

David A. Grimaldi

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Curator and Professor
Division of Invertebrate Zoology
American Museum of Natural History
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RESEARCH INTERESTS

Diversity, fossil record, and evolution of insects; fossilization in amber; species-level systematics and biology of Drosophilidae and other Diptera; the evolution of biological communities (particularly tropical forests), evolutionary history of insect pollination and phytophagy; extinction and environmental change; biological illustration and imaging; history of science.

EDUCATION

B. Sc., 1979, University of Connecticut. Majors in Biology and Fine Arts.
M.Sc., 1983, State University of New York, Binghamton. Major in Evolutionary Biology
Ph.D., 1986, Cornell University, Entomology.

POSITIONS

1986-1991: Assistant Curator, American Museum of Natural History.
1988-present: Adjunct Professor, City University of New York (Graduate Program in Ecology and Evolutionary Biology).
1991-1996: Associate Curator (tenured), American Museum of Natural History.
1994-present: Adjunct Professor, Cornell University (Department of Entomology).
1994-1999: Chairman, Department of Entomology, American Museum of Natural History.
1996-present: Curator, American Museum of Natural History.
1995-present: Adjunct Professor, Columbia University (Department of Ecology, Evolution, and Environmental Biology).
2008-present: Professor, Gilder Graduate School, Program in Comparative Biology, American Museum of Natural History

PRESENT AND FORMER STUDENTS AND POSTDOCS:

Vladimir Blagoderov, Presently: Natural History Museum, London.
Enrique Penalver, Presently: Curator, Museo Geominero, Madrid.
Valerie Schawaroch, Presently: Associate Professor, Baruch College, CUNY.
Rudolf Meier, Presently: Professor, National University of Singapore.
Caroline Chaboo, Presently: Assistant Professor, University of Kansas.
Torsten Dikow, Presently: Research Entomologist, Smithsonian Institution.
Jessica Ware, Presently: Associate Professor, Rutgers University, Newark.
Isabelle Veà, Presently: Postdoctoral Researcher, University of Nagoya, Japan.
Philip Barden, currently (started 2010): Phylogeny and fossil record of the basal lineages of ants.

CURATORIAL RESPONSIBILITIES

Lepidoptera, Diptera, Isoptera, minor Holometabolous orders, fossil insects and amber.

TRAVEL: Fieldwork, Museums

AFRICA: Tanzania (1995), Republic of South Africa (2005). **ASIA:** Vietnam (1998-2000), India (2008-present). **AUSTRALIA:** 2003, 2008. **EUROPE:** Austria (1996), Denmark (1998), England (1990, 1995, 1999, 2000, 2002), Germany (1994; 1996, 2009, 2010, 2011), Greece (2007), Hungary (1996, 2011), Italy (1995-2008), Poland (1996), Russia (1995, 2002), Scotland (2010), Slovakia (1992), The Netherlands (1995). **PACIFIC:** Hawaii (1993), Fiji Islands (2008), New Caledonia (2008). **NORTH AMERICA:** Alaska (1998, 2001), Arizona (1990-2000), Arkansas (1992), Florida (1995-2000), New Jersey (1992-1998), South Dakota (2010), Virginia (1998-present), Wyoming (1997-1999), Washington state (1994), Washington, D.C. (1985-present), **SOUTH AND CENTRAL AMERICA, CARIBBEAN:** Costa Rica (1989, 1991, 1993, 1995, 1999), Brazil (2000), Dominican Republic (1990, 1991, 1992, 1995), French Guiana (1997), Panama (1985, 1988, 1999), Peru (1984), Venezuela (1989 1991, 1993), Virgin Islands (British and U.S.) (1990, 1992, 1993).

SELECT PUBLICATIONS (2009-2014)

