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MISSOURI BOTANICAL GARDEN
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January 2013

FIELD OF INTEREST

Higher plant systematics, specializing in the classification and evolutionary history of the Lythraceae, the Loosestrifes. Currently preparing a monograph of the ca. 250 species of the tropical American genus *Cuphea*, as part of a long-term goal of monographing the family Lythraceae.

EDUCATION

1957 - B.S., Michigan State University, Biology
1959 - M.A., University of Michigan, Biology
1963 - Ph.D., University of Michigan, Botany
 “Systematic Studies in the Genus *Cuphea*” with Dr. Rogers McVaugh
1964 - Post-Doctoral, Harvard University, Botany
 “Generic Flora of SE United States” with Dr. Carroll Wood

ACADEMIC AWARDS AND GRANTS

1958 - Fulbright Scholarship, University of Copenhagen
1959 - Horace H. Rackham Graduate Fellow, University of Michigan
1961 - University Scholar and National Science Foundation Summer Fellowship
1962 - University Fellow
1979 - Henkel Corporation Research Travel Grant, \$5000
1981 - Procter & Gamble Research and Travel Grant, \$7000
1984-1987 - National Science Foundation BSR 8314366 - Research Award, \$124,968
1988-1991 - National Science Foundation BSR 8806523 - Research Award, \$99,305
1991-1993 - National Science Foundation DEB 9210543 - Career Advancement Award, \$44,000
1995-1999 - National Science Foundation DEB 9509524 - Research Award, \$160,000
1996-1997 - NSF Research Experience for Undergraduates Supplemental Award, \$5000
1997-1998 - NSF Research Experience for Undergraduates Supplemental Award, \$5000
1998 - Finalist, Distinguished Scholar Award, Kent State University
1998 - Elected Fellow, Ohio Academy of Sciences
1999 - Board of Directors, Ohio Plant Biotechnological Consortium,
2000-2001 - Ohio Plant Biotechnology Consortium, 1 year competitive research award, jointly to
 Dr. James Metzger, Professor and Kiplinger Chair of Floriculture, OSU, and S. Graham, \$9,376
2002 - American Council of Learned Societies/Social Science Research Council Working Group
 on Cuba - \$3000
2004 - American Council of Learned Societies/Social Science Research Council Working Group on Cuba - \$3000
2008 - National Geographic Society, \$16,181

PROFESSIONAL EXPERIENCE

1964-1974 Temporary Instructor, Kent State Biological Sciences
1965-1966 University of Akron, Department of Biology
1983-1989 Laboratory Coordinator and Adjunct Associate Professor, Kent State Biological Sciences
1989-1993 Assistant Professor, Kent State Biological Sciences
1993-1998 Associate Professor, Kent State Biological Sciences
1998-2002 Professor, Kent State Biological Sciences
2002- Professor Emerita, Kent State University
2002- Curator, Lythraceae, Missouri Botanical Garden

GRADUATE STUDENTS

Kim, Seung-Chul. M.S., Kent State University 1992. The dimorphic androecium of *Lagerstroemia* (Lythraceae): Circumscription and reproductive, phylogenetic, and systematic implications.
Brown, Beverly J. Ph.D., Kent State University 1999. The impact of an invasive species (*Lythrum salicaria*) on pollination and reproduction of a native species (*L. alatum*)..
Currently serving on the Ph.D. committee of Amanuel Ghebretinsae, St. Louis University .

SELECTED PROFESSIONAL SERVICE

Treasurer, American Society of Plant Taxonomists, 1983-1986
National Science Foundation Systematic Biology Advisory Panel, 3 year appt., 1989-1992
Editorial Board, Botanical Society of America, Plant Science Bulletin, 1987-1989
Editorial Board, Association for Advancement of Industrial Crops, Industrial Crops and Products, 1991-200_ _
Editorial Board, Systematic Botany Monographs, 1998- 2001
Board of Directors, Elected Member, American Institute of Biological Sciences, 1997-1999
President Elect, President, Past-President, American Society of Plant Taxonomists, 1998-2001
Board of Directors, Ohio Plant Biotechnological Consortium, 1999-2001
External reviewer, 7-year review, Dept. of Environmental and Plant Science, Ohio University, 2001
Chair, Archives Committee, Botanical Society of America, 2004-2008

