

**CURRICULUM VITAE****WILLIAM WYATT HOBACK****BUSINESS ADDRESS**

Department of Entomology and Plant Pathology  
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**HOME ADDRESS**

2402 West 23<sup>rd</sup> Avenue  
Stillwater, OK 74074  
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**EDUCATION**

University of Nebraska, Ph.D. (Entomology), 1999  
Southwest Missouri State University M.S. (Biology), 1995  
Randolph-Macon College, B.A. (Biology/Ecology), 1990

M.S. Thesis: Hypoxia limited survival, respiration, and mate-guarding behavior in the amphipod, *Gammarus pseudolimnaeus* Bousfield. Advisor: Dr. Chris Barnhart  
Ph.D. Dissertation: Ecophysiology of habitat use and competition in an assemblage of salt marsh tiger beetle species. Advisors: Drs. Leon Higley and David Stanley

**PROFESSIONAL EXPERIENCE**

Oklahoma State University, Stillwater, OK. Department of Entomology and Plant Pathology. 2014-present. Assistant Professor. Instructor for Insect Biology and Classification, Insects and Society, Introduction to Research, Insect Behavior and Chemical Ecology, Aquatic Entomology, Laboratory Rotations, scientific Presentations, Introduction to Forensic Entomology, Insect Physiology.

University of Nebraska, Kearney NE, Department of Biology 2007- 2014. Professor of Biology. Instructor for Seminar, Cold-Blooded Vertebrate Biology, Biology of Size, Organic Evolution, Biological Perspectives, Entomology.

University of Nebraska, Kearney NE, Department of Biology. 2004-2007. Associate Professor of Biology. Instructor for Introduction to Graduate Studies, Organic Evolution, Freshwater Biology, Terrestrial Invertebrate Behavior, Entomology.

University of Nebraska, Kearney NE, Department of Biology 2002. Graduate Faculty Fellow.

University of Nebraska, Kearney NE, Department of Biology, 1999-2003. Assistant Professor; Graduate Faculty Member. Instructor for Ichthyology, General Biology, Plants and Animals, Biological Research, Limnology, Human Ecology, Exotic Species Biology, Conservation Biology, Evolution, Organic Evolution, Entomology.

University of Nebraska, Lincoln NE, Department of Entomology, 1999-present. Adjunct Faculty.

University of Nebraska, Lincoln NE, Department of Entomology, 1996-1999. Graduate Research Assistant.

University of Nebraska, Lincoln NE, Department of Entomology, 1998. Graduate Teaching Assistant. Insect Ecology, and Introduction to Insects.

Southwest Missouri State University, Springfield MO, Department of Biology, 1994-1995. Graduate Teaching Assistant. General Biology.

Southwest Missouri State University, Springfield MO, Department of Biology, 1993-1994. Graduate Teaching Assistant. Invertebrate Zoology.

Southwest Missouri State University, Springfield MO, Department of Biology, 1993-1994.  
Graduate Research Assistant.  
Randolph-Macon College, Ashland VA, Department of Biology, 1988-1990. Laboratory  
Teaching Assistant and Laboratory Preparation Technician.

### **ADMINISTRATIVE EXPERIENCE**

Chair of the University of Nebraska Kearney Distance Education Committee. 2004-2006.  
Director of the University of Nebraska Kearney Biology Distance MS program. 2003-2010.

### **INTERNATIONAL EXPERIENCE**

Host, Marina Mouzinho from Brazil 2016  
Host, Alaor Neto and Gustavo Ragozzani from Brazil, 2015  
Host, Marcio Pistore and Hurian Holzhausen from Brazil 2014.  
Host, Carlos Giorgenon, exchange student from Brazil, 2013.  
Host, Kelly Willemssens, exchange student from Belgium, 2013.  
Host, Kaue Charnai and Guilherme Guarnieri, exchange students from Brazil. 2012.  
Host, Soomin Son and Jaekeun Cho, exchange students from South Korea. 2012.  
Host, Ana Mijone, Camila Rosim, and Silviane Santiago exchange students from Brazil. 2011.  
Host, Matheus Parenti, exchange student from Brazil, 2010.  
Host, Silvia Maestrello, exchange student from Brazil, 2009.  
Host, Maria Laua Giardini and Laura Vincentini, exchange students from Brazil, 2008.  
Host, Gustavo Romani, exchange student from Brazil. July- November 2007.  
Served as visiting scientist in Farmer-to-Farmer exchange May 8-24, 2006 in Ulan Ude for  
distance education module development. I served at the Ulan Ude Center of Vocational  
Training.  
Served as visiting scientist in Farmer-to-Farmer exchange May 8-24, 2005 in Barnaul Russia for  
distance education module development. I served at the Altai State Agricultural  
University and at the Altai Methodological Center of Vocational Training.  
Served as visiting scientist in Farmer-to-Farmer exchange March 5-20, 2004 in Barnaul Russia  
where I conducted training in distance education in agriculture curriculum development. I  
served at the Altai State Agricultural University and at the Altai Methodological Center of  
Vocational Training  
Served as Visiting Instructor for class in Insect-Plant Interactions, May 5- May 18, 2003 in  
Jaboticabal, Brazil  
Served as visiting scientist in Farmer-to-Farmer exchange February 16- March 2, 2003 in Omsk,  
Russia where I assisted in biological plant protection in agriculture curriculum  
development. I served at the Omsk State Agricultural University  
Presenter, Brazilian Entomological Congress, Manaus, Brazil. 2002  
Presenter, Seventh International Symposium on Biological Control, Pocos de Caldos, Brazil. 2001

### **SERVICE EXPERIENCE**

Chair of Faculty Advisory Board, International Education. 2013-2014.  
Member of the Faculty Advisory Board, International Education. 2012-2014.  
Member Faculty Senate Professional Conduct Committee. 2013-2014  
Chair of the search committee for Distance Education Assistant Professor of Biology. 2009.  
Chair of the search committee for Distance Education Assistant Professor of Biology. 2008.  
Chair of the search committee for Distance Education Coordinator. 2008.  
Chair of the search committee for Distance Education Assistant Professor of Biology. 2005.

Chair of the search committee for Continuing Education Instructional Designer position. 2003.  
 Chair of the UNK Biology Graduate Committee, 2002-2010.  
 Vice President, Bruner Entomology Club, University of Nebraska, 1997-1998

### COMMITTEE EXPERIENCE

Member of the CASNR Curriculum and Academic Standards Committee, 2014-present  
 Member of the CASNR Undergraduate Advising Coordinators, 2014-present.  
 Southwestern Branch Representative of the Education and Outreach Committee, 2015-present.  
 Coach Linnaean Games, OSU Entomology, 2016-present.  
 Department of Biology Graduate Research Committee, 2013-2014.  
 Department of Biology Lab Fees Committee, 2013-2014.  
 Chair, National Entomological Society Section F committee for Education and Youth, 2007.  
 Member of the Judging Panel for 2007 BioQuip Undergraduate Scholarship. 2007.  
 Member of the Judging Panel for 2006 BioQuip Undergraduate Scholarship. 2006.  
 Member of the Judging Panel for 2005 BioQuip Undergraduate Scholarship. 2005.  
 Member of the University-wide Distance Education Council. 2003-2009.  
 Member of the University of Nebraska Kearney Distance Education Committee. 2003-2004.  
 Linnaean Games Master, North Central Branch Entomological Society of America. 2003-2014.  
 UNK representative to the Nebraska Academy of Sciences. 2002.  
 National Entomological Society Section F committee for Education and Youth, 2002-2009.  
 North Central Branch Entomological Society Student Awards Committee Member. 2002-2008.

### GRADUATE STUDENTS

Student	Degree Details	Current Position
<i>OSU</i>		
Tanner Jenkins	M.S. OSU Ento. 2016	Upper Elkhorn Natural Resources District
Theresa Andrew	M.S. OSU Ento. 2016	Ph.D. student, Purdue University
<i>Univ. of Neb.</i>		
Kelly Willemssens	M.S. UNK Biology 2015	Ph.D. student, Natural Resources, Nebraska
Erik Prenosil	M.S. UNK Biology 2014	Nebraska Game and Parks Commission
Jeremy Grauf	M.S. UNK Biology 2014	U.S. Army Corps of Engineers
Adrienne Conley	M.S. UNK Biology 2014	Georgia Department of Transportation
Gary Phillips	M.S. UNK Biology 2012	Ph.D. student, Entomology, Tennessee
Michael Cavallero	M.S. UNK Biology 2012	Ph.D. student, Entomology, Saskatchewan
David Schuman	M.S. UNK Biology 2012	Ph.D. student, Fisheries, South Dakota
Stephanie Butler	M.S. UNK Biology 2012	Instructor, Sinte Gleska University
Michelle McPherron	M.S. UNK Biology 2011	U.S. Army Corps of Engineers
Anthony Koch	M.S. UNK Biology 2011	U.S. Forest Service
Lindsay Vivian	M.S. UNK Biology 2011	U.S. Fish and Wildlife Service
Daniel Snethen	M.S. UNK Biology 2010	Department Chair Little Wound High School
Chelsey Young/ Pasbrig	M.S. UNK Biology 2009	South Dakota Game and Fish
Christopher Sullivan	M.S. UNK Biology 2009	Idaho Department of Fisheries
Jordan Katt	M.S. UNK Biology 2009	Nebraska Game and Parks Commission
John Riens	M.S. UNK Biology 2009	U.S. Fish and Wildlife Service
Kathy Maline	M.S. UNK Biology 2008	Senior QC Analyst, Novozymes
Sean Whipple	M.S. UNK Biology 2008	Pd.D. student, Entomology, Nebraska
Jessica Jurzenski	M.S. UNK Biology 2007	Pd.D. student, Entomology, Nebraska

Thomas Walker, Jr.	M.S. UNK Biology 2007	Nebraska Game and Parks
Laurel Badura	M.S. UNK Biology 2005	Nebraska Game and Parks
Justin Haas	M.S. UNK Biology 2005	Nebraska Game and Parks
Nic Fryda	M.S. UNK Biology 2005	Nebraska Game and Parks
Mathew Brust	M.S. UNK Biology 2004	Ph.D. student, Entomology, Nebraska
John Riggins	M.S. UNK Biology 2004	Assoc. Prof. Ento. Mississippi State U.
Ben Zechmann	M.S. UNK Biology 2004	CSS Farms Manager
Jesse Ziems	M.S. UNK Biology 2002	CSS Farms Manager
Justin Krahulik	M.S. UNK Biology 2002	U.S. Geological Services
Andrew Bishop	M.S. UNK Biology 2001	Director, USFWS RWB Joint Venture
<i>Univ. of Neb.</i>		
Mathew Brust	Ph.D. UNL Ento. 2008	Assoc. Prof. Chadron State College
Sean Whipple	Ph.D. UNL Ento. 2011	Field Development, ISK Biosciences Corp
Jessica Jurzenski	Ph.D. UNL Ento. 2012	Scientist Felsburg Holt & Ullevig Consulting
Muhammad Irfan Ullah	Ph.D. UNL Ento. 2012	Asst. Prof. Univ. of Sargodha, Pakistan
Gary Torissi	Ph.D. UNL Ento. 2013	Retired
Fatima Mustafa	Ph.D. UNL Ento. 2013	Asst. Prof. Univ. of Agriculture Faisalabad

