

CURRICULUM VITAE

THOMAS B. CROAT, P. A. Schulze Curator of Botany

Missouri Botanical Garden

P.O. Box 299, St. Louis, Missouri 63166, Phone 314-577-5163

Home: 5600 Hillview Drive, Pacific, MO 63069, Phone: 636-271-5666

Personal Data

Born: 23 May 1938, St. Mary's, Iowa, U.S.A.

Married: September 1965, Patricia Swope

Children: Anne, born 1970

Kevin, born 1972

Education

1956 U.S. Army Guided Missiles School, Ft. Sill, Oklahoma, radar operations AN-MPQ-10

1957 U.S. Army Signal School - Europe - Ansbach, Germany, electronics, radar repair

B.A. 1962 Simpson College, Indianola, Iowa. Major, Biology; Minor, Chemistry. Professional teacher's certificate, University fellowships, NDEA student loans; 4 of 8 semesters on Dean's List; Tri-Beta, honorary biological fraternity

M.A. 1966 University of Kansas, Lawrence, Kansas; NDEA fellowship; Botany participation in Organization for Tropical Studies Program, summer 1965, "Anatomy of Tropical Monocotyledons (Tomlinson)." Thesis: The genus *Solidago* in Kansas

Ph.D. 1967 University of Kansas; NDEA fellowship; NSF Evolutionary Biology

Botany Award (for fieldwork in Great Plains of U.S. and Canada). Thesis: The genus *Solidago* of the north central Great Plains

Appointments and Teaching Experience

1956-1958 Radar Technician, U.S. Army

- 1962-1963 Teacher, Charlotte Amalie High School, St. Thomas, Virgin Is.
 1963-1964 Teacher, Knoxville Public Schools, Knoxville, Iowa
 1966-1967 Assistant Instructor, University of Kansas
 1967-1970 Research Associate, Center for the Biology of Natural Systems,
 Washington University, St. Louis
 1967-1971 Assistant Botanist, Missouri Botanical Garden
 1968-1971 Visiting Fellow, Smithsonian Tropical Research Institute
 1970-1973 Adjunct Assistant Professor, Washington University, St. Louis
 1970-1971 Curator, Summit Herbarium and Library, Canal Zone
 1971-1976 Curator of Phanerogams, Missouri Botanical Garden
 1972-1974 Member of NSF Advisory Committee for Resources in
 Systematic Botany
 1974- Adjunct Faculty Appointment, University of Missouri, St. Louis
 1975- Commission of the Organization for Flora Neotropica
 1975- Faculty Associate of Biology, Washington University, St. Louis
 1976-1977 Associate Curator, Missouri Botanical Garden
 1977- P. A. Schulze Curator of Botany, Missouri Botanical Garden
 1982- Adjunct Associate Professor, St. Louis University, St. Louis

Scholarships, Fellowships, Awards, and Honors

1958-1962, NDEA Scholarship; 1964-1967, NDEA predoctoral fellowship;
 1966-1967, NSF Evolutionary Biology Grant; 1970-1971, Smithsonian
 Research Award (Associate Investigator); 1975, Botanical Society of America
 Diamond Award for Travel to the 12th International Botanical Congress;
 elected Society of Epsilon Sigma; Honorary Board, International Aroid
 Society, 1978-1987; Simpson College, 1985 Alumni Achievement Award;
 1986-1989 Scientific Advisory Committee, Simpson College; David Fairchild
 Award for Excellence in Exploratory Botany, date?; H. W. Schott Award for
 Excellence in Aroid Research.

