie restorations. (PI)

National Science Foundation. 2013-2016. $346,714.
FSML: Enhancements to internet and communication systems at the KU Field Station. (co-PI with four others)

**FREEMAN, CRAIG**

**Bureau of Land Management.** 2010-2013. $23,744.
Assessment of the status of blowout penstemon (Penstemon haydenii S. Watson, Plantaginaceae) using molecular and morphological approaches. (PI with one other).

**GLEASON, JENNIFER**

**National Science Foundation.** 2013-2016. $325,616. REU Site: Models in evolution, ecology and systematics. (PI with one other)

**HILEMAN, LENA**

**National Science Foundation.** 2010–2013, $560,502.
The molecular basis for epigenetic inheritance of trichome patterning in *Mimulus.* (co-P.I. with 2 others)

National Science Foundation. 2011–2013, $240,000.
Determining the evolutionary developmental consequences of gene duplications in the SPL family of transcription factors. (P.I. with one other)

**National Science Foundation, Strategic Initiative Grant.**
2013-2016. $328,867. Determining the effects of rising CO2 and temperature on flowering time: scientific and social implications. (co-PI with one other)
<table>
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<th>Year(s)</th>
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<td>HOLDER, MARK</td>
<td>National Science Foundation. Dissertation Research.</td>
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<td>National Science Foundation.</td>
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<td>DEB: Integrating fossil: Data into likelihood-based phylogenetic analyses with Trilobites as a model system. (PI with one co-PI)</td>
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<td>JENSEN, KIRSTEN</td>
<td>National Science Foundation, Dissertation Improvement.</td>
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<td>Toward resolving lecanicephalidean familial relationships using morphology and molecules. (co-PI with one other)</td>
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<td>Genomic analysis of complex trait variation in Mimulus. (PI with one other)</td>
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<td>National Science Foundation.</td>
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<td>The molecular basis for epigenetic inheritance of trichome patterning in <em>Mimulus</em>. (PI with two others).</td>
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<td>KRINGS, MICHAEL</td>
<td>National Science Foundation.</td>
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<td>$390,746</td>
<td>Understanding the diversity and biology of microbes in late Paleozoic ecosystems. (co-PI with one other)</td>
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<td>Deutsche Forschungsgemeinschaft Grant.</td>
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<td>$288,541</td>
<td>A first synecological study of the Rhynie chert biota-interactions between organisms and their environment – Part II. (co-PI)</td>
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<td>KRISHTALKA, LEONARD</td>
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<td>LICHTWARDT, ROBERT</td>
<td>National Science Foundation.</td>
<td>2009-2013</td>
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<td>Collaborative Research: REVSYS: RUI: Phylogenetic and revisionary systematics of early-diverging, ecologically unique clades of fungi: Harpellales and Asellariales. (PI with one other)</td>
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<td>LIEBERMAN, BRUCE</td>
<td>National Science Foundation.</td>
<td>2007-2013</td>
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<td>Revisionary systematics of Cherirurid trilobites. (PI with one other)</td>
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<td>National Science Foundation, Emerging Frontiers.</td>
<td>2012-2015</td>
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<td>Advancing the digitization of biological collections: Paleoniches. (PI with two co-PIs)</td>
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<td>National Science Foundation.</td>
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<td>MARTINKO, EDWARD</td>
<td>National Fish and Wildlife Foundation.</td>
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<td>Wetland and wet meadow restoration on the Robinson Tract. (PI with 2 others)</td>
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<td>Kansas Water Office, Kansas Department of Wildlife and Parks</td>
<td>2011-2013</td>
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<td>Bathymetric surveys of Kansas reservoirs. (co-PI with two others)</td>
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<td>Kansas Department of Wildlife and Parks</td>
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<td>$88,239</td>
<td>Supporting natural resources management objective using GIS and Remote Sensing Technologies. (P.I. with one other)</td>
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<td>Kansas Department of Wildlife and Parks</td>
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<td>Development of natural resources mapping technology. (P.I. with one other)</td>
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<td>Kansas Water Office, Kansas Department of Wildlife and Parks</td>
<td>2013-2014</td>
<td>$50,000</td>
<td>Bathymetric survey of John Redmond Reservoir. (co-PI with 2 others)</td>
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Kansas Water Office, 2013-2014. $20,000.  
Characterization and mapping of sediment thickness and pattern in John Redmond Reservoir. (co-PI with two others)

