

VitaeNAME AND CURRENT POSITION:

David E. Giannasi, Associate Professor of Botany  
Herbarium Director, Department of Plant Biology, University of Georgia, Athens,  
Georgia 30602.

TELEPHONE: (706) 542-1819 (office)

EDUCATION:

B.S., Biology, 1965 - Wayne State University, Detroit  
M.S., Biology, 1967 - Wayne State University, Detroit  
Ph.D., Botany, 1972 - University of Iowa, Iowa City

PROFESSIONAL EXPERIENCE:

Graduate Teaching Assistant: Wayne State University, 1966;  
Graduate Teaching Assistant: University of Iowa, 1968-1971.  
Assistant Professor of Biology: Winona State University, Winona, MN, 1971-1972.  
Caspary Associate Curator: The New York Botanical Garden, 1972-1977.  
Caspary Curator, The New York Botanical Garden, 1977-1978.  
Adjunct Assistant Professor of Biology: H. Lehman College, CUNY, 1972-1978.  
Member, Doctoral Faculty, City University of New York, 1973-1978.  
Assistant Professor of Botany: University of Georgia, Athens, 1978-82.  
Associate Professor of Botany: University of Georgia, Athens, 1982-  
Member, Doctoral Faculty, University of Georgia, 1978-current

ADMINISTRATIVE EXPERIENCE:

Administrator, Graduate Studies Program, The New York Botanical  
Garden/Herbert Lehman College, C.U.N.Y., New York. 1974-1976.  
Director, C. B. Harding Laboratory, The New York Botanical Garden, 1977-1978.  
Director, University of Georgia Herbarium, 1991-current

TEACHING EXPERIENCE:

Winona State University, Winona, MN (1971-1972)

Genetics  
General Botany I - Form and Function  
General Botany II - Survey of Plant Kingdom  
Plant Morphology  
Plant Anatomy

Human Biology

The New York Botanical Garden, Bronx, NY (1972-1978)

Genetics - College Extension Credit Program

Lehman College, City University of New York, New York, NY (1972-1978)

Biochemical Systematics

University of Georgia, GA (1978-present)

General Botany (BOT. 1220)

Herbs, Spices and Medicinal Plants (HORT/PBIO/ANTH 3440)

Concepts of Plant Physiology (PBIO 3830)

Biology of Natural Plant Products (PBIO 4250/6250)

Collections Management (PBIO/ZOO./ENT. 4260/6260)

Biochemical Systematics (PBIO 4350/6350)

Plant Taxonomy (BOT. 4650/6650)

Principles of Plant Systematics (PBIO 4710/6710)

Advances in Chemosystematics (PBIO 8060)

Aquatic Plants (BOT. 8600)

Seminar in Plant Systematics/Evolution (PBIO 8800)

PROFESSIONAL SOCIETIES:

American Society of Plant Taxonomists

Botanical Society of America

International Association of Plant Taxonomists

Sigma Xi

PROFESSIONAL OFFICES/SERVICES:

Secretary-Treasurer, Phytochemical Section, Botanical Society of America, 1973-1975.

Member of the Council, Torrey Botanical Club, 1978-1980.

Member, Editorial Representative, Systematics Section, American Journal of Botany, Botanical Society of America, 1979-82.

President, Phytochemical Section, Botanical Society of America, 1981- 1982.

Treasurer; Phytochemical Section, Botanical Society of America, 1986-.

Chairman, Phytochemical Section, Botanical Society of American, AIBS Annual Meetings, Toronto, Canada August 10, 1989.

Judge, Cooley Award, ASPT/BSA; AIBS, Honolulu, Hawaii, August, 1992.