Biographical Listings

Dictionary of International Biography, 1977-2001; Men of Achievement, 5th
 ed. 1978-1986; Personalities of the West and Midwest, 6th ed. 1977-1978;
 The National Register of Prominent Americans and International Notables

1976-1977; Community Leaders and Noteworthy Americans, 10th ed. 1978; Personalities of America, 1978-79 ed., 4th ed., 1986; Who's Who in America, 54-59th Edition; Who's Who in Frontier Science and Technology, 1st ed., 2nd ed.; Who's who in Science and Engineering, 4th ed., 1989-1999; The International Who's Who in Contemporary Achievement, 1985 ed.; Who's Who in the Midwest, 20th-27th ed.; Who's who in the 21st Century, 1st ed.; 2000 Notable Americans, 3rd ed. 1986-1987; International Directory of Distinguished Leadership, 1st ed., Vol. 1; Who's Who in Society, 1978 ed.; Who's Who in Society, 1988 ed.; Who's Who in the World, 9th-16th ed.; American Men and Women of Science, 1987, 18th ed., 1991; Community Leaders of America, 1986 ed.; 5000 Personalities of the World, ed. 2, 1991; 500 Leaders of Influence, 1995.

Grants Administered

- 1972-1977 National Science Foundation Grant DEB 720241 (5-year award), Flora of Panama
- 1972-1974 National Science Foundation Grant GB 34502 (2-year award), Flora of Barro Colorado Island
- 1973 - National Geographic Society Grant, Phytogeographic survey of the Burica Peninsula in Panama and Costa Rica
- 1975 - Sigma Xi Grant in Aid of Research, Study of Important Collections of Araceae in European Herbaria
- 1975-1979 National Endowment for the Arts Grant for Curatorial Traineeships
- 1977 - National Geographic Society Grant, Studies on classification of *Anthurium* in Central America
- 1977-1980 National Science Foundation Grant 77-14414, Systematics of Central American *Anthurium* (Araceae)
- 1980-1983 National Science Foundation Grant DEB 80-11649, *Anthurium* section *Pachyneurium* (Araceae). \$163,432
- 1983-1986 National Science Foundation Grant BSR 83-06297, *Anthurium* section *Pachyneurium* (Araceae) (Renewal). \$180,000
- 1983-1984 National Geographic Society Grant (with Gerrit Davidse), Investigation of the flora of Cerro de la Neblina, Venezuela

- 1985-1987 R. J. Reynold's Grant for Investigations of New World Araceae
 1986 - National Geographic Society Grant, Studies on the
 Classification of the Araceae of Central America (Comparative
 study of Bajo Calima (Valle) and La Planada (Nariño) in
 Colombia
- 1986-1989 National Science Foundation Grant BSR 86-14777, Revision of
Philodendron (Araceae) of Central America. \$164,999
- 1989-1992 National Geographic Society Grant 4116-89, The Araceae of
 Western Colombia. \$16,000
- 1990-1992 National Science Foundation Grant BSR 89-14018, Support for
 Publication of "A Revision of *Anthurium* section
Pachyneurium (Araceae). \$15,631
- 1990-1993 National Science Foundation Grant BSR 89-05890,
 Taxonomic Revision of *Rhodospatha* (Araceae). \$179,802
- 1994-1997 National Science Foundation Grant DEB-9306891, Taxonomic
 Revision of *Dieffenbachia* of Mexico and Central America.
 \$185,000
- 1995-1997 National Geographic Society, 2000-2002 NGS# 4116-89.
 The Araceae of Bajo Calima, Valle Department, Colombia.
 \$24,000
- 2000-2002 National Geographic Society Grant 43-999, Araceae of
 Lita-San Lorenzo Region (Esmeraldas), Ecuador, \$12,000.
- 2002–2003 National Geographic Society, NGS-7266-02, Araceae of
 Cordillera Oriental of Ecuador, \$12,645
- 2005-2006 National Geographic Society, NGS-7913-05, Araceae of
 Cordillera del Condor. \$15,000
- 2011- 2012 National Geographic Society, NGS-8852-10, Araceae of the
 Guianas. \$19,450
- 2012-2014 National Geographic Society, NGS-9110-12, Araceae of
 Northern Carchi Province, Ecuador, \$14,260
- 2014-2016 National Geographic Society, NGS-9565-14, Araceae of Lower
 Amazon Basin of Ecuador, \$22,202
- 2015-2017 National Science Foundation OPUS Grant, DEB 1456316, A
 Synthesis of *Anthurium* and *Philodendron* (Araceae) for Neotropical

America, \$105,135.