$90,025. Supporting natural resources management objective using GIS and remote sensing technologies. (co-PI)

$37,105. Development of natural resources mapping technology. (PI with one other)

MORT, MARK  
National Science Foundation. 2013-2016. $325,616. REU Site: Models in evolution, ecology and systematics. (co-PI)

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

National Science Foundation. 2008-2013. $14,866.  
Dissertation Research: Testing the Pleistocene aggregate island complex (PAIC) model of diversification in co-distributed avian lineages. (PI with one other)

Collaborative Research: Systematics of a pantropical diversification: the suboscine passerine birds. (PI with one other)

National Science Foundation. 2012-2016. $344,000.  
Dimensions: Collaborative Research: Historical and contemporary influences on elevational distributions and biodiversity tested in tropical Asia. (PI with one other)

National Science Foundation. 2013-2015. $19,256.  
Dissertation Research: Disentangling phylogenetic relationships in an explosive bird radiation. (PI with two others)

PETerson, A. TOWNSEND  
National Institutes of Health. 2010-2014, $1,995,000.  
Monkeypox ecology: An integrated approach to investigations of the sylvatic reservoirs of human monkeypox. (PI)

National Science Foundation. 2008-2013. $1,571,567.  
ORNIS: A community effort to build an integrated distributed, enriched and error-check Ornithological Information System. (PI with 2 others)

National Science Foundation. 2009-2014. $3,000,000. IGERT: CHANGE: Climate Change, Humans, and Nature in the Global Environment. (co-PI)

National Science Foundation. 2013-2016. $500,000. MRI: Acquisition of computing equipment for data-intensive bioinformatics research at the University of Kansas. (co-PI with 4 others)

Inter-American Institute (IAI). $20,393. Effects of Anthropogenic habitat perturbation on rodent population dynamics and risk of rodent-borne diseases.

PIEROTTI, RAYMOND

Kansas Watershed Restoration and Protection Strategy (WRAPS). 2012-2013. $45,000. Shawnee County natural resource inventory and analyses (NRIA) database. (PI)

SHORT, ANDREW

National Science Foundation. 2011–2014. $495,426. A specimen-level database of the world’s bees (Apoidea) at the University of Kansas. (co-PI with three others)

National Science Foundation. 2011-2014. $208,000. Digitization TCN: Collaborative research: InvertNet – an integrative platform for research on environmental change, species, discovery, and identification. (PI)

National Geographic Society. 2013-2014. $26,500. Inventory of the aquatic beetles of Tafelberg Tepui, Suriname. (PI)

SMITH, DEBORAH


U. S. Department of Agriculture, CREES. 2010-2014. $449,988. Genetic characterization of absolute Varroa mite resistance in honey bees. (co-PI with one other)

SMITH, WILLIAM LEO

National Science Foundation. 2011-2014. $288,507. Collaborative research: Causes and consequences of exceptional diversity in spiny-rayed fishes. (co-PI with two others)

National Science Foundation. 2008-2013. $261,598. Collaborative research: Assembling the Euteleost Tree of Life – addressing the major unresolved problems in
vertebrate phylogeny. (co-PI with 6 others)

**National Science Foundation: DEB.** 2013-2016. $425,000. Collaborative research: Diversification in the deep sea and the evolution of fangs, bioluminescence, hermaphroditism, and marine habitat transitions. (co-PI with one other)

**Smith, Val**

**National Science Foundation, EPSCoR.** 2009-2014. $28,000. Phase VI: Climate change and energy: Basic science, impacts and mitigation. (Collaborator)

**National Science Foundation.** 2011-2014. $329,890. Facilities to enhance research and teaching at the University of Kansas Field Station. (co-Investigator)

**National Science Foundation.** 2011-2014. $552,000. An interdisciplinary scholarship program for students in renewable energy (S-STEM). (Collaborator)

**National Science Foundation.** 2011-2014. $329,890. Facilities to enhance research and teaching at the University of Kansas Field Station. (Co-Investigator)

**Soberon, Jorge**

**National Science Foundation.** 2012-2015. $660,156. Collaborative Research: phyloFlow: Comparative analysis workflows for the Tree of Life. (PI)

**Taylor, Edith**

**National Science Foundation, Polar Programs.** 2010-2014. $618,348. Collaborative Research: Antarctic ecosystems across the Permian-Triassic boundary: integrating paleobotany, sedimentology, and paleoecology. (PI with 1 other)