## GRADUATE STUDENT COMMITTEES

### *Univ. of Nebraska-Kearney*

Brian Petersen, M.S., 2002  
 Brian Chilcott, M.S., 2002  
 Steven E. Aanes, M.S., 2003 (distance)  
 Grant DeJong, M.S., 2003 (distance)  
 Wendi Middleton, M.S. 2005  
 Bill Algiers M.S., 2005  
 Betty Wieck, M.S. 2006  
 Paras Lamsal, M.S., 2006  
 Brett Olds, M.S. 2007  
 Ben Skipper, M.S. 2008  
 Moni Luecha, M.S. 2011  
 Seth Lundgren, M.S. 2012  
 Christopher Uphoff, M.S. 2012

### *Oklahoma State University*

Kristen Bayley, M.S. 2016  
 Natalie Gahm, M.S. *in progress*  
 Jillian Wormington, Ph.D. *in progress*  
 Kyle Risser, Ph.D. *in progress*

## FELLOWSHIPS

Presidential Fellowship, 1999, University of Nebraska-Lincoln, not accepted  
 Bukey Fellowship, 1998, University of Nebraska-Lincoln  
 Widaman Distinguished Graduate Assistant Award, 1998, Institute of Applied and Natural Resources  
 Milton E. Mohr Distinguished Teaching Fellowship, 1997, Institute of Applied and Natural Resources

**AWARDS**

- Young Alumni Achievement Award. University of Nebraska-Lincoln. 2014.
- Member of the Department of Biology University-wide Departmental Teaching Award. 2014.
- Entomology Educational Project Award for the book “Grasshoppers of Nebraska” Brust, M.L., Hoback, W.W., and Wright, R.J., North Central Branch of the Entomological Society of America. 2009
- North Central Branch of the Entomological Society of America Distinguished Achievement Award in Teaching. 2009
- The President’s Volunteer Service Award. For 4,000 hours of international service. 2007
- Award for Most Grant Applications at UNK. University of Nebraska at Kearney, 2006
- Award for Most Grant Awards at UNK. University of Nebraska at Kearney, 2006
- Award for Most Grant Applications at UNK. University of Nebraska at Kearney, 2005
- Award for Most Grant Awards at UNK. University of Nebraska at Kearney, 2005
- Entomology Educational Project Award for the website “ESCAPE” by Hoback, W.W., Skinner, K.M., and Higley, L.G. North Central Branch of the Entomological Society of America. 2004
- Award for Most Grant Applications at UNK. University of Nebraska at Kearney, 2004
- Award for Most Grant Awards at UNK. University of Nebraska at Kearney, 2004
- ACUBE “Out of This World Teaching Idea”. Association of College and University Biology Educators, 2003
- Pratt-Heins Scholarship and Research Award. University of Nebraska at Kearney, 2003
- Award for Most Grant Applications at UNK. University of Nebraska at Kearney, 2003
- Award for Most Grants Funded at UNK. University of Nebraska at Kearney, 2003
- ADEC Educational Program Award. Distance Education Award Committee Graduate Mentor Award. University of Nebraska at Kearney, 2002
- Award for Most Grant Applications at UNK. University of Nebraska at Kearney, 2002
- Award for Most Grant Awards at UNK. University of Nebraska at Kearney, 2002
- Entomology Educational Project Award for the website “Marine Insects” by Hoback, W.W., Higley, L.G., Cheng, L. and Golick, D. 2002. North Central Branch of the Entomological Society of America.
- Award for Most Grant Applications at UNK. University of Nebraska at Kearney, 2001
- Award for Most Grant Awards at UNK. University of Nebraska at Kearney, 2001
- First place, doctoral poster award, North Central Branch of the Entomological Society of America, Des Moines, IA, 1999
- Honorable mention, poster presentation, National Meeting of the Entomological Society of America, Las Vegas, NV, 1998
- Best submitted paper, teaching category, North Central Branch of the Entomological Society of America, Sioux Falls, SD, 1998
- Doctoral student oral presentation award, North Central Branch of the Entomological Society of America, Columbus, OH, 1997
- Best submitted paper, Sigma Xi, Lincoln, NE, 1997
- President’s Prize, poster presentation first place, National Meeting of the Entomological Society of America, Nashville, TN, 1997
- Best submitted paper, Central States Entomological Society meeting, Lawrence, KS, 1996

**EXTRAMURAL GRANTS RECEIVED***Oklahoma State U.*

1. Proposal to Monitor American Burying Beetle at Camp Gruber Training Center, Braggs, OK. 2016. **Hoback, W.W.** Oklahoma National Guard. \$ 55,726.
2. Funds to establish an American burying Beetle Colony. 2016. **Hoback, W.W.** Tulsa Zoo. \$5,000.
3. Proposal to establish and maintain a laboratory colony of American burying beetle at Oklahoma State University. 2016. **Hoback, W.W.** USFWS. \$20,000.
4. Teaching equipment to improve Entomology and Plant Pathology lecture and laboratories. 2016. **Hoback, W.W.** and L. Ma. 2016. CASNR Technology Student Fees. \$15,000.
5. Assessing wild juvenile trout ecology in the lower Mountain Fork. Long, J.M. and **Hoback, W.W.** 2016. Oklahoma Department of Wildlife Conservation. \$77,000.
6. Establishing long-term monitoring sites for the American burying beetle at McKelvie National Forest in Nebraska. 2015. US Forest Service. \$25,000.
7. Purchase of SMART board and stereomicroscopes for improved teaching of entomology and plant pathology lecture and laboratories. **Hoback W.W.** and F. Ochoa Corona CASNR Technology Student Fees. \$10,540.

*Univ. of Nebraska-Kearney*

8. Development of a model of American burying beetle occurrence in the Plains Ecoregion of Nebraska. 2014. **Hoback, W.W.** Nebraska Department of Roads. \$74,148.
9. Effects of compaction and soil moisture on American burying beetles. 2013. **Hoback, W.W.** Nebraska Department of Roads. \$76,123.
10. A further test of trap-and-relocate conservation measures for American burying beetle. 2013. **Hoback, W.W.** U.S. Fish and Wildlife Service. \$26,237.
11. Conservation status of ladybird beetles in Nebraska. 2012. **Hoback, W.W.** Nebraska Game and Parks Commission. \$10,000.
12. Surveys for natural legacy Tier 1 and Tier 2 Lepidoptera. 2012. **Hoback, W.W.** Nebraska Game and Parks Commission. \$11,300.
13. Determination of soil preference of American burying beetle during periods of inactivity and assessment of bait away and trap and relocate conservation measures. 2012. U.S. Fish and Wildlife Service. \$26,433.
14. Trap and relocate effects, overwintering, and impact of vehicles on American burying beetle. 2012. **Hoback, W.W.** Nebraska Department of Roads. \$64,534.
15. Assessment of roadway culvert designs on aquatic organism passage. 2012. **Hoback, W.W.** Nebraska Department of Roads. \$93,820.
16. Platte River caddisfly response to tree removal. 2011. Cavallero, M. and **Hoback, W.W.** Headwaters Corporation. \$24,032.
17. Survey capture and relocation of American burying beetles for Nebraska Department of Roads. 2011. **Hoback, W.W.** Nebraska Department of Roads \$38,948.
18. Further studies to test bait away and overwintering biology of American burying beetle. 2011. **Hoback, W.W.** Nebraska Department of Roads. \$81,756.
19. Re-establishment of plains topminnow in historical locations. 2011. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks State Wildlife Grant. \$26,400.
20. Development and testing of a predictive model of occurrence and density of the American Burying Beetle (*Nicrophorus americanus*), Phase II. **Hoback, W.W.** 2010. \$38,000.

21. Investigation of bait away methods for conservation of American Burying beetle. 2010. **Hoback, W.W.** Nebraska Department of Roads. \$48,144.
22. Re-establishment of plains topminnow in historical locations. 2010. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks State Wildlife Grant. \$26,400.
23. Limnological assessment of Harlan County Reservoir 2010-2014. Schoenebeck, C, Koupal, K., and **Hoback, W.W.** Nebraska Game and Parks Sport Fisheries Fund. \$472,744.
24. Investigation of bait away methods for conservation of American Burying Beetle. **Hoback, W.W.** 2009. Nebraska department of Roads. \$39,218.
25. Assessment of threat by the introduced mosquitofish to caddisflies and amphibians. **Hoback, W.W.** 2009. U.S. Fish and Wildlife Service. \$10,430.
26. Development and testing of a predictive model of occurrence and density of the American Burying Beetle (*Nicrophorus americanus*). **Hoback, W.W.** 2009. U.S. Fish and Wildlife Service. \$38,000.
27. Range-wide assessment of plains topminnow population status and potential threats. **Hoback, W.W.** and K. Koupal. 2009. U.S Fish and Wildlife Service. \$37,000.
28. Environmental Education Equipment. 2008. K.M. Skinner and **Hoback, W.W.** Program of Excellence Awards, Department of Teacher Education, UNK. \$8,600.
29. LEEF II Package. 2008. **W.W. Hoback** and **Skinner, K.M.** LI-COR Environmental Education Fund. \$29,250.
30. Determination of seasonal activity pattern and moisture requirements for the American burying beetle. **Hoback, W.W.** 2008. Nebraska Department of Roads. \$32,598.
31. Grasshoppers of the Western United States: Regional Publication. R. Wright and **Hoback, W.W.** 2008. USDA APHIS. \$9,472.
32. Grasshoppers of the Western United States: Electronic identification and information tool development. R. Wright and **Hoback, W.W.** 2008. USDA APHIS. \$21,419.
33. Conservation status, habitat assessment, and model to predict occurrence of the Platte River caddisfly. **Hoback, W.W.** 2008. Nebraska Game and Parks. \$14,500.
34. Survey, capture, and relocation of American burying beetles in four roads projects, Nebraska. **Hoback, W.W.** 2008. Nebraska Department of Roads. \$15,000.
35. Investigation of pesticide impact on the American burying beetle. **Hoback, W.W.** 2008. U.S Fish and Wildlife Service. \$19,100.
36. Range-wide assessment of plains topminnow population status and potential threats. **Hoback, W.W.** and K. Koupal. 2008. U.S Fish and Wildlife Service. \$30,000.
37. Saltcedar biocontrol beetle release implementation at Lake McConaughy. 2007. Jurzenski, J. and **Hoback, W.W.** USDA APHIS. \$6,000.
38. Investigation of the impacts of buffer strips on water quality and macroinvertebrates of the Rainwater basin. **Hoback, W.W.** 2007. USFWS cooperative agreement. \$22,000.
39. A test of soil preference and trap and relocate protocols for impacts on the American burying beetle. **Hoback, W.W.** 2007. U.S. Fish and Wildlife Service, Section 6 funds. \$27,855.
40. Survey, capture, and relocation of American burying beetles in four roads projects, Nebraska. **Hoback, W.W.** 2007. Nebraska Department of Roads. \$15,000.
41. Laboratory and field measures of habitat suitability for burying beetles. **Hoback, W.W.** 2007. Nebraska Department of Roads. \$13,838.

