

KIMBERLY A. WITH

Division of Biology, Kansas State University, Manhattan, KS 66506
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POSITIONS

- 2012-present: Full Professor, Division of Biology, Kansas State University
2002-2011: Associate Professor, Division of Biology, Kansas State University
2001-2011: Ancillary Faculty, Department of Entomology, Kansas State University
2000-2001: Assistant Professor; Division of Biology, Kansas State University, Manhattan
1995-2000: Assistant Professor; Department of Biological Sciences, Bowling Green State University, Ohio
1993-1995: Alexander Hollaender Distinguished Postdoctoral Fellow; Environmental Sciences Division, Oak Ridge National Laboratory, Tennessee
Supervisors: Robert H. Gardner and Monica G. Turner

EDUCATION

- 1993 Ph.D. Biology Colorado State University Advisor: John A. Wiens
Dissertation Title: *The translation of patterns across scales: analysis of movement patterns in a grassland mosaic*
1988 M.S. Biology Northern Arizona University Advisor: Russell P. Balda
Thesis Title: *Factors affecting parental care in western bluebirds: a comparison of nestling and fledgling periods.*
1985 B.S. Biology (vertebrate zoology emphasis), minor in Chemistry, Pre-Veterinary Program San Francisco State University *Magna cum laude*

HONORS AND AWARDS

- 2008: Plenary speaker, U.S.–International Association of Landscape Ecology, Madison, WI.
2002: Award for Outstanding Paper published in the discipline of Landscape Ecology (K. A. With and A. W. King. 2001. Analysis of landscape sources and sinks: the effect of spatial pattern on avian demography. *Biological Conservation* 100: 75-88); US-IALE
2000: Elective Member, American Ornithologists' Union
1999: Outstanding Young Scientist Award for Distinguished Research, Sigma Xi, BGSU Chapter
1996: Award for Outstanding Paper published in the discipline of Landscape Ecology (K. A. With and T. O. Crist. 1995. Critical thresholds in species' responses to landscape structure. *Ecology* 76: 2446-2459); US-IALE

PROFESSIONAL OFFICES

- 2007-2012: Editorial Board, *Ecosystems*
2006-2009: Editor, The Americas (Zoological Subject Matter), *Biological Conservation*; handled >400 manuscripts
2005: Ecology Faculty Member, Faculty of 1000 Biology, Spatial & Landscape Ecology section
2003-2005: US-IALE: 2010 Strategic Planning Committee, U.S.–International Association of Landscape Ecology
1998-2005: Editorial Board, *Landscape Ecology*; handled ~75 manuscripts

- 1998-2000: Councillor-at-large, U.S.–International Association of Landscape Ecology
1997-1999: Strategic Planning Committee, U.S.–International Association of Landscape Ecology
1995-1997: Secretary/Treasurer, Theoretical Ecology Section, Ecological Society of America

PUBLICATIONS

Peer-reviewed Journals

Total citations: >3,400; h-index = 24; \bar{x} citations/year = 126.7 (\bar{x} = 326/year 2007-2011, range = 279-377, n = 5 years); \bar{x} citations/item = 71.3; papers cited >200 times = 4, papers cited >100 times = 10; papers cited >50 times = 16 (Web of ScienceSM)

49. **With, K. A.**, and D. M. Pavuk. 2012. Direct versus indirect effects of habitat fragmentation on community patterns in experimental landscapes. *Oecologia*: in press.
48. Klug, P. E., J. Fill, and **K. A. With**. 2011. Spatial ecology of eastern yellowbelly racer (*Coluber constrictor flaviventris*) and Great Plains rat snake (*Pantherophis emoryi*) in a contiguous tallgrass-prairie landscape. *Herpetologica* 67: 428-439.
47. Blevins, E., S. M. Wisely, and **K. A. With**. 2011. Historical processes and landscape context influence genetic structure in peripheral populations of the collared lizard (*Crotaphytus collaris*). *Landscape Ecology* 26: 1125-1136.
46. **With, K. A.**, and D. M. Pavuk. 2011. Habitat area trumps fragmentation effects on arthropods in an experimental landscape system. *Landscape Ecology* 26: 1035-1048.
45. Blevins, E., and **K. A. With**. 2011. Landscape context matters: local vs. landscape effects on abundance and patch occupancy of collared lizards in managed grasslands. *Landscape Ecology* 26: 837-850.
44. Klug, P. E., S. M. Wisely, and **K. A. With**. 2011. Population genetic structure and landscape connectivity of the Eastern Yellowbelly Racer (*Coluber constrictor flaviventris*) in the tallgrass prairie of northeastern Kansas, USA. *Landscape Ecology* 26: 281-294.
43. Romero, S., J. F. Campbell, J. R. Nechols, and **K. A. With**. 2010. Search behavior of red flour beetle: response to habitat cues and patch boundaries. *Environmental Entomology* 39:919-929.
42. Klug, P. E., S. L. Jackrel, and **K. A. With**. 2010. Linking snake habitat use to nest predation risk in grassland birds: the dangers of shrub cover. *Oecologia* 162:803-813.
41. Klug, P. E., **K. A. With**, and S. M. Wisely. 2009. Microsatellite isolation and development in the Eastern yellowbelly racer (*Coluber constrictor flaviventris*) for use in landscape genetic studies. (Molecular Ecology Resources database accessions 37758–37769). <http://tomato.biol.trinity.edu/>. Cited as: Molecular Ecology Resources Primer Development Consortium et al. 2009. Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009–31 July 2009. *Molecular Ecology Resources* 9: 1460-1466.
40. Long, A. M., W. E. Jensen, and **K. A. With**. 2009. Nest orientation in the Grasshopper Sparrow and Eastern Meadowlark in relation to wind direction. *Condor* 111: 395-399.
39. Margosian, M. L. K. A. Garrett, J. M. S. Hutchinson, and **K. A. With**. 2009. Connectivity of the American agricultural landscape: Assessing the national risk of disease and crop pest spread. *BioScience* 59: 141-151.
38. Romero, S., J. F. Campbell, J. R. Nechols, and **K. A. With**. 2009. Movement behavior in response to landscape structure: role of functional grain. *Landscape Ecology* 24: 39-51.