**National Science Foundation, Antarctic Earth Sciences.** 2012-2015, $475,073. Collaborative research: Life in a volcanic landscape: Early Jurassic paleoenvironment and paleobotany. (PI with one other)

**Taylor, Orley**

**U. S. Forest Service.** 2010-2013. $48,910. 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. 2010–2014, $390,746. Understanding the diversity and biology of microbes in late Paleozoic ecosystems. (PI with one other)

National Science Foundation, Polar. 2012–2015, $475,073. Collaborative Research: Life in a Volcanic Landscape: Early Jurassic paleoenvironment and paleobotany. (co-PI with one other)

THORP, JAMES

National Science Foundation. 2012-2014. $100,000. Comparison of amino-acid and bulk-tissue stable isotope techniques for analyzing current and historical food webs. (co-PI with one other)

Environmental Protection Agency. 2011-2014. $250,000. Development of quantitative invertebrate community sampling protocols to assess playa wetlands. (PI with one other)

Environmental Protection Agency. 2013-2014. $150,000. Development of protocols for sampling pristine and disturbed playa wetlands during wet and dry conditions. (co-PI)

WARD, JOY

National Science Foundation, CAREER, 2008–2013, $842,893. Plant evolution at low C02: Responses of ice age trees. (PI)


National Science Foundation: REU: CAREER. 2012-2013. $6,000. Plant evolution at low CO2: Responses of ice age trees. (PI)

U. S. Department of Energy, Pacific Northwest National Laboratory, EMSL. 2013-2014. $48,518. Delineating the roles of rising CO2 and temperature on flowering time and plant carbon gain across pre-industrial through future conditions. (PI)
### Funding Received by Graduate Students

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<th>Name</th>
<th>Source</th>
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<td><strong>ALVARADO, MABEL</strong></td>
<td>Entomology Travel funds</td>
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<td><strong>BACA, STEPHEN</strong></td>
<td>Entomology Travel funds</td>
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<td>Panorama Travel Funds, Graduate Studies Travel Fund, EEB Grad Travel Fund</td>
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<td>EEB Grad Travel Fund, Entomology Travel Fund</td>
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<td><strong>CARTER, JACOB</strong></td>
<td>Cenex Harvest States Foundation Grant</td>
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<td><strong>CHANG, ELIZABETH S.</strong></td>
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<td><strong>COLICCHIO, JACK</strong></td>
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<td><strong>HALL, DAVID</strong></td>
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<td>HARPER, CARLA</td>
<td>Mycological Society of America Travel Fund $750, EEB Summer Research Fund $2,000</td>
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<td>HARRIS, TED</td>
<td>North American Lake &amp; Reservoir Management Travel Grant $500</td>
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<td>HEMMER, LUCAS</td>
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<td>MANTHEY, JOSEPH</td>
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<td>MASTERSON, COURTNEY</td>
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<td>MAYES, DAPHNE</td>
<td>KU Field Station Small Grant $391, H. B. Hungerford Fund $785</td>
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<td>OAKS, JAMIE</td>
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## Faculty Honors and Awards

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<th>Honors/Awards</th>
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<tr>
<td><strong>Billings, Sharon</strong></td>
<td>Member of the NASA’s Science Definition Team.</td>
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<td><strong>Brown, Rafe</strong></td>
<td>Research Investment Council (RIC Level II) Award, Office of the Provost, University of Kansas. Resources Discoverer Award, Department of Environment and Natural Resources. Honored by Philippine government for contributions to biodiversity conservation and species discoveries.</td>
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<td><strong>Hileman, Lena</strong></td>
<td>Kavli Fellow, National Academy of Sciences.</td>
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<td><strong>Kindscher, Kelly</strong></td>
<td>KU Steeples Service to Kansas Award</td>
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<tr>
<td><strong>Moyle, Rob</strong></td>
<td>Research Investment Council (RIC Level II) Award, Office of the Provost, University of Kansas.</td>
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<td><strong>Orive, Maria</strong></td>
<td>BEACON nomination (NSF Center for Biological/Computational Evolution in Action) Faculty Affiliates.</td>
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<td><strong>Pierotti, Raymond</strong></td>
<td>Ned N. Fleming Trust Award, nomination.</td>
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<tr>
<td><strong>Smith, Val</strong></td>
<td>John H. Martin Award, Association of Limnology and Oceanography (ASLO).</td>
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## Graduate Student Scholarships or Fellowships