42. Collection and identification of grasshopper species of Nebraska and update to distribution records, extension 2007. R. Wright and **Hoback, W.W.** USDA APHIS. \$25,907.
43. Assessment of adult crappie abundance during spawning season in specific coves, larval crappie production, entrainment, and response to artificial walleye spawning substrate in Sherman Reservoir. 2007. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks. \$96,948.
44. Survey for the Presence of American Burying Beetle. 2006. **Hoback, W.W.** Bureau of Reclamation. \$9,438.
45. Saltcedar biocontrol beetle release implementation at Harlan County Reservoir. 2006. **Hoback, W.W.** USDA APHIS. \$6,000.
46. Collection and identification of grasshopper species of Nebraska and update to distribution records. 2006. **Hoback, W.W.** and R. Wright. USDA APHIS. \$25,907.
47. A Test of Two Methods to Mitigate Construction Impacts on the American Burying Beetle. **Hoback, W.W.** 2006. U.S. Fish and Wildlife Service, Section 6 funds. \$8,900.
48. Proposal to Quantify Potato Physiology. 2006. **W.W. Hoback.** CSS Farms. \$10,000.
49. RELEASE: Risk Evaluation Learning To Explore Alien Species Establishment. 2006-2008. **W.W. Hoback,** K.M. Skinner, and R.K.D. Peterson. U.S. Department of Agriculture Cooperative State Research, Education, and Extension Service (USDA-CSREES) Higher Education Challenge Grant. \$146,978.
50. Platte Valley Weed Management Education. 2006. **W.W. Hoback** and K.M. Skinner. Cooperative Weed Management Area Support Grants, Center for Invasive Plant Management. \$5,000
51. CSS Farms proposal to characterize season-long potato growth and resource allocation. **Hoback, W.W.** 2005. CSS Farms. \$7,900.
52. Determination of Nebraska State-Wide Population Status of American Burying Beetle (*Nicrophorus americanus*) and Its Response to Forest and Forest Removal. **Hoback, W.W.** 2005. U.S. Fish and Wildlife Services, Section 6 funds. \$34,000.
53. An Investigation of Salt Cedar Distribution and Ecosystem Effects at Harlan Reservoir, Nebraska. **Hoback, W.W.** 2005. Nebraska Department of Agriculture. \$20,000.
54. Characterization of competition between mosquitofish and topminnow to enhance conservation and re-introduction of topminnow. **Hoback, W.W.** and Koupal, K. 2004. Nebraska Game and Parks. \$27,000.
55. Limnological assessment of Harlan County Reservoir, 5 Year Renewal. Koupal, K. and **Hoback, W.W.** 2004. Nebraska Game and Parks. \$ 277,500.
56. Halsey National Forest Response of American Burying Beetle to Tree Clearing". **Hoback, W.W.** 2004. National Forest Service. \$7,140.
57. A test of radio-tracking technology to pinpoint critical habitat and American burying beetle (*Nicrophorus americanus*) response to eastern redcedar and redcedar removal projects. **Hoback, W.W.** 2004. U.S. Fish and Wildlife Services, Section 6 funds. \$24,000.
58. A proposal to survey Odonata in rare Nebraska habitats. Riggins, J.J., Brust, M.L., and **Hoback, W.W.** 2004. Nebraska Game and Parks Commission. \$17,000.
59. Statewide inventory of Nebraska's terrestrial invertebrates which are biological indicator species. **Hoback, W.W.** 2004. Nebraska Game and Parks Commission State Wildlife Funds. \$27,500.
60. Evaluation of the impact of introduced western mosquitofish on plains topminnow.



- Hoback, W.W.** and Koupal, K. 2004. Nebraska Game and Parks Commission State Wildlife Funds. \$17,500
61. Development of guidelines and assessment for modules to teach entomology. 2004. **Hoback, W.W.**, Skinner, K.M., and Pearson, G.A. Entomological Foundation. \$2,000.
  62. Survey, capture, and relocate American burying beetles in Wheeler County, Nebraska. 2004. **Hoback, W.W.** Nebraska Department of Roads. \$11,950.
  63. Development and delivery of user-friendly IPM decision tools. 2004. L. G. Higley, T.E. Hunt, and **Hoback, W.W.** North Central Region IPM Grants Program. \$34,000.
  64. Sherman Reservoir aquatic habitat assessment project. 2003. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks. \$82,750.
  65. University Research and Creative Activity: Assessment of ESCAPE Website Curriculum for Use by Nebraska Middle and High School Teachers. 2003. Skinner, K.M., **Hoback, W.W.**, and Forest, K. Research Services Council, University of Nebraska at Kearney. \$6,930.
  66. Further Investigation of the Impact of Electric Lights, Mark-Recapture Population Estimates and a Preliminary Analysis of Gene Exchange in the American Burying Beetle (*Nicrophorus americanus*) in Nebraska and South Dakota. 2003. **Hoback, W.W.** U.S. Fish and Wildlife Services, Section 6 funds. \$30,800.
  67. Potato Research to Improve Regional Integrated Pest Management of Insects. 2003. **Hoback W.W.**, Hunt, T.E., and Higley, L.G. Nebraska Potato Board. \$18,000.
  68. Survey for *Cicindela nebraskana* in Northwestern Nebraska and Research on Conservation Status. 2003. **Hoback, W.W.** and Brust, M.L. Nebraska Game and Parks. \$3,000.
  69. Investigation of Wet Meadow Restoration Success Based on Soil Invertebrates. 2003. **Hoback, W.W.** Platte River Whooping Crane Maintenance Trust. \$16,000.
  70. An Undergraduate Research Program to Investigate Carrion Beetles in Nebraska. 2003. **Hoback, W.W.** University of Nebraska at Kearney Priority Funds. \$15,400.
  71. Limnological Assessment of Harlan County Reservoir. 2002. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks. \$94,260.
  72. The investigation of wet meadow restoration success based on soil invertebrates. 2002. **Hoback, W.W.** Platte River Whooping Crane Maintenance Trust. \$12,000.
  73. Potato Research to Improve Regional Integrated Pest Management of Insects. 2002. **Hoback, W.W.**, Hunt, T.E., and Higley L.G. Nebraska Potato Board. \$14,900.
  74. Determination of Population and Factors Influencing Sustainability of American Burying Beetle (*Nicrophorus americanus*) in Nebraska and South Dakota. 2002. **Hoback, W.W.** U.S. Fish and Wildlife Services, Section 6 funds. \$25,000.
  75. Basic biology and conservation of the Salt Creek tiger beetle, *Cicindela lincolniana nevadica*. 2001. Higley, L.G., Spomer, S.S. **Hoback, W.W.** U.S. Fish and Wildlife Service. \$36,000.
  76. ESCAPE: Exotic species curriculum for agricultural problem-solving education. 2001. **Hoback, W.W.**, Skinner, K.M. and Higley, L.G.. USDA Higher Education Challenge Grant. \$82,700.
  77. Improving Integrated Pest Management for Potato in Nebraska. 2001. **Hoback, W.W.**, Higley, L.G., and Hunt, T.E. Nebraska Potato Board. \$20,000.
  78. A proposal to develop a distance education version of insect behavior. 2001. **Hoback, W.W.** and Higley, L.G. University of Nebraska- Lincoln. \$6,500.

79. Using geographical information systems to detect habitat preference of the endangered American burying beetle in Nebraska and South Dakota. **Hoback, W.W.** 2001. Interagency funds (UN-L, USFWS, NE Game and Parks, USFS, UN-K). \$17,642.
80. Multimedia Website of the Tiger Beetles of the United States: County Records of the Cicindelidae. **Hoback, W.W.** 2001. USGS Northern Prairie Wildlife Research Center. \$7,800.
81. Invertebrates associated with riparian meadows along the central Platte river, Nebraska. 2000. C. Davis, J. Austin, and **Hoback, W.W.** US Fish and Wildlife Service. \$40,000.
82. Web-based Teaching of a Transactive Course: Distance Versus Traditional Delivery of Biology and Classification of Insects. 2000. **Hoback, W.W.** University of Nebraska at Kearney, Research Services Council Grant in Aid of Research. \$3,650.
83. A proposal to develop a distance education version of biology and classification of insects. 2000. **Hoback, W.W.** and L.G. Higley. University of Nebraska- Lincoln. \$4,300.
84. Influence of physiological adaptation to flooding on tiger beetle distribution. 1999. **Hoback, W.W.** University of Nebraska at Kearney, Research Services Council Grant in Aid of Research. \$1,678.
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99. **Hoback, W.W.**, R.L. Rana, D.W. Stanley. 1999. Fatty acid composition of phospholipids and triacylglycerols of selected tissues, and fatty acid biosynthesis in adult periodical cicadas, *Magicicada septendecim*. *Comparative Biochemistry and Physiology* 122: 355-362.



100. W.E. Wagner Jr., and **W.W. Hoback**. 1999. Nutritional effects on male calling behaviour in the variable field cricket. *Animal Behaviour* 57: 89-95.
101. Spomer, S.M. and **W.W. Hoback**. 1998. New ant associations for *Glaucopsyche lygdamus* Doubleday (Lycaenidae). *Journal of the Lepidopterist's Society* 52:216-217.
102. **Hoback, W.W.**, L.G. Higley, D.W. Stanley, and M.C. Barnhart. 1998. Survival of immersion and anoxia by larval tiger beetles, *Cicindela togata*. *American Midland Naturalist* 140: 27-33.
103. Rana, R.L., **W.W. Hoback**, A.R. Nor Aliza, J. Bedick, and D.W. Stanley. 1997. Pre-oral digestion: a phospholipase A2 associated with salivary secretions in adult burying beetles, *Nicrophorus marginatus*. *Comparative Biochemistry and Physiology* 188B: 375-380.
104. **Hoback, W.W.** and W.E. Wagner Jr. 1997. The energetic cost of calling in the variable field cricket, *Gryllus lineaticeps*. *Physiological Entomology* 22: 286-290.
105. Stanley-Samuels, D.W., Pedibhotla, V.K., Rana, R.L., Rahim, N.A.A., **Hoback, W.W.**, and Miller, J.S. 1997. Eicosanoids mediate nodulation responses to bacterial infections in larvae of the silk moth, *Bombyx mori*. *Comparative Biochemistry and Physiology* 118: 93-100.
106. Mathis, A.M. and **W.W. Hoback**. 1997. The influence of chemical stimuli from predators on pre-copulatory pairing in the amphipod, *Gammarus pseudolimnaeus*. *Ethology* 103: 33-40.
107. **Hoback, W.W.** and M.C. Barnhart. 1996. Lethal limits and sublethal effects of hypoxia on *Gammarus pseudolimnaeus* Bousfield (Amphipoda, Crustacea). *Journal of the North American Benthological Society* 15: 117-126.
108. Knisley, C.B. and **W.W. Hoback**. 1995. Nocturnal roosting of *Odontochelia confuse* Dejean in the Peruvian Amazon (Coleoptera: Carabidae: Cicindelinae). *The Coleopterists' Bulletin* 48: 353-354.