37. Rahmig, C. J., W. E. Jensen, and **K. A. With**. 2009. Grassland bird responses to land management in the largest remaining tallgrass prairie. *Conservation Biology* 23:420-432.
36. **With, K. A.**, A. W. King, and W. E. Jensen. 2008. Remaining large grasslands may not be sufficient to prevent grassland bird declines. *Biological Conservation* 141: 3152-3167.
–**Featured on science-based websites:** ScienceDaily: “Birds In Flint Hills of Kansas, Oklahoma Face Population Decline Despite Large Habitat” (3/3/09); EurekAlert! (3/3/09); LabSpaces.net: “Birds face population decline despite large habitat” (3/3/09); FirstScience.com: “Birds in Flint Hills of Kansas, Oklahoma face population decline despite large habitat” (3/3/09); e! Science News (3/3/09); Science Centric (3/4/09)
–**Featured newspaper articles:** Topeka Capital-Journal: “Birds declining in Flint Hills: A study spearheaded by a Kansas State University professor indicates three bird species common to the Flint Hills are declining in population” (3/22/09); Manhattan Mercury (Kansas): “Prairie Life Getting Tougher on Bird Species” (3/23/09)
–**Picked up by the Associated Press** and published in abbreviated form in papers nationwide
35. Frey, C. M., W. E. Jensen, and **K. A. With**. 2008. Topographic patterns of nest placement and habitat quality for grassland birds in the Flint Hills. *American Midland Naturalist* 160: 220-234.
34. Scheiman, D. M., J. B. Dunning, Jr., and **K. A. With**. 2007. Metapopulation dynamics of Bobolinks occupying agricultural grasslands in the Midwestern United States. *American Midland Naturalist* 158: 415-423.
33. **With, K. A.**, G. R. Schrott, and A. W. King. 2006. The implications of metalandscape connectivity for population viability in migratory songbirds. *Landscape Ecology* 21: 157-167.
32. Schrott, G. A., **K. A. With**, and A. W. King. 2005b. Demographic limitations of the ability of habitat restoration to rescue declining populations. *Conservation Biology* 19: 1181-1193.
31. Schrott, G. R., **K. A. With**, and A. W. King. 2005a. On the importance of landscape history for assessing extinction risk. *Ecological Applications* 15: 493-506.
30. **With, K. A.**, and A. W. King. 2004. The effect of landscape structure on community self-organization and critical biodiversity. *Ecological Modelling* 179: 349-366.
29. **With, K. A.** 2004. Assessing the risk of invasive spread in fragmented landscapes. *Risk Analysis* 24: 803-815. **"Recommended" by Faculty of 1000 Biology**
28. **With, K. A.** 2002. The landscape ecology of invasive spread. *Conservation Biology* 16: 1192-1203. **Cited >200 times**
27. **With, K. A.**, D. M. Pavuk, J. L. Worchuck, R. K. Oates, and J. L. Fisher. 2002. Threshold effects of landscape structure on biological control in agroecosystems. *Ecological Applications* 12: 52-65.
26. King, A. W., and **K. A. With**. 2002. Dispersal success in spatially structured landscapes: when do spatial pattern and dispersal behavior really matter? *Ecological Modelling* 147: 23-39. **Cited >95 times**
25. Sakai, A. K., F. W. Allendorf, J. S. Holt, D. M. Lodge, J. Molofsky, **K. A. With**, S. Baughman, R. J. Cabin, J. E. Cohen, N. C. Ellstrand, D. E. McCauley, P. O'Neill, I. M.

- Parker, J. N. Thompson, and S. G. Weller. 2001. The population biology of invasive species. *Annual Review of Ecology and Systematics* 32: 305-332. **Cited >950 times**
24. **With, K. A.**, and A. W. King. 2001. Analysis of landscape sources and sinks: the effect of spatial pattern on avian demography. *Biological Conservation* 100: 75-88. **Recipient of the 2002 Award for Outstanding Paper published in the field of landscape ecology (US-IALE)**
 23. **With, K. A.**, S. J. Cadaret, and C. Davis. 1999. Movement responses to patch structure in experimental fractal landscapes. *Ecology* 80: 1340-1353. **Cited >100 times**
 22. **With, K. A.**, and A. W. King. 1999. Extinction thresholds for species in fractal landscapes. *Conservation Biology* 13: 314-326. **Cited >150 times**
 21. **With, K. A.**, and A. W. King. 1999. Dispersal success in fractal landscapes: a consequence of lacunarity thresholds. *Landscape Ecology* 14: 73-82. **Cited >100 times**
 20. **With, K. A.** 1997. The theory of conservation biology. *Conservation Biology* 11: 1436-1440.
 19. **With, K. A.** 1997. The application of neutral landscape models in conservation biology. *Conservation Biology* 11: 1069-1080. **Cited >100 times**
 18. **With, K. A.**, and A. W. King. 1997. The use and misuse of neutral landscape models in ecology. *Oikos* 79: 219-229. **Cited >100 times**
 17. **With, K. A.**, R. H. Gardner, and M. G. Turner. 1997. Landscape connectivity and population distributions in heterogeneous environments. *Oikos* 78: 151-169. **Cited >250 times**
 16. **With, K. A.**, and T. O. Crist. 1996. Translating across scales: simulating species distributions as the aggregate response of individuals to heterogeneity. *Ecological Modelling* 93: 125-137.
 15. **With, K. A.**, and T. O. Crist. 1995. Critical thresholds in species' responses to landscape structure. *Ecology* 76: 2446-2459. **Cited >350 times; Recipient of the 1996 Award for Outstanding Paper published in the field of landscape ecology (US-IALE)**
 14. Wiens, J. A., T. O. Crist, **K. A. With**, and B. T. Milne. 1995. Fractal patterns of insect movement in microlandscape mosaics. *Ecology* 76: 663-666. **Cited >95 times**
 13. **With, K. A.** 1994. Ontogenetic shifts in how grasshoppers interact with landscape structure: an analysis of movement patterns. *Functional Ecology* 8: 477-485.
 12. **With, K. A.** 1994. Using fractal analysis to assess how species perceive landscape structure. *Landscape Ecology* 9: 25-36. **Cited >100 times**
 11. **With, K. A.** 1994. The hazards of nesting near shrubs for a grassland bird, the McCown's Longspur. *Condor* 96: 1009-1019.
 10. **With, K. A.** and D. R. Webb. 1993. Microclimate of ground nests: the relative importance of radiative cover and wind breaks for three grassland species. *Condor* 95: 401-413.
 9. **With, K. A.**, and M. L. Morrison. 1990. Flock formation of two parids in relation to cyclical seed production in a pinyon-juniper woodland. *Auk* 107: 522-532.
 8. **With, K. A.**, and R. P. Balda. 1990. Intersexual variation and factors affecting parental care in Western Bluebirds: a comparison of nestling and fledgling periods. *Canadian Journal of Zoology* 68: 733-742.
 7. Morrison, M. L., **K. A. With**, I. C. Timossi, and K. A. Milne. 1987. Composition and temporal variation of flocks in the Sierra Nevada. *Condor* 89: 739-745.
 6. Block, W. M., **K. A. With**, and M. L. Morrison. 1987. On measuring bird habitat: influence

- of observer variability and sample size. *Condor* 89: 241-251.
5. Morrison, M. L., **K. A. With**, I. C. Timossi, W. M. Block, and K. A. Milne. 1987. Foraging behavior of bark-foraging birds in the Sierra Nevada. *Condor* 89: 210-204.
 4. Morrison, M. L., and **K. A. With**. 1987. Interseasonal and intersexual resource partitioning in Hairy and White-headed woodpeckers. *Auk* 104: 225-233.
 3. Morrison, M. L., I. C. Timossi, and **K. A. With**. 1987. Development and testing of linear regression models predicting bird-habitat relationships. *Journal of Wildlife Management* 51: 247-253.
 2. Morrison, M. L., **K. A. With**, and I. C. Timossi. 1986. The structure of a forest bird community during winter and summer. *Wilson Bulletin* 98: 214-230.
 1. Morrison, M. L., I. C. Timossi, **K. A. With**, and P. N. Manley. 1985. Use of tree species by forest birds during winter and summer. *Journal of Wildlife Management* 49: 1098-1102.