PROFESSIONAL SOCIETY MEMBERSHIP

International Association of Plant Taxonomists
American Society of Plant Taxonomists
Botanical Society of America
Asociacion Latinoamericana de Botanica
Sigma Xi

REVIEWER OF MANUSCRIPTS for *Systematic Botany*, *Systematic Botany Monographs*, *Kew Bulletin*, *Proc. Calif. Acad. Sci.*, *Economic Botany*, *Botanical Review*, *J. Amer. Oil Chem. Soc.*, *USDA-ARS technical bulletins*, *Novon*, *Bothalia*, *Industrial Crops and Plants*, *Taxon*, *International Journal of Plant Sciences*, *Canadian Journal of Botany*, *Biochemical Systematics and Ecology*, *Cytologia*, *Nordic Journal of Botany*.

PUBLICATIONS - Shirley A. Graham

- Graham, Shirley A. 1964. The genera of Lythraceae in the southeastern United States. *J. Arnold Arbor.* 45: 235-250.
- _____. 1964. The Elaeagnaceae in the southeastern United States. *J. Arnold Arbor.* 45: 274-278.
- _____. 1964. The genera of Rhizophoraceae and Combretaceae in the southeastern United States. *J. Arnold Arbor.* 45: 285-301.
- _____ and C. E. Wood. 1965. The genera of Polygonaceae in the southeastern United States. *J. Arnold Arbor.* 46: 91-121.
- Graham, Shirley A. 1966. IOPB Chromosome number reports. 1 report. *Taxon* 15: 121.
- _____. 1966. The genera of Araliaceae in the southeastern United States. *J. Arnold Arbor.* 47: 126-136.
- Graham, Alan and Shirley A. Graham. 1967. Pollen morphology and taxonomy of *Cuphea* (Lythraceae). *Rev. Paleobot. Palynol.* 3: 155-162.
- Graham, Shirley A. 1968. New species of *Cuphea* (Lythraceae) from Mexico. *Brittonia* 20: 1-10.
- _____. 1968. IOPB Chromosome number reports XVI. 20 reports. *Taxon* 17: 201-202.
- _____. 1968. IOPB Chromosome number reports XIX. 1 report. *Taxon* 17: 573.
- _____. 1968. History and typification of the generic name *Cuphea* (Lythraceae). *Taxon* 17: 534-536.
- Graham, Alan, Shirley Graham, and Donald Geer. 1968. Palynology and systematics of *Cuphea* (Lythraceae). I. Morphology and ultrastructure of the pollen wall. *Amer. J. Bot.* 55: 1080-1088.
- Graham, Shirley A. 1969. A re-evaluation of *Cuphea*, sect. *Leptocalyx*, series *Bustamantae*. *Rhodora* 71: 481-493.
- _____. 1969. IOPB Chromosome number reports. XXIV. 8 reports. *Taxon* 18: 683-684.
- _____. 1971. IOPB Chromosome number reports. XXXIII. 1 report. *Taxon* 20: 610.
- _____. 1971. Three new species of *Cuphea* (Lythraceae) from Mexico. *Brittonia* 23: 227-230.
- _____ and Alan Graham. 1971. Palynology and systematics of *Cuphea*. II. Pollen morphology and infrageneric classification. *Amer. J. Bot.* 58: 844-857.
- Graham, Alan and Shirley A. Graham. 1971. The geologic history of the Lythraceae. *Brittonia* 23: 335-346.
- Graham, Shirley A. 1972. IOPB Chromosome number reports. XXXVIII. *Taxon* 21: 684.
- Graham, Shirley A. 1975. Taxonomy of the Lythraceae in the southeastern United States. *SIDA* 6: 80-103.
- _____ and C. E. Wood. 1975. The Podostemaceae in the southeastern United States. *J. Arnold Arbor.* 56: 456-465.
- Graham, Shirley A. 1977. The American species of *Nesaea* and their relationship to *Heimia* and *Decodon*. *Syst. Bot.* 2: 61-71.