## REFEREED TEACHING PUBLICATIONS

*Oklahoma State Univ.*

1. **Hoback, W.W.**, A. Pursley, K. Farnsworth-Hoback, and L.G. Higley. 2015. A laboratory exercise to explore sustained gravitational force tolerance by insects. *American Biology Teacher* 9: 61-63.

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2. Smith, M.J., J.J. Shaffer, K.D. Koupal, and **W.W. Hoback**. 2012. Laboratory measures of filtration by freshwater mussels: An activity to introduce biology students to an increasingly threatened group of organisms. *Bioscene* 38: 10-15.
3. Forrest, K. and **W.W. Hoback**. 2009. Using novel experiences in introductory psychology: Insects 101. *Education* 129: 625-634.
4. **Hoback, W.W.** and Smith, T.L. April 2006, posting date. The Insect Predation Game: Evolving Prey Defenses and Predator Responses. *Teaching Issues and Experiments in Ecology*, Vol. 4: Experiment #3 [online].
5. Shaffer, J.J., K.J. Warner, and **W.W. Hoback**. 2007. Filthy flies: experiments to test vectoring ability and effects of grooming behavior on bacterial transmission by flies. *American Biology Teacher* 69, No. 2 pp. e28-e31.
6. Pearson, G.A., Skinner, K. M., Hoback, W. W. 2007. Rearing the masses: Defining competencies for entomological literacy. *American Entomologist* 53(4):216-223.
7. Shaffer, J.J., E.C. Hurley, and **W.W. Hoback**. 2003. Microbes and Mosquitoes: A laboratory exercise to investigate the non-target effects of Bt. *Bioscene* 29: 27-32.
8. Skinner, K.M. and **W.W. Hoback**. 2003. Web-based, active learning experiences for biology students. *Bioscene* 29: 23-29.

9. Jehorek, M. and **W.W. Hoback**. 2002. Flies in the soup and maggots in the marmalade: A laboratory exercise to investigate food contamination by insects. *Bioscene* 28: 21-27.
10. **Hoback, W.W.** and L.G. Higley. 2000. Insect predation, prey defense, and community structure. 1999 *ABLE Workshop/Conference Proceedings: Tested Studies for Laboratory Teaching Vol. 21*: 293-304.
11. Ellis, M.D., L.G. Higley, A. Jones, **W.W. Hoback**, and S.S. Quisenberry. 2000. Bug bash- a pyramid of teaching and learning about insects. *American Entomologist* 45: 200-205.

#### **PUBLISHED ABSTRACTS, REPORTS, AND NEBGUIDES**

- Wright, R., Hein, G., **Hoback, W.W.**, and Pavlista, A. 2002. Biology and management of potato insects. Nebraska Cooperative Extension EC02-1565-S. 15 pp.
- Hoback, W.W.**, S.C. Hand, D.W. Stanley, and L.G. Higley. 1997. Survivorship and heat dissipation of the larval tiger beetle (*Cicindela togata*) during anoxia. *American Zoologist* 37: 121A.
- Spomer, S.M., L.G. Higley, and **W. W. Hoback**. 1997. Nebraska's salt marsh tigers. University of Nebraska State Museum Notes 97: 1-4.
- Spomer, S.M., L.G. Higley, F.J. Haile, and **W. W. Hoback**. 1997. Alfalfa insect control. *Arthropod Management Tests* Vol 23: 175-178.
- Spomer, S.M., L.G. Higley, F.J. Haile, and **W. W. Hoback**. 1996. Alfalfa insect control. *Arthropod Management Tests* Vol 22: 200-201.
- Hoback, W.W.**, D.W. Stanley-Samuelson, and L.G. Higley. 1996. Facultative anaerobiosis in larvae of the tiger beetle, *Cicindela togata*. *American Zoologist* 36: 37A.
- Hoback, W.W.** and M.C. Barnhart. 1994. Oxygen-limited respiration in amphipods, *Gammarus pseudolimnaeus*. *NABS Bulletin* 11: 209.

#### **WEB PAGES**

- M.L. Brust, C. Reuter, R. Quartarone, L. Black, **W. W. Hoback**, Robert Wright. Grasshoppers of the Western United States Edition 2. <http://www.lucidcentral.org/keys/v3/grasshopperE2/>
- Hoback, W. W.**, Brust, M.L., Dankert, N. and Nagel, H.G. 2005. Ants, butterflies, carrion beetles, and tiger beetles of Nebraska. University of Nebraska at Kearney. <http://www.unk.edu> (Version 5APR2005).
- Hoback, W.W.** and Riggins, J.J. 2002. Tiger beetles of North America. <http://159.189.96.216/tmp/tbeetles/TIGBUSA.HTM>
- Hoback, W.W.**, Skinner, K.M., and Higley, L.G. 2002. Exotic species curriculum and problem-solving exercises. <http://www.unk.edu/ESCAPE>
- Hoback, W.W.**, Skinner, K.M, and Ratcliffe, B.R. 2001. Carrion beetles of Nebraska. [www.unk.edu/carrion\\_beetles](http://www.unk.edu/carrion_beetles)
- Hoback, W.W.**, S.M. Spomer, and L.G. Higley. 1998. Tiger beetles of Nebraska. [http://www.ianr.unl.edu/ianr/entomol/tiger\\_beetles/tiger\\_homepage.html](http://www.ianr.unl.edu/ianr/entomol/tiger_beetles/tiger_homepage.html)
- Hoback, W.W.**, D. Golick, L. Cheng, and L.G. Higley. 1998. The few, the proud, the marine insects. <http://www.unk.edu/marineinsects>

#### **TEACHING ARTICLES**

- Hoback, W.W.**, and L. G. Higley. 2000. Creating a hypothesis-based webpage. *Bulletin of the Ecological Society of America*. 81: 88-89.

#### **POPULAR ARTICLES**

- Walker, T.J., J. Volesky, and **W.W. Hoback**. 2004. Loess hills conservation measures improve

rangeland conditions and aid American burying beetle in Nebraska. *Center for Grasslands Studies* 10 (2): 6-7.

**Hoback, W.W.** 2001. Tigers of the sand: tiger beetles. *The Braided River* 15: 12-14.

**Hoback, W.** 1997. J.E. Weaver small grant supports student's research of salt marsh tiger beetles. *The Plains Messenger* 40: 2.

**Hoback, W.** 1997. Tiger beetles integral to prairie's salt-marsh ecosystems. *The Prairie Reader* 2(3): 5.

## INVITED PRESENTATIONS

### *Oklahoma State Univ.*

1. Hoback, W.W. 2016. Evaluating American burying beetle life history through laboratory and field experiments. Oklahoma Academy of Sciences, Roman Nose State Park, Oklahoma.
2. Hoback, W.W. 2015. How natural history observation has enhanced my research and teaching career. University of Arkansas, Fayetteville, AR.
3. Hoback, W.W. 2015. Ockham's Razor and the importance of testing assumptions in entomological research. BUGSS: Bi-University (WSU & UI) Guest Speaker Series, Washington State University, Pullman, WS.
4. Hoback, W.W. 2014. Snug as a bug in a rug: Survival of winter by temperate insects. Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK.

### *Univ. of Nebraska at Kearney*

5. Hoback, W.W. and B. Peterson. 2013. Burying the dead: The effects of carcass burial and brood development of *Nicrophorus* beetles on surrounding soil nutrients. National Entomological Society Conference, Austin, TX.
6. Hoback, W.W. 2013. Killing in the dark and getting between rocks and hard places: How behavioral investigations correct assumptions. North Central Branch Entomological Society meeting, Rapid City, SD.
7. Hoback, W.W. 2013. Hands-on learning at a distance: Online tertiary education for basic and applied sciences. Daffodil International University, Dhaka, Bangladesh.
8. Hoback, W.W. 2012. Minimizing take: Conservation strategies for the American burying beetle, a highly mobile habitat generalist. North Central Branch Entomological Society meeting, Lincoln, NE.
9. Hoback, W.W. 2012. Impacts of the Brazilian tropical rainforest on the region and the world. Fiends Select High School. Philadelphia, PA.
10. Hoback, W.W. 2011. Conservation strategies associated with American burying beetle and the proposed Keystone XL pipeline. Advanced Conservation Biology class, University of Nebraska-Lincoln.
11. Hoback, W.W. 2011. What to do about American burying beetle. Nebraska Department of Roads, Valentine, NE.
12. Hoback, W.W. 2008. Distribution and conservation status of the American burying beetle in Nebraska. The Nebraska Chapter of the Wildlife Society meeting. Kearney, NE.
13. Hoback, W.W. 2007. The role of undergraduate research in small college science education. National Entomological Society Meeting, San Diego, OH.
14. Hoback, W.W. 2006. Bits and bytes: Electronic materials, laboratory resources and reviews. National Entomological Society Meeting, Indianapolis, IN.
15. Hoback, W.W. Unique perspectives at a teaching university. 2005. North Central Branch of the Entomological Society of America, West Lafayette, IN.

16. Skinner, K.M., Hoback, W.W., and Doug Golick. 2004. An on-line learning module that encourages subject mastery with web-based rewards. Association of College and University Biology Educators, Crawfordsville, Indiana.
17. Fryda, N., Koupal, K., and Hoback, W.W. 2004. Assessing fish entrainment in an irrigation reservoir. Great Plains Limnology Conference, Springfield, MO.
18. Haas, J., Koupal, K., Hoback, W.W. 2004. Evaluating habitat characteristics associated with site selection for introduced western mosquitofish and plains topminnow. Great Plains Limnology Conference, Springfield, MO.
19. Hoback, W.W. 2004. Carrion Beetle Ecology and Investigations on the Federally Endangered American Burying Beetle in Nebraska. Kansas State University, Manhattan, KS.
20. Hoback, W.W. and L.G. Higley. 2003. Testing the limits of distance education: Laboratory instruction. National Entomological Society Meeting. Cincinnati, OH
21. Hoback, W.W. 2003. Habitat use, physiology, and competition among salt marsh tiger beetles. Oklahoma State University, Stillwater, OK.
22. Hoback, W.W. 2002. Biology and population status of the endangered American burying beetle in the loess hills of south-central Nebraska. Meeting of The Nature Conservancy, North Platte, NE.
23. Hoback, W.W., Shaffer, J.J., and Scalzitti, J.M. 2002. Bacterial Inhibition by Carrion Beetle Secretions Track Phylogenetic Relationships and Explain Changes in Carcass Decay Brazilian Entomological Congress, Manaus, Brazil.
24. Hoback W.W. and Skinner, K.M. 2001. Biological Control and Risk. Annual meeting of the Entomological Society of America, San Diego, CA.
25. Hoback, W.W. 2001. Marine Insects as a Model System for Teaching Historical Hypothesis-Testing. Annual meeting of the Entomological Society of America, San Diego, CA.
26. Hoback, W.W. and Nagel, H.G. 2001. Perspectivas no uso de especies nativas para o controle de especies nocivas introduzidas/ Potential Use of Native Species to Control Noxious Introduced Species. Seventh International Symposium on Biological Control, Pocos de Caldos, Brazil.
27. Hoback, W.W. and Scalzitti, J.M. 2001. Burying beetle ecology and potential antimicrobial properties of their secretions. University of Nebraska Medical Center, Omaha, NE
28. Hoback, W.W. 1999. Playing to the crowd: audience-friendly multimedia development. North Central Branch Meeting, Ames, IA.
29. Hoback, W.W. 1998. Flood tolerance and community structure in tiger beetles. Southwest Missouri State University, Springfield, MO.