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<td><strong>ALVARADO GUTIERREZ, MABEL</strong></td>
<td>John M. Deal Scholarship</td>
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<td><strong>ANDERSON, MICHAEL</strong></td>
<td>EEB Graduate Research Fellowship</td>
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<td><strong>ARROYO-PENA, VICTOR B.</strong></td>
<td>Consejo Mexiquenese de Ciencia y Tecnología Fellowship</td>
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<td><strong>BACA, STEPHEN</strong></td>
<td>NSF IGERT C-CHANGE Fellowship</td>
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<td><strong>BARVE, NARAYANI</strong></td>
<td>Association for Women Geoscientists Osage Chapter Graduate Scholarship</td>
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<td><strong>BREITKREUZ, LAURA</strong></td>
<td>First Year Diversity Fellowship</td>
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<td><strong>CAMPBELL, LINDSAY</strong></td>
<td>NSF IGERT C-CHANGE Fellowship</td>
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<td><strong>CARTER, JACOB</strong></td>
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<td><strong>CHAN, KIN ONN</strong></td>
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<td><strong>CHEN, XI</strong></td>
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<td><strong>COLICCHIO, JACK</strong></td>
<td>Fratcher Botany Scholarship</td>
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<td><strong>COLYOTT, KAILA</strong></td>
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<td>William J. Bell Memorial Scholarship</td>
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<td>H. B. Hungerford Fellowship</td>
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<td><strong>DAVIS, STEVE</strong></td>
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<td><strong>ELDREDGE, KEN T.</strong></td>
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<td><strong>ERWIN, ALEXANDRA</strong></td>
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<td><strong>HARPEL, DESIREE</strong></td>
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<td><strong>HARPER, CARLA</strong></td>
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<td>Arthur J. Mix Scholarship</td>
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<td><strong>HARRIS, TED</strong></td>
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<td>HUTTER, CARL</td>
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<td>TORO NUNEZ, OSCAR</td>
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<td>WALKER, S. MICHAEL, II</td>
<td>NSF GK-12 Fellowship</td>
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</tbody>
</table>
Graduate Student Awards

ALVARADO, GUTIERREZ, MABEL
Second place poster, Kansas Entomological Society meeting

BARLEY, ANTHONY
Stoye Award, American Society of Ichthyologists and Herpetologists.

BARUCH ARROYO PENA, VICTOR
Third place poster, Kansas Entomological Society meeting

BOWES, RACHEL
Governor’s Award for Outstanding poster

CAMPBELL, LINDSAY
Third place, GIS Day, Student Research Competition

CARTER, JACOB
Internship, Office of Science and Technology Policy Division, Executive Office of the U. S. President.

COLYOTT, KAILA
Honorable Mention, NSF Graduate Research Fellowship

GERHART-BARLEY, LACI
Argersinger Dissertation Prize nomination

HALL, DAVID
Nature Conservancy J. E. Weaver Grant Award

HARPER, CARLA
Sally K. Frost Mason and Kenneth A. Mason Award for Excellence in Teaching

HOSNER, PETER
Junin Tapaculo rare new bird species discovered in Peru

KLYMIUK, ASHLEY
Natural Sciences and Engineering Research Council of Canada Award (NSERC)

MANTHEY, JOE
Best graduate student talk, Kansas Ornithological Society meeting

MUNOZ, SOFIA
Selected to NSF-funded Thematic Collections Network Short course in Biological Specimen informatics, American Museum of Natural History

ROCCAFORTE, KATHY
Nature Conservancy J. E. Weaver Grant Award

SAMY, ABDALLAH
First place, Egyptian Academic Society of Biological Sciences

TRAVERS, SCOTT
Nominated Best Master’s Thesis in Biological Sciences, Villanova University.

WALKER, S. MICHAEL
Graduate Certificate in Environmental Studies Second place, Sigma Xi Research Competition
Students Graduating with Advanced Degrees

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

ALVARADO, MABEL (Caroline Chaboo and Michael Engel)—Revision of the South American wasp genus Alophophion Cushman, 1947 (Hymenoptera: Ichneumonidae: Ophioninae)

CHANG, ELIZABETH (SALLY) (Pauline Cartwright)—Transcriptomic evidence that enigmatic parasites Polypodium hydriforme and Myxozoa are cnidarians

INGENLOFF, KATE (A. Townsend Peterson) —Trans-Amazon dispersal potential for Crotalus durissus during Pleistocene climate events.