Book Chapters

9. **With, K. A.** 2007. The ghosts of landscapes past haunt the landscape ecology of the present...and the future. Pp. 43-58 in *Temporal Explicitness in Landscape Ecology: Wildlife Responses to Changes in Time* (J. A. Bissonette and I. Storch, Editors). Springer-Verlag, New York. (Peer reviewed)
8. Taylor, P., L. Fahrig, and **K. A. With**. 2006. Landscape connectivity: back to the basics. Pp. 29-43 in *Connectivity Conservation* (K. Crooks and M. Sanjayan, Editors). Cambridge University Press, Cambridge, UK. (Peer reviewed)
7. **With, K. A.** 2005. Case Study: Assessing extinction risk in Neotropical migratory songbirds: the need for landscape-based demographic models. Pp. 449-453 in *Principles of Conservation Biology*, 3rd edition (M. Groom, G. K. Meffe, C. R. Carroll, and contributors). Sinauer, Massachusetts
6. **With, K. A.** 2005. Landscape conservation: a new paradigm for the conservation of biodiversity. Pp. 238-247 in *Issues and Perspectives in Landscape Ecology* (J. A. Wiens and M. R. Moss, editors). Cambridge University Press, United Kingdom.
5. **With, K. A.** 2004. Metapopulation dynamics: perspectives from landscape ecology. Pages 23-44 in *Metapopulation Dynamics: Ecology, Genetics, and Evolution of Metapopulations* (I. Hanski and O. E. Gaggiotti, editors). Academic Press, San Diego, CA.(Peer reviewed)
4. **With, K. A.** 2002. Using percolation theory to assess landscape connectivity and the effects of habitat fragmentation. Pages 105-130 In *Applying Landscape Ecology in Biological Conservation* (K. J. Gutzwiller, editor). Springer-Verlag, New York. (Peer reviewed)
3. **With, K. A.** 2002. Landscape connectivity and metapopulation dynamics. Pages 208-227 In *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques* (S.E. Gergel and M. G. Turner, editors). Springer-Verlag, New York.(Peer reviewed)
2. **With, K. A.** 1999. Is landscape connectivity necessary and sufficient for wildlife management? Pp. 97-115 In *Forest Fragmentation: Wildlife and Management Implications* (J. A. Rochelle, L. A. Lehmann, and J. Wisniewski, editors). Brill Academic Publishers, Leiden, The Netherlands. (Peer reviewed)
1. **With, K. A.** 1994/2010 (updated). McCown's Longspur (*Calcarius mccownii*). *In* The Birds of North America, No. 96 (A. Poole and F. Gill, eds.). Philadelphia: The Academy of Natural Sciences; Washington, DC.: The American Ornithologists' Union. (Peer reviewed)

Book Reviews

- With, K. A.** 2003. How to Excel in conservation biology. *Conservation Biology* 17: 931-933.
- With, K. A.** 2000. Fragile Dominion: complexity and the commons. *Quarterly Review of Biology* 75: 346-348.
- With, K. A.** 1997. Null models in community ecology. *Ecology* 78: 2642-2643.

RESEARCH GRANTS

Extramural Awards

- Garrett, K. A. (PI), C. Scoglio, **K. A. With**, and S. Hutchinson. *Optimizing strategies for rapid response*. USDA APHIS Farm Bill 10201, \$113,460. Funding Period: 1 September 2011-31 August 2012.
- Mundt, C. (PI), K. A. Garrett, **K. A. With**, J.P. Stack, and X.B. Yang. Collaborative Research: *Epidemic waves, landscape heterogeneity, and spatial scale*. Ecology of Infectious Disease, National Science Foundation, \$1,362,000 (KSU: \$363,000) (EF-0525712). Funding Period: 1 October 2005-30 September 2011.
- Dodds, W. K. (PI), **K. A. With**, K. B. Gido, and J. K. Koelliker. *Ecosystem thresholds and alternate states in Great Plains rivers and streams: cascading effects of anthropogenic hydrologic disturbance*. RFA: Understanding Ecological Thresholds Through Retrospective Analysis, Science to Achieve Results Program, Environmental Protection Agency (GOB0600105), \$299,566. Funding Period: 11 July 2005-10 July 2008.
- With, K. A. (PI)** *A regional assessment of population viability for grassland birds in agroecosystems*. Managed Ecosystems Program, USDA-CREES NRI Competitive Grants Program, \$350,000. Funding Period: 1 September 2003-31 August 2007.
- With, K. A. (PI)** *Assessment of extinction risk in dynamic landscapes*. RFA: Wildlife Risk Assessment—Area 2, Science to Achieve Results Program, Environmental Protection Agency (R82-909001), \$219,415. Funding Period: 29 October 2001-30 April 2004.
- With, K. A. (PI)**, and D. M. Pavuk. *The effect of habitat fragmentation on biodiversity and trophic linkages in experimental fractal landscapes*. Conservation and Restoration Biology Program, National Science Foundation (DEB-9610159), \$65,000 (includes 2 REU Supplemental Grants). Funding period: 15 August 1997-14 August 1999.
- With, K. A. (PI)**, and R. N. Kappel, III. *Habitat utilization by the endangered gray bat, *Myotis grisescens**. Georgia Department of Natural Resources, Wildlife Resources Division, \$4929. Funding period: 1 January - 1 September 1997.
- With, K. A. (PI)**, and A. H. Porter. *The application of neutral landscape models to conservation biology*. Conservation and Restoration Biology Program, National Science Foundation (DEB-9532079), \$75,000. Funding period: 19 June 1996-18 June 1998.

Intramural Awards

- With, K.A.** (with Emilie Blevins) *Are current land-management practices altering landscape permeability and population connectivity in the Flint Hills?* University Small Research Grant Program, Kansas State University, \$3000. Funding Period: November 2008-November 2009.
- With, K. A.** (with Page E. Klug) *Using landscape genetics of an elusive predator to assess predation risk and ecological traps for grassland birds*. Biology Research and Instruction Enhancement Fund, \$5515. Funding Period: 1 May 2007-31 May 2008.

- With, K. A.**, and S. M. Wisely (with Page E. Klug) *Using landscape genetics of an elusive predator to assess predation risk and ecological traps for grassland birds.* August 2007-2009. EGI-KSU Bulk Fragment Analysis and Genotyping Grant, \$5000. Funding Period: August 2007-2009.
- With, K. A.** (with Page E. Klug) *Using landscape genetics of an elusive predator to assess predation risk and ecological traps for grassland birds.* USRG, \$3000. Funding Period: 1 July 2007-30 June 2008.
- With, K. A.**, and A. K. Knapp. *Dynamics of resource availability and the invasion of grasslands by exotic species.* Mentoring Fellowship for Women in Sciences and Engineering, Kansas State University, \$6000. Funding Period: 1 July 2001-30 June 2002.
- With, K. A.** *An integrative approach to conservation and biological control in a landscape mosaic: forest fragments in an agroecosystem context.* Faculty Research Committee Major Grant Award, Bowling Green State University, \$9990. Funding period: 1 July 1996-30 June 1997.

PRESENTATIONS

Keynote Address/Plenary Speaker

- 2008: **Plenary:** *Landscape function and dysfunctional landscapes: uncoupling pattern from process.* U.S.-International Association for Landscape Ecology, Madison, WI.
- 2001: **Keynote address:** *The effect of landscape structure on critical biodiversity;* Annual Spring Symposium, Madison Ecology Group, University of Wisconsin–Madison.

Invited Institutional Seminars

30. March 2012. *Fragmentation effects on arthropod communities in experimental landscapes.* Department of Entomology, Kansas State University, Manhattan.
29. January 2012. *Effects of landscape structure on population dynamics: Implications for conservation and management.* Shortcourse on Landscape Ecology in Theory and Practice: Application to Land Management; Northern Arizona University, Flagstaff. Organized by Dr. Kevin McGarigal (University of Massachusetts, Amherst) and Dr. Samuel Cushman (US Forest Service Rocky Mountain Research Station, NAU). Required for certification of forest service employees in the National Advanced Silviculture Program.
28. May 2011. *Effects of landscape structure on population dynamics: Implications for conservation and management.* Shortcourse on Landscape Ecology in Theory and Practice: Application to Land Management; Northern Arizona University, Flagstaff. Organized by Dr. Kevin McGarigal (University of Massachusetts, Amherst) and Dr. Samuel Cushman (US Forest Service Rocky Mountain Research Station, NAU). Open course for students from any institution or agency.
27. April 2011. *Are the Flint Hills a regional population source....or sink...for grassland birds? Or, why metalandscape connectivity is so important!* Department of Natural Resource Ecology and Management, Oklahoma State University.
26. January 2011. *Effects of landscape structure on population dynamics: Implications for conservation and management.* Shortcourse on Landscape Ecology in Theory and Practice: Application to Land Management; Northern Arizona University, Flagstaff. Organized by Dr. Kevin McGarigal (University of Massachusetts, Amherst) and Dr. Samuel Cushman (US Forest Service Rocky Mountain Research Station, NAU). Required

