

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

Department of Entomology and Plant Pathology
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HOME ADDRESS

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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. 2022-present. Professor. Instructor for: Insects and Society, Internship in Teaching and Outreach, Invertebrate Conservation, Arachnid Biology, and Introduction to Forensic Entomology.

Oklahoma State University, Stillwater, OK. Department of Entomology and Plant Pathology. 2018-2022. Associate Professor. Instructor for: Insect Biology and Classification, Insects and Society, Introduction to Entomological Research, Aquatic Entomology, Research Skills in Entomology, Introduction to Forensic Entomology.

Oklahoma State University, Stillwater, OK. Department of Entomology and Plant Pathology. 2014-2018. 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, Lincoln NE, Department of Entomology, 1999-2014. Adjunct Faculty. 3-month appointment as State Potato Extension Specialist 2005-2008.

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.

ADMINISTRATIVE AND LEADERSHIP EXPERIENCE

- Chair, National Formal and Informal Teaching Committee, 2023-present. A proposed fifth section to support students and faculty in developing effective teaching and outreach strategies.
- President, Society of Southwestern Entomologists. 2022.
- Member of the University-wide Strategic Planning Team for Student Retention. OSU. 2022.
Work with team of administrators and faculty to develop strategic plan for student success.
- National Entomological Society Education and Outreach Committee Vice-Chair and Chair, 2018-2022. Develop and propose a new ESA section (Formal and Informal Teaching [FIT]). Organize annual Teaching and Outreach Symposium, administer funding of Chrysalis Grants.
- Southwestern Branch Entomological Society Executive Committee 2018-2022
Past President, 2021, President, 2020, Vice President, 2019, Secretary, 2018
- Chair of the Undergraduate Entomology Program, OSU 2014-Present
Responsible for curriculum for three options, advising, and assessment.
- Director of the University of Nebraska Kearney Biology Distance MS program. 2003-2010.
Developed and oversaw the largest online MS program within the University of Nebraska system. Responsible for curriculum and budgeting and direct supervisor of 3 staff.
- Chair of the University of Nebraska Kearney Distance Education Committee. 2004-2006.
Led campus initiatives for online courses and degree programs.

AWARDS AND RECOGNITION

- Neustadt-Sarkeys Distinguished Professorship. 2022. Oklahoma State University
- Regents Distinguished Teaching Award. 2021. Oklahoma State University
- Online Teaching Excellence Award. 2021. Oklahoma State University
- National Excellence in Teaching and Student Engagement. 2020. United States Department of Agriculture Excellence in College and University Teaching in Food and Agricultural Sciences
- NACTA Educator Award. 2019. North American College Teachers of Agriculture.
- National Entomological Society of America Distinguished Achievement Award in Teaching. 2017
- Southwestern Branch of the Entomological Society of America nominee for Distinguished Achievement Award in Teaching. 2016
- 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
- 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
- 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

INTERNATIONAL EXPERIENCE

Leader, study abroad to Botucatu Brazil, 2024. 20 students.
Host, Guilherme Lourenço from Brazil, 2024
Host, Felipe Crepaldi Alves from Brazil, 2023
Host, Rodrigo Sores from Brazil, 2022
Host, Rafael Hayashida from Brazil, 2020
Host, Joonhyeong Kim from South Korea, 2019
Host, Leonardo Viera Santos from Brazil, 2018
Host, Marcela Giglotti from Brazil, 2017
Host, Marina Mouzinho from Brazil, 2016
Host, Alaor Neto and Gustavo Ragozzani from Brazil, 2015
Leader, study abroad to the Cerrado of Brazil, Summer 2014. 23 students.
Host, Marcio Pistore and Hurian Holzhausen from Brazil 2014.
Host, Carlos Giorgenon, exchange student from Brazil, 2013.
Host, Kelly Willemsens, 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 Russia for distance education module development. 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

SERVICE EXPERIENCE

OSU Ferguson School of Agriculture Peer Teaching Leader. 2021.
OSU Freshmen in Transition faculty mentor. 2021-2022
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

COMMITTEE EXPERIENCE

Member of OSU Curriculum and Academic Standards Committee, 2014-present
Member of OSU College of Agriculture Undergraduate Advising Coordinators, 2014-present