Memberships in Societies

American Society of Plant Taxonomists; Association for Tropical Biology; Asociación Latinoamericana de Botánica; International Society for Plant Taxonomists; Tri Beta; Nature Conservancy; International Aroid Society (Scientific editor of *Aroideana*).

Professional Meetings

Iowa State Academy of Sciences (1958-1962).

Kansas Academy of Sciences (1964-1967).

International Conference on Systematic Biology, Ann Arbor, Michigan, June 14-16, 1967.

18th Annual AIBS Meeting, College Station, Texas, August 27-September 1, 1967. Paper presented: *Solidago altissima-canadensis-gilvocanenscens* complex of North Central Great Plains.

Midwest Biological Colloquium (1966, 1972, 1974).

2nd International Symposium on Amazonian Biota, Leticia, Colombia, January, 1969.

XI International Botanical Congress, Seattle, Washington, August 24-September 2, 1969.

14th-52nd Annual Symposia on Systematics, Missouri Botanical Garden (1967-2009). Paper presented: Seasonality of the vegetation on Barro Colorado Island in Panama. 1969.

Centennial of Arnold Arboretum, May 1972, Cambridge, Massachusetts.

II International Ecological Congress, Caracas, Venezuela, Feb. 1973.

Paper presented: Geographical Affinities of the Barro Colorado Island Flora.

First International Congress of Systematic and Evolutionary Biology, Boulder, Colorado, August 4-12, 1973.

25th Annual AIBS Meeting, Tempe, Arizona, June 16-21, 1974. Paper presented: Phenological behavior of the tropical moist forest on Barro Colorado Island (Panama).

XII International Botanical Congress, Leningrad, Russia, July 3-10, 1975.
Paper presented: Phenological behavior of the tropical moist forest on Barro Colorado Island (Panama).

Spring Systematics Symposium, Field Museum of Natural History, Chicago, Illinois, 1977-83, 1985.

Plant Sciences Conference, Blacksburg, Virginia, June 1978. Paper presented: "Flowering behavior of *Anthurium* (Araceae)."

Symposium on Tropical Botany, University of Aarhus, August 1978. Paper presented: "Distribution of tropical Araceae."

The Annual Meeting for the Society of Economic Botany, Missouri Botanical Garden, St. Louis, June 1978. Paper presented: The Role of the Botanical Garden in the Introduction of Araceae.

1st International Aroid Conference, Selby Garden, March 27-29, 1980. Paper presented: "The Sectional classification of *Anthurium*."

Symposium signaling the completion of the "Flora of Panama," University of Panama, April 1-4, 1980.

Organizational meeting for Flora Mesoamericana, July 14-15, 1980.

35th Annual Congress of the American Horticultural Society, September 16-20, 1980. Paper presented: "The introduction of new aroids to horticulture." Served as local organizer.

XIII International Botanical Congress, Sydney, Australia, August 21-28, 1981. Poster session "The sectional classification of *Anthurium* (Araceae)."

34th Annual AIBS Meetings, Grand Forks, South Dakota, August 7-11, 1983. Paper presented: "Sectional classification of the genus *Anthurium* (Araceae)."

II International Aroid Conference, Harvard Forest. May 25-27, 1984.

35th Annual AIBS Meeting, Ft. Collins, Colorado, August 6-9, 1984.

11th Plenary Meeting of A.E.T.F.A.T., Missouri Botanical Garden, June 10-14, 1985.

Selby Symposium on Epiphytes, September 20-21, 1985.

IV Congreso Latinoamericano de Botánica, Medellín, Colombia, July 1-4, 1986.

