

CURRICULUM VITAE

PATRICK STEPHEN HERENDEEN

**Co-Director, Division of Plant Science and Conservation
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Senior Scientist**

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EDUCATION:

Ph.D. Indiana University, Bloomington, Indiana. April, 1990
M.S. Michigan State University, East Lansing, Michigan. June 1985
B.S. California State University, Long Beach. June 1982

EMPLOYMENT:

Co-Director, Division of Plant Science and Conservation, Director of Academic Partnerships, and Senior Scientist Chicago Botanic Garden. July 2008 – present.
Program Director, Systematic Biology and Biodiversity Inventories Cluster, Division of Environmental Biology, National Science Foundation. June 2006 – June 2008. [temporary “rotator” position]
Robert Griggs Associate Professor, Department of Biological Sciences, The George Washington University. June, 2003 – June 2008.
Robert Griggs Assistant Professor, Department of Biological Sciences, The George Washington University. September, 1997 – June, 2003.
Adjunct Curator, Department of Geology, The Field Museum, Chicago, IL. March, 1993 – August, 1997.
Postdoctoral Research Associate, Bailey Hortorium, Cornell University, Ithaca, NY. September 1991 – March 1993.
Postdoctoral Research Fellow, Swedish Museum of Natural History, Stockholm, Sweden. August 1990 – 1991.
Visiting Professor, Indiana University, Department of Biology, June – August, 1990.

PROFESSIONAL APPOINTMENTS:

Adjunct Professor, Weinberg College of Arts & Sciences and The Graduate School, Northwestern University, Evanston, IL. August 2008 – present
Lecturer, Committee on Evolutionary Biology, University of Chicago, Chicago, IL. October 2008 – present
Research Associate, National Museum of Natural History, Washington D.C. October, 1997 – present.
Research Associate, The Field Museum, Chicago, IL. December, 1993 – present.
Affiliate Professor, Department of Biology, George Mason University, Fairfax, VA. June, 2000 – 2004.

GRANTS- EXTRAMURAL:

- National Science Foundation (DEB-0935231), 2009-2011. Future Directions in Biodiversity and Systematics Research. P.I.s P. S. Herendeen, L. McDade, P. Sierwald. Funded, \$99,817.
- National Science Foundation (DEB-0408041), 2004-2006. Doctoral Dissertation Improvement Grant Phylogeny of caesalpinoid legumes from the Guyana Shield. P.I.s P. S. Herendeen, K. Redden. Funded, \$11,975.
- National Science Foundation, 2003-2009. Phylogeny and evolution of caesalpinoid legumes. P.I.s: P. S. Herendeen, A. Bruneau (Montreal), G. P. Lewis (Kew). Funded, \$300,000.
- National Science Foundation (DBI-0303143), 2003-2005. Capillary sequencer for the George Washington University campus. P.I.s M.W. Allard, F. J. Turano, G. Hormiga, L. C. Smith, P. S. Herendeen. Funded, \$90,588.
- National Science Foundation (DEB-0206512), 2002-2004. Doctoral Dissertation Improvement Grant Systematics of the neotropical plant genus *Alloplectus* (Gesneriaceae). P.I.s: P. S. Herendeen, J. Clark. Funded, \$9,062.
- National Science Foundation (RCN-0090283), 2001-2006. Research Coordination Network: "Deep Time" – A Comprehensive Phylogenetic Tree of Living and Fossil Angiosperms. P.I.s: D. Soltis, P. Soltis, P. Herendeen, D. Dilcher. Funded, \$498,829.
- National Science Foundation, 1999. Scanning Electron Microscope for Systematic Biology. P.I.s: G. Hormiga, P. S. Herendeen, J. M. Clark, D. E. Lieberman, D. L. Lipscomb. Funded, \$118,274.
- National Science Foundation (DEB-9527673), 1996-2001. Systematics and Paleobotany of the Legume Subfamily Caesalpinioideae. P.I.: P. S. Herendeen. Funded, \$99,705.
- National Science Foundation (EAR-9614672), 1997-1998. Assessing Cretaceous vegetational change: palynological, mesofossil and macrofossil evidence from the Atlantic Coastal Plain. P.I.s: P. R. Crane, P. S. Herendeen, R. A. Lupia. Funded, \$127,988.
- National Science Foundation (DEB-9616443), 1997-1998. Support for paleobotanical collections at Field Museum. P.I.s: P. R. Crane and P. S. Herendeen. Funded, \$287,515
- National Science Foundation, Division of International Programs (INT 9007619), August 1990-1991. P.I.: P. S. Herendeen. Funded, \$32,756.
- National Science Foundation Doctoral Dissertation Improvement Grant, (BSR 8800900), May 1988. Funded, \$4,508.
- Indiana Academy of Science Research Grant, October 1987.
- Michigan Nature Conservancy, Small Grants Program, 1984.