- _____ and David H. Lorence. 1978. The rediscovery of *Tetrataxis*. J. Linn. Soc., Bot. 76: 71-82.
- Graham, Shirley A. 1978. The origin of *Ammannia xoccinea* Rottboell. Taxon 28: 169-178.
- _____. 1978. IOPB Chromosome number reports LIX. 5 reports. Taxon: 27:53.
- _____. 1979. *Cuphea carthagenensis*, the correct orthography. SIDA 10: 92.
- _____, B. Timmermann, and T. J. Mabry. 1980. Flavonoid glycosides in *Ammannia coccinea* (Lythraceae). J. Nat. Prod. (Lloydia) 43: 644-645.
- Graham, Shirley A. 1980. *Cuphea inflata* S. A. Graham (Lythraceae), a new species from Mexico. Syst. Bot. 5: 322-325.
- _____, F. Hirsinger, and G. Robbelen. 1981. Fatty acid composition in *Cuphea* seed lipids and their taxonomic significance. Amer. J. Bot. 68: 908-917.
- _____, _____, and _____. 1981. *Cuphea* seed lipids and their systematic significance. BioScience 31: 244-246.
- Timmermann, B., S. Graham, and T. Mabry. 1981. Sulfated and 6-methoxyflavonoids from *Brickellia baccharidea* (Compositae). Phytochemistry 20: 1762.
- Graham, S. 1982. IOPB Chromosome number reports LXXIV. 9 reports. Taxon 32: 119.
- Wolf, R., S. Graham, and R. Kleiman. 1983. Fatty acid composition of *Cuphea* seed oils. J. Amer. Oil Chemists' Soc. 60: 103-104.
- Graham, Shirley A. 1984. Alzateaceae, a new family of Myrtales in the American tropics. Ann. Missouri Bot. Gard. 71: 757-779.
- _____ and John Averett. 1984. Flavonoids of Alzateaceae. Ann. Missouri Bot. Gard. 71: 855-857.
- Averett, John and Shirley Graham. 1984. Flavonoids of Rhynchocalycaceae. Ann. Missouri Bot. Gard. 71: 853-854.
- Graham, Shirley. 1985. IOPB Chromosome number reports LXXXVIII. 3 reports. Taxon 34: 547.
- _____. 1985. A revision of *Ammannia* in the Western Hemisphere. J. Arnold Arbor. 66: 395-420.
- _____ and R. Kleiman. 1985. Fatty acid composition in *Cuphea* seed oils from Brazil and Nicaragua. J. Amer. Oil Chemists' Soc. 62: 81-82.
- Graham, Alan, J. Nowicke, J. Skvarla, S. Graham, G. Patel, and S. Lee. 1985. Palynology and systematics of the Lythraceae. I. Genera *Adenaria* - *Ginoria*. Amer. J. Bot. 72: 1012-1031.
- Graham, Shirley. 1986. Lythraceae. pp. 494-498. In T. M. Barkley, ed., *Flora of the Great Plains*. University Press of Kansas, Lawrence, Kansas.
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- Graham, Alan, J. Nowicke, J. Skvarla, S. Graham, G. Patel, and S. Lee. 1987. Palynology and systematics of the Lythraceae. II. Genera *Haitia* through *Peplis*. *Amer. J. Bot.* 74: 829-850.
- Graham, Shirley A. 1988. Revision of *Cuphea* section *Heterodon* (Lythraceae). *Syst. Bot. Monogr.* 20: 1-168.
- _____. 1989. Revision of *Cuphea* sect. *Leptocalyx* (Lythraceae). *Syst. Bot.* 14: 43-76.
- _____. 1989. Lythraceae. pp. 426-440. *In* R. A. Howard, ed., *Flora of the Lesser Antilles*. Vol. 5(2). Arnold Arboretum, Harvard University, Jamaica Plain, Massachusetts.
- _____. 1989. *Cuphea*: a new plant source of medium-chain fatty acids. *CRC Crit. Rev. Food Sci. Nutr.* 28: 139-173.
- _____. 1989. Chromosome numbers in *Cuphea* (Lythraceae): new counts and a summary. *Amer. J. Bot.* 76: 1530-1540.
- Graham, Alan, S. Graham, J. Nowicke, G. Patel, and S. Lee. 1990. Palynology and systematics of the Lythraceae. III. Genera *Physocalymma* through *Woodfordia*, addenda, and conclusions. *Amer. J. Bot.* 77: 159-177.
- Graham, Shirley A. 1990. New species in *Cuphea* section *Melvilla* and an annotated key to the section. *Brittonia* 42: 12-32.
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- _____. 1992. New chromosome counts in Lythraceae-systematic and evolutionary implications. *Acta Bot. Mexicana* 17: 45-51.