XIV International Botanical Congress, Berlin, West Germany, July 24-August

- 1, 1987. Paper presented: "Ecology of the Araceae."
 39th Annual AIBS Meetings, Davis, California, October 15-17, 1988.
 41st AIBS Meeting, Richmond, Virginia, August 5-9, 1990.
 International Symposium on the Biology and Conservation of Epiphytes,
 Selby Botanical Gardens, Sarasota, Florida, May 5-8, 1991.
 43rd AIBS Annual Meetings, Honolulu, Hawaii, August 9-13, 1992.
 Moscow Aroid Conference. Main Botanical Garden, Russian Academy of
 Sciences, August 24-30, 1992.
 Neotropical Montane Symposium, New York Botanical Garden, June 20-23,
 1993. Presented paper: Floristic Comparisons of Six Ecuadorian Florulas.
 XV International Botanical Congress, Yokohama, Japan, Aug. 28-Sept. 3,
 1993. Covenor: Multidisciplinary Approaches to the Systematics of the
 Araceae.
 VII International Symposium on Chinese Drug, Beijing, China. October 5–7,
 1993. Presented paper: The Use of the New World Araceae as Drug
 Plants.
 VI International Aroid Conference, Kunming, June 26-July 1, 1995; (U.S.
 Organizer, Chairman, section on Systemics). Presented papers: History
 of Systematic Research with Araceae, History of International Aroid
 Conferences; Sectional Classification of *Philodendron*.
 VI Congreso Nacional de Botánica, Cuzco, Peru, Oct. 1-6, 1995, Lectura
 Magistral: Araceae of Peru.
 VII Congreso Nacional de Botánica, Cajamarca, Peru. 25–30 May, 1998.
 Presentation: Las Araceae de Peru.
 XVI International Botanical Congress, St. Louis, Missouri, Aug. 28-Sept. 3,
 1999.
 VIII Congreso Latinoamericano de Botánica, Cartagena de Indias, 13-18th Oct.
 2002.
 Monocots III. Ontario, California, Mar., 2003. Presented: Phylogeny of
Homalomena (with Alan Meerow).
 I Simposio Guatemalteco de Botanica. 24-26 Nov. 2003. Paper: Las Araceae
 de America Central.
 IX International Aroid Conference, Kuching, Sarawak, Malaysia. November,
 2004. Presentations: A review of *Rhodospatha*, A review of

Homalomena. Awarded H. W. Schott Award for Excellence in Araceae Research.

XVII International Botanical Congress, Vienna Austria, July 2005.

IX Latinamerican Botanical Congress, Santo Domingo, Dominican Republic, June 18-24, 2006.

4th International Monocot Conference, Comparative Biology of Monocotyledons, Copenhagen, Denmark, 11–15, Aug. 2008.

Vth Congreso Colombiano de Botanica, San Juan de Pasto, 19–24 April, 2009. Poster with Edwin Trujillo, “Nuevas especies de Araceae para Colombia”.

Xth International Aroid Conference, Nancy, France, 9–11, July, 2009.

Presentations: A review of Araceae for Neotropics, Araceae of Central America, Araceae of the Guianas. Public lecture on History of the International Aroid Society.

Botany 2011, Healing the Planet, July 9–13, 2011,

St. Louis, MO. Presented paper: Araceae of the Guianas.

62nd Congresso Nacional de Botanica, Fortealeza, Brazil, Aug. 2011. Presented paper: The Araceae of the Guianas (invited lecture).

Monocots V Conference, New York Botanical Garden, New York City, NY, 7–13 July 2013.

7th Colombian Botanical Conference, Ibague, Colombia, Aug. ??, 2013.

1st Colombian Aroid Conference, 10 Aug. 2013. Presented lecture: *Anthurium* Species with Black-purple Spathes.

XIth International Aroid Conference, Hanoi, Vietnam, 11–13, Dec. 2013.

Presentation: A review of Araceae for Neotropics.

XIIth International Aroid Conference, Cali, Colombia, 06–10, July, 2017.

Oral Presentations: A review of Studies with Araceae; Araceae of Central America; Stenospermatation of Central America; Monstera of Central America; Discovering New Species with Lucid Keys; Poster presentations: Organization of the genus *Xanthosoma* into six groups (with X. Delannay); Revision of *Anthurium* sect. *Belonchium* of Carchi Prov.; Revision of *Anthurium* sect. *Cardiolonchium* of Carchi Prov., Ecuador (with C. Guan); Revision of *Anthurium* sect. *Calomystrium* (with J. Deal & D. Belt); Revision of *Anthurium* sect. *Cardiolonchium* (with B. Hormell); Revision of sect. *Xialophyllum* (with J. Watt); Revision of *Anthurium* sect. *Digittinervium* (with P.

