

**DAVID A. GRIMALDI**  
CURATOR AND PROFESSOR  
DIVISION OF INVERTEBRATE ZOOLOGY

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**HIGHEST DEGREE EARNED**

Ph.D.

**AREA OF SPECIALIZATION**

Systematics, paleontology, evolution of insects; amber fossils; structure of biological communities

**EDUCATIONAL EXPERIENCE**

B. Sc. University of Connecticut, 1979

M.Sc. in Evolutionary Biology, State University of New York, Binghamton 1983

Ph.D. in Entomology, Cornell University, 1986

**PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION**

TEACHING

Adjunct Professor, City University of New York (Graduate Program in Ecology and Evolutionary Biology), 1988-present

Adjunct Professor, Cornell University (Department of Entomology), 1994-present

Adjunct Professor, Columbia University (Department of Ecology, Evolution, and Environmental Biology), 1995-present

CLASSES

City University of New York (CUNY), *Evolution and Systematics of Insects and Arachnids* (1991, 1995, 2004)

Cornell University, *Insect Systematics* (1993)

Columbia University, *Insect Diversity* (1998, 2000, 2001, 2003, 2005, 2007)

DOCTORAL ADVISEES

Sara Lubkin, Cornell (2006)

Craig Gibbs, CUNY (present)

Torsten Dikow, Cornell (2007)

MASTER'S DEGREE COMMITTEES

Jeffrey Cook, Rutgers (1994)

Julian Stark, CUNY (1995)

DOCTORAL DISSERTATION COMMITTEES

Saskia Waters, Univ. Witwatersrand, as outside examiner (1992)

Rudolf Meier, Cornell (1997)

Amy Berkov, CUNY (1998)

Rick Baker, Yale (1999)

Valerie Schawaroch, CUNY (2000)  
Celeste Durando, CUNY (2000)  
Djunijanti Peggie, Cornell (2001)  
Caroline Chaboo, Cornell (2005)  
Sara Lubkin, Cornell (2006)  
Craig Gibbs, CUNY (present)  
Torsten Dikow, Cornell (2007)

#### POST-DOCTORAL STUDENTS

David Yeates (1992-1994)  
Rudolf Meier (1996-1997)  
Frank Röschmann (1997-1998)  
Vladimir Blagoderov (1999-2001)  
Valerie Schawaroch (2000-present)  
Enrique Penalver (2004-2006)  
Jessica Ware (present)

### **RESEARCH**

#### RESEARCH INTERESTS

Diversity, fossil record, and evolution of insects; fossilization in amber; *Drosophila* and the nature of species; biological communities; extinction and environmental deterioration.

#### COLLECTION STEWARDSHIP

Development of large collection of amber fossils through acquisitions and fieldwork including 8,000 specimens of amber fossils from the Miocene of the Dominican Republic and Oligocene of Mexico; 1,500 specimens of Eocene Baltic amber; and approximately 4000 specimens from the Cretaceous of New Jersey, Lebanon, and Burma (Myanmar).

Curation and research on 3,000 specimens of fossil insects from the Lower Cretaceous Santana Formation of Brazil, donated by Herbert Axelrod.

Databasing (text and image) of amber and Santana Formation collections.

Development of largest and most diverse collection of Drosophilidae (Diptera) in the world, c. 300,000 specimens and 2,000 species, through field work and acquisitions.

### **TRAVEL**

**Entomological Field work:** Costa Rica, Dominican Republic, Ecuador, Fiji, French Guiana, New Caledonia, Panama, Peru, Republic of South Africa, Tanzania, United States (Arizona, Arkansas, Eastern U.S., Florida, Georgia), Venezuela, Vietnam, Virgin Islands (British and U.S.).

**Geological excavations:** Alabama, Alaska, Dominican Republic, India, New Jersey, Washington, Wyoming.

**Work in major museums:** U.S. National Museum of Natural History (Smithsonian Institution); The Natural History Museum, London; Zoological Institute of the Humboldt University, Berlin; Zoological Museum of the University of Copenhagen; Paleontological Institute of the Russian Academy of Sciences, Moscow; Australian Museum, Sydney; Queensland Museum, Brisbane; Bernard Price Institute, University of the Witwatersrand, Johannesburg; Canadian National Collection, Ottawa; Museum of Comparative Zoology, Harvard Univ.; California Academy of Sciences, San Francisco; Bernice Bishop Museum, Honolulu.