- for certification of forest service employees in the National Advanced Silviculture Program.
25. April 2010. Series of invited lectures (3) and laboratory exercises (2) related to graduate-level course on *Landscapes, Resilience and Sustainability: Conceptual Basis, Methods and Practice* (BIOL 6990–Topics in Modern Biology) at the University of Puerto Rico–Rio Piedras (organized by Dr. Carla Restrepo).
 - *Landscape connectivity: Concepts, methods and applications*
 - Departmental Seminar: *Landscape function and dysfunctional landscapes: The uncoupling of landscape pattern and ecological process*
 - *Landscape effects on invasive spread*
 - Labs: Introduction to Neutral Landscape Models; Landscape Effects on Disease Spread
 24. October 2008. *Regional source-sink dynamics and metalandscape connectivity of grassland birds: an unfolding conservation crisis?* Department of Ecology and Evolutionary Biology, University of Colorado—Boulder.
 23. May 2008. *Regional source-sink dynamics and metalandscape connectivity of grassland birds: an unfolding conservation crisis?* Department of Biology, Carleton University, Ottawa, Ontario, Canada
 22. March 2008. *Is the largest remaining tallgrass landscape really a population stronghold for grassland birds?* Purdue University, West Lafayette, Indiana.
 21. October 2007. *Are the Flint Hills a population source....or sink....for grassland birds?* Department of Zoology, University of Oklahoma.
 20. September 2006. *Rapidly changing landscapes and slow-changing populations: what's a songbird to do?* Division of Biological Sciences, University of Missouri, Columbia.
 19. April 2006. *Rapidly changing landscapes and slow-changing populations: what's a songbird to do?* Department of Biological Sciences, University of Arkansas, Fayetteville.
 18. September 2005. *Rapidly changing landscapes and slow-changing populations: what's a songbird to do?* Michigan State University, East Lansing.
 17. March 22-24, 2004. Series of invited lectures involving the implications of ecological thresholds in conservation biology, given to students/faculty affiliated with a course on local and regional dynamics hosted by Swedish University (SLU-Uppsala) and Linköping University held near Uppsala, Sweden (organized by Dr. Uno Wennergren). Course included participants from seven universities throughout Sweden:
 - *Neutral landscape models: the search for critical thresholds in landscape connectivity*
 - *Extinction thresholds in fragmented landscapes*
 - *Evaluating the source-sink potential of landscapes for migratory songbird populations*
 - *Biocontrol thresholds in fragmented landscapes*
 16. April 2002. *Extinction thresholds in fragmented landscapes: assessing the source-sink potential of landscape populations.* Purdue University, West Lafayette, Indiana.
 15. February 2002. *Thresholds in conservation: when is a little more habitat loss too much?* Invited seminar as part of the “Emerging Disciplines in Forest and Ecosystem Science” series of the College of Forest Resources, University of Washington, Seattle.

14. April 2001. *Threshold effects of landscape structure on biological control in agroecosystems*. Department of Entomology, Kansas State University, Manhattan.
13. March 2001. *Thresholds in conservation: when is a little more habitat loss too much?* General university-wide address, University of Wisconsin–Madison.
12. October 2000. *Extinction thresholds and the analysis of population sources and sinks for Neotropical migrants in fragmented landscapes*. Appalachian Environmental Laboratory, University of Maryland, Frostburg.
11. April 2000. *How much habitat can be destroyed before landscapes become fragmented and species go extinct?* St. Louis University, Missouri.
10. March 2000. *How much habitat can be destroyed before landscapes become fragmented and species go extinct?* Ohio State University, Columbus.
9. December 1999. *Population persistence in fragmented landscapes: linking demographic and neutral landscape models*. Division of Biology, Kansas State University, Manhattan.
8. November 1999. *Population persistence in fragmented landscapes: linking demographic and neutral landscape models*. Department of Environmental and Forest Biology, State University of New York, College of Environmental Science and Forestry, Syracuse.
7. November 1999. *When do landscapes become fragmented? Assessing landscape sources and sinks for neotropical migratory songbirds*. Greater Cleveland Audubon Society, Cleveland Museum of Natural History, Ohio.
6. February 1998. *Extinction thresholds for species in fragmented landscapes*. Department of Biology, University of Toledo, Ohio.
5. January 1997. Two presentations given to the Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins:
 - *Using neutral landscape models to define species' perceptions of landscape structure*.
 - *Extinction thresholds for species in fragmented landscapes*
4. March 1996. *Using neutral landscape models to predict critical thresholds in species' responses to landscape structure*. Department of Zoology, Arizona State University, Tempe.
3. March 1995. *Critical thresholds in species' responses to habitat fragmentation*. Department of Zoology, North Carolina State University, Raleigh.
2. February 1995. *Critical thresholds in species' responses to habitat fragmentation: the application of neutral models in conservation biology*. Department of Biological Sciences, Bowling Green State University, Ohio.
1. January 1995. *Factors affecting nest placement in a grassland bird: the relative roles of microclimate and predation*. Department of Biology, Mars Hill College, Mars Hill, North Carolina.

Invited Presentations: National and International Conferences

21. **With, K. A.** and A. W. King. 2010. Does order beget order? Self-organization and critical biodiversity in heterogeneous landscapes. 1st Annual International Forum for Ecosystem Management Applying to Ecosystem Adaptability Science on the "Robustness and Stability of Organisms and Ecosystems," Sendai International Center, Sendai, Japan.
20. **With, K. A.** 2009. Ten things every landscape ecologist needs to know: A view from North America. Symposium on *Promoting Landscape Ecology in Latin America and Elseworld: Ten Things Every Landscape Ecologist Needs to Know—Perspectives from*

- around the World. Latin America International Association for Landscape Ecology Conference, Campos do Jordão, São Paulo, Brazil.
19. Garrett, K. A., M. L. Margosian, J. M. S. Hutchinson, and **K. A. With**. 2008. Connectivity of the American agricultural landscape: Applying graph theory to assess the national risk of crop pest and disease spread. Organized oral session: *Theoretical Perspectives in Agroecology*, Ecological Society of America, Milwaukee, WI.
 18. **With, K. A.** 2008. Regional source-sink dynamics and metalandscape connectivity of grassland birds: an unfolding conservation crisis? Symposium on *Sources, Sinks and Sustainability: A Symposium in Honor of H. Ronald Pulliam*, U.S.-International Association for Landscape Ecology, Madison, WI.
 17. **With, K. A.**, A. W. King, and W. E. Jensen. 2006. A regional assessment of population viability for grassland birds in agricultural grasslands. Project Directors Meeting, USDA-CREES NRI Managed Ecosystems Program, Joint Meeting of the American Society of Agronomy, Crop Science Society of America and Soil Science Society of America, Indianapolis, IN.
 16. **With, K. A.** 2004. Dynamic landscape change and extinction risk in migratory songbirds: is habitat restoration the answer? First Annual Young Scientists Symposium—Spatial Ecology, Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor.
 15. **With, K. A.**, G. R. Schrott, and A. W. King. 2004. Metalandscape connectivity and regional population viability in migratory songbirds. Organized oral session: *Integrating Approaches to Connectivity: Landscapes, Patches and Networks*. Ecological Society of America, Portland, OR.
 14. **With, K. A.** 2004. The landscape ecology of invasive spread. Symposium: *Dispersal and Landscape Connectivity: Implications for Conservation*. Centre for Conservation Science, University of Stirling, Stirling, Scotland.
 13. **With, K. A.** 2004. Experimental model landscape systems. Workshop: Experimental models systems in community ecology. National Science Foundation, Arlington, VA.
 12. Schrott, G. R., **K. A. With**, and A. W. King. 2003. Assessment of extinction risk for migratory songbirds in dynamic landscapes. Symposium: *Habitat: quality, size and configuration and its role in population viability*. International Association for Landscape Ecology, Darwin, Northern Territory, Australia.
 11. **With, K. A.** 2002. Assessing the risk of invasive spread in fragmented landscapes. Symposium: *Risk analysis for invasive species: Contributions from theoretical ecology*. Society for Risk Analysis, New Orleans, LA.
 10. **With, K. A.** 2002. Assessing the risk of invasive spread in fragmented landscapes. Symposium: *Methods for assessing the risk of invasive spread: Theoretical ecology as a starting point*. Joint meeting of the Ecological Society of America and the Society for Ecological Restoration, Tucson, AZ.
 9. **With, K. A.**, and A. W. King. 2001. The effect of landscape structure on critical biodiversity. Symposium: *Complexity theory and ecological applications*. U.S. Regional Chapter of the International Association for Landscape Ecology, Arizona State University, Tempe.
 8. **With, K. A.** 2000. Why is a landscape ecological approach necessary for invasive species biology? Workshop: *Integrating Disciplines to Understand Invasive Species*. Ecological Society of America, Snowbird, UT.