Coach Entomology Trivia, OSU Entomology, 2016-present
 Department of Entomology recruitment chair, 2014-present
 Department of Biology Graduate Research Committee, 2013-2014
 Department of Biology Lab Fees Committee, 2013-2014

GRADUATE STUDENTS MENTORED

Student	Degree Details	Current Position
<i>Oklahoma State University</i>		
Gideon Morris	M.S. OSU Ento.	Anticipated graduation 05/26
Alex Harman	Ph.D. OSU Ento.	Anticipated graduation 05/25
Rodrigo Sores	M.S. OSU Ento.	Anticipated graduation 12/24
Amelea Jones	M.S. OSU Ento.	Anticipated graduation 05/25
Samantha Hittson	Ph.D. OSU Ento.	Anticipated graduation 05/25
Abir Abu	Ph.D. OSU Ento.	Anticipated graduation 05/26
Gabrielle Jones	M.S. OSU Ento. 2024	Bureau of Indian Affairs
Mason Taylor	M.S. OSU Ento. 2023	Environ. Tech. Power and Associates
Greg Middleton	M.S. OSU Ento. 2023	Ames, Iowa
Sandra Rigsby	M.S. OSU Ento. 2022	Research Tech, OU medical
Shane McMurry	M.S. Ento. 2022	Greenhouse Manager, Pawnee Nation
Carrie Pratt	M.S. OSU Ento. 2021	Professor NDSU
Alex Harmon	M.S. OSU Ento. 2021	PhD program, OSU
Camille Carey	M.S. OSU Ento. 2021	PhD program, Texas A & M
Melissa Reed	Ph.D. OSU Ento. 2022	Post-Doc Teaching, OSU
Leonardo Santos	M.S. OSU Ento. 2020	Ihara Agricultural Company, Brazil
Michael Caballero	M.S. OSU Ento 2020	Research Technician, UT Austin
Thomas Hess	M.S. OSU Ento 2019	Bayer Corp. Research and Development
Elise Knowlton	M.S. OSU Env. Sci. 2019	University of Tulsa Med. Center
Jacob Farriester	M.S. OSU Ento. 2018	OU Med Center
Misael de Souza	M.S. OSU Ento. 2018	Seaboard Foods, Guymon OK
Lexi Freeman	M.S. OSU Env. Sci. 2018	Potawatomie Nation Environ. Scientist
Daniel St Aubin	M.S. OSU Ento. 2017	Tomlin Scientific Inc., California
David Bradt	M.S. OSU Ento. 2017	Thermo Fisher Scientific
Ankur Limaje	M.S. OSU Ento. 2017	Food Forensics Entomologist
Melissa Reed	M.S. OSU Env. Sci. 2017	PhD Entomology
Tanner Jenkins	M.S. OSU Ento. 2016	Instructor, Central Community College, NE
Theresa Andrew	M.S. OSU Ento. 2016	Ph.D. Museum Studies, Purdue University
<i>Univ. of Neb.- Kearney</i>		
Kelly Willemsens	M.S. UNK Biology 2015	Lecturer Clemson University
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	Research Technician, U. of Tennessee
Michael Cavallero	M.S. UNK Biology 2012	Municipal Entomologist, Arizona
David Schuman	M.S. UNK Biology 2012	Professor, U. of Wisconsin La-Crosse
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.-Lincoln</i>		
Mathew Brust	Ph.D. UNL Ento. 2008	Prof. and Head Chadron State College
Sean Whipple	Ph.D. UNL Ento. 2011	Greenlight Biosciences Corp, Director
Jessica Jurzenski	Ph.D. UNL Ento. 2012	Scientist Felsburg Holt & Ullevig Consulting
Muhammad Irfan Ullah	Ph.D. UNL Ento. 2012	Prof. and Chair Univ. of Sargodha, Pakistan
Gary Torissi	Ph.D. UNL Ento. 2013	Retired instructor
Fatima Mustafa	Ph.D. UNL Ento. 2013	Asst. Prof. Univ. of Agriculture Faisalabad

GRADUATE STUDENT COMMITTEES

Oklahoma State University

Lauren Osborne, Ph.D. *in progress*
 Sam Meiss, Ph.D. *in progress*
 Abraham Kanz, Ph.D. 2024
 Kyle Risser, Ph.D. 2022
 Justin Turner, M.S. 2021
 Jason Glover, M.S. 2020
 Kristen Bayley, M.S. 2016
 Jillian Wormington, Ph.D. 2017