- _____ & R. Kleiman. 1992. Composition of seed oils in some Latin American *Cuphea* (Lythraceae). *Industrial Crops Prod.* 1: 31-34.
- _____, K. Oginuma, P. Raven, & H. Tobe. 1993. Chromosome numbers in *Sonneratia* and *Duabanga* (Lythraceae s.l.) and their systematic significance. *Taxon* 42: 35-41.
- _____, J. V. Crisci, & P. C. Hoch. 1993. Cladistic analysis of the Lythraceae sensu lato based on morphological characters. *Bot. J. Linnaean Soc.* 113: 1-33.
- Kim, Seung-Chul, S. Graham, & Alan Graham. 1994. Palynology and pollen dimorphism in the genus *Lagerstroemia* (Lythraceae). *Grana* 33: 1-20.
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- _____. 1995. Gall makers on *Cuphea* (Lythraceae). *Biotropica* 27: 461-467.
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- Graham, S. and David Keil. 1997. The identity of the name *Ludwigia scabriuscula*. *Madroño* 44: 395-396.
- _____. 1998. Revision of *Cuphea* section *Diploptychia* (Lythraceae). *Systematic Botany Monographs* 53: 1-96.
- _____. 1998 [issued 1999]. Relationships among autogamous species of *Cuphea* section *Brachyandra* (Lythraceae). (In Portuguese). *Acta Botanica Brasileira* 12: 203-214.
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- Tobe, H., S. Graham, and P. Raven. 1998. Floral morphology and evolution in Lythraceae sensu lato. Pp. 329-344. In: S. J. Owens and P. J. Rudall, Eds., *Reproductive Biology*, Royal Botanic Gardens, Kew, Richmond, Surrey, England.
- Graham, S. and T. B. Cavalcanti. 1999. The yellow-flowered species of *Cuphea* (Lythraceae), including three new taxa. *Brittonia* 51: 24-30.
- _____ and T. Cavalcanti. 1999. A new yellow-flowered species of *Cuphea* (Lythraceae) from Bolivia. *Brittonia*: 51: 303-306
- _____ and A. Graham. 2000. The evolution and taxonomic significance of diaperturate pollen in the eurypalynous genus *Cuphea* (Lythraceae). In: Harley, M. M., C. M. Morton and S. Blackmore (Eds.). *Pollen and Spores: Morphology and Biology*, pp. 349-364. Royal Botanic Gardens, Kew. ISBN 1900347954.
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- Graham, S. A. 2002. Phylogenetic relationships and biogeography of the endemic Caribbean genera *Crenea*, *Ginoria*, and *Haitia* (Lythraceae). *Caribbean Journal of Science* 38:195-204.
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- Graham, S. A. 2004. Lythraceae, pp 223-225. In: Smith, N., S. A. Mori, A. Henderson, D. W. Stevenson, and S. V. Heald, Eds., *Flowering Plants of the Neotropics*. Princeton University Press, Princeton, NJ.
- Graham, S. A. 2004. Alzateaceae, pp 11-13. In: Smith, N., S. A. Mori, A. Henderson, D. W. Stevenson, and S. V. Heald, Eds., *Flowering Plants of the Neotropics*. Princeton University Press, Princeton, NJ.
- _____. 2005. Typification of some names in the Lythraceae, with emphasis on names by A. Grisebach. *Harvard Papers in Botany* 9: 297-304.
- _____. 2005. *Cuphea nivea* (Lythraceae), a new species from Bolivia. *Novon* 15: 136-138.
- Cavalcanti, T. B. and S. A. Graham. 2005. New Taxa in Lythraceae from Latin America. *Novon* 15: 59-68.
- _____, J. Hall, K. Sytsma, and S.-H. Shi. 2005. Phylogenetic analysis of the Lythraceae based on four gene regions and morphology. *International Journal of Plant Science* 166:995-1017.
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- composition of *Cuphea* (Lythraceae) seed oils. *Industrial Crops and Products* 27: 279--287.
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Graham, S. A. Fossil records in the Lythraceae. 2013. *The Botanical Review* 79: (in press).

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