7. **With, K. A.**, and A. W. King. 2000. Analysis of landscape sources and sinks: the effects of spatial pattern on avian demography. Symposium: *Spatial Ecology and Conservation*. Society for Conservation Biology, University of Montana, Missoula.
6. **With, K. A.**, and A. W. King. 1999. The consequences of habitat loss for population persistence: extinction thresholds in fragmented landscapes. Symposium: *Landscape Approaches to Evaluating the Ecological Consequences of Habitat Loss*. Spatial Ecology Conference: The Ecological, Evolutionary and Genetic Consequences of Habitat Loss. Helsinki, Finland.
5. **Wiens, J.A.**, and **K. A. With**. 1999. The future of experimental models systems in landscape ecology. Symposium: *Experimental Model Systems in Landscape Ecology*. Fifth World Congress of the International Association of Landscape Ecology, Snowmass Village, CO.
4. **With, K. A.**, and King, A. W. 1999. Extinction thresholds for species in fractal landscapes: a synthesis of metapopulation and neutral landscape models. Symposium: *The Ecological Consequences of Spatial Pattern: An Integration of Approaches from Spatial and Landscape Ecology*. Fifth World Congress of the International Association of Landscape Ecology, Snowmass Village, CO.
3. **With, K. A.** 1999. Predicting species' responses to habitat fragmentation: insights from neutral landscape models. Symposium: *Effects of Habitat Fragmentation on Western Bird Populations*, Cooper Ornithological Society, Portland, OR.
2. **With, K. A.** 1998. Is landscape connectivity necessary and sufficient for wildlife management? Forest Fragmentation: Wildlife and Management Implications Conference, Portland, OR.
1. **With, K. A.** 1996. What can theoretical ecology do for conservation biology? Symposium: *Interface of Theoretical Ecology and Conservation Biology*, joint meeting of the Ecological Society of America and the Society for Conservation Biology, Providence, RI.

Contributed Presentations: National and International Conferences

Oral presentations

23. **With, K. A.**, and D. M. Pavuk. 2011. Scale-dependent effects of habitat area and fragmentation on community patterns in experimental fractal landscapes. US-International Association for Landscape Ecology (US-IALE), Portland, OR.
22. **Skelsey, P.**, K. A. Garrett, and **K. A. With**. 2010. Interaction between pattern, process and scale in plant disease epidemics. American Phytopathological Society, Charlotte, NC.
21. **Klug, P. E.**, S. Wisely, and **K. With**. 2009. The influence of habitat management and landscape features on gene flow in the yellowbelly racer (*Coluber constrictor flaviventris*) in the tallgrass prairie. Ecological Society of America, Albuquerque, NM.
20. **With, K. A.**, A. W. King, and W. E. Jensen. 2007. Grassland birds are not viable in the largest remaining tallgrass landscape. American Ornithologists' Union Meeting, University of Wyoming, Laramie.
19. **Margosian, M.**, J. M. S. Hutchinson, K. A. Garrett, and **K. A. With**. 2007. Connectivity of the American agricultural landscape: a graph approach. ESRI International Users Conference, San Diego, CA.
18. **Walks, D. J.**, J. P. Aguilar, W. K. Dodds, K. B. Gido, J. K. Koelliker, and **K. A. With**. 2007. Temporal changes in fish communities of the Central Great Plains, Kansas. North American Benthological Society, Columbia, SC.

17. **With, K. A.**, A. W. King, and W. E. Jensen. 2007. Grassland birds are not viable in the largest tallgrass landscape left in North America. US-IALE, Tucson, AZ.
16. **Schrott, G.R., K.A. With**, and A. W. King. 2005. Microevolutionary rates of brood parasite host defense behavior can affect extinction risk in dynamic landscapes. Ecological Society of America, Montreal, Quebec, Canada.
15. **With, K. A.**, G. R. Schrott, and A. W. King. 2005. The implications of metalandscape connectivity for population viability in migratory songbirds. US-IALE, Syracuse, NY.
14. **Schrott, G. R., K. A. With**, and A. W. King. 2004. Recovery of declining populations through habitat restoration can be demographically limited. Ecological Society of America, Portland, OR.
13. **Schrott, G. R., K. A. With**, and A. W. King. 2003. Extinction risk assessment for migratory songbirds in dynamic landscapes. Cooper Ornithological Society, Northern Arizona University, Flagstaff.
12. **With, K. A.**, and D. M. Pavuk. 2002. Crossover effects of fragmentation on insect biodiversity in experimental fractal landscapes. US-IALE, University of Nebraska, Lincoln.
11. **With, K. A.**, and A. W. King. 2001. The effect of landscape structure on critical biodiversity. Society for Conservation Biology, University of Hawaii, Hilo.
10. **With, K. A.**, and D. M. Pavuk. 2000. Threshold effects of landscape structure on biological control in agroecosystems. Ecological Society of America, Snowbird, Utah.
9. **With, K. A.**, and D. M. Pavuk. 2000. Threshold effects of landscape structure on biological control in agroecosystems. U.S.-IALE, Ft. Lauderdale, FL.
8. **King, A. W.**, and **K. A. With**. 1998. Dispersal success in spatially structured landscapes. Joint meeting of the International Society for Ecological Modelling and the Ecological Society of America, Baltimore, MD.
7. **With, K. A.**, and A. W. King. 1997. Uncritical thresholds in dispersal success on fractal landscapes. U.S.-IALE, Duke University, Durham, NC.
6. **With, K. A.**, and A. W. King. 1996. Integrating metapopulation models with neutral landscape models to predict species' responses to habitat fragmentation. Joint meeting of the Ecological Society of America and the Society for Conservation Biology, Providence, RI.
5. **With, K. A.**, and A. W. King. 1996. Toward the development of a generalized spatially explicit theory of species' responses to landscape structure. U.S.-IALE, Galveston, TX.
4. **With, K.A.** 1994. The hazards of nesting near shrubs for a grassland bird. First Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society, and Wilson Ornithological Society. University of Montana, Missoula.
3. **With, K. A.**, and T. O. Crist. 1994. Critical thresholds in landscape structure: implications for the spatial structure of populations. U.S.-IALE, University of Arizona, Tucson.
2. **With, K. A.** 1986. Interseasonal and intersexual resource partitioning in Hairy and White-headed woodpeckers. Cooper Ornithological Society, University of California, Davis.
1. **Morrison, M. L.**, I. C. Timossi, **K. A. With**, and P. N. Manley. 1985. Use of tree species by forest birds during winter and summer. Joint meeting of the Wilson and Cooper Ornithological Societies, University of Colorado, Boulder.