GRANTS- INTRAMURAL:

- Research Enhancement Fund, 2005-2008. \$134,100. P.I.s G. Hormiga, P. Herendeen, J. Clark, D. Lipscomb, M. Allard, C. Church, P. Hernandez, J. Burns.
- George Washington University Junior Scholar Award, 2001. \$5,000.
- George Washington University Junior Scholar Award, 2000. \$5,000.
- George Washington University: University Facilitating Fund and Junior Scholar Award, 1999.

HONORS AND AWARDS:

- Distinguished Service Award, American Society of Plant Taxonomists, August, 2006.
- Elected, The Washington Biologists' Field Club, April, 2002.
- Elected, Fellow of the Linnean Society of London, February, 1997.
- Isabel Cookson Award, Paleobotanical Section, Botanical Society of America, Aug., 1990
- Bayard Franklin Floyd Memorial Fellowship, Indiana University: 1988-1989
- Floyd Fellowship, Indiana Univ.: Summer 1988, 1987, 1986
- Indiana University, Department of Biology. Travel Awards: 1989, 1988, 1986
- Michigan State University, College of Natural Sciences, Travel Award, 1984

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

American Association for the Advancement of Science
American Society of Plant Taxonomists
Botanical Society of America
Society of Systematic Biologists
International Association for Plant Taxonomy
International Association of Wood Anatomists
International Organisation of Palaeobotany
Linnean Society of London
Sigma Xi

INVITED SEMINARS:

Adlai Stevenson High School, Lincolnshire, IL. Science careers presentation, "Research, education and internship opportunities at Chicago Botanic Garden." May, 2010
Knox College, Department of Biology, "Research, education and internship opportunities at Chicago Botanic Garden." May, 2010.
University of Wisconsin Oshkosh, Department of Biology, "Early evolution of flowering plants; Research and internship opportunities at Chicago Botanic Garden," February, 2010.
Loyola University Chicago, Department of Biological Sciences, "Evolution of flowering plants," November, 2009.
California State University Long Beach, Department of Biological Sciences, "Evolution of flowering plants," October, 2009.
University of Illinois Chicago, Department of Biological Sciences, "Evolution of flowering plants," September, 2009.
University of Chicago, "Systematics, evolution and biogeography of the legume family" October, 2008.
Department of Earth and Planetary Sciences, Northwestern University, "Evolution of flowering plants," October, 2008.
Field Museum, "Evolution of flowering plants," September, 2008.
Paleofest, University of Florida, "Fossil history of the Leguminosae," March, 2006.
Department of Botany, Smithsonian Institution, "Reproductive structures of Leguminosae: phylogenetic and paleobotanical utility." 31 October, 2005.
University of Maryland "Early evolutionary history of flowering plants," October, 2004.
Department of Biological Sciences, George Washington University, "Early fossil history of flowering plants," 12 September, 2003.
Department of Biology, Georgetown University, "Early fossil history of flowering plants," 15 March, 2003.
Flowers: Diversity, Development & Evolution, "Floral morphology in caesalpinoid legumes: testing the monophyly of the *Umtiza* clade," 5-7 July, 2002, Zurich, Switzerland.
Department of Biology, Virginia Commonwealth University, "Early fossil history of flowering plants," 15 April, 2002.
Department of Geography, George Washington University, "Biogeography of Leguminosae in Africa," 6 March, 2001.
Institut de recherche en biologie végétale (Univ. Montréal), "Early evolutionary history of flowering plants," 2 February 2001.
Harvard University Herbaria, "Early evolution of flowering plants," 1 February, 2000.
Department of Geology, The George Washington University, "Fossil flowers from the Atlantic Coastal Plain," 3 March, 1999.
Department of Paleontology, National Museum of Natural History, "Fossil flowers from the Atlantic Coastal Plain," 25 March, 1999.
Botanical Society of Washington, "Early fossil history of flowering plants", 3 March, 1998.
Department of Botany, National Museum of Natural History, "Phylogeny and history of the Leguminosae," 25 September, 1997.