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

EXTRAMURAL FUNDING RECEIVED

Oklahoma State University (Total \$3,690,078)

1. Climate change effects on reproduction by American burying beetle. 2024. **Hoback, W.W.** and J. Long. U.S. Fish and Wildlife Service. \$15,000.
2. Population monitoring of American burying beetle at the Tallgrass Prairie Preserve. 2024. **Hoback, W.W.** The Nature Conservancy. \$10,000.
3. Determination of occurrence of American burying beetle at soybean agricultural fields, and toxicity of the herbicide Enlist Duo® to burying beetles. 2024. **Hoback, W.W.** Oklahoma Soybean Board. \$21,690.
4. Documenting swine ownership among indigenous and non-indigenous citizens and improving local containment of swine viral outbreak. 2024. **Hoback, W.W.**, F. Bauerman, M.C. Cavallaro, and J. Talley. \$238,098. U.S. Department of Agriculture.
5. Status of the Arogos (Iowa) skipper (*Atrytone arogos iowa*) in Oklahoma. 2024. **Hoback, W.W.**, A. Harman, E. Geest. \$146,617. Oklahoma Department of Wildlife Conservation.
6. Food and Agriculture Non-formal Education (FANE): The Agriculture Microbiome Program (AMP), a non-formal education program for ninth and tenth grade students and STEM teachers. 2023. Gustafson, J.E., K. Craven, D. Hagen, **W. Hoback**, C. Eck. K. Wardlaw, and K. Allen. \$749,865.
7. Determining the host suitability and if cross-resistance exists for cereal and grass crops infested by the hedgehog grain aphid in the Great Plains. 2023. J.S. Armstrong and **Hoback, W.W.** U.S. Department of Agriculture. \$131,656.
8. Population assessment of American burying beetle and response to habitat alterations and climate at Camp Gruber Training Center, Braggs, OK. 2023. **Hoback, W.W.** Oklahoma Military Department. \$65,105.
9. Ozark glade biodiversity inventory and mapping project. 2022. Duchard, C., Murray, B. and **Hoback, W.W.** \$215,694. Oklahoma Department of Wildlife Conservation.
10. Insect response to regenerative agriculture practices in cattle-pecan production. 2022. **Hoback, W.W.**, Ma, L.M. and C. Rohla. Oklahoma Agriculture, Food, and Forestry Specialty Crop Block Program. \$63,931
11. Assessing aquatic macroinvertebrates in ephemeral ponds. 2022. J. Long and **Hoback, W.W.** US Geological Services. \$50,000
12. Population assessment of the American burying beetle and response to habitat alterations at Camp Gruber Training Facility, Braggs, OK. 2022. **Hoback, W.W.** Oklahoma Military Department. \$65,291.
13. Surveys of Lepidoptera of concern at Camp Gruber Military Training Facility. 2022. Oklahoma Military Department. \$53,759.
14. Determining the host suitability and if cross-resistance exists for cereal and grass crops infested by the hedgehog grain aphid in the Great Plains. 2022. J.S. Armstrong and **Hoback, W.W.** U.S. Department of Agriculture. \$45,629.
15. Western rangeland grasshoppers tool update and updated grasshopper distribution in Oklahoma phase III. 2021. **Hoback, W.W.** USDA APHIS. \$50,000.
16. Continued monitoring of American burying beetle response to habitat alterations at Camp Gruber Training Center, Braggs, OK. 2021. Hoback, W.W. Oklahoma Military Department. \$ 56,644.