Poster presentations

16. Skelsey, P., **K. A. With**, and K. A. Garrett. 2011. The intermediate scale hypothesis. Joint meeting of the American Phytopathology Society and International Association of Plant Protection Services, Honolulu, HI.
15. Throop, E., and **K. A. With**. 2009. Local vs. landscape-scale factors affecting habitat occupancy of Eastern Collared Lizards (*Crotaphytus collaris*) in tallgrass prairie. Ecological Society of America, Albuquerque, NM.
14. Long, A. M., W. E. Jensen, and **K. A. With**. 2008. Nest orientation in two dome-nesting grassland bird species. Joint Meeting of the American Ornithologists' Union, Cooper Ornithological Society and Society of Canadian Ornithologists, Portland, OR.
13. Klug, P. E., and **K. A. With**. 2008. Interactions between grassland birds and their snake predators: The potential for conservation benefits or conflicts in the tallgrass prairie. U.S.-International Association for Landscape Ecology (US-IALE), Madison, WI.
12. Wisely, S. M., S. Naranayan, **K. A. With**, and S. J. Brown. 2007. Evolutionary consequences of heavy metal contamination to deer mice and their intestinal microbial communities. Evolutionary Change in Human-Altered Environments: An International Summit. Institute of the Environment, University of California—Los Angeles.
11. **With, K.A.**, W.E. Jensen, and A. W. King. 2006. A regional assessment of population viability in grassland birds in a managed grassland: the Flint Hills of Kansas and Oklahoma. US-IALE, San Diego, CA.
10. Talbott, S. C., and **K. A. With**. 1999. Metapopulation theory in conservation research: Are the assumptions being tested? Society for Conservation Biology, Baltimore, MD.
9. **With, K. A.**, and A. W. King. 1998. Extinction thresholds for species in fractal landscapes. Joint meeting of the International Society for Ecological Modelling and the Ecological Society of America, Baltimore, MD.
8. **With, K. A.**, and A. W. King. 1998. Extinction thresholds for species in fractal landscapes. Society for Conservation Biology, Macquarie University, Sydney, New South Wales, Australia.
7. **With, K. A.**, and A. W. King. 1998. Dispersal success in fractal landscapes: a consequence of lacunarity thresholds. US-IALE, Kellogg Center, Michigan State University, East Lansing.
6. **With, K. A.**, and A. W. King. 1997. Dispersal success in fractal landscapes: a consequence of lacunarity thresholds. Ecological Society of America, Albuquerque, New Mexico.
5. Cadaret, S. J., **K. A. With**, and C. Davis. 1997. Fractal movements in fractal landscapes: the effects of fragmentation on animal movement. US-IALE, Duke University, Durham, NC.
4. **With, K. A.**, R. H. Gardner, and M. G. Turner. 1995. Population distributions in heterogeneous environments: the interaction between landscape structure and species' characteristics. Ecological Society of America, Snowbird, UT.
3. **With, K. A.**, R. H. Gardner, and M. G. Turner. 1995. Population distributions in heterogeneous environments: the interaction between landscape structure and species' characteristics. US-IALE, Minneapolis, MN.
2. **With, K. A.** and T. O. Crist. 1993. Development of spatially explicit models of population dynamics: the translation of individual movement patterns to broader scales. Ecological Society of America, University of Wisconsin, Madison.
1. **With, K. A.** 1992. Nesting on the ground: microclimate of nest sites for three grassland bird species. American Ornithologists' Union, Iowa State University, Ames.

Contributed Presentations: Regional Meetings

Oral presentations

6. Throop, E., and **K. A. With**. 2009. How does grazing and burning influence habitat occupancy of eastern collared Lizards (*Crotaphytus collaris*) in tallgrass prairie? Kansas Herpetological Society, MidAmerica Nazarene University, Olathe, KS.
5. Klug, P. E. and **K. A. With**. 2008. Interactions between nesting birds and their snake predators: the influence of shrubby encroachment in the tallgrass prairie. Kansas Natural Resources Conference, Wichita, KS.
4. Klug, P. E. and **K. A. With**. 2008. The spatial ecology of two predatory snakes in the tallgrass prairie and the impact on avian nesting. Kansas Herpetological Society, Wichita, KS.
3. Throop, E. C. and **K. A. With**. 2008. Habitat occupancy of collared lizards in the Flint Hills. Kansas Herpetological Society, Wichita, KS.
2. Rahmig (Jung), C., W. E. Jensen, and **K. A. With**. 2007. Grassland bird responses to modern agricultural disturbances in tallgrass prairie. Kansas Chapter of the Wildlife Society, Pittsburgh State University, KS.
1. Jung, C.R.I., W. E. Jensen, and **K. A. With**. 2005. Effects of grassland management on breeding grassland birds in the Flint Hills. *Changing Natural Landscapes: Ecological and Human Dimensions*, Joint Meeting of the Natural Areas Association and Center for Great Plains Studies, Lincoln, NE.

Poster presentations

2. Throop, E., and **K. A. With**. 2009. How does grazing and burning influence habitat occupancy of eastern collared lizards (*Crotaphytus collaris*) in tallgrass prairie? Midwest Ecology and Evolution Conference, Lincoln, NE.
1. Romero, S. A., J. F. Campbell, J. R. Nechols, and **K. A. With**. 2008. Behavioral responses of *Tribolium castaneum* (Coleoptera: Tenebrionidae) to patch boundaries: role of perceptual range and permeability. North Central Branch of the Entomological Society of America, Columbus, OH.

INVITED WORKSHOPS

- January 2004. Experimental Models Systems in Community Ecology, National Science Foundation, Arlington, Virginia (Coordinators: Peter J. Morin, Rutgers University and Michael Bowers, NSF).
- October 2001. Risk Analysis for Invasive Species: Perspectives from Theoretical Ecology. Society for Risk Analysis and the Theoretical Ecology Section of the Ecological Society of America, New Mexico State University, Las Cruces (Coordinator: Mark Anderson, Department of Fishery and Wildlife Sciences, NMSU).
- October 1999. Collaboratory on the Population Biology of Invasive Species, National Science Foundation, Arlington, Virginia (Coordinators: Ann Sakai and Steve Weller, Department of Ecology and Evolutionary Biology, University of California, Irvine).
- December 1997. GCTE-LUCC Dispersal Modeling Workshop (Task Leader: George Malanson, Department of Geography and Center for Global and Regional Environmental Research, University of Iowa), Obermann Center for Advanced Studies, University of Iowa, Iowa City.

EDITORSHIPS

- 2007-2012: Editorial Board, *Ecosystems*
2006-2009: Editor, The Americas (Zoological Subject Matter), *Biological Conservation*
1998-2005: Editorial Board, *Landscape Ecology*
1988-1992: Associate Editor, *Proceedings of the Western Foundation of Vertebrate Zoology*, Camarillo, CA

Proceedings published as Acting Editor

Marin A., M., and F. G. Stiles. 1992. On the Biology of Five Species of Swifts (Apodidae, Cypseloidinae) in Costa Rica. *Proceedings of the Western Foundation of Vertebrate Zoology* 4(5): 286-351.

Scott, T. A., and M. L. Morrison. 1990. Natural history and management of the San Clemente Loggerhead Shrike. *Proceedings of the Western Foundation of Vertebrate Zoology* 4(2): 23-57.