Department of Biological Sciences, The George Washington University, "Fossil history of flowering plants," 26 September, 1997.

Laboratory of Molecular Systematics, National Museum of Natural History, "Fossil history of flowering plants," 13 November, 1997.

PROFESSIONAL SERVICE- PUBLISHING:

Associate Editor, *International Journal of Plant Sciences*. 2008 – present.

Editor-in-Chief, *Systematic Botany*. September 2002 – December 2006.

Managing Editor, *Systematic Botany*. December 1998 – August 2002.

Consejeros Editoriales, *Revista Mexicana de Biodiversidad*. August 2005 – present.

Botanical Society of America, Publications Committee. September 2002 – present (chair 2004-2006).

Editorial Board, *Journal of Plant Research*. 1999 – 2006.

Editor, *Bibliography of American Paleobotany*. Published by the Paleobotanical Section, Botanical Society of America. 1996 – 2000.

Reviewer for: *American Journal of Botany*, *Annals of the Missouri Botanical Garden*, *Australian Journal of Botany*, *Grana*, *IAWA Journal*, *International Journal of Plant Sciences*, *Kew Bulletin*, *Novon*, *Plant Systematics and Evolution*, *Review of Palaeobotany and Palynology*, *Systematic Botany*

PROFESSIONAL SERVICE- CONFERENCES:

Program Director, American Society of Plant Taxonomists, August 2006 – present.

Organizer & moderator- "Is morphology dead in phylogenetic analyses?" Panel discussion of the role of morphology in phylogenetic systematics. Botany 2004, Snowbird, Utah. August, 2004 [panel members: Robert Scotland, Richard Olmstead, James Doyle, Walter Judd]. Sponsored by the "Deep Time" RCN project.

Organizer & moderator, symposium on "Missing data in phylogenetic analysis." Deep Time meeting, George Washington University, April, 2004.

Co-organizer (with Peter R. Crane), Symposium, "Dating in the 21st Century: theory and reality in finding a date for your clade," Botany 2003, Mobile, Alabama. July, 2003.

Organizer, Midcontinent Paleobotanical Colloquium, June, 2001. George Washington University.

Co-organizer (with Anne Bruneau, Gwilym Lewis), Symposium, "Phylogenetic relationships in Caesalpinioideae," 3rd International Legume Conference, Canberra, Australia. July, 2001.

Co-organizer (with Anne Bruneau), Symposium, "Phylogenetic relationships in Caesalpinioideae: evidence from multiple sources of characters," 16th International Botanical Congress, St. Louis, MO. August, 1999.

Co-organizer (with Peter R. Crane), 44th Annual Systematics Symposium, Missouri Botanical Garden- "The origin of modern terrestrial ecosystems: fossils, phylogeny and biogeography" 17-18 October, 1997.

Organizing Committee member, Field Trip Coordinator, and Field Trip Organizer for the Fifth Conference of the International Organisation of Palaeobotany, Santa Barbara, California, June-July, 1996.

PROFESSIONAL SERVICE- OTHER:

Decennial Review Committee, Botany Program of Claremont Graduate University at Rancho Santa Ana Botanic Garden. February 2-3, 2009.

Science Chicago, Saturday Science series (lecture and lab experience for the general public): "Exploring Plants in the Fossil Record." March, 2009.

National Science Foundation, rotating program officer, Systematic Biology and Biodiversity Inventories Cluster, June 2006 – June 2008.

Smithsonian Institution, Undersecretary for Science Restricted Endowment Review Panel Member (grant proposal review panel), October, 2005.

National Museum of Natural History (Smithsonian Institution), Professional Accomplishments Evaluation Committee (PAEC; equivalent of university promotion and tenure committee), December, 2004.

National Science Foundation, Systematics panel member, 2005.

National Science Foundation, Biotic Surveys and Inventories panel member, 2003.

Nomenclature Committee on Fossil Plants, Member, September 2002 – present; Secretary 2005 – present.

Award Committee Member for the “Cuatrecasas Medal,” which is awarded annually during the Smithsonian’s spring Botanical Symposium. 2000 – 2004.

Botanical Society of America Representative to AAAS. 2000 – 2003.

Chair, Paleobotanical Section, Botanical Society of America. 1997 – 1998.