EDITORIAL EXPERIENCE:

Associate Editor, Phytochemical Bulletin, Phytochemical Section, Botanical

Society of America, 1974-1975.  
 Associate Editor, Brittonia, A Journal of Systematic Botany, The New York Botanical Garden, 1975-1978.  
 Editor, Phytochemical Bulletin, Phytochemical Section. Botanical Society of America, 1986- 1992.  
 Member, Editorial Board, Systematic Monographs. American Society of Plant Taxonomists 1990-1992.  
 Associate Editor, Plant Systematics and Evolution, 1994-1998.  
 Editor-in-Chief, Systematic Botany, Amer. Soc. Plant Taxonomists, 1996-1999  
 Associate Editor, American Journal of Botany, 1998-current  
 Associate Editor, Taxon, 2002-current

#### ACADEMIC COMMITTEE EXPERIENCE:

Member, Doctoral Exams Committee, Plant Systematics, City University of New York (CUNY), 1974-1976.  
 Chairman, Doctoral Exams Committee, Plant Systematics, CUNY, 1977.  
 Member, Doctoral Exams Committee, Genetics, CUNY, 1978.  
 Member, Graduate Faculty, University of Georgia, 1979-Current  
 Member, Master/Ph.D. Reading/Examination Committees, Department of Botany, University of Georgia, 1978-.  
 Subcommittee, Curriculum Revision, Plant Systematics, Department of Botany, University of Georgia, 1979, 1982.  
 Member, Faculty Recruitment Committee, Population Biology, Department of Botany, University of Georgia, 1981.  
 Member, Graduate Studies Committee, Department of Botany, University of Georgia, 1981-1986.  
 Member, Georgia State Botanical Garden Advisory Committee, 1981-1983.  
 Member, Executive Committee, Department of Botany, University of Georgia, Athens, 1982-1984,  
 Chairman, Semester Conversion Committee, Plant Systematics, Department of Botany, University of Georgia, Athens, 1983.  
 Member, Faculty Senate, University of Georgia, 1984-1987.  
 Member, Committee on Committees, Faculty Senate, Franklin College, University of Georgia, 1986.  
 Member, Committee for Professional Concerns, Faculty Senate, Franklin College, University of Georgia, 1984-1987.  
 Chairman, Dean's Committee, Graduate School; Evaluation of the Genetics Department, University of Georgia, 1986.  
 Member, Five Year Plan Committee, Botany Dept. University of Georgia, 1988.  
 Member, Curriculum Revision Committee, Systematics, Plant Population Biology, Botany Dept., University of Georgia, 1989.  
 Member, Faculty Teaching Review Committee, Botany Dept. UGA, 1988-2002.  
 Chairman, Search Committee in Plant Systematics, 1991-1992.  
 Member, Executive Committee, Botany Dept. UGA, 1997-1999  
 Chairman, Search Committee for Director GA Museum of Natural History, 1997.

Member, Executive Committee, UGA Museum of Natural History, 1997-current  
 Member, Strategic Planning Committee, UGA Museum of Natural History, 1997.  
 Member, Search Committee, Evolutionary Biology. Botany, 1999-2000.  
 Member, Search Committee, Herbarium Curator. Dept. of Botany, 2000.

JOURNAL REVIEW EXPERIENCE:

American Journal of Botany  
Biochemical Systematics and Ecology  
Canadian Journal of Botany  
Systematic Botany  
Annals of the Missouri Botanical Garden  
Molecular Phylogenetics and Evolution  
Brittonia  
Journal of Heredity

FIELD WORK:

1968 - Mexico, Dahlia (Compositae).  
 1972-1973 - Rocky Mountains, Geranium (Geraniaceae).  
 1977-1979 - Oregon, Idaho, fossil angiosperm collections.  
 1978,1981 - Georgia, plant collections for chemical studies.  
 1988,1990 - Idaho, fossil angiosperm collections.  
 1991-1992 - Fort Gordon Military Reservation; threatened and endangered  
 plant species survey for U.S. Fish and Wildlife.  
 1992-1995 - Fort Stewart Military Reservation; threatened and endangered plant  
 species survey: for Nature Conservancy.  
 1995,1996 - Brazil, Velloziaceae, Cerrado and Campos Rupestris  
 (with Antonio & Maria Luiza Salatino).  
 1995-1997 - Stone Mountain - Comprehensive Plant Survey, GA Park System.  
 1998-2001-Non park area at Callaway Gardens, Pine Mountain, GA.  
 2000-Córdoba, Argentina. Field Studies of Alloysia (Verbenaceae).  
 2003-Florida, National Park Service.