Mahon & C. Crivelo); Revision of *Anthurium* sect. *Tetraspermium* (with A. Bashir); New Lucid Key for *Adelonema* (with S. Daniels McQueen); New Lucid Key for *Dracontium* (with S. Daniels McQueen); Using Volunteers in Research.

Invited Lectures

Lecture on Aroids of the Neotropics

1978. January meeting of the International Aroid Society, Miami Chapter
Phenology of Flowering and Fruiting on Barro Colorado Island

1979. St. Louis University

1979. Washington University

Lecture on *Anthurium* section *Pachyneurium*

1981. Annual Meeting of the International Aroid Society, Miami.

Lecture on Genera of Araceae

1982. March Meeting of the International Aroid Society

1982. Fairchild Gardens

Madagascar, Its Plants and Its People

1982. Western Michigan State University; 2001, St. Louis Rainforest Alliance

Tropical Rain Forests, Their Characters and Complexities

1972. University of Southern Illinois, Edwardsville, IL (Mar.)

1973. University of Iowa, Iowa City, IA (Nov. 1)

1985. Mississippi State University (Nov. 1)

1986. Eastern Illinois University, Charleston, IL (Nov. 1)

1987. University of Missouri, 5th Annual Plant Biochemistry and Physiology Symposium (Banquet speaker, April 2)

1988. Greenville Christian College, Greenville, IL (Oct. 24)

1990. Emporia State University, Emporia, KS (Dec. 12)

1996. New England Tropical Conservatory, Bennington, VT. (Mar. 22)

2017. Cleveland Botanical Garden, (Oct. 15, 2017).

2017. Balwin Wallace College, Brea, OH. (Oct. 15, 2017).

Suprageneric System of Classification of Araceae

1993. Kunming Institute of Botany, Academica Sinica, Kunming, Yunnan, China, Sept. 17
1993. Chengdu Institute of Botany, Academica Sinica, Chengdu, Sichuan, China, Sept. 24
2007. A Lifetime of Collecting in the World's Tropics – or How I Got to Know the Diversity of Plants by Collecting Them, Texas Research Institute, Dallas, Texas.
- The Missouri Botanical Garden and its role in the Discovery Progress, 2012 2012. Taiwan National University, Taipai, Taiwan, April 17.
2012. Taiwan National Museum, Taichung, Taiwan, The Missouri Botanical Garden and its role in the Discovery Progress, April 18.

Travel

Traveled in 68 countries (Collected in 39): Western Europe, all countries; Eastern Europe all countries except Moldavia, Armenia, Georgia & Azerbaijan); numerous visits to Latin America, including travel in all countries, most islands in the West Indies. Trips in Africa to Nigeria, Egypt, Kenya and Madagascar. Traveled throughout Australia, Philippines, Indonesia, Malaysia, Vietnam, Cambodia, Laos, Thailand, Myanmar, India, Pakistan, Japan & China. Middle East (Israel & Jordan).

Field Experience

U.S. Virgin Islands, 1962-1963, general collecting and field observation of both terrestrial and marine plants. Observations of marine organisms associated with coral formations.

Great Plains of U.S. and Canada, 1964-1967, general collections as well as concentration on the genus *Solidago* from Texas to Canada, particularly Kansas, Nebraska and the Dakotas.

Mexico and Middle Central America, summer 1965, general collections, particularly from Costa Rica.

Western U.S., summer 1966, general collections from Wyoming, Nevada, Idaho, California, Arizona, New Mexico and Colorado.

Panama, 1967-1974, numerous trips totaling more than 3-years' time,

including 8 months on Barro Colorado Island, general collections and biological observations in preparation for writing an ecotaxonomic manual of the Flora of Barro Colorado Island.