American Society of Plant Systematists, Systematic Collections Committee, 1996 – 1999; Chair (1998 – 1999).

Consulting on fossil plant article in the “*Visual Dictionary of Prehistoric Life*,” (1995), Dorling Kindersley, London.

Consulting on “Garden Primeval” exhibit, U. S. National Botanic Garden, Washington DC (1998).

DEPARTMENT AND INSTITUTION SERVICE:

Chicago Botanic Garden

World Environment Day presentation, “Using Herbarium Collections in Research.” June 5, 2010.

“Exploring plants in the fossil world” workshop for “Science Saturdays” program (sponsored by Science Chicago). One day workshop for general public. March 20, 2009.

George Washington University

Earth and Environmental Sciences Study Group (faculty committee to study closure of Dept. Earth and Environmental Sciences; reports to Dean of CCAS). Summer 2004 – 2005.

Faculty advisor for “Freshman Advising Workshop,” Fall, 2000.

Organizer for departmental seminar series: 1998-1999, Fall semester 2001.

Gelman Library representative for Department of Biological Sciences (1998 – present).

Maintenance of Scanning Electron Microscope and auxiliary equipment and training of new users for Department of Biological Sciences, jointly with Dr. Gustavo Hormiga (2000 – present)

Participated in Scholars Showcase, The George Washington University, “Fossil flowers of the Atlantic Coastal Plain,” 25 March, 1998.

Field Museum

Academic Affairs Management Group (Field Museum): 1994 – 1997.

Planned and supervised move of cryptogam collections (Botany) and paleobotanical collections (Geology) and selection and installation of compactorized storage system (Field Museum, 1996 – 1997).

Review Committee member for review of Field Museum library (1995).

GRADUATE STUDENTS- PRIMARY ADVISOR:

Vinita Gowda, George Washington University. Major Professor. Ph.D. student, graduated June 2009.

Karen Redden, George Washington University. Major Professor. Ph.D. student, graduated August 2006.

John Clark, George Washington University. Major Professor. Ph.D. student, graduated December 2004.

Kathleen Johnson, George Washington University. Major Professor. M.S. student, graduated Dec. 2003.

Anastasia Konopka, University of Illinois at Chicago. Major Professor. M.S. Fall 1995 – Spring 1997.

GRADUATE STUDENTS- THESIS COMMITTEE MEMBER OR EXAMINER:

Jonah Choiniere, GWU Ph.D. committee member, 2005 – 2008

Robert Javonillo, GWU Ph.D. committee member, 2004 – 2008

Sayantana Biswas, GWU Ph.D. committee member, 2003 – 2008

Michael Malia, GWU. Ph.D. dissertation reader & exam committee.

Jeremy Miller, GWU. Ph.D. dissertation reader & exam committee.
Ginny Emerson, GWU. Ph.D. dissertation reader & exam committee, graduated spring 2002
Brian Andres, GWU. M.S. thesis reader and exam committee, graduated summer 2002.
Maureen Kearney, GWU. Ph.D. exam committee, graduated 2000
Karin Herrmann, GWU. Ph.D. committee member, Fall 2000 – 2003.
Marie Fougère, Université de Montréal and Université Paul Sabatier de Toulouse. Advisory Committee Member. Ph.D. student. 2001 – 2006.
Helena Eklund, University of Uppsala, Sweden. External examiner for Ph.D. dissertation defense. December, 1999.
Malin Hibbs, University of Maryland, College Park. Advisory Committee Member. Ph.D. student. 1998 – 2003.

TEACHING:

Northwestern University

The Nature of Plants (Biolsci 109; Spring, 2010). Undergraduate “distribution” elective; 130 students.

The George Washington University:

Phylogenetic Systematics (BiSc 210; Fall, 2004 with G. Hormiga)
Biogeography and Coevolution (BiSC 211; Fall, 1998, 1999, 2001)
Diversity and History of Plants (BiSc 222; Fall, 2000, 2002)
Diversity and Phylogeny of Flowering Plants (BiSc 223, Fall, 2001)
Freshman Advising Workshop (Fall, 2000)

The University of Chicago:

Angiosperm Diversity and Phylogeny (co-taught with Peter R. Crane, Spring, 1995)

The Swedish Museum of Natural History:

Graduate seminar: The International Code of Botanical Nomenclature

Indiana University- Visiting Professor:

Summer Flowering Plants: Summer 1990

Indiana University- Associate Instructor:

Paleobotany: Spring 1990; Special Topics in Plant Systematics (Angiosperm Systematics): Fall 1987, 1989; Vascular Plants: Spring 1987, 1988; Introductory Biology: Spring 1985, Fall 1986; Biology for nonmajors: Fall 1985; Teaching Assistant,

Michigan State University:

Plant Morphology: Fall 1984, Winter 1985; Plant Ecology: Spring 1983, 1984, 1985; Botany for nonmajors: Fall 1984; Introductory Biology: Winter 1983, 1984

PH. D. DISSERTATION:

Fossil History of the Leguminosae from the Eocene of Southeastern North America. Indiana University, Bloomington. April 1990. Dissertation advisor: D. L. Dilcher

M. S. THESIS:

The Alvares of the Maxton Plains, Drummond Island, Michigan: Present Community Composition and Vegetation Changes. Department of Botany and Plant Pathology, Michigan State University, June 1985. Thesis advisor: S. N. Stephenson.

PUBLICATIONS, BOOKS/SYMPOSIUM VOLUMES:

Herendeen, P. S. and A. Bruneau, Editors. 2000. *Advances in legume systematics, part 9*. Royal Botanic Gardens, Kew.

Crane, P. R. and P. S. Herendeen, Editors 1999. *The Origin of Modern Terrestrial Ecosystems: Fossils, Phylogeny and Biogeography*. Annals of the Missouri Botanical Garden 86(2).

Herendeen, P. S. and D. L. Dilcher, Editors. 1992. *Advances in Legume Systematics, part 4. The Fossil Record*. Royal Botanic Gardens, Kew.

PUBLICATIONS, PEER-REVIEWED ARTICLES:

Pan, A. D., B. F. Jacobs, and P. S. Herendeen. 2010. Detarieae sensu lato (Leguminosae) from the Late Oligocene (28 – 27) Ma Guang River flora of northwestern Ethiopia. *Botanical Journal of the Linnean Society*. 163: 44-54.

Redden, K. M., P. S. Herendeen, K. J. Wurdack, and A. Bruneau. 2010. *Morphological and Molecular Phylogenetic Analysis of the Brownea Clade (Detarieae, Caesalpinioideae) from Northeastern South America*. *Systematic Botany* 35: 524-533.

Fougère-Danezan, M., P. S. Herendeen, S. Maumont, and A. Bruneau. 2009. Morphological evolution in the variable resin-producing Detarieae (Fabaceae): do morphological characters retain a phylogenetic signal? *Annals of Botany*. doi: 10.1093/aob/mcp280

Leslie, A. B., P. S. Herendeen and P. R. Crane. 2009. *Upatoia bernardii* gen et sp nov., an araucarian pollen cone with in situ pollen from the Late Cretaceous (Santonian) of Georgia, USA. *Grana* 48: 128-135.

Crane, P. R. and P. S. Herendeen. 2009. Bennettitales from the Grisethorpe Bed (Middle Jurassic), at Cayton Bay, Yorkshire, U.K. *American Journal of Botany* 96: 284-295.

Takahashi, M., E. M. Friis, P. S. Herendeen, and P. R. Crane. 2008. Fossil flowers of Fagales from the Kamikitaba locality (Early Coniacian; Late Cretaceous) of northwestern Japan. *International Journal of Plant Sciences* 169: 899-907.

Bruneau, A., M. Mercure, G. P. Lewis and P. S. Herendeen. 2008. Phylogenetic patterns and diversification in caesalpinoid legumes. *Botany* 86: 697-718.

Redden, K. M. and P. S. Herendeen. 2006. Morphology and phylogenetic relationships of *Paloue* and related genera in the *Brownea* clade (Detarieae, Caesalpinioideae). *International Journal of Plant Sciences* 167: 1229-1246.

Kaiser, T. M., J. Ansoorge, G. Arratia, V. Bullwinkel, G. Gunnell, P. S. Herendeen, B. Jacobs, J. Mingram, C. Msuya, A. Musolf, R. Naumann, E. Schulz and V. Wilde. 2006. The maar lake of Mahenge (Tanzania) – unique evidence of Eocene terrestrial environments in sub-Saharan Africa. *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften* 157(3): 99-120.

Clark, J. L. P. S. Herendeen, L. E. Skog, E. A. Zimmer. 2006. Phylogenetic relationships and generic boundaries in the Episcieae (Gesneriaceae) inferred from nuclear, chloroplast, and morphological data. *Taxon* 55: 313-336.