17. Continued support of American burying beetle conservation. 2021. **Hoback, W.W.** Tulsa Zoo., \$17,612.
18. American burying beetle conservation for Cherokee Nation lands. **Hoback, W.W.** Cherokee Nation. \$10,000.
19. Alliance for success: Remapping tribal higher education to prepare food industry leaders. 2021. Jadeja, R., Rayas, P., Brandenberger L., **Hoback, W.W.**, Jilling, A. Hu, B. and Burgess, M. USDA-New Beginnings for Tribal Students. \$370,000.
20. PATHS: Partnerships for Agrosecurity Training, Health, and Science. 2020. **Hoback, W.W.**, Arnall, B., Anderson, A., Booth, M., Sergio, A., Haggard, B. and Noden, B. USDA NIFA Multicultural Scholars Program. \$200,000.
21. PROVIDE: Plant Resistance Of Vectors, Insects, and Disease Education. 2020. Arnall, B., **Hoback, W.W.**, Abit, S., Haggard, B., Anderson, A., and Alisen, L. USDA.NIFA New Beginnings for Tribal Students. \$288,315.
22. Further test of American burying beetle overwintering at Cherokee Nation Conservation Area. **Hoback, W.W.** 2020. Cherokee Nation. \$10,000
23. Lower and upper threshold for sugarcane aphid development. 2020. J.S. Armstrong and **Hoback, W.W.** U.S. Department of Agriculture \$13,000.
24. Proposal to monitor American Burying Beetle at Camp Gruber Training Center, Braggs, OK and directly test the effects of surface burning. 2020. **Hoback, W.W.** Oklahoma Army National Guard. \$65,082.
25. Western rangeland grasshoppers tool update and updated grasshopper distribution in Oklahoma phase II. 2020. **Hoback, W.W.** USDA APHIS. \$50,000.
26. Proposal to characterize genes involved in burying beetle preservation of meat to improve meat storage. 2019. **Hoback, W.W.** and J. Gustafson. OSU Mentor-Mentee Grant Program. \$20,000
27. Life history of sugarcane aphid and interactions with native Hymenoptera. 2019. J.S. Armstrong and **Hoback, W.W.** U.S. Department of Agriculture \$39,300.
28. Grasshoppers of the Western United States regional publication. **Hoback, W.W.** 2019. USDA APHIS. \$50,000.
29. Test of American burying beetle overwintering at Cherokee Salisaw Creek Park. **Hoback, W.W.** 2019. Cherokee Nation. \$20,000
30. Teaching equipment to improve entomology laboratories, collections, and student research experiences. **Hoback, W.W.** 2019. CASNR Student Technology Fees. \$11,494.
31. Surveys of American burying beetle and population assessment in South Dakota. 2018-2020. **Hoback, W. W.** \$90,169.
32. Lower and upper threshold for sugarcane aphid development. 2018. J.S. Armstrong and **Hoback, W.W.** U.S. Department of Agriculture \$22,000.
33. Continuing support of an American burying Beetle colony. 2018. **Hoback, W.W.** Tulsa Zoo. \$5,000.
34. Monitoring of the endangered American burying beetle at McKelvie National Forest, Nebraska. 2018. **Hoback, W.W.** U.S. Forest Service \$6,000.
35. Teaching equipment to improve entomology and plant pathology laboratories. 2018. **Hoback, W.W.** CASNR Tech Fees. \$13,736.
36. Lower and upper threshold for sugarcane aphid development. 2017. J.S. Armstrong and **Hoback, W.W.** U.S. Department of Agriculture \$20,493.
37. Equipment for testing American burying beetle response to temperature. 2017. **Hoback, W.W.** U.S. Fish and Wildlife Service. \$4,795.
38. Proposal to monitor mosquitoes at Camp Gruber Training Center, Braggs, OK. 2017. **Hoback, W.W.** Oklahoma National Guard. \$45,283.