JONES, ROBIN (Robert Moyle)—A molecular genetic investigation into secondary contact and gene flow in island sister taxa

PESEK, MARI (Bryan Foster)—Drivers of plant and arthropod diversity and community structure in a grassland ecosystem

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

ANDERSEN, MICHAEL (Robert Moyle)—Diversification of the tropical Pacific avifauna

CIELOCHA, JOANNA (Kirsten Jensen)—Lecanicephalidean familial classification revisited: Resurrection of the Cephalobothriidae Pintner, 1928 and Revision of the Lecanicephalidae Brau, 1900 (Platyhelminthes: Eucestoda: Lecanicephalidea).

CROWTHER, ANDREA (Daphne Fautin)—Character evolution in light of phylotgenetic analysis and taxonomic revision of the zooxanthellate sea anemone families Thalassianthidae and Aliciidae

GERHART, LACI (Joy Ward)—Glacial tree physiology: Using stable isotopes to reconstruct plant responses to environmental change since the last glacial period.

OAKS, JAMIE (Rafe Brown)—Islands and integrals: Processes of diversification in an island Archipelago and Bayesian methods of comparative phylogeographical model choice


TORO NUNEZ, OSCAR (Mark Mort) —Systematics and evolution in the tribe Schizopetalae: An approximation to the study of extreme aridity as factor of diversification of an endemic lineage from the Atacama Desert (Chile)
Partial Listing of Service Activities Provided by Faculty

ALEXANDER, DAVID  Endowment Award/Special Support Committee,  Entomology Scholarships  Undergraduate Program Committee  Undergraduate Majors Application Appeals Committee

ALEXANDER, HELEN  Field Station and Ecological Reserves Executive Committee  EEB Merit Evaluation Committee  Theoretical Ecology Search Committee Chair  EEB Strategic Planning Committee

ARMITAGE, KENNETH  Broadside Committee  Kansas Heritage Advisory Board

BILLINGS, SHARON  NASA’s Science Definition Team, Arctic Boreal Vulnerability Experiment.  National Ecological Observatory Network (NEON)  Canada’s Natural Sciences and Engineering Research Council (NSERC)  KBS Field Station Executive Committee  KBS Executive Committee  Associate Chair, EEB Graduate Studies  Ex-officio member, EEB Graduate Admissions Committee  Ex-officio member, Graduate Program Committee  Theoretical Ecology Search Committee

BLUMENSTIEL, JUSTIN  EEB Seminar Committee Chair

BROWN, RAFE  SSAR Long-Range Planning Committee  SSAR Seibert Awards Committee Chair  DDIG Panel, Research and Graduate Studies  GS 720: Grant Writing Workshop  EEB Revising Strategic Planning Committee  EEB Website Committee

BURG, GREGORY  Undergraduate Biology Director  Biology KBOR Core Outcomes Committee  Biology Alumni Advisory Board  UKan Teach Steering Committee  UKan Teach Policy and Appeals Committee  Biology Majors Advisory Committee  EEB Undergraduate Biology Program Committee  Tri-Beta Biology Honors Society

CARTWRIGHT, PAULYN

- CLAS Graduate Program Committee
- EEB Strategic Plan Update Committee Chair
- EEB Website Committee
- EEB Graduate Program Committee
- EEB Promotion and Tenure Committee

CHABOO, CAROLINE

- Undergraduate Committee, Center for Caribbean and Latin American Studies
- Undergraduate Research Awards
- EEB Diversity Enhancement Committee
- Coordinator, Entomology talks Seminar Series

DEBOER, GERRIT

- Entomology Travel Funds Committee
- Faculty Student Senate
- College Undergraduate Student Scholarships and Award Committee
- CLAS Academic Misconduct Committee
- Undergraduate Program Committee
- BioScholars Awards Committee
- KU Majors Fair
- Diversity Development Committee
- EEB Post-doctoral Teaching Fellow Search Committee