## **SUBMITTED PRESENTATIONS**

*Oklahoma State Univ.*

1. Hoback, W.W., J.S. Robinson, B.D. Cavill, and D. Golick. 2016. Using art to evaluate student views of insect-person interactions in an undergraduate Entomology course. North American Teachers of Agriculture, Manoa, Hawai'i, oral presentation.
2. Hoback, W.W. and S. Robinson. 2016. Student drawings illustrate improved science literacy in a large non-majors science course. Big XII Teaching and Learning Conference, Manhattan KS, oral presentation.

3. Jenkins, T., Hoback, W.W. and Noden, B. 2015. "Can you beat DEET?": Efficacy of DEET-free insect repellents on adult and nymphal *Dermacentor variabilis* and *Amblyomma americanum* (Acari: Ixodidae). National Entomological Society meetings, Minneapolis, MN, oral presentation.
4. Member Symposium: Citizen Scientists Contribute to Conservation. 2015. Organizers: Andrew, T.A. and Hoback, W.W. National Entomological Society meetings, Minneapolis, MN.
5. Andrew, T., Hoback, W.W., Mulder, P.G., and Shufran, A. A. 2015. Finding the sweetest smell of death: Artificial stink bait attracts less carrion beetles than rotten mice. SW Branch Entomological Society of America, Tulsa, OK, oral presentation.
6. Gahm, N., Hoback, W.W., and Wayadande, A. 2015. Daily fluctuations in local leafhopper (Hemiptera: Cicadellidae) diversity. SW Branch Entomological Society of America, Tulsa, OK, poster presentation.
7. Bradt, D. and Hoback, W.W. 2015. Determining the cold tolerance of the American cockroach, *Periplaneta americana*. SW Branch Entomological Society of America, Tulsa, OK, poster presentation.
8. Jenkins, T., Hoback, W.W., and Mulder, P.G. 2015. Elytron-branding as a permanent marking technique for *Nicrophorus* beetles (Coleoptera: Silphidae). SW Branch Entomological Society of America, Tulsa, OK, poster presentation.
9. Voss, A., Hoback, W.W., and Andrew, T.A. 2015. Nature's clean-up crew: late-season dung beetle activity in north-central Oklahoma. SW Branch Entomological Society of America, Tulsa, OK, oral presentation.
10. Hoback, W.W. and Lammers, J.T. 2015. Diggin' in: daily diapause burial depth differs among *Nicrophorus* species. SW Branch Entomological Society of America, Tulsa, OK, oral presentation.
11. Andrew, T.E., Hoback, W.W., Mulder, P.G., and Shufran, A.A. 2015. Using artificial bait to sample burying beetles by researchers and citizen scientists. Kansas Entomological Society Meetings, Fayetteville, AR, poster presentation
12. Jenkins, T.M., Hoback, W.W., and Mulder, P.G. 2015. Developing a "brand" new method for marking beetles. . Kansas Entomological Society Meetings, Fayetteville, AR, oral presentation.
13. Hoback, W.W. 2015. Threats to the Platte River caddisfly an endemic semiterrestrial insect. Oklahoma Clean Lakes and Watersheds Conference. Stillwater, OK.
14. Hoback, W.W. and G.J. Torrisi. 2014. Laboratory investigation of inhabitants of temporary waters: Will crustaceans consume mosquito larvae? Annual meeting of the Entomological Society of America. Portland, Oregon. Poster Presentation.
15. Wilson, C. Giorgenon, M. and W.W. Hoback. 2014. Burying the flies: Fly control by carrion feeding beetles. North Central Branch Entomological Society meeting, DesMoines, IA. Poster Presentation.
16. Trambly, S. and W.W. Hoback. 2014. Survival of dermestids in low oxygen environments. North Central Branch Entomological Society meeting, DesMoines, IA. Poster Presentation.
17. Serpa, L. and W.W. Hoback. 2014. Not all hypoxia is the same: Survival of immersion differs from survival of an anoxic atmosphere in soldier fly larvae. North Central Branch Entomological Society meeting, DesMoines, IA. Poster Presentation.
18. Pursley, A.C., L.G. Hogley, and W.W. Hoback. 2014. The bigger they are, the harder gravity is on them: An examination of g-force and insect survival. North Central Branch Entomological Society meeting, DesMoines, IA. Oral Presentation.

19. Willemssens, K.A. and W.W. Hoback. 2014. Effects of soil compaction and leaf litter on burial preferences in *Nicrophorus orbicollis*. North Central Branch Entomological Society meeting, DesMoines, IA. Oral Presentation.
20. Conley, A. and W.W. Hoback. 2014. The evaluation of relocation as a conservation strategy for the American burying beetle (*Nicrophorus americanus*) using a surrogate species (*Nicrophorus marginatus*). North Central Branch Entomological Society meeting, DesMoines, IA. Poster Presentation.
21. Prenosil, E. J. Grauf, and W.W. Hoback. 2014. Road crossings and upstream and downstream aquatic macroinvertebrate communities. North Central Branch Entomological Society meeting, DesMoines, IA. Poster Presentation.
22. Willemssens, K.A. M. VanGinneken, T. DeDobbelaer, J. Verhelst, and W.W. Hoback. 2013. Glacier water insects of Greenland are affected by EuroAsian industrial pollution. North Central Branch Entomological Society meeting, Rapid City, SD. Poster Presentation.
23. Pursley, A., L.G. Higley, and W.W. Hoback. 2013. High G-Force tolerance in insect larvae is not correlated with ecological selection. North Central Branch Entomological Society meeting, Rapid City, SD. Poster Presentation.
24. Jorde, E. and W.W. Hoback. 2013. Run over by a truck: A test of burying beetle survival of off-road vehicle traffic. North Central Branch Entomological Society meeting, Rapid City, SD. Poster Presentation.
25. Rodriguez, D. and W.W. Hoback. 2013. Burying beetles, *Nicrophorus*, survive two weeks without food. North Central Branch Entomological Society meeting, Rapid City, SD. Oral Presentation.
26. Conley, A.L. and W.W. Hoback. 2013. Digging below the ice: Overwintering burying beetles (Coleoptera: Silphidae) survive when they are beneath the frost line. North Central Branch Entomological Society meeting, Rapid City, SD. Oral Presentation.
27. Cavallaro, M.C. and W. W. Hoback. 2012. Impacts of fish predation on Platte River caddisfly (*Ironoquia plattensis*) populations in Nebraska. Nebraska Chapter of the American Fisheries Society Meeting. Gretna, NE. Poster presentation.
28. Schumann, D. A., K. D. Koupal, W. W. Hoback, S. Schainost, and C. W. Schoenebeck. 2012. Movement patterns of plains topminnow, *Fundulus sciadicus*, in Nebraska lotic systems. Nebraska Chapter of the American Fisheries Society annual meeting, Gretna, NE. Oral presentation.
29. Ullah, M.I., M.L. Brust, F. Mustafa, K.M. Kneeland, w.W. Hoback, S.T. Kamble, and J.E. Foster. A study of aedeagal and genetic variation among host-specific forms of *Melanoplus bowditchi* (Orthoptera: Acrididae). National Entomological Society meeting, Knoxville, TN. Poster Presentation.
30. Mustafa, F., M.I. Ullah, K.M. Kneeland, T.A. Courdon, D.W. Stanley, W.W. Hoback, and J.E. Foster. The assessment of genetic variability among spined soldier bug (Hemiptera: Pentatomidae) populations. National Entomological Society meeting, Knoxville, TN. Poster Presentation.
31. Torrisi, G.J. and W.W. Hoback. *Metriocnemus knabi* provides guardianship for *Wyeomyia smithii* within the pitchers of *Sarracenia purpurea*. National Entomological Society meeting, Knoxville, TN. Oral Presentation.
32. Whipple, S.D., W.W. Hoback, and J.D. Bradshaw. 2012. A comparison of dung beetle (Coleoptera: Scarabaeidae) attraction to native and exotic mammal dung. North Central Branch Entomological Society meeting, Lincoln NE. Oral Presentation.
33. Ullah, M.I., F. Mustafa, M.L. Brust, W.W. hoback, and K.M. Farnsworth-Hoback.

- Rangeland grasshoppers (Orthoptera: Acrididae) consume less than their actual damage: A study to examine the clipping behavior in grasshoppers.
34. Jurzenski, J., W.W. Hoback, A. Bishop, R. Grosse. 2012. American burying beetles in Nebraska: predicting occurrence, updated distribution data, and habitat association. North Central Branch Entomological Society meeting, Lincoln NE. Oral Presentation.
  35. Cavallaro, M.C., L.A. Vivian, and W.W. Hoback. 2012. The current conservation status of the Platte River caddisfly (*Isonychia plattensis* Alexander & Whiles) and potential factors influencing its decline. North Central Branch Entomological Society meeting, Lincoln NE. Oral Presentation.
  36. Rodriguez, D. and W.W. Hoback. 2012. Surviving without food: A test of how long burying beetles (Coleoptera: *Nicrophorus*) can withstand starvation. North Central Branch Entomological Society meeting, Lincoln NE. Poster Presentation.
  37. Phillips, G., J.J. Henerson, M. Albrecht, and W.W. Hoback. 2012. Creepy crawlies in concrete: Is it possible to determine post mortem interval of bodies encased in concrete? North Central Branch Entomological Society meeting, Lincoln NE. Poster Presentation.
  38. Cavallaro, M.C., W.W. Hoback. 2012. An investigation of carrion beetle (Coleoptera: Silphidae) swimming endurance and immersion tolerance as it relates to standard trapping protocol. North Central Branch Entomological Society meeting, Lincoln NE. Poster Presentation.
  39. Page, K.L., T. Walker, and W.W. Hoback. 2012. The birds and the beetles: American burying beetle numbers correlate with Northern Bobwhite numbers in south-central Nebraska. North Central Branch Entomological Society meeting, Lincoln NE. Oral Presentation.
  40. Henderson, J.J., G. Phillips, and W.W. Hoback. 2012. Nearly frozen: Overwintering behavior of burying beetles (Silphidae: *Nicrophorus marginatus*). North Central Branch Entomological Society meeting, Lincoln NE. Poster Presentation.
  41. Schumann, D.A., M.C. Cavallaro, and W.W. Hoback. 2012. Size selective predation of fish by *Hydrophilis triangularis* (Coleoptera: Hydrophilidae) and *Lethocerus americanus* (Hemiptera: Belostomatidae). North Central Branch Entomological Society meeting, Lincoln NE. Poster Presentation.
  42. Lammers, J.T., and W.W. Hoback. 2012. Digging deeper: Species and sex differences in burying beetles during periods of inactivity. North Central Branch Entomological Society meeting, Lincoln NE. Poster Presentation.
  43. Mustafa, F., M.I. Ullah, R. Mitchell, W.W. Hoback, and J.E. Foster. 2012. Switchgrass (*Panicum virgatum* L.) biomass response to simulated insect defoliation. North Central Branch Entomological Society meeting, Lincoln NE. Oral Presentation.
  44. Jurzenski, J., W.W. Hoback, A. Bishop, and R. Grosse. 2011. Predicting occurrence of the American burying beetle (*Nicrophorus americanus*) in Nebraska's Sandhills region. National Entomological Society meeting, Reno, NV. Oral presentation.
  45. Fujikawa, A., L. G. Higley, and W. W. Hoback. Maggot respiration rates for three forensically important species: *Lucilia sericata*, *Cochliomyia macellaria*, and *Sarcophaga bullata*. National Entomological Society meeting, Reno, NV. Poster presentation.
  46. Hoback, W.W., S. Butler, J. Carlson, J. Jurzenski, J. Lammers, and M. Parenti. 2011. Water loss rates and desiccation mortality relate to circadian rhythms for two species of burying beetle. National Entomological Society meeting, Reno, NV. Poster presentation.
  47. Lammers, J.T. and Hoback, W.W. 2011. Following directions: A test of burying beetle navigation to traps using a modified pitfall. North Central Branch Entomological Society meeting, Minneapolis, MN. Oral presentation.