39. Proposal to continue season-long monitoring of American burying beetle at Camp Gruber Training Center Braggs, OK. 2017. **Hoback, W.W.** \$77,884.
 40. Surveys to determine impacts of grazing and pecan orchards on the American Burying Beetle. 2017. **Hoback, W.W.** and P. Mulder. Oklahoma Department of Wildlife Conservation. \$26,667.
 41. NATIVES: Native Americans Trained In Various Entomological Sciences. 2017-2021. **Hoback, W.W.**, E. Payne, B. Noden, A. Wayadande, and J. Talley. NIFA Multicultural Scholars Program. \$200,000.
 42. Engaging undergraduates in citizen science with pollinators to enhance conservation knowledge, biological systems thinking, and community engagement. 2017. Golick, D., **W.W. Hoback**, and H. Doebel. APS Innovative Teaching Award. \$5,000,
 43. Temperature dependent development of sugarcane aphid including lower and upper threshold development. 2016. J.S. Armstrong and **Hoback, W.W.** U.S. Department of Agriculture \$18,447.
 44. Proposal to monitor American Burying Beetle at Camp Gruber Training Center, Braggs, OK. 2016. **Hoback, W.W.** Oklahoma National Guard. \$ 55,726.
 45. Funds to establish an American burying beetle colony. 2016. **Hoback, W.W.** Tulsa Zoo. \$5,000.
 46. Proposal to establish and maintain a laboratory colony of American burying beetle at Oklahoma State University. 2016. **Hoback, W.W.** USFWS. \$20,000.
 47. 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.
 48. 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.
 49. Establishing long-term monitoring sites for the American burying beetle at McKelvie National Forest in Nebraska. 2015. US Forest Service. \$25,000.
 50. Purchase of SMART board and stereomicroscopes for improved teaching of entomology and plant pathology lecture and laboratories. **Hoback W.W.** and F. Ochoa Corona. 2015 CASNR Technology Student Fees. \$10,540.
- Univ. of Nebraska-Kearney (Total \$2,829,222)*
51. 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.
 52. Effects of compaction and soil moisture on American burying beetles. 2013. **Hoback, W.W.** Nebraska Department of Roads. \$76,123.
 53. 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.
 54. Conservation status of ladybird beetles in Nebraska. 2012. **Hoback, W.W.** Nebraska Game and Parks Commission. \$10,000.
 55. Surveys for natural legacy Tier 1 and Tier 2 Lepidoptera. 2012. **Hoback, W.W.** Nebraska Game and Parks Commission. \$11,300.
 56. 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.
 57. Trap and relocate effects, overwintering, and impact of vehicles on American burying beetle. 2012. **Hoback, W.W.** Nebraska Department of Roads. \$64,534.
 58. Assessment of roadway culvert designs on aquatic organism passage. 2012. **Hoback, W.W.** Nebraska Department of Roads. \$93,820.

59. Platte River caddisfly response to tree removal. 2011. Cavallero, M. and **Hoback, W.W.** Headwaters Corporation. \$24,032.
60. Survey capture and relocation of American burying beetles for Nebraska Department of Roads. 2011. **Hoback, W.W.** Nebraska Department of Roads \$38,948.
61. Further studies to test bait away and overwintering biology of American burying beetle. 2011. **Hoback, W.W.** Nebraska Department of Roads. \$81,756.
62. Re-establishment of plains topminnow in historical locations. 2011. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks State Wildlife Grant. \$26,400.
63. 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.
64. Investigation of bait away methods for conservation of American burying beetle. 2010. **Hoback, W.W.** Nebraska Department of Roads. \$48,144.
65. Re-establishment of plains topminnow in historical locations. 2010. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks State Wildlife Grant. \$26,400.
66. 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.
67. Investigation of bait away methods for conservation of American burying beetle. **Hoback, W.W.** 2009. Nebraska department of Roads. \$39,218.
68. Assessment of threat by the introduced mosquitofish to caddisflies and amphibians. **Hoback, W.W.** 2009. U.S. Fish and Wildlife Service. \$10,430.
69. 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.
70. 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.
71. Environmental Education Equipment. 2008. K.M. Skinner and **Hoback, W.W.** Program of Excellence Awards, Department of Teacher Education, UNK. \$8,600.
72. LEEF II Package. 2008. **W.W. Hoback** and **Skinner, K.M.** LI-COR Environmental Education Fund. \$29,250.
73. Determination of seasonal activity pattern and moisture requirements for the American burying beetle. **Hoback, W.W.** 2008. Nebraska Department of Roads. \$32,598.
74. Grasshoppers of the Western United States: Regional Publication. R. Wright and **Hoback, W.W.** 2008. USDA APHIS. \$9,472.
75. Grasshoppers of the Western United States: Electronic identification and information tool development. R. Wright and **Hoback, W.W.** 2008. USDA APHIS. \$21,419.
76. Conservation status, habitat assessment, and model to predict occurrence of the Platte River caddisfly. **Hoback, W.W.** 2008. Nebraska Game and Parks. \$14,500.
77. Survey, capture, and relocation of American burying beetles in four roads projects, Nebraska. **Hoback, W.W.** 2008. Nebraska Department of Roads. \$15,000.
78. Investigation of pesticide impact on the American burying beetle. **Hoback, W.W.** 2008. U.S Fish and Wildlife Service. \$19,100.
79. 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.
80. Saltcedar biocontrol beetle release implementation at Lake McConaughy. 2007. Jurzenski, J. and **Hoback, W.W.** USDA APHIS. \$6,000.
81. 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.

