

BIOGRAPHICAL SKETCH

ALFRED ERNEST SCHUYLER

ADDRESSES: (1) Academy of Natural Sciences of Philadelphia, 1900 Benjamin Franklin Parkway, Philadelphia PA 19103-1195. Voice 215/405-5088, Fax 215/299-1028, email schuyler@ansp.org. (2) 2043 Brandywine St., Philadelphia PA 19130. Voice 215/568-2594.

EDUCATION: Ph.D. University of Michigan 1963; A.M. University of Michigan 1958; A.B. Colgate University 1957.

POSITIONS: (1) The Academy of Natural Sciences of Philadelphia: Curator Emeritus 2000-present, Associate Curator 1969-2000, Assistant Curator 1962-1969; Acting Chairman of Botany 1990-1999, Chairman 1962-1975; Editor of Scientific Publications 1992-1996, Associate Editor of Scientific Publications 1978-1987 (Acting Editor 1982). (2) Arboretum of the Barnes Foundation: Instructor 1994-present. (3) Wagner Free Institute of Science: Professor 2000-present. (4) Millersville University: Adjunct Professor 2003-2004. (5) Henry Foundation for Botanical Research: Director of Research 1999-2000, Instructor 1997. (6) Drexel University: Visiting Research Professor 1998-1999. (7) Swarthmore College: Visiting Lecturer/Visiting Professor periodically from 1967-1997. (8) Flathead Lake Biological Station, University of Montana: Visiting Professor/Faculty Affiliate periodically from 1978-1997. (9) Rutgers University Camden: Visiting Professor 1981-1982, Adjunct Member of Graduate Faculty 1992-present. (10) W. K. Kellogg Biological Station, Michigan State University: Visiting Professor 1966.

HONORARY POSITIONS: Research Associate, Morris Arboretum of the University of Pennsylvania 1971-present; Research Associate, Hudsonia Ltd., Bard College Field Station 1997-present; Honorary Member, Philadelphia Botanical Club 2000-present; President, Friends of the Ewell Sale Stewart Library, Academy of Natural Sciences 2005-2009.

PROFESSIONAL INTERESTS: Systematics and ecology of rare plants; relationships between plant diversity and environmental quality; history of botanical exploration in North America; teaching university, college, and adult education courses in plant systematics, ecology, and environmental issues.

ORGANIZATIONS: Philadelphia Botanical Club: Treasurer 2007-2010; President 2000-2004, Editor of Journal 1970-1999, Chairman of Centennial Committee 1988-1991, Vice President 1968-1973; Philadelphia Chapter of the Lewis and Clark Trail Heritage Foundation: Vice President 2006-2008, Board of Directors 2002-2005; Sigma Xi: member 1958-present; Northeastern Section of Botanical Society of America: Secretary-Treasurer 1979-1981; New Jersey Academy of Science: Associate Editor 1972-1978.

COMMITTEES: Advisory Committee for Systematic Resources in Botany, National Science Foundation 1972-1974; Natural Areas Project Advisory Committee, Pennsylvania Department of Environmental Resources 1979; Pennsylvania Natural Diversity Inventory Advisory Committee, Western Pennsylvania Conservancy and Pennsylvania Department of Environmental Resources 1981; Rare Plant Committee of the Pennsylvania Native Plant Society 1983-1997; Vascular Plants Technical Committee, Pennsylvania Biological Survey 1987-1997; Advisory Board of the Watershed Grants Program, William Penn Foundation 2003-2005; Advisory Committee, Rutgers Pinelands Field Station 1995-present.

GRANTS: Harley H. Bartlett Plant Exploration Fund, University of Michigan, for field work in northeastern United States in 1959 and 1960. American Philosophical Society for field work in eastern North America in 1963 and 1964, for visits to European museums in 1966, for scanning electron microscopy of sedge fruits in 1970, and for field work in estuaries near Philadelphia in 1972 and 1973. National Science Foundation for care and maintenance of the Academy's herbarium from 1972-1977. Pennsylvania Department of Environmental Resources mini-grants for field work in the Delaware Estuary in 1986, and in the Delaware River between the Water Gap and Trenton in 1988.

AWARDS: Science Award, 1991, from The Nature Conservancy for outstanding service to conservation.

