

JAMES MICHAEL CARPENTER
CURATOR AND PROFESSOR
DIVISION OF INVERTEBRATE ZOOLOGY

HIGHEST DEGREE EARNED

Ph.D.

AREA OF SPECIALIZATION

Phylogenetic relationships, taxonomy, and behavior of wasps; cladistic theory;
quantitative phylogenetic method; application of cladistic analysis to testing
evolutionary process theories

EDUCATIONAL EXPERIENCE

Ph.D. in Entomology, Cornell University, 1977-1983

B.S. in Entomology, Michigan State University, 1974-1977

PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION

COURSES TAUGHT

Phylogenetic Analysis: Theory and Practice, International Workshop, Průhonice, Czech
Republic, September 4-7, 2006

Análisis Filogenética: Teoría y Práctica, International Workshop, Tucumán, March 11-
15, 2002

Cladistics, Graduate level, Harvard University, 1985-1991

Introduction to Insect Evolution and Diversity, Undergraduate level, Harvard University,
1985-1991

Quantitative Systematics, Graduate level, Harvard University, 1985-1991

Principles of Biodiversity, Undergraduate level, Harvard University, 1985-1991

GRADUATE ADVISEES

Roberto Keller, Department of Entomology, Cornell University/American Museum of
Natural History

Christine Johnson, Hunter College, City University of New York

Marc Allard, Department of Organismal and Evolutionary Biology, Harvard University

Gabriela Chavarría, Department of Organismal and Evolutionary Biology, Harvard
University

GRADUATE COMMITTEES

Roberto Keller, Department of Entomology, Cornell University/American Museum of
Natural History

Ted Schultz, Department of Entomology, Cornell University

Karen Sime, Department of Entomology, Cornell University

Christine Johnson, Hunter College, City University of New York

Ellen Zimmerli, Hunter College, City University of New York

Ines Horowitz, Department of Ecology and Evolution, State University of New York at
Stony Brook

Glenn Adelson, Department of Organismal and Evolutionary Biology, Harvard
University

Marc Allard, Department of Organismal and Evolutionary Biology, Harvard University

Gabriela Chavarría, Department of Organismal and Evolutionary Biology, Harvard University
David Maddison, Department of Organismal and Evolutionary Biology, Harvard University
Santiago Madriñan, Department of Organismal and Evolutionary Biology, Harvard University
Mark Moffett, Department of Organismal and Evolutionary Biology, Harvard University
William Piel, Department of Organismal and Evolutionary Biology, Harvard University
Kenneth Rice, Department of Organismal and Evolutionary Biology, Harvard University
Mark Skinner, Department of Organismal and Evolutionary Biology, Harvard University
Elizabeth Taylor, Department of Organismal and Evolutionary Biology, Harvard University
Leanne Tennant, Department of Organismal and Evolutionary Biology, Harvard University
John Tobin, Department of Organismal and Evolutionary Biology, Harvard University
Ward Wheeler, Department of Organismal and Evolutionary Biology, Harvard University

RESEARCH GRANT SUPPORT (2003-2008)

National Science Foundation, “Phylogeny of the New World *Polistes* (Hymenoptera: Vespidae; Polistinae, *Polistes*, *Aphanilopterus*) based on combined morphological, molecular and behavioral evidence”, 2006-2009; Co-PI with Kurt Pickett and Ward Wheeler
National Science Foundation, Curation of the Wasp Nest Collection of the American Museum of Natural History, \$237,629, March 15, 2005-February 28, 2007.
National Science Foundation, ATOL: Collaborative Research: Large-scale Phylogeny of Hymenoptera, \$584,612, December 1, 2003-November 30, 2009.