Colombia, 1969, general collections along the Amazon River in Colombia and Brazil.

Peru, 1972, four months in the Amazon region on drug plant collecting expedition for the USDA anti-cancer program.

Venezuela, Panama, Costa Rica, and Belize, 1973, four months of general collecting.

Kenya, 1975, 2 weeks of general collecting in central Kenya.

Madagascar, 1975, 2 months of general collecting throughout the island.

Central America, Panama, and northern South America; February-October 1976; collecting Araceae for Revision of Araceae of Central America. Mexico and Middle America (to Costa Rica) June-September 1977; collecting *Anthurium* for revision of *Anthurium*.

Costa Rica and Panama, January 1978.

Hawaiian Islands, Kawaii, Hawaii, Oahu, and Maui, December 1978.

Mexico and Middle America, January-March 1979.

Panama and northwest South America, November-January 1979-1980.

Panama, March-April 1980.

Colombia, Ecuador, Peru and Bolivia, September-November 1980.

Australia, SE Asia and Nigeria, July-November 1981. Collecting Araceae.

Brazil (Amazonas, Rondonia, Mato Grosso, Goias, Rio de Janiero), French Guiana, Suriname, Guyana, Trinidad and Venezuela; collecting for revision of *Anthurium* section *Pachyneurium*, June-September 1982.

Colombia and Ecuador, March-May 1983.

Ecuador, October 1983.

Colombia, Ecuador, Peru, March-May 1984.

Venezuela, Cerro de la Neblina Expedition to "lost world" area, November-December 1984. Costa Rica, Panama, western Venezuela, Puerto Rico, and Virgin Islands, March, April 1984.

Costa Rica, Panama, Venezuela, Puerto Rico, Virgin Islands, March-May, 1985.

Costa Rican National Parks, April 1986.

Colombia, Ecuador, Peru, and Brazil, July-August 1986.
 Mexico, Guatemala, and Honduras, January-February 1987.
 Mexico, Central America, and Panama, June-July 1987.
 Panama and Costa Rica, September-October 1987.
 Dominican Republic, Panama, and Colombia, June-July 1988.
 Panama and western Colombia, January-March 1990, collecting for revision of *Rhodospatha* and for floristic surveys of Bajo Calima and La Planada.
 Ecuador and S Colombia (Nariño), February-April 1992. Collecting for revision of *Rhodospatha* and floristic surveys of Endesa, Río Guajalito, La Favorita and Jatun Sacha.
 French Guiana, Guadeloupe, Venezuela, and Panama. February-April, 1993. Collecting for Flora of Saül in French Guiana, *Rhodospatha* in Venezuela and *Philodendron* in Central America in Panama.
 Colombia, July 1993. Collecting for Flora of Bajo Calima; China (Yunnan, Sechuan, Inner Mongolia), general collecting.
 September-October, 1993. General collecting in China (Yunnan, Sichuan, Inner Mongolia).
 Peru, September, 1995. Collected from Cuzco to Pacaurtambo, Manu National Park.
 Mexico, Costa Rica and Panama, July-August, 1996. Collecting for revision of *Dieffenbachia* of Central America.
 Colombia (Valle, Cauca, Antioquia, Risaralda & Chocó), July-August, 1997. Collecting for revision of *Anthurium* sect. *Porphyrochitonium*.
 Peru (Huánuco, Junín, Lima Departments), Ecuador (Esmeraldas, Pichincha), June- July, 1998. Collecting for Flora of Lita-San Lorenzo.
 Ecuador (Esmeraldas), Collecting for Flora of Lita-San Lorenzo, September-October, 1999.
 Colombia (Chocó, collecting for Flora of Cabo Corrientes with Marcela Mora). June, 2000.
 Ecuador (Esmeraldas), collecting for the Flora of Lita-San Lorenzo. July, 2000
 Bolivia (La Paz, Beni), collecting for Araceae for Flora of Bolivia, August, 2000
 Brazil (Acre), collecting for the Araceae for Flora of Acre, November-