PEER REVIEW

Journals

Acta Biotheoretica, Acta Oecologia, Ambio, American Naturalist, Animal Behaviour, Auk, Avian Conservation and Ecology, Biological Conservation, BioScience, Canadian Journal of Zoology, Climatic Change, Comptes Rendus de l'Académie des Sciences, Condor, Conservation Biology, Conservation Ecology, Diversity and Distributions, Ecography, Ecology, Ecological Applications, Ecological Entomology, Ecology Letters, Ecological Complexity, Ecological Modelling, Ecological Monographs, Écoscience, Ecosphere, Ecosystems, Functional Ecology, Geoderma, Geographical Analysis, Geography Compass, International Journal of Artificial Life Research, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Biogeography, Journal of Ecology, Journal of Environmental Management, Journal of Field Ornithology, Journal of Great Lakes Research, Journal of Mammalogy, Journal of Phycology, Journal of Theoretical Biology, Journal of Tropical Ecology, Landscape Ecology, Landscape and Urban Planning, Oecologia, Oikos, Ornis Fennica, Rangeland Ecology and Management, Scandinavian Journal of Forest Research, Southwestern Naturalist, Studies in Avian Biology, Urban Ecosystems, Wilson Bulletin (total = 54 journals)

Funding Agencies

National Science Foundation (Animal Behavior/Behavior, Population Biology, Ecological Studies, CAREER, Geology and Paleontology/Sedimentary Geology and Paleobiology), *National Sciences and Engineering Research Council of Canada, Biodiversity Grants Program* (Alberta, Canada), *USDA-CSREES National Research Initiative Competitive Grant Program* (Biology of Weedy & Invasive Plants; Entomology/Nematology)

Publishers

W. C. Brown Publishers, Sinauer & Associates

SCIENTIFIC REVIEW

2005: *Status Report on McCown's Longspur*, Committee on the Status of Endangered Wildlife in Canada

1998: *COVERS Ranking Record for McCown's Longspur*, Ranking Conservation Priorities of Vertebrates in Colorado, Colorado Division of Wildlife.

SCIENTIFIC FUNDING REVIEW PANELS

1999: National Science Foundation, Population Biology, Division of Environmental Biology

1998: National Science Foundation, Postdoctoral Research Fellowships in Biosciences related to the Environment

1995: National Science Foundation, Cross-site Comparisons and Synthesis at LTER and Non-LTER Sites and LTER Internationalization.

SYMPOSIA ORGANIZED

2009: *Promoting Landscape Ecology in Latin America and Elseworld: Ten Things Every Landscape Ecologist Needs to Know—Perspectives from Around the World*. Inaugural meeting of the Latin America–International Association for Landscape Ecology, Campos do Jordão, São Paulo state, Brazil. October 4-7, 2009.

1999: *Landscape Approaches to Evaluating the Ecological Consequences of Habitat Loss*, Spatial Ecology Conference on *Habitat Loss: Ecological, Evolutionary and Genetic Consequences*. Helsinki, Finland. September 7-12, 1999.

1999: *The Ecological Consequences of Spatial Pattern: An Integration of Approaches from Spatial and Landscape Ecology*; Fifth World Congress of the International Association of Landscape Ecology, Snowmass Village, Colorado. July 29-August 3, 1999.

OTHER PROFESSIONAL ACTIVITIES

2011 Session Chair: *Fragmentation*. US.-International Association of Landscape Ecology, Portland, OR.

2009 Promotion evaluation (Full Professor): Department of Natural Resources Conservation, University of Massachusetts, Amherst;
Tenure and Promotion evaluation (Associate Professor): Department of Ecology and Evolutionary Biology, University of Connecticut;
Tenure and Promotion evaluation (Associate Professor): Oklahoma Biological Survey, Department of Zoology at University of Oklahoma

2008 Invited Landscape Ecologist Mentor, NASA-MSU Student Award Dinner; Invited Mentor, Lunch with a Mentor Program US-IALE meeting, Madison, WI.

2007 Invited Landscape Ecologist Mentor, NASA-MSU Student Award Dinner; Student Award Judge; US-IALE, Tucson, AZ.

2006 Invited Landscape Ecologist Mentor, NASA-MSU Student Award Dinner; Student Award Judge; Session Chair: *Connectivity*; US-IALE, San Diego, CA.

2005 Invited Landscape Ecologist Mentor, NASA-MSU Student Award Dinner; Student Award Judge, US-IALE, SUNY-Syracuse, NY.

- 2003 Promotion evaluation (Associate Professor): School of Natural Resources, University of Vermont
- 2002 Tenure and Promotion evaluation (Associate Professor); Department of Environmental, Population and Organismic Biology, University of Colorado–Boulder;
Landscape Ecologist Mentor, NASA-MSU Student Award Dinner; Invited Mentor, Breakfast with a Mentor Program; Student Award Judge; Session Chair, *Arthropods I*; US-IALE, University of Nebraska, Lincoln.
- 2001 Invited Mentor, Lunch with a Mentor Program, US-IALE, Arizona State University, Tempe.
- 2000 Invited Mentor, Lunch with a Mentor Program, US-IALE, Ft. Lauderdale, Florida.
- 1999 Invited Landscape Ecologist Mentor, NASA-MSU Student Award dinner, Fifth World Congress of the International Association of Landscape Ecology, Snowmass Village, CO.
- 1998 Student Award Judge, US-IALE, Kellogg Center, Michigan State University, East Lansing.
- 1997 Session Chair, *Population and Community Responses: Theory*; Student Award Judge US-IALE, Duke University, Durham, NC.
- 1996 Symposium Chair, *The Interface of Theoretical Ecology and Conservation Biology*, joint meeting of the Ecological Society of America and the Society for Conservation Biology, Providence, RI.;
Session Chair, *Modelling Landscape Processes*; Student Award Judge, US-IALE, Galveston, TX.
- 1995 Session Chair, *Landscape Scale Processes and Resulting Patterns*, Ecological Society of America, Snowbird, UT.

TEACHING EXPERIENCE *Denotes courses and seminars I developed at these institutions
Kansas State University, Division of Biology (2000–present)

Course No.	Semester	Course Title	Credits
BIOL 198	Sp 2002, 2004 Fall (2005 on)	Principles of Biology	4
BIOL 201	Fall 2002	Organismic Biology (zoology section)	5
BIOL 433	Sp 2001	Wildlife Conservation	3
BIOL 642 (was BIOL 585)	Sp 2002 (every year)	Principles of Conservation Biology*	3
BIOL 822	Fall 2001 (odd years)	Landscape Ecology*	4
BIOL 890	Fall 2007	<i>Invasion Ecology*</i>	1
BIOL 890	Sp 2010	<i>Ecology of Fragmented Landscapes*</i>	1

Bowling Green State University, Department of Biological Sciences (1995-2000)

Course No.	Semester	Course Title	Credits
BIOL 409/540	Sp 1996 Fall (every year)	Conservation Biology*	3
BIOL 400/580	Sp 1998 (even years)	Landscape Ecology*	3
BIOL 477/565	Sp 1997 (odd years)	Ornithology	3
BIOL 780	F 1995, 96 Sp 1996	Group Readings in Ecology, Behavior and Evolution*	1

BIOL 780	Sp 1996	Seminar: Advanced Readings in Conservation Biology*	1
	Fall (every year)		
BIOL 780	Sp 1997	Seminar: <i>Macroecology*</i>	1
BIOL 780	Sp 1998	Seminar: <i>Toward a Unified Ecology*</i>	1
BIOL 780	Sp 1999	Seminar: <i>Societal Dependence on Natural Ecosystems*</i>	1

STUDENT ADVISING/PROFESSIONAL MENTORING

2000-present: *Kansas State University, Manhattan, Kansas*

Postdoctoral Research Associates

- 2001-2004: **Dr. Gregory R. Schrott** (Ph.D., University of California–Los Angeles)
Current position: Postdoctoral Research Fellow, Archbold Biological Station, Florida
- 2003-2005: **Dr. William E. Jensen** (Ph.D., Kansas State University)
Current position: Assistant Professor, Emporia State University, Kansas
- 2009-2012: **Dr. Peter Skelsey** (Ph.D., Wageningen University and Research Center, The Netherlands) [co-advised with Dr. Karen Garrett, KSU Department of Plant Pathology]