SABBATICAL RESEARCH:

Molecular Systematics of Caryophyllidae with Dr. M. T. Clegg, University of  
 California, Riverside and Dr. G. Zurawski. DNAX Corporation, Palo Alto,  
 CA. 9-87 to 3-88.

HONORS AND AWARDS:

Election to Phi Sigma Phi, 1995  
 Michael Research Award, 1995

GRANTS:

- NSF Institutional Grant: A Chemotaxonomic Study of Dahlia coccinea (Compositae), 1973, \$700, Winona State University.
- NSF Grant BMS74-18294: A Systematic Survey of Flavonoids in South American Species of Cassia (Leguminosae), 1974-1976, \$31,000, The New York Botanical Garden.
- NSF Grant DEB874-18294-II: Renewal of BMS74-18294, 1977-1979, \$33,000, The New York Botanical Garden.
- UGA Small Grants Research Program: Chemosystematic Study of Goldenrods (Solidago) 1978, \$2,400, University of Georgia.
- NSF Grant DEB-7904551: Paleobiochemistry of Fossil Angiosperms, 1979-1981, \$26,000, University of Georgia.
- NSF Grant DEB-7904551-Amended; supplemental award, 1980-1981, \$5,090, University of Georgia.
- NSF Grant DEB-8120515: Renewal; Paleobiochemistry of Fossil Angiosperms, 1982-1985, \$100,000, University of Georgia. Michael Research Award, 1990: Paleomolecular Studies on Fossil Plants. University of Georgia, \$2,500.
- University of Georgia: Vice-President for Research; Paleomolecular Studies of Fossil Plants 1990-91, \$4,300.
- Fish and Wildlife Service. Survey of Threatened and Endangered Species on Fort Gordon Military Reservation, Augusta, Georgia. 1991-1992. \$5676. (With Michael O. Moore).
- Nature Conservancy of Georgia. Student Support Grant. Threatened and Endangered Species Survey of Fort Stewart Military Reservation, Hinesville, Georgia. 1992, \$9,000 (in support of Ms. Mary Hay, Ph.D. Candidate, Department of Botany, University of Georgia).
- Nature Conservancy of Georgia. Survey of Threatened and Endangered species of Fort Stewart Military Reservation, Hinesville, Georgia. Three years, 1992-1995. \$22,320. (With Michael O. Moore).
- USDA - Byron, GA. SE Fruit and Tree Nut Research Laboratory. Flavonoid and Molecular Investigations on Prunus (Rosaceae) \$2,000. 1992-93.
- Stone Mountain State Park. A Plant Survey of Stone Mountain State Park, Stone Mountain, GA. 1994-96, \$16,000. (With M. O. Moore).
- Callaway Gardens, Total Survey, non park areas 1998-2000 - \$17,000.
- Georgia Plant Atlas.V-P Services , \$15,000; 20,000, DNR, Total \$35.
- Plant Survey of Fort Matanzas, Castillo de San Marcos, Fort Caroline, Timucuan Ecological Reserve, FL and Cumberland Island National Seashore, National Park Service, 2003-2006, \$65,000.

PUBLICATIONS (Refereed):

- Giannasi, D. E. and C. M. Rogers. 1970. Taxonomic significance of floral pigments in Linum (Linaceae). *Brittonia* 22: 163-174.