## **RESEARCH GRANT SUPPORT**

### NON-FEDERAL FUNDING

Private Donations from Mr. Robert G. Goelet, Dr. Herbert Axelrod, and others  
National Geographic Society  
Niarchos Award (AMNH)

### FEDERAL GRANTS

5 National Science Foundation grants, from 1988 to present.

## **RECENT PUBLICATIONS (2003-2008)**

- Grimaldi, D. and D. Triplehorn. 2008. Insects from the Late Miocene Grubstake Formation of Alaska. *American Museum Novitates* 3612: pp.
- Grimaldi, D. A. and M. S. Engel. 2008. Termite bugs in Dominican amber (Heteroptera: Termitaphididae). *American Museum Novitates* 3619: pp.
- Grimaldi, D. A. 2008. A stalk-eyed ephydroid fly from the Eocene. *Proceedings of the Entomological Society of Washington* 110: pp
- Grimaldi, D. A. and M. S. Engel. 2008. An unusual, primitive piesmatid (Insecta: Heteroptera) in Cretaceous amber. *American Museum Novitates* 3611: 17 pp..
- Willkommen, J. and D. A. Grimaldi. 2007. Diptera: true flies, gnats, and crane flies. pp. 369-387, In: *ibid.*
- Grimaldi, D. A. 2007. Mantodea: praying mantises (pp. 234-238) In: D. M. Martill, G. Bechly, R. F. Loveridge (eds.), *The Crato Fossil Beds of Brazil, Window into an Ancient World*. Cambridge Univ. Press. xvi + 625 pp.
- Engel, M.S., D. Grimaldi, and K. Krishna. 2007. Synopsis of Baltic amber termites (Isoptera). *Stuttgarter Beiträge zur Naturkunde (B)* 372: 20 pp.
- Engel, M.S., D. Grimaldi, and K. Krishna. 2007. Primitive termites from the Early Cretaceous of Asia. *Stuttgarter Beiträge zur Naturkunde (B)*, 371: 32 pp.
- Grimaldi, D. A. and M. S. Engel. 2007. Why descriptive science still matters. *Bioscience* 57: 646-647.
- Engel, M.S. and D. A. Grimaldi. 2007. The neuropterid fauna of Dominican and Mexican amber (Neuropterida: Megaloptera, Neuroptera). *American Museum Novitates* 3587: 58 pp.
- Engel, M. S. and D. A. Grimaldi. 2007. New false fairy wasps in Cretaceous amber from New Jersey and Myanmar (Hymenoptera: Mymarommatoidea). *Transactions of the Kansas Academy of Science* 110: 159-168.