Doctor of Philosophy

- 2005-2009: **Page E. Klug.** Dissertation: *Interactions between grassland birds and their snake predators: the potential for conservation conflicts in the tallgrass prairie*
- Sigma-Xi Grant-in-Aid of Research (\$800, 2006)
 - Frances M. Peacock Scholarship for Native Bird Habitat, Garden Club of America (\$4000, 2006)
 - Sea World and Busch Gardens Conservation Fund Grant Awards (\$7280, 2006).
 - NASA-MSU Professional Enhancement Award (\$500, 2008)
 - Alan H. Kamb Grant for Research on Kansas Snakes, Kansas Herpetological Society (\$150 in 2007; \$300 in 2008)
 - Award for Best PhD Student Presentation, Kansas Ornithological Society (2007)
 - Chris Edler Award for Outstanding Research on Konza Prairie Biological Station, Kansas State University (2008)
- Current position:** Interim Assistant Director/Postdoctoral Researcher, University of Notre Dame Environmental Research Center

Masters of Science

- 2003-2006: **Christopher M. Frey.** Thesis: *Topographic variation in habitat quality and settlement patterns of grassland passerines in the Flint Hills*
- Last known position:** Ph.D. Program, Department of Natural Resources and Environmental Sciences, University of Nevada–Reno.

- 2003-2006: **Corina R. I. (Jung) Rahmig.** Thesis: *Variation in the suitability of grassland management regimes for nesting grassland birds in the Flint Hills*
--James Ackert Scientific Award for Outstanding Research, given to a graduate student <2 years in the Division, based on presentation given at the Biology Graduate Research Forum, Kansas State University (2005)
Current position: Biology Instructor, Presentation High School, San Jose, CA.
- 2007-2010: **Emilie C. (Throop) Blevins.** Thesis: *Landscape context influences patterns of occupancy, abundance, and gene flow among collared lizards in the Flint Hills of Kansas*
--Dean E. Metter Memorial Award, Society for the Study of Amphibians and Reptiles (\$500, 2008)
--George Toland Award for Best Student Paper, Kansas Herpetological Society (\$200, 2009)
Current position: Science and Planning Assistant, The Nature Conservancy, Portland, OR.

Service on Graduate Committees (by year completed)

- 2002: Boris Sanjur (M.S. Biology)
2003: Jonathan Conard (M.S. Biology)
2004: Nicole Gerlanc (Ph.D. Biology)
2005: Matthew Grieshop (Ph.D. Entomology); Tammi Johnson (M.S. Biology)
2007: Jacqueline Nooker (Ph.D. Biology); Susan Romero (Ph.D. Entomology)
2009: Jonathan Conard (Ph.D. Biology); Sarah Bowe (M.S. Biology)
2011: Anthony Gregory (Ph.D. Biology); Derek Moon (M.S. Biology)
2012: Amanda Goldberg (M.S. Biology)

In progress:

- Amy Erickson (M.S. Biology)
Alaina Thomas (M.S. Biology)
Kabita Ghimire (Ph.D. Geography)

Outside Chair of Graduate Committee

- 2007: Dana Townsend (Ph.D., Anatomy and Physiology)
2011: Rhett Mohler (Ph.D., Geography)

Service on External Graduate Committees (External Examiner)

- 2005: Daniel M. Scheiman (Ph.D., 2005), Department of Forestry & Natural Resources, Purdue University, West Lafayette, IN.
2008: Rebecca Tittler (Ph.D., 2008), Department of Biology, Carleton University, Ottawa, Ontario, Canada.

Undergraduate Mentoring

- Summer 2006: Emilie Throop, Berea College, KY (Konza NSF-REU Program); Accepted to KSU Graduate Program, M.S., Biology (2007); Awarded M.S. (2010)
Summer 2007: Sara Jackrel, The College of New Jersey (Konza NSF-REU Program)
Spring 2008: Nicole Kirkton, Kansas State University (Independent study)

- Summer 2008: Jennifer Fill, University of Massachusetts--Amherst (Konza NSF-REU Program); Recipient of a NSF Graduate Fellowship (University of South Carolina--Columbia; 2010)
- Fall 2008: Laura Mendenhall, Kansas State University (Independent study); Graduate Program, M.S., Duke University Nicholas School of the Environment (2010)

1995-2000: Bowling Green State University, Bowling Green, Ohio

Plan I Masters of Science

- 1996-1999: **Sean J. Cadaret**. Thesis: *The effect of landscape context on avian-nest predation in an agroecosystem*.
--E. Alexander Bergstrom Memorial Award, Association of Field Ornithologists (\$250)
--Louis W. Campbell Graduate Student Research Award, Maumee Valley Audubon Society (\$250)
Last known position: Corporate engineer, NAMSA, a clinical research organization, Toledo, OH
- 1999-2001: **Rhonda K. Oates**. Thesis: *Fragmentation effects on carabid diversity in an agroecosystem*
--Explorer's Club (\$1500)
Publication: Oates, R. K., D. M. Pavuk, F. F. Purrington, K. A. With, M. L. Bergolc, K. Hite-Bechstein, and L. Hughes-Williams. 2005. Carabid beetle (Coleoptera: Carabidae) diversity in forest fragments of northwestern Ohio. *American Entomologist* 51: 237-239.
Last known position: Center for Cancer Drug Discovery & Development, Cleveland Clinic, OH

Plan II Masters of Science (non-thesis option)

- 1996-1998: **Richard N. Kappel III**
--Sigma Xi Grant-in-Aid of Research (\$1000)
Last known position: Instructor, Integrated Science and Biology, Kettering Fairmont High School, Kettering, OH
- 1998-2000: **Heather Beechler**
Last known position: Editor, *Science Books and Films*, Education and Human Resources, American Association for the Advancement of Science, Washington, D.C.

Service on Graduate Committees (by year completed)

- 1997: Carrie Cartwright (M.S., Biology); Rebecca Johns (Plan II M.S., Biology)
1998: Jennifer Anthony (Ph.D., Psychology); Robert Hood (Ph.D., Philosophy)

Senior Honors Thesis

Susan C. Talbott. 1997. *The use and misuse of metapopulation theory in conservation biology*.

Past position: M.S., Department of Wildlife and Fisheries Science, School of Forest Resources, Pennsylvania State University

Last known position: Assistant Regional Refuge Biologist, USFWS, Prime Hook National Wildlife Refuge, DE.

DEPARTMENTAL/UNIVERSITY SERVICE

Kansas State University, Manhattan, Kansas (2000-present)

Departmental Committees

- 2002-2008: Biology Research and Instruction Enhancement Fund (BRIEF) Committee
- 2002-2004: Biology Faculty Selection Committee, Student Scholarship Awards, Student Chapter of the Wildlife Society
- Summer 2003: Search Committee--Assistant Unit Leader-Fisheries, Kansas Cooperative Fish and Wildlife Research Unit and the Division of Biology
- 2001-2002: Konza Prairie Biological Station Advisory Committee
- Fall 2001: Search Committee (External Member)--Spatial Statistics Position, Department of Geography

University-wide Committees

- 2007-2010: Admissions Committee, KSU Chapter of Sigma Xi
- 2005-2010: Faculty Advisory Committee, Women in Science and Engineering Program

Bowling Green State University, Bowling Green, Ohio (1995-2000)

Departmental Committees

- 1999-2000: Curriculum Committee
- 1998-1999: Executive Committee; Curriculum Committee; Search Committee--Conservation Geneticist Position
- 1997-1998: Seminar Committee
- 1996-1997: Library Committee

University-wide Committees

- 1996-1999: Advisory Committee, Center for Environmental Programs