82. 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.
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87. Survey for the Presence of American Burying Beetle. 2006. **Hoback, W.W.** Bureau of Reclamation. \$9,438.
88. Saltcedar biocontrol beetle release implementation at Harlan County Reservoir. 2006. **Hoback, W.W.** USDA APHIS. \$6,000.
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95. 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.
96. An investigation of salt cedar distribution and ecosystem effects at Harlan Reservoir, Nebraska. **Hoback, W.W.** 2005. Nebraska Department of Agriculture. \$20,000.
97. 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.
98. Limnological assessment of Harlan County Reservoir, 5 Year Renewal. Koupal, K. and **Hoback, W.W.** 2004. Nebraska Game and Parks. \$ 277,500.
99. Halsey National Forest response of American burying beetle to tree clearing". **Hoback, W.W.** 2004. National Forest Service. \$7,140.
100. 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.
101. 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.

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105. Survey, capture, and relocate American burying beetles in Wheeler County, Nebraska. 2004. **Hoback, W.W.** Nebraska Department of Roads. \$11,950.
106. 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.
107. Sherman Reservoir aquatic habitat assessment project. 2003. Koupal, K. and **Hoback, W.W.** Nebraska Game and Parks. \$82,750.
108. 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.
109. 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.
110. 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.
111. 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.
112. Investigation of wet meadow restoration success based on soil invertebrates. 2003. **Hoback, W.W.** Platte River Whooping Crane Maintenance Trust. \$16,000.
113. An undergraduate research program to investigate carrion beetles in Nebraska. 2003. **Hoback, W.W.** University of Nebraska at Kearney Priority Funds. \$15,400.
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117. 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.
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119. Improving Integrated Pest Management for Potato in Nebraska. 2001. **Hoback, W.W.**, Higley, L.G., and Hunt, T.E. Nebraska Potato Board. \$20,000.

120. 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.
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123. 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.
124. 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.
125. 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.
126. 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.
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128. Influence of flood control measures on survival of Salt Creek Tiger Beetle larvae. 1999. **Hoback, W.W.** Nebraska Conservation Department. \$ 400.
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2. Butler, S.R. and **Hoback, W.W.** 2012. *Burying beetle trapping and marking*. LAP Lambert Academic Publishing AG & Co. KG. 76 pgs. ISBN-13: 9783844394191
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15. Skinner, K.M. and **W.W. Hoback**. 2003. Web-based, active learning experiences for biology students. *Bioscene* 29: 23-29.
16. 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.
17. **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.
18. 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 FACT SHEETS

- Harman, A.J and W.W. Hoback. 2024. Grasshoppers of the Osage and Pawnee Nations in north-central Oklahoma. EPP-7343. 10 pp.
- Harman, A.J., W.W. Hoback, and T.A. Royer. 2022. Grasshoppers of the Cherokee Nation in Northeast Oklahoma. EPP- 7342, 10 pp.
- Harman, A.J., W.W. Hoback, and T.A. Royer. 2021. Grasshoppers of the Choctaw Nation in Southeast Oklahoma. EPP- 7341, 12 pp.
- Harman, A.J., W.W. Hoback, and T.A. Royer. 2020. Oklahoma's bird grasshoppers. EPP-7338. 4 pp.
- Bradt, D.L., Bradt, M.D., **Hoback, W.W.**, Coburn, L., Talley, J.L., and Noden, B.H. 2017. Guide to the twelve most-important Oklahoma mosquitoes of concern for pest control specialists. EPP-7335; 8 pp.
- 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-Samuels, 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.

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 (47)

Oklahoma State Univ.