DENOYELLES, FRANK

- Kansas Biological Survey Deputy Director
- Sediment Baseline Research Group
- ICL Community Advisory Board
- Kansas Field Station Operations Committee
- Kansas Field Station Executive Committee
- EEB Theoretical Ecology Search Committee
- Applied Aquatic Ecology Search Committee

ENGEL, MICHAEL

- Scientific Committee, International Palaeoentomological Society
- Guggenheim Memorial Foundation Fellow Application Review Committee
- Museum of Prairiefire Board of Directors
- RGS Investigations Committee
- CLAS Senior Administrative Fellows Program
- CLAS Committee on Appointments, Promotion, and Tenure
- KU Undergraduate Biology
- EEB Ad hoc GRF Proposal Review
- EEB Seminar Committee

FAUTIN, DAPHNE

- International Commission for Zoological Nomenclature, Vice President
- NOAA Data Access and Archiving Working Group
- Interagency Group on Marine Biodiversity

FOSTER, BRYAN

- Kansas Field Station Executive Committee
- Kansas Biological Sciences Staff Evaluation Committee
FREEMAN, CRAIG  
Flora of North America Association  
Western Prairie Fringed Orchid Recovery Team, U.S. Fish & Wildlife Service.  
The Nature Conservancy of Kansas Board of Trustees  
Kansas Native Plant Society Board of Directors  
Grassland Heritage Foundation Board of Governors  
Kansas Forestry Stewardship Committee  
Dyck Arboretum of the Plains Board of Trustees

GLEASON, JENNIFER  
KU Faculty Senate and Faculty Senate Executive Committee  
Committee on Standards and Procedures in Promotion and Tenure  
First Year Seminar Steering and Selection Committees  
EEB Graduate Program Committee

HAUFLER, CHRISTOPHER  
Dean’s Project Leader for Educational Innovation and Course Design  
EEB Department Chairperson  
Center for Teaching Excellence  
Botanical Society of America

HILEMAN, LENA  
Korean-American Kavli Frontiers of Science Meeting, Co-Chair  
Faculty in the Department of Ecology and Evolutionary Biology are representatives on numerous state, national, and international boards and policy-making bodies.  
Botanical Society of America Elections Committee  
New Phytologist Board of Advisors  
EEB Graduate Admissions Committee  
CLAS Academic Misconduct Committee  
EEB Website Committee  
Strategic Planning Committee

HOLDER, MARK  
Society of Systematic Biologists  
EEB Graduate Program Committee  
Theoretical Ecology Search Committee  
EEB Website Committee Chair

JANDER, RUDOLF  
KU Evolutionist Club

JENSEN, KIRSTEN  
American Society of Parasitologists Stoll-Stunkard/Eminent Parasitologist Committee  
University Scholars Mentor  
Systematic Ichthyologist Search Committee  
Biology Honors Committee

KELLY, JOHN  
Society for the Study of Evolution, Secretary elect  
EEB Greenhouse Director  
EEB Graduate Program Committee  
Ichthyology Search Committee

KINDSCHER, KELLY  
KBS Academic Staff Evaluation Committee  
Environmental Studies Executive Committee  
Indigenous Studies Executive Committee
Aquatic Ecologist Search Committee
KBS Theoretical Ecology Search Committee
Environmental Rhetoric Faculty Search
Kansas Land Trust Board Member
Prairie/Plains Resource Institute Board

Krishtalka, Leonard
Global Biodiversity Information Facility Science Committee
AAAS Committee on Science, Engineering and Public Policy
BioOne Board
Natural Science Collections Alliance Board
KU Research Initiative, Large Data
Freedom Frontier Natural Heritage Site
Museum Studies Committee
The Commons, Leadership Team
KU Cycling Faculty Advisor

Lieberman, Bruce
International Palaeontological Association Treasurer
Integrated Digitized Biocollections (iDigBio)
KU Core Curriculum Committee
KU Committee on Sabbatical Leave
Undergraduate Biology Program Committee
EEB Graduate Program Committee
EEB Website Committee

Martin, Craig
Biology Honors Committee
EEB Sabbatical Leave Committee

Martin, Edward
Kansas Biological Survey Director
NEON Domain 6 Committee
KU Field Station Director
Kansas Water Authority Administrative Council
Kansas Water Resources Institute Administrative Council
Kansas Geographic Information Systems Policy Board
KUCR, Research Directors Council
KUCR Finance and Audit Committee
RGS Academic Misconduct Committee Chair
Campus Tree Advisory Board
EEB Website Committee