48. Butler, S. and Hoback, W.W. 2011. Hungry beetles are caught more often: Implications for surveys of the American burying beetle. North Central Branch Entomological Society meeting, Minneapolis, MN. Poster presentation.
49. Vivian, L., Hoback, W.W., and Harms, R. 2011. The known range and population status of a potentially endangered caddisfly. North Central Branch Entomological Society meeting, Minneapolis, MN. Oral presentation.
50. McPherron, M.M., Albrecht, M.A., Farnsworth-Hoback, K.M., and Hoback, W.W. 2011. Sod-forming grass impacts burial behavior of *Nicrophorus* spp. North Central Branch Entomological Society meeting, Minneapolis, MN. Oral presentation.
51. Whipple, S.D. and Hoback, W.W. 2011. Numbers and species diversity of dung beetles are higher on organically managed rangelands in western Nebraska. North Central Branch Entomological Society meeting, Minneapolis, MN. Oral presentation.
52. Jurzenski, J. and Hoback, W.W. 2011. Opossums and leopard frogs consume the federally endangered American burying beetle (Coleoptera: Silphidae). North Central Branch Entomological Society meeting, Minneapolis, MN. Oral presentation.
53. Ullah, M.I., Brust, M.L., Hoback, W.W., and Farnsworth-Hoback, K.M. 2011. Ecoregion-level distributions and correlations for common Nebraska rangeland grasshoppers (Orthoptera: Acrididae). North Central Branch Entomological Society meeting, Minneapolis, MN. Poster presentation.
54. Mustafa, F., Ullah, M.I., and Hoback, W.W. 2011. Grasshopper herbivory reduces leaf area and photosynthesis in wild sunflower, *Helianthus annuus* L. North Central Branch Entomological Society meeting, Minneapolis, MN. Poster presentation.
55. Carlson, J., Jurzenski, J. and Hoback, W.W. 2011. More females in fall, bigger beetles in June: American burying beetle sex ratios and sizes differ between seasons. North Central Branch Entomological Society meeting, Minneapolis, MN. Poster presentation.
56. Schumann, D. and Hoback, W.W. 2011. Predation by the giant water-bug, *Lethocerus americanus*, on western Mosquitofish, *Gambusia affinis*. North Central Branch Entomological Society meeting, Minneapolis, MN. Poster presentation.
57. Cavallaro, M., Hoback, W.W., and Tippling, C. 2011. Recruitment and recolonization by Protura in hardwood mulch microhabitats. North Central Branch Entomological Society meeting, Minneapolis, MN. Poster presentation.
58. Luecha, M., Kneeland, K., Farnsworth-Hoback, K.M., and Hoback, W.W. 2011. Genetic variation within and between populations of Isopods, *Armadillidium vulgare*, in Nebraska. North Central Branch Entomological Society meeting, Minneapolis, MN. Poster presentation.
59. Lammers, J.T., Harner, M.J. and Hoback, W.W. 2010. Rainfall and cool temperatures do not reduce captures of American burying beetle, *Nicrophorus americanus*. North Central Branch Entomological Society meeting, Louisville, KY. Oral presentation.
60. Vivian, L. and Hoback, W.W. 2010. A comparison of sampling techniques to assess the population of a potentially endangered caddisfly. North Central Branch Entomological Society meeting, Louisville, KY. Oral presentation.
61. Jurzenski, J., Maestrello, S.F.R., Butler, S., McPherron, M., Lammers, J.T., and Hoback, W.W. 2010. Taking the bait: Evaluating an American burying beetle (Coleoptera: Silphidae) conservation protocol. North Central Branch Entomological Society meeting, Louisville, KY. Oral presentation.
62. Brust, M.L., and Hoback, W.W. 2010. A hypothesis for the decline of the nine-spotted lady beetle (*Coccinella novemnotata* Herbst) and potential relationships with the decline of other North America coccinellids. North Central Branch Entomological Society



- meeting, Louisville, KY. Oral presentation.
63. Butler, S., and Hoback, W.W. 2010. Nebraska beats Oklahoma: A test of trapping protocols for the American burying beetle, *Nicrophorus americanus*. North Central Branch Entomological Society meeting, Louisville, KY. Poster presentation.
  64. McPherron, M. and Hoback, W.W. 2010. The grass is not greener: Impact of smooth brome grass on carcass burial behavior of *Nicrophorus* sp. North Central Branch Entomological Society meeting, Louisville, KY. Poster presentation.
  65. Whipple, S. and Hoback, W.W. 2010. *Onthophagus* sp. dung beetles respond differently to dung and carrion baited traps. North Central Branch Entomological Society meeting, Louisville, KY. Poster presentation.
  66. Pasbrig, C., W. W. Hoback, and K. Koupal. 2010. Cold tolerance in populations of western mosquitofish, *Gambusia affinis*, from Nebraska increase potential threat to northern states and plains topminnow, *Fundulus sciadicus*. Annual meeting of the Nebraska Chapter of the American Fisheries Society. Ponca State Park. Poster presentation.
  67. Katt, J., C. Schoenebeck, K. Koupal, and W. W. Hoback. 2010. Correlation of walleye electrofishing and gill net capture rates to walleye egg density in Sherman Reservoir, NE. Annual meeting of the Nebraska Chapter of the American Fisheries Society. Ponca State Park. Oral presentation.
  68. Olds, B., B. Peterson, K. Koupal, K. M. Farnsworth-Hoback, C. Schoenebeck, and W. W. Hoback. 2010. Unexpected changes in turbidity and chlorophyll in a Nebraska reservoir following severe drought. Annual meeting of the Nebraska Chapter of the American Fisheries Society. Ponca State Park. Poster presentation.
  69. Katt, J., B. Peterson, K. Koupal, and c. Schoenebeck. 2010. Changes in walleye egg density and adult abundance due to the addition of cobble substrate in Sherman Reservoir. Annual meeting of the Nebraska Chapter of the American Fisheries Society. Ponca State Park. Oral presentation.
  70. Pasbrig, C., W. W. Hoback, and K. Koupal. 2010. Current Nebraska plains topminnow (*Fundulus sciadicus*) distribution and development and growth of plains topminnow in a Nebraska brood stock pond. Annual meeting of the Nebraska Chapter of the American Fisheries Society. Ponca State Park. Poster presentation.
  71. Sullivan, C., C. Uphoff, K. Koupal, W. W. Hoback, B. Peterson, and C. Schoenebeck. 2010. Freshwater drum food habits in a south-central irrigation reservoir. Annual meeting of the Nebraska Chapter of the American Fisheries Society. Ponca State Park.
  72. Riens, J. R., Hoback, W. W., and Schwarz, M. 2009. Macroinvertebrate diversity and abundance are higher in buffered wetlands of the rainwater basin of Nebraska. Platte River Symposium. Kearney, Nebraska.
  73. Vivivan, L. and W. W. Hoback. 2009. Updating the distribution and population of the Platte River caddisfly, *Ironoquia plattensis*. Platte River Symposium. Kearney, Nebraska. Oral presentation.
  74. Pasbrig, C., W. W. Hoback, and K. Koupal. 2009. Current Nebraska plains topminnow (*Fundulus sciadicus*) distribution and potential threats. Platte River Symposium. Kearney, Nebraska. Poster presentation.
  75. Keeten, L. and W. W. Hoback. 2009. Preying mantids prefer solid colored mealworms to striped mealworms. North Central Branch Entomological Society of America, St. Louis, MO. Poster presentation.
  76. Prosocki, A. and W.W. Hoback. 2009. In mite be the right host: Phoretic mite selection of burying beetle hosts. North Central Branch Entomological Society of America, St.