Lavin, M., P. S. Herendeen, M. F. Wojciechowski. 2005. Evolutionary rates analysis of Leguminosae implicates a rapid diversification of lineages during the Tertiary. *Systematic Biology* 54: 575-594.

Crane, P. R., P. S. Herendeen, and E. M. Friis. 2004. Fossils and plant phylogeny. *American Journal of Botany* 91: 1683-1699.

Jacobs, B. F. and P. S. Herendeen. 2004. Eocene dry climate and woodland vegetation in tropical Africa reconstructed from fossil leaves northern Tanzania. *Palaeogeography, Palaeoclimatology, Palaeoecology* 213: 115-123.

Eklund, H., J. A. Doyle, and P. S. Herendeen. 2004. Morphological phylogenetic analysis of living and fossil Chloranthaceae. *International Journal of Plant Sciences* 165: 107-151.

- Herendeen, P. S., G. P. Lewis, and A. Bruneau. 2003. Floral morphology in caesalpinoid legumes: testing the monophyly of the “*Umtiza* clade.” *International Journal of Plant Sciences* 164 (Supplement): S393-S407.
- Gunnell, G. F., B. F. Jacobs, P. S. Herendeen, J. J. Head, E. Kowalski, C. P. Msuya, F. A. Mizambwa, T. Harrison, J. Habersetzer, and G. Storch. 2003. Eocene microbat from Sub-Saharan Africa and the early evolution of sophisticated echolocation. *Palaeontologia Electronica* http://palaeo-electronica.org/paleo/2002-2/africa/issue2_02.htm
- Doyle, J. A., H. Eklund, and P. S. Herendeen. 2003. Phylogenetic analysis and floral evolution in Chloranthaceae. *International Journal of Plant Sciences* 164 (Supplement): S365-S382.
- Herendeen, P.S., A. Bruneau, and G. P. Lewis. 2003. Phylogenetic Relationships in Caesalpinoid Legumes: A Preliminary Analysis based on Morphological and Molecular Data. In B. B. Klitgaard and A. Bruneau, Editors. *Advances in legume systematics*, part 10, pp. 37-62. Royal Botanic Gardens, Kew.
- Lupia, R., P. S. Herendeen, and J. A. Keller. 2002. A new fossil flower and associated coprolites: evidence for angiosperm-insect interactions in the Santonian (Late Cretaceous) of Georgia, U.S.A. *International Journal of Plant Sciences* 163: 675-686.
- Takahashi, M., P. S. Herendeen, and P. R. Crane. 2001. Lauraceous fossil flowers from the Kamikitaba Locality (Lower Coniacian; Upper Cretaceous) in northeastern Japan. *Journal of Plant Research* 114: 429-434.
- Bruneau, A., F. Forest, P. S. Herendeen, B. B. Klitgaard, and G. P. Lewis. 2001. Phylogenetic relationships in the Caesalpinioideae (Leguminosae) as inferred from chloroplast trnL intron sequences. *Systematic Botany* 26: 487-514.
- Magallón, S., P. S. Herendeen, and P. R. Crane. 2001. Floral diversity in Hamamelidoideae (Hamamelidaceae): *Androdecidua endressi* gen. et sp. nov. from the late Santonian (Late Cretaceous) of Georgia, U.S.A. *International Journal of Plant Sciences* 162: 963-983.
- Herendeen, P. S. 2000. Structural evolution in Caesalpinioideae. In P. S. Herendeen and A. Bruneau, Editors. *Advances in legume systematics*, part 9, pp. 45-64. Royal Botanic Gardens, Kew.
- Herendeen, P. S. and R. B. Miller. 2000. The application of wood anatomical characters in cladistic phylogenetic analyses. *IAWA Journal* 21: 247-276.
- Herendeen, P. S. and B. F. Jacobs. 2000. Fossil Legumes from the Middle Eocene (46.0 Ma) Mahenge Flora, Singida, Tanzania. *American Journal of Botany* 87: 1358-1366.
- Herendeen, P. S., E. A. Wheeler, and P. Baas. 1999. Angiosperm wood evolution and the potential contribution of paleontological data. *Botanical Review* 65: 278-300.
- Sims, H. J., P. S. Herendeen, R. Lupia, R. A. Christopher, and P. R. Crane. 1999. Fossil flowers with Normapoles pollen from the Upper Cretaceous of southeastern North America. *Rev. Palaeobot. Palynol.* 106: 131-151.
- Herendeen, P. S., S. Magallón-Puebla, R. Lupia, P. R. Crane and J. Kobylinska. 1999. A preliminary conspectus of the Allon flora from the Late Cretaceous (Late Santonian) of central Georgia, USA. *Annals of the Missouri Botanical Garden* 86: 407-471.
- Magallón-Puebla, S., P. R. Crane, and P. S. Herendeen. 1999. Phylogenetic pattern, diversity and diversification of eudicots. *Annals of the Missouri Botanical Garden* 86: 297-372.
- Herendeen, P. S. and J. E. Skog. 1998. *Gleichenia chaloneri*: a new fossil fern from the Lower Cretaceous (Albian) of England. *Intl. J. Plant Sci.* 159: 870-879.