- Giannasi, D. E. 1974. Phytochemical aspects of fern systematics. *Annals Missouri Bot. Garden* 61: 368-378.
- Giannasi, D. E. 1975. The flavonoid systematics of the genus Dahlia (Compositae). *Memoirs N. Y. Botanical Garden* 26: 1-125.
- Giannasi, D. E. 1975. Flavonoid chemistry and evolution in Dahlia (Compositae). *Bull. Torrey Bot. Club* 102: 404-412.
- Giannasi, D. E. and T. I. Chuang. 1976. Flavonoid systematics of the genus Perideridia (Umbelliferae). *Brittonia* 28: 177-194.
- Niklas, K. J. and Giannasi, D. E. 1977. Flavonoids and other chemical constituents of fossil Miocene Zelkova (Ulmaceae). *Science* 196: 877-878.
- Giannasi, D. E. and K. J. Niklas. 1977. Flavonoid and other chemical constituents of fossil Miocene Celtis and Ulmus (Succor Creek Flora). *Science* 197: 765-767.
- Niklas, K. J. and D. E. Giannasi. 1977. Geochemistry and thermolysis of flavonoids. *Science* 197: 767-769.
- Maguire, B., P. S. Ashton, C. deZeeuw, K. J. Niklas and D. E. Giannasi. 1977. Pakaraimoideae, Dipterocarpaceae of the western hemisphere. *Taxon* 26(4): 341-385.
- Giannasi, D. E. 1978. Generic relationship in the Ulmaceae based on flavonoid chemistry. *Taxon* 27(4): 331-344.
- Niklas, K. J. and D. E. Giannasi. 1978. Angiosperm paleobiochemistry of the Succor Creek flora (Miocene) Oregon, U.S.A. *Amer. J. Bot.* 65: 943-952 (With K. J. Niklas).
- Giannasi, D. E. 1979. Systematic aspects of flavonoid biosynthesis and evolution. *Botanical Review* 44: 399-429.
- Giannasi, D. E. and J. T. Mickel. 1979. Systematic implications of flavonoid pigments in the fern genus Hemionitis (Adiantaceae). *Brittonia* 31: 405-412.
- Coradin, L. and D. E. Giannasi. 1980. The effects of chemical preservation on plant collections to be used in chemotaxonomic surveys. *Taxon* 29: 33-40.
- Giannasi, D. E. 1980. Flavonoid evidence for generic lines in selected gymnogammoid ferns. *Bull. Torrey Bot. Club.* 107: 128-133.
- Giannasi, D. E. and J. Niklas. 1981. Comparative paleobiochemistry of some fossil and extant Fagaceae. *Amer. J. Bot.* 68: 762-770.

- Haufler, C. H. and D. E. Giannasi. 1982. A chemosystematic survey of the fern genus Bommeria. *Biochemical Syst. Ecol.* 10: 107-110.
- Crawford, D. J. and D. E. Giannasi. 1982. Plant chemosystematics. *Bioscience* 32: 114-124.
- Wallace, J., K. Markham, J. Mickel, D. Yopp, L. Gomez, J. Pattillo, R. Soeder and D. E. Giannasi. 1982. A survey for 1,3,6,7-tetrahydroxy-C-glycosylxanthenes emphasizing the primitive leptosporangiate ferns and their allies. *Amer. J. Bot.* 69: 356-362.
- Schoen, D., R. A. Ennos, M. T. Clegg and D. E. Giannasi. 1984. Stem color and pleiotropy of genes determining flower color in the common morning glory, Ipomoea purpurea (Convolvulaceae). *Journ. Hered.* 75:113-116.
- Niklas, K. J. and D. E. Giannasi. 1985. The paleobiochemistry of fossil angiosperm floras. I. Chemosystematic aspects. In: *Late Cenozoic History of the Pacific Northwest*. AAAS (Pacific Division, San Francisco) pp. 161-174. (C. J. Smiley, ed.).
- Niklas, K. J. and D. E. Giannasi. 1985. The paleobiochemistry of fossil angiosperm floras. II. Fossil diagenesis. *Ibid.* p. 175-183.
- Coradin, L. G. T. Prance and G. T. Prance. 1985. Chemosystematic studies in the Chrysobalanaceae. I. Flavonoids in Parinari. *Brittonia* 37:169-178.
- Niklas, K. J., D. E. Giannasi and N. L. Baghai. 1985. Paleobiochemistry of a North American fossil Liriodendron sp. *Bioch. Syst. Ecol.* 13:1-4.
- Giannasi, D. E. 1986. Phytochemical aspects of phylogeny in Hamamelidae. *Annals of the Missouri Bot. Gard.* 73:417-437.
- Moore, M. O. and Giannasi D. E. 1987. Foliar flavonoids of selected Vitis taxa in the southeastern United States. *Bioch. Syst. Ecol.* 14:79-83.
- Sherman-Broyles, S. and Giannasi, D. E. 1988. Foliar flavonoids of Ulmus in North America. *Bioch. Syst. Ecol.* 16:51-56.
- Golenberg, E. M., D. E. Giannasi, M. T. Clegg, C. J. Smiley, M. Durbin, D. Henderson, and G. Zurawski. 1990. Chloroplast DNA sequence from a Miocene Magnolia species. *Nature.* 344:656-658.
- Giannasi, D. E. 1990. The Clarkia "fossil" leaves: Windows to the past. *Northwest Science* 64:232-235.