- Engel, M.S., D. Grimaldi, and K. Krishna. 2009. Termites: their phylogeny and rise to ecological dominance. *American Museum Novitates* 3650: 27 pp.
- Grimaldi, D.A., J. Cumming, and A. Arillo. 2009. The Chimeromyiidae, a new family of Eremoneura Diptera in amber from the Early Cretaceous. *Zootaxa* 2078: 34-54.
- Cognato, A. I. and D. A. Grimaldi. 2009. 100 million years of morphological stasis in bark beetles (Coleoptera: Curculionidae: Scolytinae). *Systematic Entomology* 34: 93-100.
- Krishna, K. and D. Grimaldi. 2009. Diverse Rhinotermitidae and Termitidae (Isoptera) in Dominican amber. *American Museum Novitates* 3640: 48 pp.
- Grimaldi, D. 2009. Pushing back amber production. *Science* 326: 51-52.
- Grimaldi, D. 2009. The Asteioinea of Fiji (Insecta: Diptera: Perisclididae, Asteiidae, Xenasteiidae). *American Museum Novitates* 3671: 59 pp
- Knight, T., P. S. Bingham, D. A. Grimaldi, K. Anderson, R. D. Lewis, and C. E. Savrda. 2010. A new Upper Cretaceous (Santonian) amber deposit from the Eutaw Formation of eastern Alabama, USA. *Cretaceous Research* 31: 85-93.
- Grimaldi, D. 2010. 400 million years on six legs: On the origins and early evolution of the Hexapoda. *Arthropod Structure and Development* 39: 191-203.
- Ware, J., D. Grimaldi, and M. S. Engel. 2010. The effects of fossil placement and calibration on divergence times and rates: An example from the termites (Insecta: Isoptera). *Arthropod Structure and Development* 39: 204-219.
- Rust, J. H. Singh, R. S. Rana, T. McCann, L. Singh, K. Anderson, N. Sarkar, P. C. Nascimbene, F. Gerdes, J. C. Thomas, M. Solórzano-Kraemer, C. J. Williams, M. S. Engel, A. Sahni, and D. Grimaldi. 2010. Biogeographic and evolutionary implications of a diverse paleobiota in amber from the Early Eocene of India. *Proceedings of the National Academy of Sciences* 107 (43): 18360-18365.
- Engel, M. S., H. Singh, P. C. Nascimbene, and D. Grimaldi. 2011. The termites (Insecta: Isoptera) in Early Eocene Cambay amber, with the earliest record of the Termitidae. In: *M.S. Engel (ed.), Contributions Celebrating Kumar Krishna. Zookeys* 148: 105-123.
- Grimaldi, D., A. Arillo, J. Cumming, and M. Hauser. 2011. Brachyceran Diptera (Insecta) in Cretaceous ambers, part IV: Significant new orthorrhaphous taxa. In: *M.S. Engel (ed.), Contributions Celebrating Kumar Krishna. Zookeys* 148: 293-332.

- Schmidt, A., S. R. Jancke, E. Ragazzi, G. Roghi, E. E. Lindquist, P. C. Nascimbene, K. Schmidt, T. Wappler, and D. A. Grimaldi. 2012. Arthropods in amber from the Triassic Period. *Proceedings of the National Academy of Sciences* 109: 14796-14801.
- Guanghai Shi, G. D. A. Grimaldi, G. E. Harlow, J. Wang, J. Wang, M. Yang, W. Lei, Q. Li, X. Li. 2012. Age constraint on Burmese amber based on U-Pb dating of zircons. *Cretaceous Research* 37: 155-163.
- Grimaldi, D. and A. H. Kirk-Spriggs. 2012. Fossil Curtonotidae (Diptera: Schizophora: Ephydroidea). *American Museum Novitates* 3760: 1-16.
- Grimaldi, D. and H. Singh. 2012. The extinct genus *Parenthychaeta* in Eocene amber (Diptera: Schizophora: Ephydroidea). *The Canadian Entomologist* 144: 17-28.
- Chatzimanolis, S., D. Grimaldi, M. S. Engel, and N. Fraser. 2012. *Leebermania prorova*, the earliest staphyliniform beetle, from the Late Triassic of Virginia (Coleoptera: Staphylinidae). *American Museum Novitates* 3761: 1-28.
- Vea, I. M. and D. Grimaldi. 2012. Phylogeny of ensign scale insects (Hemiptera: Coccoidea: Ortheziidae) based on the morphology of fossil and Recent females. *Systematic Entomology* 37: 758-783.
- Barden, P. and D. Grimaldi, 2012. Rediscovery of the bizarre Cretaceous ant *Haidomyrmex* Dlussky (Hymenoptera: Formicidae), with two new species. *American Museum Novitates* 3755: 1-16.
- Barden, P. and D. Grimaldi. 2013. A new genus of highly specialized ants in Cretaceous Burmese amber (Hymenoptera: Formicidae). *Zootaxa* 3681: 405-412.
- Engel, M.S., J. Ortega-Blanco, C. Soriano, D. A. Grimaldi, and X. Delclòs. 2013. A new lineage of enigmatic diaprioid wasps in Cretaceous amber (Hymenoptera: Diaprioidea). *American Museum Novitates* 3771: 1-23.
- Krishna, K., D. A. Grimaldi, V. Krishna, and M. S. Engel, and. 2013. Treatise on the Isoptera of the World. *Bulletin of the American Museum of Natural History* 377, vols. 1-7: 2,704 pp.
- Grimaldi, D.A., M. S. Engel, and H. Singh. 2013. Bugs in the biogeography: Leptosaldinae (Heteroptera: Leptosaldidae) in amber from the Miocene of Hispaniola and Eocene of India. *Journal of the Kansas Entomological Society* 86: 226-243.
- Grimaldi, D. A. and M. S. Engel. 2013. The relict scorpionfly family Meropeidae (Mecoptera) in Cretaceous amber. *Journal of the Kansas Entomological Society* 86: 253-263.
- Grimaldi, D. and M. A. Johnston. 2014. The long-tongued Cretaceous scorpionfly *Parapolycentropus* Grimaldi and Rasnitsyn (Mecoptera: Pseudopolycentropodidae): new data and interpretations. *American Museum Novitates* 3793: 1-23.
- Barden, P. and D. Grimaldi. 2014. A diverse ant fauna from the mid-Cretaceous of Myanmar (Hymenoptera: Formicidae). *PLOSone*, in press.