- Louis, MO. Poster presentation.
77. Vivian, L. A. and W.W. Hoback. 2009. Effects of different volatiles on *Telenomus remus* (Hymenoptera: Scelionidae) behavior. North Central Branch Entomological Society of America, St. Louis, MO. Poster presentation.
  78. Kellogg, M., L. Vivian, and W.W. Hoback. 2009. Introduced western mosquitofish, *Gambusia affinis*, also consume Trichoptera larvae. North Central Branch Entomological Society of America, St. Louis, MO. Oral presentation.
  79. Riens, J. and W. W. Hoback. 2009. Macroinvertebrate response to buffer zone quality in the rainwater basin wetlands of Nebraska. North Central Branch Entomological Society of America, St. Louis, MO. Oral presentation.
  80. Jurzenski, J., L. Vincintini, M. L. Giardini, and W. W. Hoback. 2009. Non-target effects of dimilin and malathion on burying beetles (Coleoptera: Silphidae) may explain American burying beetle distribution in Nebraska. North Central Branch Entomological Society of America, St. Louis, MO. Oral presentation.
  81. Whipple, S. and W. W. Hoback. Rangeland grasshopper numbers and species composition in Nebraska: A comparison of fields, fences, and roadside ditches. North Central Branch Entomological Society of America, St. Louis, MO. Oral presentation.
  82. Peterson, B., E. Wethington, J. E. Foster, and W. W. Hoback. 2009. Biology, entomology, or both: Distance MS degree options from the University of Nebraska system. North Central Branch Entomological Society of America, St. Louis, MO. Poster presentation.
  83. Youm, O., J. E. Foster, and W. W. Hoback. 2009. Potential and opportunities for distance education delivery to Sub-Saharan Africa. North Central Branch Entomological Society of America, St. Louis, MO. Poster presentation.
  84. Keeten, L. and W. W. Hoback. 2008. A test of parasitism suitable for a teaching exercise. North Central Branch Entomological Society of America, Columbus, OH. Poster presentation.
  85. Brust, M.L. and W. W. Hoback. 2008. Rediscovery of the nine-spotted lady beetle, *Coccinella novemnotata* Herbst in Western Nebraska. North Central Branch Entomological Society of America, Columbus, OH. Poster presentation.
  86. Gfeller, J. and W. W. Hoback. 2008. Laboratory investigations of ladybird beetle behavior: Experiments to develop teaching exercises. North Central Branch Entomological Society of America, Columbus, OH. Oral presentation.
  87. Hoback, W. W. and R. Anschutz. 2008. Burying beetles prefer moist soil during periods of inactivity. North Central Branch Entomological Society of America, Columbus, OH. Poster presentation.
  88. Lindroth, L. J., M. L. Brust, W. W. Hoback, R. J. Wright, T. E. Hunt, and J. E. Foster. 2008. Genetic analyses of the *Melanoplus packardii* group (Orthoptera: Acrididae) in the Great Plains. North Central Branch Entomological Society of America, Columbus, OH. Poster presentation.
  89. Brust, M. L., W. W. Hoback, and R. J. Wright. 2008. Densities of common Nebraska rangeland grasshoppers (Orthoptera: Acrididae) differ between ecoregions. North Central Branch Entomological Society of America, Columbus, OH. Oral presentation.
  90. Yerdon, R., W. W. Hoback, P. W. Freeman, and K. Geluso. 2008. Is big brown bat predation further endangering the American Burying Beetle? North Central Branch Entomological Society of America, Columbus, OH. Poster presentation.
  91. Riens, J. R. and W. W. Hoback. 2008. Population status and potential threats to the Platte River Caddisfly (*Ironoquia plattensis*). 2008.

92. Yerdon, R. W., W.W. Hoback, and K. Geluso. 2008. Is the increasing big brown bat population detrimental to the American burying beetle population? Poster presentation. The Nebraska Chapter of the Wildlife Society meeting. Kearney, NE.
93. Whipple, S.D. and W.W. Hoback. 2008. Time of day impacts the effectiveness of sweep sampling for rangeland grasshoppers. Poster presentation. The Nebraska Chapter of the Wildlife Society meeting. Kearney, NE.
94. Olds, B., K. Koupal, K. Skinner, B. Peterson, and W. Hoback. 2007. Water Quality of a Nebraska Reservoir During a Drought. Paper presented at American Fisheries Society Iowa, Kansas, and Nebraska Tri-State Joint Meeting, Council Bluffs, IA.
95. Olds, B.P., B.C. Peterson, K.D. Koupal, W.W. Hoback, and K.M. Skinner. 2007. A Four-Year Drought Increases Mean Water Temperature and Lowers Mean Chlorophyll a in a Nebraska Irrigation Reservoir. Poster presented at 4th International Reservoir Symposium, Atlanta, GA.
96. Sass, B.D, T.L. Smith, and W.W. Hoback. 2007. Hot on the trail: Evidence of chemical trailing behavior in the grain mite, *Acarus siro*. Oral presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
97. Whipple, S.D., M.L. Brust, and W.W. Hoback. 2007. Food preference of the grasshopper species *Arphia xanthoptera* (Burmeister) and *Dichromorpha viridis* (Scudder) (Orthoptera: Acrididae). Oral presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
98. Anschutz, R.M., W.J. Allgeier, D.J. Snethen, and W.W. Hoback. 2007. The impacts of light and light types on nocturnal carrion beetles (Silphidae) with an emphasis on the American burying beetle, *Nicrophorus americanus*. Poster presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
99. Brust, M.L. and W.W. Hoback. 2007. Comparisons in the *Melanoplus packardii* group: Evidence for species status of *Melanoplus fluviatilis* Bruner. Poster presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
100. Dobesh, P.A. and W.W. Hoback. 2007. Small mammal and carrion beetle interactions. Poster presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
101. Hamik, J.J., B. Zechmann, and W.W. Hoback. 2007. Efficacy of a systemic pesticide against leafhoppers in commercial potato production. Poster presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
102. Johnson, J.R. and W.W. Hoback. 2007. Are they biting? Fishing tiger beetle larvae allows conservation of rare species and their habitat. Poster presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
103. Jurzenski, J.D. and W.W. Hoback. 2007. Recent saltcedar, *Tamarix* spp., invasion does not alter ant (Formicidae) diversity or abundance in Nebraska. Poster presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
104. Yerdon, R.W., B.D. Sass, T.L. Smith, and W.W. Hoback. 2007. A line in the stored products: the grain mite, *Acarus siro* avoids citrus extract. Poster presentation, North Central Branch Entomological Society of America meeting, Winipeg, Manitoba.
105. Jurzenski, J. D. and W. W. Hoback. 2006. Wide Open Spaces: Infestations of Saltcedar, *Tamarix ramosissima*, Increase Capture Rates of Terrestrial Invertebrates in South-central Nebraska. Oral presentation, North Central Branch Entomological Society Meeting, Bloomington, IL.
106. Hoback, W. W., T. E. Hunt, L. G. Higley, and J. R. Ziemis. 2006. Effects of

- Second Generation European Corn Borer (Lepidoptera: Crambidae) Injury on Irish Potato Physiology, Yield, and Quality. Poster presentation, North Central Branch Entomological Society Meeting, Bloomington, IL.
107. Sass, B. D. and W. W. Hoback. 2006. Effects of Temperature and Humidity on Grain Mite, *Acarus siro*, Survival. Poster presentation, North Central Branch Entomological Society Meeting, Bloomington, IL.
  108. Dobesh, P., D. Wedin, W. W. Hoback. 2006. Carrion Beetle Communities of the Nebraska National Forest. Poster presentation, North Central Branch Entomological Society Meeting, Bloomington, IL.
  109. Tracy, H. R., M. Albrecht and W. W. Hoback. 2006. A Road Less Traveled: Pitfall Sampling Reveals Impacts to Terrestrial Invertebrates in Mangrove Swamps of Vieques Island. Poster presentation, North Central Branch Entomological Society Meeting, Bloomington, IL.
  110. Wieck, B.J., W. W. Hoback and J. J. Shaffer. 2006. Sex and Temperature Effects on the Antimicrobial Activity in the Oral Secretion of the Carrion Beetle, *Nicrophorus marginatus*. Poster presentation, North Central Branch Entomological Society Meeting, Bloomington, IL.
  111. Hamik, J.J., J. Reilly and W. W. Hoback. 2006. Economic Threshold for Grasshoppers in Potato Based on Leaf Area Index. Poster presentation, North Central Branch Entomological Society Meeting, Bloomington, IL.
  112. Hoback, W.W. and Skinner, K.M. 2005. Six degrees of separation: an exercise to improve student appreciation of the scientific literature. 49<sup>th</sup> Meeting of the Association of College and University Biology Educators. Cape Girardeau, MO.
  113. Fryda, N.J., Koupal, K.D., and Hoback, W.W. 2005. Evaluation of larval crappie (*Pomoxis* spp.) production in a Nebraska irrigation reservoir. 32<sup>nd</sup> Annual Great Plains Limnology Conference. Lawrence, KS.
  114. Hoback, W.W. 2005. Potato (*Solanum tuberosum*) response to leaflet removal and hole punch defoliation. North Central Branch of the Entomological Society of America, West Lafayette, IN.
  115. Shaffer, J.J., Kling, M. and Hoback, W.W. 2005. Fly Cleaning Behavior Reduces the Transmission of *Escherichia coli*. North Central Branch of the Entomological Society of America, West Lafayette, IN.
  116. Brust, M.L. and Hoback, W.W. 2005. New county tiger beetle records and statewide inventory in Nebraska. Oral presentation. North Central Branch of the Entomological Society of America, West Lafayette, IN.
  117. Middleton, W., Shaffer, J.J. and Hoback, W.W. 2005. Characterization of the oral secretion of the burying beetle, *Nicrophorus marginatus*. North Central Branch of the Entomological Society of America, West Lafayette, IN.
  118. Jurzenski, J. and Hoback, W.W. 2005. An investigation of ant (Hymenoptera: Formicidae) diversity in 26 Nebraska counties. North Central Branch of the Entomological Society of America, West Lafayette, IN.
  119. Lamsal, P., Albrecht, M., and Hoback, W.W. 2005. Spatial Analyses at Multiple Scales Reveal Differences for Ant Genera in Nebraska. North Central Branch of the Entomological Society of America, West Lafayette, IN.
  120. Cook, M., Shaffer, J.J. and Hoback, W.W. 2005. Aquatic Macroinvertebrates from Oil-Covered Waste Lagoons in Western Nebraska. North Central Branch of the Entomological Society of America, West Lafayette, IN.
  121. Fryda, N., Koupal, K., and Hoback, W.W. 2004. Assessing fish entrainment in an

- irrigation reservoir. Great Plains Limnology Conference. Springfield, MO.
122. Haas, J., Koupal, K., Hoback, W.W. 2004. Evaluating habitat characteristics associated with site selection for introduced western mosquitofish and plains topminnow. Great Plains Limnology Conference. Springfield, MO
  123. Brust, M.L. and Hoback, W.W. 2004. Dammed to death: *Cicindela hirticollis* and the effects of
  - 124.** dams on a terrestrial insect. Oral presentation. Nebraska Academy of Sciences, Lincoln, NE.
  125. Riggins, J.J. and Hoback, W.W. 2004. Monitoring soil invertebrates as bioindicators of wet meadow restoration success. Poster presentation. Central States Entomological Society. Lincoln, NE.
  126. Hoback, W.W. 2004. Range extensions and conservation status of the American burying beetle in Nebraska. Oral presentation. Central States Entomological Society. Lincoln, NE.
  127. Brust, M.L. and Hoback, W.W. 2004. Larval life history and habitat preferences of a grassland tiger beetle, *Cicindela cursitans*. Oral presentation. Central States Entomological Society. Lincoln, NE.
  128. Sass, B., Hamik, J. and Hoback, W.W. 2004. Male burying beetles increase capture rates for silphid species. Poster presentation. Central States Entomological Society. Lincoln, NE.
  129. Riggins, J.J., Davis, C.A., Skinner, K.M. and Hoback, W.W. 2004. Evaluation of wet meadow restoration using soil invertebrate biodiversity. Poster presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  130. Joy, A.L., Bedick, J.C., Hamik, J., Sass, B. Riggins, J.J. 2004. Trap bias in burying beetle sampling protocols. Poster presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  131. Hoback, W.W., Skinner, K.M., and Pearson, G.A. 2004. A survey to develop benchmarks for entomological literacy. Poster presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  132. Zechmann, B.J. and Hoback, W.W. 2004. Refinement of economic thresholds for defoliating insects on potato in central Nebraska. Oral presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  133. Berger, T.R., Hoback, W.W., and Higley, L.G. 2004. Learning about predator-prey relationships. Poster presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  134. Hamik, J.J., Sass, B.D., and Hoback, W.W. 2004. Spilling the guts: carcass preparation by *Nicrophorus marginatus*. Poster presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  135. Sass, B.D., Hamik, J.J., and Hoback, W.W. 2004. male burying beetles (Coleoptera: Silphidae) increase bait attractiveness. Oral presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  136. Brust, M.L. and Hoback, W.W. 2004. Survival of immersion and anoxia in the tiger beetle, *Cicindela hirticollis*. Oral presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
  137. Sneath, D.G. and Hoback, W.W. 2004. Population density of *Nicrophorus americanus* the federally endangered American burying beetle in the Nebraska counties of Blaine, Brown, Loup, and Rock. Poster presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.