- Rettig, J. H. and D. E. Giannasi. 1990. Foliar flavonoids of The Carex nigromarginata complex (Section Acrocystis, Cyperaceae). *Bioch. Syst. Ecol.* 18:395-397.
- Chang, C. S. and D. E. Giannasi. 1991. Foliar flavonoids of Acer, section Palmata, series Palmata. *Syst. Bot.* 16:225-241.
- Giannasi, D. E., G. Zurawski, G. Learn and M. T. Clegg. 1992. Evolutionary relationships of the Caryophyllidae based on comparative rbcL sequences. *Systematic Botany* 17:1-15.
- Moore, M. O. and D. E. Giannasi. 1994. Vascular Plant Type Specimens in the University of Georgia Herbarium, with a Brief History of the Herbarium. *Sida* 16:139-151.
- Moore, M. O. and D. E. Giannasi. 1994. Foliar flavonoids of eastern North American Vitis (Vitaceae) north of Mexico. *Pl. Syst. Evol.* 193:21-36.
- Gunter, L. E., G. Kochert, and D. E. Giannasi. 1994. Phylogenetic relationships of the Juglandaceae. *Pl. Syst. Evol.* 192: 11-29.
- Johnson, K. S., F. A. Eischen and D. E. Giannasi. 1994. Chemical composition of North American bee propolis and biological activity towards larvae of greater wax moth (Lepidoptera: Pyralidae). *Jour. Chem. Ecol.* 20: 1783-1791.
- Salatino, A., M. L. F. Salatino and D. E. Giannasi. 2000. Flavonoids and the taxonomy of Cercis. *Biochem. Syst. Ecol.* 28: 545-550.
- Salatino, A., M. L. Salatino, Renato de Mello-Silva, M.-A. van Sluys, D. E. Giannasi and R. A. Price. 2001. Phylogenetic inference in Velloziaceae using chloroplast TrnL-F sequences. *Syst. Bot.* 26: 92-103.
- Piluk, J., P. G. Hartel, B. L. Haines, and D. E. Giannasi. 2001. Association of carbon disulfide with plants in the family Fabaceae. *Jour. Chem. Ecol.* 27: 1525-1534.
- Trapnell, D. W., J. L. Hamrick, and D. E. Giannasi. In press. Genetic variation and species boundaries in Calopogon (Orchidaceae). *Syst. Bot.*

#### Book Chapters (Invited Contribution)

- Giannasi, D. E. and D. J. Crawford. 1986. Biochemical Systematics. II. A Reprise. *Evolutionary Biology*, Vol. 20. (M. K. Hecht, B. Wallace and G.T. Prance, eds.). pp. 25-248. Plenum Press, New York.
- Giannasi, D. E. 1988. Flavonoid distribution and evolution in dicotyledons. In:

Flavonoids: Advances in Research, Vol. 3 (1981-1985), J. B. Harborne, ed. Chapman and Hall, London pp. 479-504.

Giannasi, D. E. 1992. Feasibility of obtaining comparative gene sequence data from preserved and fossil materials. Pp. 75-98. In: Conservation of Plant Genes through DNA Banking and In Vitro Biotechnology, R. P. Adams, ed. Academic Press, Orlando.

Technical Notes, Educational Reviews:

1972.\* Ultraviolet color slide photography of flavonoid compounds. Phytochemical Bulletin 5(1): 5-7.

1977.\* A spotting table for paper chromatography. Phytochemical

1977. The green fossils. Garden 1: 7-11. (With K. J. Niklas).

1980.\* Chemotaxonomy. McGraw-Hill Yearbook of Science and Technology.

1985.\* Secondary Plant Products. McGraw-Hill Yearbook of Science and Technology.

1992. Environmental Design: Choice at the Crossroads. Georgia Landscape 1992.

1995. Flowering Plants, Collier Encyclopedia.

1996. The Flower. McGraw-Hill Yearbook of Science and Technology.