Mort, Mark
Botanical Society of America International Affairs Committee
American Society of Plant Taxonomists Website Committee
EEB Graduate Admissions Committee Chairperson
EEB Post-doctoral Teaching Fellow Search Committee, Chair

Moyle, Robert
Organizing Committee, International Ornithological Conference of SE Asia.
Institutional Animal Care and Use Committee (IACUC)
EEB Graduate Program Committee
BI Molecular Lab Supervisor
EEB/BI Systematic Ichthyology Search Committee
ORIVE, MARIA
American Genetic Association (AGA) Council
AGA Special Events Award Committee
Friends of the Lied Board
EEB Associate Chair (Faculty matters)
Biological Sciences Advisory Board Faculty Liaison
EEB GRF Review Committee Chair
Ex officio, Promotion and Tenure Committee
Ex officio, Sabbatical Leave Committee
Diversity Development Committee
EEB Website Development Committee

PETERTSON, A. TOWNSEND
Northeast India Biodiversity Network (NEIBN) Advisory Board
VertNet Coordinating Committee
American Ornithologists’ Union Collections Committee
European Network for Biodiversity Information Advisory Committee
Canadian Research Chairs Program
Global Biodiversity Information Facility, USA
Open Access Advisory Board
Latin American Studies Executive Committee
IGERT Steering Committee
Post-tenure Review Commission
EEB Graduate Program Committee Chair

PIEROTTI, RAYMOND
Society for Ethnobiology Board of Directors
University Animal Care Committee
EEB Minority Affairs Committee

SHORT, ANDREW
Coleopterists Society Executive Committee
EEB Seminar Committee
Theoretical Ecologist Search Committee
Systematics Ichthyology Search Committee
EEB Strategic Planning Update Committee

SIKES, BENJAMIN
Society for Conservation Biology Board Member-at-Large
Theoretical Ecology Search Committee
EEB Seminar Committee

SMITH, DEBORAH
American Arachnological Society Small Grants Committee
Committee on Promotion & Tenure (UCPT)
Faculty Senate, Standards and Procedures for Promotion & Tenure
Common Book Committees (Steering and Selection)
MUSE Faculty Advisory Committee
EEB Executive Committee
Undergraduate Biology Program Committee
Petition for Biology Major Committee

SMITH, WM. LEO
American Society of Ichthyologist and Herpetologist History of Society Committee
American Society of Ichthyologist and Herpetologist Editorial Policy Committee
American Society of Ichthyologist and Herpetologist ad hoc Committee on *Copeia*
American Society of Ichthyologist and Herpetologist Board of Governors
Undergraduate Biology Program Committee

**SMITH, VAL**
Algae Biomass Organization Membership Committee
EEB Graduate Admissions Committee
Aquatic Ecologist Search Committee

**SOBERON, JORGE**
Technical Advisory Council, Monitoring Biodiversity and Ecosystem Services, REDD+, Mexico.
Global Biodiversity Information Facility Executive Council
JRS Biodiversity Foundation Board of Directors
The Nature Conservancy Science Council
Smithsonian NMNH Advisory Board

**TAYLOR, EDITH**
Curator Evaluation Committee
International Organisation of Palaeobotany, Vice-President
Friends of Lawrence Public Library
EEB Merit Evaluation Committee
Systematic Ichthyology Search Committee
EEB GRF Proposal Review Committee

**TAYLOR, ORLEY**
EEB Undergraduate Program Committee
EEB Diversity Development Committee

**TAYLOR, THOMAS**
NSF EPSCoR Hawaii Monitoring Assessment Panel
NSF EPSCoR Idaho Monitoring Assessment Panel
NSF Start Up Review Panel, North Dakota
International Palaeontological Congress (IPC) Advisory Council
Senator Pat Roberts Advisory Committee on Science, Technology and the Future
EEB Colloquium Program Committee
EEB Strategic Planning Update Committee

**THORP, JAMES**
ASLO 2015 Organization Committee, Granada Spain
KU Faculty Senate Faculty Rights, Privileges and Responsibilities
KBS Evaluation Committee
EEB Sabbatical Leave Committee

