

Robert H. Hagen

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Kansas Biological Survey
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Education

University of Washington	B. S. 1976	Cellular & Molecular Biology
Cornell University	Ph. D. 1986	Ecology & Evolutionary Biology

Professional Appointments

Current

1999– Kansas Biological Survey, Research Associate
2000– University of Kansas, Department of Ecology & Evolutionary Biology, Courtesy Assistant Professor
2008– University of Kansas, Department of Ecology & Evolutionary Biology, Lecturer

Previous

2007 University of Kansas, Environmental Studies Program, Lecturer
1991–2000 University of Kansas, Department of Entomology, Adjunct Assistant Professor
1995–1997, 1998 University of Kansas, Program in Environmental Studies, Assistant Professor
1995 University of Missouri-Kansas City, School of Biological Sciences, Lecturer
1994–1995 Kansas Biological Survey, Research Associate
1993–1994 University of Kansas, Museum of Natural History, Research Associate
1992–1993 University of Kansas, Division of Biological Sciences, Assistant Professor
1986–1991 Michigan State University, Dept. of Entomology, Visiting Research Associate
1986–1991 University of Michigan, Museum of Zoology, Adjunct Research Investigator
1987–1988 Arizona State University, Dept. Zoology, Consultant (population genetics)
1986–1987 University of Wisconsin, Dept. Entomology, Postdoctoral Research Associate

Teaching Experience

University/College Courses

At the University of Kansas, Lawrence:

Principles of Biology (Biol 104): 1992, 1993
Introduction to Genetics (Biol 404): 1996
Evolutionary Biology (Biol 412): 2008
Field and Laboratory Methods in Ecology (Biol 415): 2008
Insect-Plant Interactions Seminar (Biol 420/701): 1992, 1994, 1996, 1998, 2000
Undergraduate Independent Study (Biol 423): 2002, 2005, 2007
Mechanisms of Speciation Seminar (Biol 701): 1993
Evolutionary Mechanisms (Biol 950): 1995
Principles of Environmental Studies (EVRN 148): 1996, 1997, 1998
Field Ecology (EVRN 460): 1995, 1996, 2007

At the University of Missouri-Kansas City:

Introduction to Evolution/Principles of Evolution (BIOL 405/519): 1995

Professional Workshops

Life Sciences Workshop, Middle School Science Academy, (Kansas Board of Regents, Teacher

Professional Development Grant, KU Center for Science Education): 2007

Graduate Student Committees (University of Kansas)

Ph.D. committee member for: Amy McMillan (1998), Michael Palmer (2000), Entomology; Thomas Good (1998), David Pennock (1998), Systematics and Ecology; Anne Michels (2000), Natapot Warrit (2007), Anna Clarke (2007), Ecology & Evolutionary Biology.

Masters degree committee chair for: Jordan Newmark (1997), Entomology; committee member for: Christine Schulstrom (2002), Ecology & Evolutionary Biology.

Other Activities (Current)

Member of the City of Lawrence Traffic Safety Commission, 2002– ; Chair, 2007–2008.

Faculty advisor, KU Summer New-student Orientation Program, 2004–2007.

Grants and Contracts

Co-PI, Kansas Board of Regents, No Child Left Behind, Improving Teacher Quality State Subgrant: “Middle School Science Academy—Research Experiences,” Joseph Heppert, et al. \$299,862. (2007–2010)

Co-PI, Kansas NSF EPSCoR – Phase V, Education & Diversity Grants: “Ecology & Evolution: Helping Students Understand a Changing World,” Joseph Heppert, et al. \$40,000. (2008)

Publications

Peer Reviewed

Hagen, R. H. 1990. Population structure and host use in hybridizing subspecies of *Papilio glaucus* (Lepidoptera: Papilionidae). **Evolution** 44: 1914–1930.

Hagen, R. H.. 1999. Prolegs of Papilionini (Lepidoptera: Papilionidae): Alternative solutions to the problem of attachment. IN: Byers, G. W., R. H. Hagen, and R. W. Brooks, Eds. Entomological Contributions in Memory of Byron A. Alexander. **University of Kansas Natural History Museum, Special Publication** 24: 218–232.

Hagen, R. H. and J. F. Chabot. 1986. Leaf anatomy of maples (*Acer*) and host use by Lepidoptera larvae. **Oikos** 47: 335–345.

Hagen, R. H., R. C. Lederhouse, J. L. Bossart, and J. M. Scriber. 1991. *Papilio glaucus* and *P. canadensis* are distinct species. **Journal of the Lepidopterist's Society** 45: 245–258.

Hagen, R. H. and J. M. Scriber. 1989. Sex-linked diapause, color, and allozyme loci in *Papilio glaucus*: linkage analysis and significance in a hybrid zone. **Journal of Heredity** 80: 179–185.