SELECTED CONTRACT WORK:

- Potomac Electric Power Company: survey of intertidal and aquatic vascular plants of the Patuxent River near Benedict, Maryland, 1974.
- Group for America's South Fork: mapping wetlands of Mashomack, Shelter Island, New York, 1978 and 1979.
- Environmental Protection Agency: survey of aquatic and wetland plants of Pool 19, Mississippi River, 1979 and 1980.
- Pennsylvania Power and Light Company: vegetation survey in an extensive area around a nuclear powerplant near Berwick, Pennsylvania, 1980-1982.
- Sears Foundation for Marine Research: Consulting Editor of Fishes of the Western North Atlantic, Parts 8 and 9, 1981, 1982, and 1987-1989.
- National Park Service: flora and curation of collections, Hopewell Furnace National Historic Site, Pennsylvania, 1986 and 1988.
- U.S. Fish and Wildlife Service: taxonomic relationships of eastern North American estuarine species of *Bacopa*, 1988 and 1989; evaluation of the taxonomic status of *Panicum hirstii*, 1992 and 1993; determination of characteristics to identify *Scirpus ancistrochaetus* in its vegetative state, 1993 and 1994; status survey of *Panicum hirstii* in New Jersey and Delaware, 1996-1998.
- New Jersey Department of Environmental Protection: reports on the biology, ecology, and management of 21 endangered plant species, 1989 and 1990.
- Delaware Natural Heritage Inventory: vegetation survey of selected freshwater wetlands with impeded and unimpeded tidal flow in New Castle County, Delaware, 1992.
- The Nature Conservancy: Survey of forest and marsh vegetation at the DuPont Koppers superfund site, New Castle County, Delaware, 1997.

SELECTED PUBLICATIONS:

1962. A new species of *Scirpus* [*ancistrochaetus*] in the Northeastern United States. *Rhodora* 64:43-49.
1967. A taxonomic revision of North American leafy species of *Scirpus*. *Proc. Acad. Nat. Sci. Philadelphia* 119: 295-323.
1971. Scanning electron microscopy of achene epidermis in species of *Scirpus* (Cyperaceae) and related genera. *Proc. Acad. Nat. Sci. Philadelphia* 123:29-52.
1971. Some relationships in Scirpeae bearing on the delineation of genera. *Mitt. Bot. Statssamm. München* 10:577-585.
1980. (with Wayne R. Ferren, Jr.) Intertidal vascular plants of river systems near Philadelphia. *Proc. Acad. Nat. Sci. Philadelphia* 132:86-120.
1985. (with James L. Stasz) Influence of fire on reproduction in *Scirpus longii*. *Bartonia* 51:105-107.
1988. Submergent and planmergent flora of the freshwater portion of the Delaware estuary. Pages 157-168 in S. K. Majumdar, E. W. Miller, and L. E. Sage, eds. *Ecology and restoration of the Delaware River Basin*. The Pennsylvania Academy of Science, Easton.
1989. Intertidal variants of *Bacopa rotundifolia* and *B. innominata* in the Chesapeake Bay Drainage. *Bartonia* 55: 18-22.
1993. (with Sarah B. Andersen and Valerie J. Kolaga) Plant zonation changes in the tidal portion of the Delaware River. *Proc. Acad. Nat. Sci. Philadelphia* 144:263-266.
1999. Defining Nature and protecting rare plants. *Ecological Restoration* 17:5-7.
1999. (with James L. Reveal and Gary E. Moulton) The Lewis and Clark collections of vascular plants: names, types, and comments. *Proc. Acad. Nat. Sci. Philadelphia* 149:1-64.
2000. Cyperaceae sedge family (except *Carex*). Pages 727-728 and 806-835 in Ann Fowler Rhoads and Timothy A. Block. *The plants of Pennsylvania, an illustrated manual*. University of Pennsylvania Press, Philadelphia.
2002. (with Alan T. Whittemore) *Scirpus*. Pages 8-21 in *Flora of North America* editorial committee. *Flora of North America north of Mexico*. Vol. 23. Magnoliophyta: Commelinidae (in part): Cyperaceae. Oxford University Press, Oxford.
2004. (with Elizabeth P. McLean) The versatile Bartrams and their enduring botanical legacy. Pages 185-201 in Nancy E. Hoffmann and John C. Van Horne, eds. *America's curious botanist: a tercentennial reappraisal of John Bartram 1699-1777*. *Memoirs of the American Philosophical Society* volume 249, Philadelphia.

Brief Biography

Alfred E. (Ernie) Schuyler is Curator Emeritus of Botany at The Academy of Natural Sciences, where he has worked since 1962. He received his A.B. in botany from Colgate University in 1957 and his Ph.D. in botany from the University of Michigan in 1963. Most of his publications are on the systematics of sedges, the distribution and ecology of aquatic plants, the systematics and ecology of rare plants, and the history of systematic botany. Current research interests include the systematics and ecology of rare plant species, the relationships between plant diversity and environmental quality, and the history of botany and botanical illustration. He has taught at Swarthmore College, the University of Montana, Rutgers University, Millersville University, and Michigan State University. He presently teaches adult education courses at the Arboretum of the Barnes Foundation, the Wagner Free Institute of Science, and the Pennsylvania Horticultural Society.