**TIMM, ROBERT**
Animal Care Facility Director Search Committee
Latin American Studies, Graduate Studies Committee
Woodyard International Educator Award Committee
CUSA, Committee on Undergraduate Studies and Advising
Science Library Liaison
Academic Misconduct Panel
Animal Care and Use Committee
<table>
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<tr>
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<tr>
<td>WALTERS, JAMIE</td>
<td>ScholarWorks, Biological Sciences Representative</td>
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<td>WARD, JOY</td>
<td>EEB Website Development Committee</td>
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<td>National Siemens Competition in Math, Science, and Technology, judge</td>
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<td>National Academy of Sciences, Japan Frontiers of Science,</td>
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<td>U.S. Chair</td>
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<td>National Academy of Sciences, Arab-American Planning Committee</td>
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## Editorial Boards and Editorships of Faculty

<table>
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<tr>
<th>Name</th>
<th>Publications/Outlets</th>
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| ARMITAGE, KENNETH     | *Oecologia Montana*  
|                       | *Ethology Ecology and Evolution*                                                    |
| BILLINGS, SHARON      | *Biogeochemistry*  
|                       | *Soil*  
|                       | *Global Change Biology*  
|                       | *Frontiers in Terrestrial Microbiology*                                             |
| BROWN, RAFFA          | *Journal of Herpetology*  
|                       | *Taprobanica*                                                                      |
| CARTWRIGHT, PAULYN    | *Invertebrate Biology*                                                              |
| CHABOO, CAROLINE      | *Chrysomela Newsletter*  
|                       | *Journal of the Kansas Entomological Society*  
|                       | *Coleopterist Society*  
|                       | *Revista Brasileira de Entomologia*                                                 |
| ENGEL, MICHAEL        | *Arthropod Systematics & Phylogeny*  
|                       | *Biodiversity Data Journal*  
|                       | *Journal of Melittology*  
|                       | *Novitates Paleontologicae*  
|                       | *Proceedings of the National Academy of Sciences*  
|                       | *Paleontological Contributions*  
|                       | *Systematic Entomology*  
|                       | *Taprobanica*  
|                       | *ZooKeys*  
|                       | *Polskie Pismo Entomologiczne*  
|                       | *African Invertebrates*  
|                       | *Annales Zoologici*                                                                |
| FAUTIN, DAPHNE        | *Ocean Biogeographic Information System*  
|                       | *World Register of Marine Species*  
|                       | *Encyclopedia of Life*                                                             |
| FOSTER, BRYAN         | *Oecologia*  
|                       | *Journal of Vegetation Science*                                                     |
| FREEMAN, CRAIG        | *Flora of North America Association*                                                |
| GLOR, RICHARD         | *Systematic Biology*                                                                |
| HAUFER, CHRISTOPHER   | *American Fern Journal*  
|                       | *American Journal of Botany*  
|                       | *Journal of Plant Research*  
<p>|                       | <em>Anales del Real Jardín Botánico de Madrid</em>                                         |
| HOLDER, MARK          | <em>Systematic Biology</em>                                                                |</p>
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<td>Jensen, Kirsten</td>
<td><em>Journal of Parasitology</em>, <em>Comparative Parasitology</em>, <em>KU Scientific Papers</em>, <em>Systematic Parasitology</em></td>
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<td><em>Journal of Paleontology</em>, <em>Evolution: Education and Outreach</em>, <em>Lethaia</em></td>
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<td><em>Plant Systematics and Evolution</em>, <em>The Scientific World Journal</em></td>
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<td><em>Acta Palaeontologica Polonica</em>, <em>Review of Palaeobotany and Palynology</em>, <em>Current Bioactive Compounds</em></td>
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<td>Orive, Maria</td>
<td><em>Genetica</em>, <em>Elsevier, Encyclopedia of Evolutionary Biology</em></td>
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<td><em>Biodiversity Informatics</em>, <em>Revista Mexicana de la Biodiversidad</em>, <em>Graellsia</em></td>
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<td><em>Industrial Biotechnology</em>, <em>Industrial Biotechnology, Special issue</em></td>
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<td><em>Biodiversity Informatics</em>, <em>Revista Mexicana de Biodiversidad</em></td>
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<td><em>Review of Palaeobotany and Palynology</em>, <em>PNAS</em></td>
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<td>Thorp, James</td>
<td><em>River Research and Applications</em>, <em>River Systems</em></td>
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<td>Ward, Joy</td>
<td><em>Oecologia</em>, <em>Faculty of 1000, Physiological Ecology section</em></td>
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