RECENT ARTICLES IN REFEREED JOURNALS (2003-2008)

Carpenter, J. M. 2003. On “Molecular Phylogeny of Vespidae (Hymenoptera) and the Evolution of Sociality in Wasps.” *American Museum Novitates* 3389: 1-20.
Carpenter, J. M. 2003 (2002). Return to the subspecies concept in the genus *Zeta* (Hymenoptera: Vespidae; Eumeninae). *Boletín del Museo Nacional de Historia Natural del Paraguay* 14 (1-2): 19-24.
Carpenter, J. M. and B. R. Garcete-Barrett. 2003 (2002). A key to the neotropical genera of Eumeninae (Hymenoptera: Vespidae). *Boletín del Museo Nacional de Historia Natural del Paraguay* 14 (1-2): 52-73.
Carpenter, J. M. 2003. A new species of pollen wasp from Egypt (Hymenoptera: Vespidae; Masarinae). *Journal of the Kansas Entomological Society* 76: 143-146.
Carpenter, J. M. 2003. Critique of pure folly. *Botanical Review* 69: 79-92.
Nixon, K. C., J. M. Carpenter and D. W. Stevenson. 2003. The PhyloCode is fatally flawed, and the “Linnaean” system can easily be fixed. *Botanical Review* 69: 111-120.
Carpenter, J. M. and P. L. T. Nguyen. 2003. Keys to the genera of social wasps of South-East Asia. *Entomological Science* 6:183-192.
Dubatolov, V., J. Kojima, J. M. Carpenter and A. Lvovsky. 2003. Subspecies of *Vespa crabro* in two different papers by Birula in 1925. *Entomological Science* 6: 215-216.
Carpenter, J. M., F. S. do Nascimento, S. Mateus, F. B. Noll and J. Kojima. 2004. A revision of the genus *Asteloeca* (Hymenoptera: Vespidae; Polistinae). *American Museum Novitates* 3427: 1-12.
Arévalo, E., Y. Zhu, J. M. Carpenter and J. E. Strassmann. 2004. The phylogeny of the social wasp subfamily Polistinae: evidence from microsatellite flanking

- sequences, mitochondrial COI sequence, and morphological characters. *BioMed Central Evolutionary Biology* 4: 8.
- Carpenter, J. M. and S. Mateus. 2004. Males of *Nectarinella* Bequaert (Hymenoptera, Vespidae, Polistinae). *Revista Brasileira de Entomologia* 48 (3): 297-302.
- Hunt, J. H. and J. M. Carpenter. 2004. Intra-specific nest form variation in some neotropical swarm-founding wasps of the genus *Parachartergus* (Hymenoptera: Vespidae: Epiponini). *Journal of the Kansas Entomological Society* 77 (4): 448-456.
- Carpenter, J. M. 2004. *Ancistroceroides* de Saussure, a potter wasp genus new for the United States, with a new key to the genera of Eumeninae of America north of Mexico (Hymenoptera: Vespidae). *Journal of the Kansas Entomological Society* 77 (4): 721-741.
- Carpenter, J. M. 2004. Synonymy of the genus *Marimbonda* Richards, 1978, with *Leipomeles* Möbius, 1856 (Hymenoptera: Vespidae; Polistinae), and a new key to the genera of paper wasps of the New World. *American Museum Novitates* 3465: 1-16.
- Giribet, G., G. D. Edgecombe, J. M. Carpenter, C. A. d'Haese and W. C. Wheeler. 2004. Is *Ellipura* monophyletic? A combined analysis of basal hexapod relationships with emphasis on the origin of insects. *Organisms Diversity and Evolution* 4: 319-340.
- Nguyen, L. P. T., F. Saito, J. Kojima and J. M. Carpenter. 2005. [An annotated distributional checklist of social wasps (Hymenoptera: Vespidae) of Viet Nam. In: *Proceedings of the First National Conference on Ecology and Biological Resources, Ha Noi, May 17, 2005*: 129-137. Vietnamese Academy of Science and Technology, Hanoi. [In Vietnamese with English summary.]
- Carpenter, J. M. and B. R. Garcete-Barrett. 2005. Revision of the genus *Parazumia* de Saussure (Hymenoptera: Vespidae; Eumeninae). *Folia Entomologica Mexicana* 44 (Supplemento 1): 21-34.
- Carpenter, J. M. and E. P. Perera. 2006. Phylogenetic relationships among yellowjackets and the evolution of social parasitism. *American Museum Novitates* 3507: 1-19.
- Nguyen, L. P. T., J. Kojima, F. Saito and J. M. Carpenter. 2006. Vespidae (Hymenoptera) of Vietnam 3: Synoptic key to the Vietnamese species of the polistine genus *Ropalidia*, with notes on taxonomy and distribution. *Entomological Science* 9 (1): 93-107.
- Nguyen, L. P. T., F. Saito, J. Kojima and J. M. Carpenter. 2006. Vespidae of Viet Nam (Insecta: Hymenoptera) 2. Taxonomic notes on Vespinae. *Zoological Science* 23: 95-104.
- Sarmiento, C. E. and J. M. Carpenter. 2006. Familia Vespidae. In Fernández, F. and M. J. Sharkey (eds.), *Introducción a los Hymenoptera de la Región Neotropical*: 539-556. Sociedad Colombiana de Entomología y Universidad Nacional de Colombia, Bogotá.
- Saito, F., L. P. T. Nguyen, J. M. Carpenter and J. Kojima. 2006. A new *Eustenogater* species (Hymenoptera: Vespidae; Stenogastrinae), the first hover wasp known to overwinter on the nest. *American Museum Novitates* 3534: 1-11.
- Carpenter, J. M., B. R. Garcete-Barrett and M. G. Hermes. 2006. Catalog of the Neotropical Masarinae. *Revista Brasileira de Entomologia* 50 (3): 335-340.
- West-Eberhard, M. J., J. M. Carpenter and P. E. Hanson. 2006. Familia Vespidae. In Hanson, P. E. and I. D. Gauld, Hymenoptera de la Región Neotropical. *Memoirs of the American Entomological Institute* 77: 617-644.
- Pickett, K. M., J. M. Carpenter and W. C. Wheeler. 2006. Systematics of *Polistes* (Hymenoptera: Vespidae), with a phylogenetic consideration of Hamilton's haplodiploidy hypothesis, *Annales Zoologici Fennici* 43: 390-406.
- Andena, S. R., F. B. Noll and J. M. Carpenter. 2007. Phylogenetic analysis of the Neotropical social wasps of the genus *Angiopolybia* Araujo, 1946 (Hymenoptera,