- Sims, H. J., P. S. Herendeen, and P. R. Crane. 1998. New genus of fossil Fagaceae from the Santonian (Late Cretaceous) of central Georgia, U.S.A. *Intl. J. Plant Sci.* 159: 391-404.
- Konopka, A. S., P. S. Herendeen, and P. R. Crane. 1998. Sporophytes and gametophytes of Dicranaceae from the Santonian (Late Cretaceous) of Georgia, U.S.A. *Amer. J. Bot.* 85: 714-723.
- Konopka, A. S., P. S. Herendeen, G. L. Smith Merrill and P. R. Crane. 1997. Sporophytes and gametophytes of Polytrichaceae from the Campanian (Late Cretaceous) of Georgia, U.S.A. *Intl. J. Plant Sci.* 158: 489-499.
- Magallón-Puebla, S., P. S. Herendeen and P. R. Crane 1997. *Quadriplatanus georgianus* gen. et sp. nov.: staminate and pistillate platanaceous flowers from the Late Cretaceous (Coniacian-Santonian) of Georgia, USA. *Int. J. Plant Sci.* 158: 373-394.
- Magallón-Puebla, S., P. S. Herendeen and P. K. Endress 1996. *Allonia decandra*: floral remains of the tribe Hamamelideae (Hamamelidaceae) from Campanian strata of southeastern USA. *Plant Syst. Evol.* 202: 177-198.
- Keller, J. A., P. S. Herendeen and P. R. Crane. 1996. Fossil flowers and fruits of the Actinidiaceae from the Campanian (Late Cretaceous) of Georgia. *Amer. J. Bot.* 83: 528-541.
- Crane, P. R. and P. S. Herendeen. 1996. Cretaceous floras containing angiosperm flowers and fruits from eastern North America. *Review of Palaeobotany and Palynology* 90: 319-337.
- Herendeen, P. S. and P. R. Crane 1995. The fossil history of the monocotyledons. In P. J. Rudall, P. Cribb, D. F. Cutler, and C. J. Humphries (editors). *Monocotyledons: Systematics and Evolution*, pp. 1-21. Royal Botanic Gardens, Kew.
- Herendeen, P. S. 1995. Phylogenetic relationships of the tribe Swartzieae. In M. D. Crisp and J. J. Doyle (editors), *Advances in Legume Systematics, part 7, Phylogeny*. pp. 123-132. Royal Botanic Gardens, Kew.
- Herendeen, P. S., P. R. Crane and A. N. Drinnan 1995. Fagaceous flowers, fruits and cupules from the Campanian (Late Cretaceous) of central Georgia, USA. *Int. J. Plant Sci.* 156: 93-116.
- Herendeen, P. S., P. R. Crane and S. Ash. 1994. Vegetation of the dinosaur world. *Dino Fest: proceedings of a conference for the general public*. G. D. Rosenberg and D. L. Wolberg, editors. *Paleontol. Soc. Spec. Publ.* 7, pp. 347-364. Univ. Tennessee Press, Knoxville.
- Herendeen, P. S., W. L. Crepet and K. C. Nixon. 1994. Fossil flowers and pollen of Lauraceae from the Upper Cretaceous of New Jersey. *Plant Systematics and Evolution* 189: 29-40.
- Herendeen, P. S., W. L. Crepet, and K. C. Nixon 1993. *Chloranthus*-like stamens from the Upper Cretaceous of New Jersey. *American Journal of Botany* 80: 865-871.
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