Hagen, R. H. and J. M. Scriber. 1991. Systematics of the *Papilio glaucus* and *P. troilus* species groups (Lepidoptera: Papilionidae): inferences from allozymes. **Annals of the Entomological Society of America** 84: 380–395.

Hagen, R. H. and J. M. Scriber. 1995. Sex chromosomes and speciation in tiger swallowtails. IN: Scriber, J. M., Y. Tsubaki and R. C. Lederhouse (eds.), **Swallowtail Butterflies: Their Ecology and Evolutionary Biology**. Scientific Publishers, Inc., Gainesville, Florida. Pp. 211–227.

Hagen, R. H., D. R. Smith, and S. W. Rissing. 1988. Genetic relatedness among cofoundresses in two desert ants, *Veromessor pergandei* and *Acromyrmex versicolor* (Hymenoptera: Formicidae). **Psyche** 95: 191–201.

Martinko, E. A., R. H. Hagen, and J. A. Griffith. 2006. Successional change in the insect community of a fragmented landscape. **Landscape Ecology** 21: 711–721.

Scriber, J. M., R. H. Hagen, and R. C. Lederhouse. 1996. Genetics of mimicry in the tiger swallowtail butterflies,

Papilio glaucus and *P. canadensis* (Lepidoptera: Papilionidae). **Evolution** 50: 222–236.

Smith, D. R. and R. H. Hagen. 1996. Population structure and interdemec selection in the cooperative spider, *Anelosimus eximius*. **Journal of Evolutionary Biology** 9: 589–608.

Smith, D. R. and R. H. Hagen. 1996. The biogeography of *Apis cerana* as revealed by mitochondrial DNA sequence data. **Journal of the Kansas Entomological Society** 69: 294–310.

Smith, D. R. and R. H. Hagen. 1998. Phylogeny and biogeography of *Apis cerana* subspecies: testing alternative hypotheses. IN: Hoopingarner, R., and L. Conner (eds.), **Apiculture for the 21st Century**. Wicwas Press, Cheshire, Connecticut. Pp. 60–69

Wiley, E. O. and R. H. Hagen. 1997. Mitochondrial DNA sequence variation among the Sand Darters (Percidae: Teleostei). IN: Kocher, T. D., and C. A. Stepien (eds.), **Molecular Systematics of Fishes**. Academic Press, New York. Pp. 75–96.

Other Publications

Buechner, M., A. Melott, R. Hagen, P. Baringer, P. Ross, and K. M. Ashman. 2000. “Non-scientists thanked for vital help in Kansas” (Correspondence). **Nature** 407: 445.

Byers, G. W., R. H. Hagen, and R. W. Brooks, Editors. 1999. Entomological Contributions in Memory of Byron A. Alexander. **University of Kansas Natural History Museum, Special Publication** 24.

Byers, G. W., R. H. Hagen, and C. T. Wuellner. 1999. Byron A. Alexander. IN: Byers, G. W., R. H. Hagen, and R. W. Brooks, Eds. Entomological Contributions in Memory of Byron A. Alexander. **University of Kansas Natural History Museum, Special Publication** 24: 1–6.

Hagen, R. H. 1985. Chemical Ecology of Insects (Book Review). **Journal of the New York Entomological Society**. 93:1281–1285.

Hagen, R. H. 1992. The Development and Evolution of Butterfly Wing Patterns (Book Review). **Annals of the Entomological Society of America** 85: 808–809.

Kettle, W. D., R. H. Hagen, F. deNoyelles, Jr., and E. A. Martinko. 2001. The University of Kansas Field Station and Ecological Reserves: A Half-Century of Research and Education. **Miscellaneous Publication** 9, Kansas Biological Survey, Lawrence. 68 p.

Martinko, E., J. Whistler, D. Peterson, J. Kastens, R. Hagen, D. Huggins, M. Jakubauskas. 2007. A Watershed Classification System for Tiered Diagnosis of Biological Impairments: A Scalable, Central Plains Focus with National Applicability. Final Report to the U.S. Environmental Protection Agency STAR Program, Cooperative Agreement RD-83059701. **KBS Report** 141. Kansas Biological Survey, University of Kansas Lawrence, 153 pp.

Scriber, J. M., and R. H. Hagen. 1990. Bilateral differentiation of color and morphology in the larval and pupal stages of a tiger swallowtail, *Papilio glaucus*. **Great Lakes Entomologist** 23: 139–143.

Manuscripts in Preparation

Johnson, J. B., R. H. Hagen, and E. A. Martinko. Effect of succession and habitat area on wandering spider abundance in an experimental landscape. (in review, **Journal of the Kansas Entomological Society**)

Hagen, R. H., M. S. Zerwekh, K. R. Anderson, and H. S. Fitch. Snake abundance and distribution in an experimental habitat mosaic. (for **Community Ecology**)