138. Snethen, D.G. and Hoback, W.W. 2004. The effect of three types of light: halogen, mercury vapor, and ultraviolet on nocturnal species of carrion beetles including *Nicrophorus americanus*, the federally endangered American burying beetle. Oral presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
139. Horse, L.W., Snethen, D.G., and Hoback, W.W. 2004. Activity period of four species of carrion beetle on the Pine Ridge Indian Reservation of south western South Dakota. Poster presentation. North Central Branch of the Entomological Society of America, Kansas City, MO.
140. Bueno, A.F., Hoback, W.W., Higley, L.G., and Fernandes, O. 2003. Colorado potato beetle feeding injury to potato differs between males and females. Poster Presentation. National Entomological Society Meeting, Cincinnati, OH.
141. Shaffer, J.J. and Hoback, W.W. 2003. The Non-target Effects of Bti Toxin on Aquatic Insects. Workshop, Association of College and University Biology Educators, Kirksville, MO.
142. Hoback, W.W. and Skinner, K.M. 2003. Educating the public about exotic species through an interactive website. Poster presentation, North Central Branch of the Entomological Society of America, Madison, WI.
143. Zechmann, B., Hoback, W.W., and Ziems, J. 2003. A test of trapping methods for *Strigoderma arboricola* to establish phenology. Oral presentation, North Central Branch of the Entomological Society of America, Madison, WI.
144. Riggins, J., Hoback, W.W., and Davis, C. 2003. Soil invertebrates as bioindicators of the effectiveness of wet meadow restoration. Poster presentation, North Central Branch of the Entomological Society of America, Madison, WI.
145. Snethen, D.G. and Hoback, W.W. 2003. Mercury Vapor and UV Lights Affect Both Diurnal and Nocturnal Carrion Beetle Species. Oral presentation, North Central Branch of the Entomological Society of America, Madison, WI.
146. Hoback, W.W., Zechmann, B. and Ziems, J. 2002. Monitoring for *Strigoderma arboricola*, an Emerging Pest of Potato in Central Nebraska. Poster presentation, National Entomological Society of America meeting, Ft. Lauderdale, FL.
147. Skinner, K.M., Hoback, W., and Srinivasan, S. 2002. Online Learning Modules Examine the Environmental Impacts of Species Introductions. Poster presentation, annual meeting of the Association of College and University Biology Educators, Chicago, IL.
148. Hoback, W. and Higley, L. 2002. Distance education like white elephants: Insect ID at a distance. Workshop, annual meeting of the Association of College and University Biology Educators, Chicago, IL.
149. Shaffer, J.J. and Hoback, W.W. 2002. A laboratory exercise to teach students about microbial pesticides and non-target effects. Oral Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
150. Hoback, W.W., Ziems, J. R., and Higley, L.G. 2002. Potatoes in south-central Nebraska tolerate high levels of artificial mid-season defoliation. Oral Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
151. Goldfish, R.L., Hoback, W.W., and Shaffer, J.J. 2002. Bacterial inhibition by carrion beetle secretions track phylogenetic relationships. Poster Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
152. Kraulik, J.R. and Hoback, W.W. 2002. Ground beetle species differ in their use of wet meadow-cottonwood forest ecotone along the Platte River in south-central Nebraska. Oral Presentation, North Central Branch of the Entomological Society of

- America, East Lansing, MI.
153. Riggins, J.J. and Hoback, W.W. 2002. Dark feeding by *Cicindela fulgida* (Coleoptera: Cicindelidae) reveals use of alternative senses by a visual predator. Poster Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
  154. Snethen, D.G. and Hoback W.W. 2002. New records of carrion beetles in Nebraska reveal increased range of American burying beetle. Oral Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
  155. Doyle, J., Snethen, D., and Hoback W.W. 2002. The effects of artificial light on carrion beetles, Coleoptera: Silphidae. Poster Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
  156. Ziems, J.R., Hunt, T.E., and Hoback, W.W. 2002. Second generation corn borer damage reduces potato yield of some varieties in south-central Nebraska. Oral Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
  157. Jehorek, M. and Hoback, W.W. 2002. Flies in the soup and maggots in the marmalade: A laboratory exercise to investigate food contamination by insects. Oral Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
  158. Olmer, K., Ziems, J.R., and Hoback, W.W. 2002. A comparison of sampling methods for integrated pest management of insects associated with potato. Poster Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
  159. Zechmann, B., Ziems, J. and Hoback, W.W. 2002. Sand chafer phenology in south-central Nebraska may reveal control options. Oral Presentation, North Central Branch of the Entomological Society of America, East Lansing, MI.
  160. Bishop A.B., Hoback, W.W., Narumalani, S., and Albrecht, M. 2001. A Predictive Model for Habitat Association of Silphid Beetles Using A GIS Model. Poster presentation, North Central Branch of the Entomological Society of America, Ft. Collins, CO.
  161. Kroemer, J., Bishop, A., Shaffer, J., Scalzitti, J., and Hoback, W. 2001. Anal And Oral Secretions of the Burying Beetle *Nicrophorus marginatus* Inhibit Bacterial Enzyme Activity. Poster presentation, North Central Branch of the Entomological Society of America, Ft. Collins, CO.
  162. Krahulik, J., Hoback, W., Davis, C., and Austin J. 2001. Effects of Grazing Strategy on Invertebrate Diversity in Riparian Meadows of South-Central Nebraska. Oral presentation, North Central Branch of the Entomological Society of America, Ft. Collins, CO.
  163. Thaden, R., Bishop, A., and Hoback, W. 2001. Carcass Burial and Preparation by Burying Beetles Reduces Carcass Discovery by Other Necrophores. Oral presentation, North Central Branch of the Entomological Society of America, Ft. Collins, CO.
  164. Hoback, W., and Higley, L. 2001. Untangling the Web: Experiences From Teaching a Distance Education Version of Insect Identification. Oral presentation, North Central Branch of the Entomological Society of America, Ft. Collins, CO.
  165. Hoback, W.W. and K.M. Skinner. 2001. Using ESCAPE: A Web-Based Interactive Learning Environment for Exploring Introduced Species Concepts. Annual meeting of the Association of College and University Biology Educators. Kearney, NE.
  166. Krahulik, J.R., Hoback, W.W., Davis, C.A., and Austin J.E. 2000. Land

- Management Effects on Invertebrate Diversity in Riparian Meadows of the Platte River in South-Central Nebraska. Poster presentation, annual meeting of the Entomological Society of America, Montreal, Canada.
167. Bishop, A.A., J. Kroemer, W.W. Hoback, J.J. Shaffer, and J.M. Scalzitti. 2000. Reduction of bacterial  $\beta$ -galactosidase activity and production by burying beetle (Coleoptera: Silphidae) secretions. Oral presentation, annual meeting of the Entomological Society of America, Montreal, Canada.
  168. Hasselquist, J. and W.W. Hoback. 2000. A test to determine competition between the native plains topminnow and the introduced mosquitofish. Poster presentation at the annual Research Service Council Research Day, Kearney, NE.
  169. Bishop, A.A., W.W. Hoback, J.J. Shaffer, and J.M. Scalzitti. 2000. The effects of burying beetle (Coleoptera: Silphidae) secretions on bacterial  $\beta$ -galactosidase enzyme production. Poster presentation at the annual Research Service Council Research Day, Kearney, NE.
  170. Hoback, W.W., T.C. Clark, L.J. Meinke, and L. G. Higley. 2000. Survivorship of Immersion Differs Between Three Species of Corn Rootworm (Coleoptera: Chrysomelidae). Oral presentation North Central Branch of the Entomological Society of America, Minneapolis, MN.
  171. Bishop, A.A., W.W. Hoback, J.J. Shaffer, and J.M. Scalzitti. 2000. Inhibition of Bacterial  $\beta$ -Galactosidase Activity by Burying Beetle Secretions. Poster presentation North Central Branch of the Entomological Society of America, Minneapolis, MN.
  172. Hoback, W.W., D.A. Golick, T.M. Svatos, S.M. Spomer, and L.G. Higley. 1999. Larval distribution explained by ovipositional differences between sympatric tiger beetle species. Oral presentation at the annual meeting of the Central States Entomological Society, Manhattan, KS, 1999.
  173. Spomer, S.M. and W.W. Hoback. 1999. The salt creek tiger beetle: implications for rarity. Oral presentation at the annual meeting of the Central States Entomological Society, Manhattan, KS, 1999.
  174. Hoback, W.W., D.A. Golick, T.M. Svatos, S.M. Spomer, and L.G. Higley. 1999. Salinity and shade preferences result in ovipositional differences between sympatric tiger beetle species. Poster presentation, North Central Branch of the Entomological Society of America, Des Moines, IA, 1999.
  175. Hoback, W.W., J.E. Podrabsky, L.G. Higley, D.W. Stanley, and S.C. Hand. 1999. Metabolic depression and anaerobiosis differ between two species of tiger beetle larvae exposed to different flooding regimes. Poster presentation, annual meeting of the Society for Integrative and Comparative Biology, Denver, CO.
  176. Hoback, W.W., D. Golick, L. Cheng, and L.G. Higley. 1999. Science works by hypothesis testing, why shouldn't your web site? Oral presentation, annual meeting of the Society for Integrative and Comparative Biology, Denver, CO.
  177. Hoback, W.W., S.C. Hand, D.W. Stanley, and L.G. Higley. 1998. Survivorship and heat dissipation of the larval tiger beetle (*Cicindela togata*) during anoxia. Oral presentation, annual meeting of the Society for Integrative and Comparative Biology, Boston, MA.
  178. Hoback, W.W. and W.E. Wagner. 1998. Dietary limitation reduces male calling behavior and spermatophore protein content of the field cricket, *Gryllus lineaticeps*. Oral presentation at the Sigma Xi Society, Lincoln, NE.
  179. Hoback, W.W., T.E. Hunt, F.J. Haile, and L.G. Higley. 1998. Indirect measurement of insect defoliation. Poster presentation, annual meeting of the



- Entomological Society of America, Las Vegas, NV.
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#### **HONOR SOCIETIES**

Phi Kappa Phi- National Honor Society  
 Sigma Xi- National Scientific Honor Society  
 Omicron Delta Kappa- National Leadership Honor Society  
 Phi Beta Delta- International Honor Society

#### **PROFESSIONAL SOCIETIES**

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