December, 2001
Ecuador (Morona-Santiago, Cotopaxi, Pastaza), collecting for the Araceae of Cordillera Oriental, August-September, 2002.
Ecuador (Imbabura, Pastaza, Morona-Santiago, Zamora-Chinchiipe, Loja & Azuay) April-June, 2003.
Guatemala (Alta Verapaz). November, 2003.
Ecuador (Tungurahua, Pastaza, Morona-Santiago, Zamora-Chinchiipe, Loja, El Oro, Pichincha, Imbabura, Bolívar, Los Rios, Napo, Sucumbios) July-September, 2004
Eastern Malaysia, Sarawak, Kuching Division, (Nov.-Dec., 2004).
Ecuador (Pichincha, Carchi, Esmeraldas (Feb.-Mar., 2005)
Ecuador (Pichincha, Los Rios, Guayas, Zamora-Chinchiipe) Mar.-April, 2006
Colombia (Caquetá); Ecuador (Pichincha, Napo, Sucumbios, Orellana; Morona-Santiago, Zamora-Chinchiipe Aug.-Oct., 2007.
Colombia (Huila, Caquetá, Tolima, Valle); Ecuador (Pichincha (Pacto, Reserva Mashpi), Imbabura) Morona-Santiago (Cordillera de Cutucú); Napo; November-December, 2008.
Colombia (Valle; Meta); April-May, 2009)
Albania (August, 2009).
Colombia (Nariño, Valle, Quindio, Meta), 2008
Guyana, Suriname, French Guiana, (Jan.-Mar., 2009)
Brazil, French Guiana (Aug.- Sept., 2011)
Taiwan, Thailand, Huntington Gardens (April-May, 2011
Colombia (Caquetá, Huila, Antioquia, Valle, Sept. 2012).
Ecuador (Carchi, Pichincha, Esmeraldas) Oct.-Nov. 2012).
Ecuador (Carchi, Esmeraldas, Pastaza), August, 2013.
Colombia (Nariño, Quindío), Sept.-Oct., 2013.
Vietnam, Cambodia, Laos & Myanmar, Dec.-Jan., 2013–2014.
Ecuador (Napo, Pastaza, Tungurahua, Morona-Santiago, Orellana, Sucumbios); Colombia (Valle); Panama (Coclé), Jan-Feb., 2015.
Colombia (Valle); Ecuador (Napo, Morona-Santiago, Sucumbios; Orellana) Aug.- Sept. 2015.
Colombia, Ecuador, Peru, Bolivia, Brazil, OPUS Trip, South America,

Nov.- Dec., 2015.

Israel, Jordan, Greece, Italy (incl. Sicily), Austria, Germany, Lithuania, Latvia, Estonia, Russia, Finland, Sweden, Denmark, Holland, Belgium, France, England, Scotland. OPUS Trip, Europe (April-May, 2016).

Mexico, Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica, Panama, OPUS Trip, Central America. Sept.-Nov. 2016.

Colombia (XII International Aroid Conference), Valle, Chocó); Ecuador, Peru (San Martín, Pasco, Ucayali, Huanuco)

Mexico (Guerrero, Puebla, Yucatan, Quintan Roo) Oct.-Nov., 2017.

Publications

1968 Hydrophyllaceae. *In* Woodson & Schery, Flora of Panama. *Ann. Missouri Bot. Gard.* 54: 415–418.

1969 Barro Colorado Island, The Forest. *Missouri Bot. Gard. Bull.* 57(6): 16–21.

1969 Seasonal flowering behavior in central Panama. *Ann. Missouri Bot. Gard.* 56: 295–307.

1970 Gnetaceae. *In* Woodson & Schery, Flora of Panama. *Ann. Missouri Bot. Gard.* 57: 1–4.

1970 Studies in *Solidago* I: *S. graminifolia-gymnospermoides* complex. *Ann. Missouri Bot. Gard.* 57: 250–261.

1970 The flowers of *Trattinickia aspera* (Burseraceae) discovered. *Ann. Missouri Bot. Gard.* 57: 152–154. [with Duncan Porter].