1. Hoback, W.W. 2023. Research's role in emphasizing insects and society to overcome public perception that bugs are bad. Southwest Branch of the Entomological Society of America, Oklahoma City, OK.
2. Hoback, W. W. 2023. What every undergraduate should know from one entomology class. National Entomological Society of America annual meeting, National Harbor, Maryland.
3. Hoback, W. W. and Reed, M.L. 2022. Increasing entomological diversity: Experiences training Native American entomologists. SW Branch of the Entomological Society of America, Fort Worth, TX, invited presentation.
4. Hoback, W.W. 2022. A tickysituation, Addressing college student misconceptions about arthropods and risks. ESA National Meeting, Vancouver, BC.
5. Hoback, W.W. 2022. Natural history in unnatural places. Kansas State University, Department of Entomology.
6. Hoback, W.W. 2021. Environmental sustainability, entomology, and entomophagy. OSU Environmental Sciences Graduate Program.
7. Hoback, W.W. 2021. A section of their own: Increasing representation and opportunities for education and outreach membership. National Entomological Society Meeting, Denver, CO
8. Hoback, W.W. 2021. American burying beetles: Nature's recyclers. Yale Community Members. October.
9. Hoback, W.W. 2021. The story of cicadas. Tulsa MENSA meeting, September.
10. Hoback, W.W. 2020. Socially distanced teaching insect classification while being ADA compliant. National Entomological Society Meeting, virtual presentation.
11. Hoback, W.W. 2019. Breaking bads: What student feedback indicates about multiple

- choice exams. Annual meeting of the Entomological Society of American, St. Louis, MO.
12. Hoback, W.W. 2018. Engaging students in non-majors courses. CASNR Teaching Workshop. Oklahoma State University.
 13. Hoback, W.W. 2018. Challenges and opportunities of connecting continents through research and teaching. African Student Association. Oklahoma State University.
 14. Hoback, W.W. 2018. Oklahoma and 38 nations: Recruiting Native American students to learn entomology and serve their communities. North Central Branch of the Entomological Society of America. Madison, WI
 15. Hoback, W.W. 2017. How Darwin did it: Good teaching starts with natural history observations. Entomology and Plant Pathology Graduate Student luncheon.
 16. Hoback, W.W. 2017. American burying beetles: Biology and conservation strategies for north and south. Wildlife and Energy Interaction Symposium. Kansas City, M.O.
 17. Hoback, W.W. 2017. The promise of biological control and the reality of ecology in managed environments. SICONBIOL Jaboticabal - SP – Brazil.
 18. Hoback, W.W. 2017. Creative research and testing untested assumptions. Botucatu- SP- Brazil.
 19. Hoback, W.W. 2016. Evaluating American burying beetle life history through laboratory and field experiments. Oklahoma Academy of Sciences, Roman Nose State Park, Oklahoma.
 20. Hoback, W.W. 2015. How natural history observation has enhanced my research and teaching career. University of Arkansas, Fayetteville, AR.
 21. 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.
 22. 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

23. 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.
24. 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.
25. Hoback, W.W. 2013. Hands-on learning at a distance: Online tertiary education for basic and applied sciences. Daffodil International University, Dhaka, Bangladesh.
26. 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.
27. Hoback, W.W. 2012. Impacts of the Brazilian tropical rainforest on the region and the world. Fiends Select High School. Philadelphia, PA.
28. 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.
29. Hoback, W.W. 2011. What to do about American burying beetle. Nebraska Department of Roads, Valentine, NE.
30. 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.
31. Hoback, W.W. 2007. The role of undergraduate research in small college science education. National Entomological Society Meeting, San Diego, OH.
 32. Hoback, W.W. 2006. Bits and bytes: Electronic materials, laboratory resources and reviews. National Entomological Society Meeting, Indianapolis, IN.
 33. Hoback, W.W. Unique perspectives at a teaching university. 2005. North Central Branch of the Entomological Society of America, West Lafayette, IN.
 34. 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.
 35. Fryda, N., Koupal, K., and Hoback, W.W. 2004. Assessing fish entrainment in an irrigation reservoir. Great Plains Limnology Conference, Springfield, MO.
 36. 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.
 37. Hoback, W.W. 2004. Carrion Beetle Ecology and Investigations on the Federally Endangered American Burying Beetle in Nebraska. Kansas State University, Manhattan, KS.
 38. Hoback, W.W. and L.G. Higley. 2003. Testing the limits of distance education: Laboratory instruction. National Entomological Society Meeting. Cincinnati, OH
 39. Hoback, W.W. 2003. Habitat use, physiology, and competition among salt marsh tiger beetles. Oklahoma State University, Stillwater, OK.
 40. 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.
 41. 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.
 42. Hoback W.W. and Skinner, K.M. 2001. Biological Control and Risk. Annual meeting of the Entomological Society of America, San Diego, CA.
 43. 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.
 44. 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.
 45. 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
 46. Hoback, W.W. 1999. Playing to the crowd: audience-friendly multimedia development. North Central Branch Meeting, Ames, IA.
 47. Hoback, W.W. 1998. Flood tolerance and community structure in tiger beetles. Southwest Missouri State University, Springfield, MO.

