

Jeffrey K. Barnes

Curator,
University of Arkansas, Fayetteville



Current Appointment: 30% Research; 13% Teaching; 57% Service.

Education

B.S.	1967.	University of Rochester, Rochester, New York.	Biology-Geology
M.S.	1976.	Cornell University, Ithaca, New York.	Entomology
Ph.D.	1979.	Cornell University, Ithaca, New York.	Entomology

Professional Experience

University of Arkansas, Fayetteville, Department of Entomology	
Curator	2000-present
New York State Museum, Albany	
Senior Scientist and Curator	1980-2000

Areas of Research/Extension Specialization

My primary responsibility is curation of the University of Arkansas Arthropod Museum. I direct all operations in the Museum, including loans, acquisitions, and specimen identification and care. I also maintain the Museum web site, which features an extensive bibliography of Arkansas biodiversity, a photo gallery with write-ups on individual species of public interest, and links to other web sites pertinent to Arkansas entomology. I also have a 25% Extension appointment, and I perform hundreds of hours of service each year in the form of arthropod identifications, information services, and outreach through loans of Museum exhibits to schools, museums, and other venues. My primary research emphasis at the present time is the robber fly (Diptera: Asilidae) fauna of the Mid South. Having found the published resources insufficient for identification, I have taken on the job of updating the taxonomy of certain confusing groups by disentangling species complexes and revising the genus *Ceraturgus* in the United States. I am also contributing to a major work on the morphology of robber fly pupal cases.

Selected Publications

- Barker, G. M., L. V. Knutson, J.-C. Vala, J. B. Coupland, and J. K. Barnes. 2004. Overview of the biology of marsh flies (Diptera: Sciomyzidae), with special reference to predators and parasitoids of terrestrial gastropods. Pages 159-225 in G. M. Barker (ed.), *Natural Enemies of Terrestrial Molluscs*, CABI Publishing, CAB International, Oxfordshire, UK.
- Barnes, J. K. 2004. Overwintering cave mosquitoes (Diptera: Culicidae) of the Arkansas and Missouri Ozarks. *Proceedings of the Entomological Society of Washington* 106 (1): 235-238.
- Barnes, J. K. 2003. *Natural History of the Albany Pine Bush, Albany and Schenectady Counties, New York: field guide and trail map*. New York State Museum Bulletin 502: 245 pages (**BOOK**).
- Barnes, J. K., L. E. Higgins, and C. W. Sabrosky. 1992. Life histories of *Pseudogaurax* species (Diptera: Chloropidae), descriptions of two new species, and ecology of *Nephila clavipes* (Linnaeus) (Araneae: Tetragnathidae) egg predation. *Journal of Natural History* 26: 823-834.
- Barnes, J. K. 1991. Taxonomic status of the Nearctic species of *Auxanomatidia* Borgmeier (Diptera: Phoridae). *Proceedings of the Entomological Society of America* 93: 930-932.
- Barnes, J. K. 1991. Additions to the phorid fauna (Diptera: Phoridae) of North America North of Mexico. *Florida Entomologist* 74: 306-310.
- Barnes, J. K. 1990. Life history of *Dohrniphora cornuta* (Bigot) (Diptera: Phoridae), a filth-inhabiting humpbacked fly. *Journal of the New York Entomological Society* 98: 474-483.
- Barnes, J. K. 1990. First record of genus *Phymatopterella* in the Nearctic region and description of *P. ovatimacula*, a new humpbacked fly from Florida (Diptera: Phoridae). *Florida Entomologist* 73: 644-649.
- Barnes, J. K. 1990. Biology and immature stages of *Sciomyza varia* (Diptera: Sciomyzidae), a specialized parasitoid of snails. *Annals of the Entomological Society of America* 83: 925-938.

- Barnes, J. K. and L. V. Knutson. 1989. Family Sciomyzidae. Pages 566-569 in N.L. Evenhuis (Ed.), Catalogue of the Diptera of the Australasian and Oceanian Regions. Bishop Museum Special Publication 86.(Published on the Internet, 1996: <http://www.bishop.hawaii.org/bishop/ento/aocat/>).
- Barnes, J. K. 1989. Family Helosciomyzidae. Pages 570-571 in N.L. Evenhuis (Ed.), Catalogue of the Diptera of the Australasian and Oceanian Regions. Bishop Museum Special Publication 86. (Published on the Internet, 1996: <http://www.bishop.hawaii.org/bishop/ento/aocat/>).
- Barnes, J. K. 1988. Asa Fitch and the emergence of American entomology, with an entomological bibliography and a catalog of taxonomic names and type specimens. New York State Museum Bulletin 461: 1-120 (**BOOK**).
- Keirans, J. E. and J. K. Barnes. 1987. Lectotype designations for the ticks (Acari: Ixodoidea: Ixodidae) described by Asa Fitch. Journal of the New York Entomological Society 95: 109-113.
- Barnes, J. K. 1985. Insects in the new nation: a cultural context for the emergence of American entomology. Bulletin of the Entomological Society of America. 31: 21-30.
- Barnes, J. K. 1984. Recently recognized types of some Homoptera described by Dr. Asa Fitch. Psyche 91: 133-139.
- Barnes, J. K. 1984. The Membracidae and other Homoptera described by Asa Fitch, 1851, and Ebenezer Emmons, 1855: historical perspective and analysis. Journal of the New York Entomological Society 92: 27-34.
- Barnes, J. K. 1984. Biology and immature stages of *Dryomyza anilis* Fallén (Diptera: Dryomyzidae). Proceedings of the Entomological Society of Washington 86: 43-52.
- Berg, C. O., B. A. Foote, L. Knutson, J. K. Barnes, S. L. Arnold, and K. Valley. 1982. Adaptive differences in phenology in sciomyzid flies. Memoirs of the Entomological Society of Washington 10: 15-36.
- Barnes, J. K. 1981. Revision of the Helosciomyzidae (Diptera). Journal of the Royal Society of New Zealand 11: 45-72.
- Barnes, J. K. 1980. Biology and immature stages of *Helosciomyza subalpina* (Diptera: Helosciomyzidae), an ant-killing fly from New Zealand. New Zealand Journal of Zoology 7: 221-229.
- Barnes, J. K. 1980. Taxonomy of the New Zealand genus *Eulimnia*, and biology and immature stages of *E. philpotti* Tonnoir and Malloch (Diptera: Sciomyzidae). New Zealand Journal of Zoology 7: 91-103.
- Barnes, J. K. 1979. Biology of the New Zealand genus *Neolimnia* (Diptera: Sciomyzidae). New Zealand Journal of Zoology 6: 241-265.
- Barnes, J. K. 1979. The taxonomic position of *Prosochaeta* Malloch (Sciomyzidae: Huttonininae). Proceedings of the Entomological Society of Washington 81: 285-297.

Contracts and Grants

In 2005, I received \$52,920 from the Arkansas Agricultural Experiment Station for upgrades to the University of Arkansas Arthropod Museum. The funds were used to purchase approximately 800 new insect drawers with tight fitting lids to replace old, warped drawers with loose-fitting lids that were able to admit museum pests. Funds were also used to purchase 7 new cabinets with drawers and trays to re-house portions of the alcohol-preserved collection previously held in old, metal library cabinets.

Professional Service

Entomological Collections Network
Entomological Society of America
Entomological Society of Washington

Teaching Experience

I developed and have annually, in the Fall since 2001, taught the senior level/graduate course in insect diversity and taxonomy. I also developed and taught a course in immature insects, as a Special Topics course, in the Spring of 2002.

January 25, 2006