- Liu, Z., M. S. Engel, and D. Grimaldi. 2007. Phylogeny and geological history of the cynipoid wasps (Hymenoptera: Cynipoidea). *American Museum Novitates* 3583: 48 pp.
- Grimaldi, D. A. and M. S. Engel. 2007. Why descriptive science still matters. *BioScience* 57: 646-647.
- Lo, N., M. S. Engel, S. Cameron, C. A. Nalepa, G. Tokuda, D. Grimaldi, O. Kitade, K. Krishna, K.-D. Klass, K. Mackawa, T. Miura, G. J. Thomson. 2007. Save Isoptera: A comment on Inward et al. *Biology Letters* 3: 562-563.
- Blagoderov, V., D.A. Grimaldi, and N. Fraser. 2007. How time flies for flies: Diverse Diptera (Insecta) from the Late Triassic of eastern North America. *American Museum Novitates* X: 1-39.
- Engel, M.S. and D.A. Grimaldi. 2007. Cretaceous Scolebythidae and phylogeny of the family (Hymenoptera: Chrysidoidea). *American Museum Novitates* 3568: 1-16.
- Amorim, D. S. and D. Grimaldi. 2006. Valeseguyidae, a new family of Diptera in the Scatopsoidea, with a new genus in Cretaceous amber from Myanmar. *Systematic Entomology* 29: 1-9.
- Engel, M.S., and D.A. Grimaldi. 2006. A diminutive peleciniid wasp in Cretaceous amber from New Jersey (Hymenoptera: Peleciniidae). *Northeastern Naturalist* 13: 291-297.
- Engel, M.S., and D.A. Grimaldi. 2006. The first Cretaceous spider wasp (Hymenoptera: Pompilidae). *Journal of the Kansas Entomological Society* 79: 359-368.
- Grimaldi, D.A., and M.S. Engel. 2006. Extralimital fossils of the Gondwanan family Sphaeropsocidae (Psocodea). *American Museum Novitates* 3523: 1-18.
- Peñalver, E., and D.A. Grimaldi. 2006. New data on Miocene butterflies in Dominican amber (Lepidoptera: Riodinidae and Nymphalidae) with the description of a new nymphalid. *American Museum Novitates*. 3519: 1-17.
- Peñalver, E., D.A. Grimaldi, and X. Delclòs. 2006. Early Cretaceous spider web with its prey. *Science* 312: 1761.
- Peñalver, E., M.S. Engel, and D.A. Grimaldi. 2006. Fig wasps (Hymenoptera: Agaonidae) in Miocene amber from the Dominican Republic. *American Museum Novitates* 3541: 1-16.
- Grimaldi, D. and M. S. Engel. 2005. *Evolution of the Insects*. New York: Cambridge University Press. Vii+ 755 pp.
- Grimaldi, D., J. Kathirithamby, and V. Schawaroch. 2005. Strepsiptera and triungula in Cretaceous amber. *Insect Systematics and Evolution* 36: 1-20.
- Peñalver Molla, E. and D. Grimaldi. 2005. Miocene assemblages of blood-feeding midges and their mammalian hosts (Insecta: Diptera: Psychodidae: Phlebotominae). *Transactions of the Royal Society of Edinburgh (Earth Sciences)*.
- Engel, M.S. and D. Grimaldi. 2004. New light shed on the oldest insect. *Nature* 427: 627-630.
- Engel, M. S. and D. Grimaldi. 2004. A new rock crawler in Baltic amber, with comments on the order (Mantophasmatodea: Mantophasmatidae). *American Museum Novitates* 3431: 11 pp.

- Blagoderov, V. and D. Grimaldi. 2004. Fossil Sciaroidea (Diptera) in Cretaceous ambers, exclusive of Cecidomyiidae, Sciaridae, and Keroplatidae. *American Museum Novitates* 3433: 76 pp.
- Ross, A.J., and D. Grimaldi. 2004. *Raphidiomimula*, an enigmatic new cockroach in Cretaceous amber from Myanmar (Burma) (Insecta: Blattodea: Raphidiomimidae). *Systematic Palaeontology* 2: 101-104.
- Engel, M.S. and D.A. Grimaldi. 2004. A primitive earwig in Cretaceous amber from Myanmar (Dermaptera: Pygidicranidae). *Journal of Paleontology* 78: 1018-1023.
- Grimaldi, D., A. Shmakov, and N. Fraser. Mesozoic thrips and early evolution of the order Thysanoptera (Insecta). *Journal of Paleontology* 78: 941-952.
- Borkent, A. and D. Grimaldi. 2004. The earliest fossil mosquito (Diptera: Culicidae) in mid-Cretaceous Burmese amber. *Annals of the Entomological Society of America* 97: 882-888.
- Schawaroch, V. and D. Grimaldi. 2004. Focusing on morphology: applications and implications of confocal laser scanning microscopy (Diptera: Campichoetidae, Camillidae, Drosophilidae). *Proceedings of the Entomological Society of Washington* 107: 323-335.
- Engel, M.S., and D. A. Grimaldi. 2004. The first Mesozoic stephanid wasp (Hymenoptera: Stephanidae). *Journal of Paleontology* 78: 1192-1197.
- Grimaldi, D. 2003. "Coevolution" (pgs. 235-237), "Pollination" (pgs. 574-577), and "Terrestrial Arthropods" (pgs. 149-157), in *Life on Earth: An Encyclopedia of Biodiversity, Ecology, and Evolution*. Santa Barbara: ABC CLIO.
- Krishna, K., and D. Grimaldi. 2003. The first Cretaceous Rhinotermitidae (Isoptera): A new species, genus, and subfamily in Burmese amber. *American Museum Novitates* 3390: 10 pp.

#### **SPECIAL RECOGNITION/AWARDS**

Thomas Say Award of the Entomological Society of America, 2007, for outstanding contributions to insect systematics.