SUBMITTED PRESENTATIONS (305- 128 Oklahoma State; 277 Nebraska)

Oklahoma State Univ.

1. Hittson, S., Cavallero, M. and Hoback, W.W. 2023. Killing the buriers of the dead: Non-target effects of pesticides on burying beetles. Entomological Society of America

- National meeting, National Harbor, Maryland. Oral presentation.
2. Jones, G., Hoback, W.W., and Long, J. 2023. Benefits to being fishless: Macroinvertebrate communities differ in recently flooded artificial ponds with and without fish. Entomological Society of America National meeting, National Harbor, Maryland. Oral presentation.
 3. Harman, A. and Hoback, W.W. 2023. Prescribed fire to keep the ones you want: Grasshopper species composition is altered with burn timing. Entomological Society of America National meeting, National Harbor, Maryland. Oral presentation.
 4. England, F., Harman, A., and Hoback, W.W. 2023. Combing insect webs: Uncovering the distribution of Embioptera in Oklahoma. Entomological Society of America National meeting, National Harbor, Maryland. Oral presentation.
 5. Soares, R., Hoback, W.W., Taley, J., Anderson, M., Seuhs, K., and Rohla, C. 2023. Cowpies, pecans, flies, and dung beetles: Insect response to intensive grazing in pecan orchard ecosystems. Entomological Society of America National meeting, National Harbor, Maryland. Oral presentation.
 6. Middleton, G., Hoback, W.W., and Fuhlendorf, S. 2023. Bison after burns benefits dung beetle abundance in the Southern Great Plains. Entomological Society of America National meeting, National Harbor, Maryland. Oral presentation.
 7. Reed, M. and Hoback, W.W. 2023. Hunters of wigglers: A student laboratory activity to quantify odonate larvae eating mosquito larvae. Entomological Society of America National meeting, National Harbor, Maryland. Poster presentation.
 8. Hittson, S. and Hoback, W.W. 2023. Timing is everything: Threatened American burying beetle population estimates differ across the season in Oklahoma. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Poster presentation.
 9. Middleton, G. and Hoback, W.W. Dung beetles: Challenges of preserving ecosystem providers. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Oral. Presentation.
 10. McMurry, S. and Hoback, W.W. 2023. Rearing the American burying beetle, *Nicrophorus americanus* at Oklahoma State University. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Oral presentation.
 11. Jones, G., Hoback, W.W., and Long, J. Fish and macroinvertebrate communities in recently flooded ponds. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Poster presentation.
 12. Reed, M. and Hoback, W.W. 2023. What does an entomologist look like? Student scientist drawings are influenced by instructor gender. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Oral presentation.
 13. Harman, A. and Hoback, W.W. 2023. Utilizing prescribed burning to selectively manage grasshoppers in the southern Great Plains. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Oral presentation.
 14. Shaw, E. 2023. Field and laboratory tests on Oklahoma's meat-eating dung beetle. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Oral presentation.
 15. Osborn, L., Hoback, W.W., Golick, D., and Parkison, A. 2023. The etymology or entomology: Science education through creative writing. Oral presentation.
 16. Hoback, W.W., Caruso, T., and Cavallero, M. Nontarget exposure of dung and carrion beetles to neonicotinoids. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Oral presentation.
 17. Hayashida, R., Armstrong, J.S., Hoback, W.W. and Mornhinweg, D. 2023. Morphological and physiological responses of resistant and susceptible barley to different

densities of bird cherry-oat aphid (*Rhopalosiphum padi* [Hemiptera:Aphididae])
Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Oral
presentation.

18. Boren, D., Harman, A., and Hoback, W.W. 2023. Big city hoppers: Grasshopper diversity in urban parks in central Oklahoma. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Poster presentation.
19. Soares, R., Oliveira, R., and Hoback, W.W. 2023. Killing the young: Release of egg parasitoid limits brown stink bug in Brazilian soybean. Southwest Branch of the Entomological Society of America, Oklahoma City, OK. Poster presentation.

*full list available on request.

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

Entomological Society of America
Oklahoma Academy of Sciences
North American College Teachers of Agriculture
Kansas Entomological Society
Coleopterists' Society
Xerces Society