1971 Summit Garden, Panama Canal Zone: its role in botanical research. *Taxon* 20: 769–772.

1972 The Missouri Botanical Garden in Panama. *Missouri Bot. Gard. Bull.* 60: 19–22.

1972 *Solidago canadensis* complex of the Great Plains. *Brittonia* 24: 317–326.

1972 The role of overpopulation and agricultural methods in the destruction of tropical ecosystems. *BioScience* 22(8): 465–67.

1972 Phytogeographical Survey of the Burica Peninsula of Panama and

- Costa Rica. *Res. Rep. Natl. Geogr. Soc.* Pp. 187–189.
- 1973 A new Species of *Cissus* (Vitaceae) for Central and South America. *Ann. Missouri Bot. Gard.* 60: 564–567.
- 1973 Overpopulation in the tropics and its consequences on the environment. Pollution: A special publication of the National Association of Biology Teachers. Feb. 1973. Pp. 14–17.
- 1974 A reconsideration of *Spondias mombin* L. (Anacardiaceae). *Ann. Missouri Bot. Gard.* 61: 483–490.
- 1974 A case for selection for delayed fruit maturation in *Spondias* (Anacardiaceae). *Biotropica* 6: 135–137.
- 1974 *Casearia belizensis* Standley, a synonym of *Laetia procera* (Flacourtiaceae). *Ann. Missouri Bot. Gard.* 61: 526. [with R. Liesner].
- 1974 A new species of *Myrcia* (Myrtaceae) for Panama. *Ann. Missouri Bot. Gard.* 61: 886–888.
- 1974 A new *Gustavia* (Lecythidaceae) from Panama and Colombia. *Brittonia* 26: 22–26. [with S. Mori].
- 1974 *Combretum laxum* Jacq. var. *epiphyticum* (Combretaceae) - a case of selection for water-dispersal. *Phytologia* 28: 188–191.
- 1974 Notes on the genus *Clitoria* (Leguminosae) in Panama. *Phytologia* 29: 130–134.
- 1974 Systematics program at the Missouri Botanical Garden. *Taxon* 23: 444–446. [with M. Crosby].
- 1975 Geographical affinities of the Barro Colorado Island flora (Panama). *Brittonia* 27: 127–135. [with P. Busey].
- 1975 Flacourtiaceae new to Panama: *Casearia* & *Xylosma*. *Ann. Missouri Bot. Gard.* 62: 484–490.
- 1975 A new species of *Dracontium* (Araceae) from Panama, with notes on the sapromyophilous pollination syndrome. *Selbyana* 1: 168–171.
- 1975 A reconsideration of *Trichilia cipo* (A. Juss.) C. DC. (Meliaceae). *Ann. Missouri Bot. Gard.* 62: 491–496.
- 1975 Studies in Araceae I: Section *Leptanthurium* Schott, the *Anthurium gracile-friedrichsthali* complex of Central and South America. *Selbyana* 1: 357–364.

- 1975 Systematic botany resources in America. Part I: Survey and preliminary ranking. New York Botanical Garden. 96 pp. [with W. W. Payne, M. E. Hale, P. K. Holmgren, R. McVaugh, L. I. Nevling, Jr., R. Ornduff, A. E. Schuyler, & R. F. Thorne].
- 1975 Phenological behavior of habit and habitat classes on Barro Colorado Island (Panama Canal Zone). *Biotropica* 7: 270–277.
- 1975 Notes on Central and South American *Cissus* (Vitaceae). *Ann. Missouri Bot. Gard.* 63: 358–362.
- 1976 Staphyleaceae. In Woodson & Schery, Flora of Panama. *Ann. Missouri Bot. Gard.* 63: 393–398.
- 1976 Sapindaceae. In Woodson & Schery, Flora of Panama. *Ann. Missouri Bot. Gard.* 63: 419–540.
- 1976 Notes on Sapindaceae I: new species of *Serjania* from Central America and Mexico. *Phytologia* 33: 169–172.
- 1977 Taxonomic Study of *Anthurium* in Central America. National Geographic Society Research Reports. Pp. 251–255.
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