- Vespidae, Epiponini). *Zootaxa* 1427: 57-64.
- Andena, S. R., F. B. Noll, J. M. Carpenter and R. Zucchi. 2007. Phylogenetic analysis of the Neotropical *Pseudopolybia* de Saussure, 1863, with description of the male genitalia of *Pseudopolybia vespiceps* (Hymenoptera: Vespidae, Epiponini). *American Museum Novitates* 3586: 1-11.
- Goloboff, P. A., J. M. Carpenter, J. Salvador Arias and Daniel R. Miranda Esquivel. 2008. Weighting against homoplasy improves phylogenetic analysis of morphological data sets. *Cladistics* 24: 24: 758-773.
- Carpenter, J. M. 2008. Review of the Hawaiian Vespidae (Hymenoptera). *Bishop Museum Occasional Papers* 99: 1-18.
- Ebrahimi, E. and J. M. Carpenter. 2008. Catalog of the vespid wasps of Iran (Hymenoptera, Vespidae). *Zootaxa* 1785: 1-42.
- Dvořák, L. and J. M. Carpenter. 2008. The first record of the paper wasp *Polistes smithii neavei* von Schulthess, 1921, from the Middle East (Hymenoptera: Vespidae: Polistinae), with notes on the social wasp fauna of Yemen. *Zoology in the Middle East* 44: 119-120.

SPECIAL RECOGNITION/AWARDS

- Japan Society for the Promotion of Science Invitation Fellowship for Research in Japan,
July-August 2007
- Honorary Fellow, California Academy of Sciences, July 2004
- Japan Society for the Promotion of Science Invitation Fellowship for Research in Japan,
July 2000
- Smithsonian Postdoctoral Fellowship, 1983-1984
- Graduate Fellowship, Cornell University, 1982
- National Science Foundation Graduate Fellowship, 1977-1980