

CURRICULUM VITAE

PATRICK STEPHEN HERENDEEN

**Senior Director, Systematics and Evolutionary Biology,
and Senior Scientist
Division of Plant Science and Conservation**

Chicago Botanic Garden
1000 Lake Cook Road
Glencoe, IL 60022
Phone: 847.835.6956
Fax: 847.835.5484

Email: pherendeen@chicagobotanic.org

Citizenship: United States

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:

Senior Director, Systematics and Evolutionary Biology (former title: 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. 1997 – 2010.
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- 1607201), 2016. A workshop to explore enhancing collaboration between US and Chinese researchers in systematic biology. P.I.s P. S. Herendeen, N. Zhang, A. Cognatto. Funded, \$78,001.
- National Science Foundation (DEB- 1501199), 2015-2016. Dissertation Research: Systematics, biogeography and taxonomy of the pantropical legume genus *Cynometra*. P.I.s P.S. Herendeen and A. Radosavljevic. Funded, \$20,111.
- National Science Foundation (DEB-1348456), 2014-2017. Exceptionally well-preserved Early Cretaceous seed plants from Mongolia. P.I.s P. S. Herendeen and P. R. Crane. Funded, \$465,366.
- US Department of Education, 2012-2015. GAANN: Graduate Training in Evolutionary Environmental Biology. PIs S. Kidwell, D. Jablonski, C. Moreau, M. LaBarbera, P. Herendeen, C. Johnson. University of Chicago, Committee on Evolutionary Biology. \$1,594,010.
- 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. . 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:

American Society of Plant Taxonomists. Elected President-Elect, Spring 2013.
Botanical Society of America, Merit Award. 2013.
National Science Foundation, Director's Award of Excellence, 2008. [staff recognition award]
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
International Association for Plant Taxonomy
International Organisation of Palaeobotany
Linnean Society of London
Sigma Xi
Society of Systematic Biologists

INVITED SEMINARS:

EvMorph seminar, University of Chicago, "Early Cretaceous Age Fossil Plants from Mongolia," 18 February, 2016.
Earth Science Club of Northern Illinois, College of Du Page, "Early Angiosperm Evolution," 13 November 2015.
Legume Morphology, an international symposium and workshop, Botucatu, Brazil, "Morphology in phylogenetic analyses: some practical considerations," 2-5 November, 2015.
Symposium following International Prize for Biology presentation, "Pre-Angiosperm Vegetation of the mid-Mesozoic," Tokyo, Japan. 2 December, 2014.
Latin American Botanical Congress, symposium: 20 years of molecular systematics in legumes: reconciling DNA and morphology into a new classification system. "Fossil history and early diversification of Leguminosae." 24 October, 2014, Salvador, Brazil.
Rotary Club, Glenview, IL. Studies of Fossil Flowers using Synchrotron X-Ray Microtomography (and information about research and education at Chicago Botanic Garden)." April 24, 2014.
Missouri Botanical Garden. "Evolution of flowering plants." August, 2013.
Chicago Plant Science Symposium. "Synchrotron x-ray microtomography in studies of fossil flowers." April 20, 2013.
Indiana University South Bend, "Evolution of flowering plants; Research, education and internship opportunities at Chicago Botanic Garden," November, 2012.
American Society of Botanical Artists, "Paleobotany and the Role of (Paleo)botanical Art," October, 2012.
Adlai Stevenson High School, Lincolnshire, IL. Science careers presentation, "Research in plant paleontology" May, 2011 and 2012
Illinois State University, School of Biological Sciences. "Early evolution of flowering plants," January, 2011.

- Jr. Science Café, Northwestern University. Lecture to middle school and high school students on "Plant fossils and climate change." November, 2010.
- 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:

- Editor in Chief, *International Journal of Plant Sciences*. 2013 – present.
- Editor, *International Journal of Plant Sciences*. 2008 – present.
- Editorial Board, *Aliso*. 2014 – present.

Subject Editor (paleobotany, legume systematics), *PhytoKeys*. July 2011 - 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 – 2008.
Botanical Society of America, Publications Committee. September 2002 – 2006 (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:

Co-organizer (with Richard Ree and Andrew Hipp), Chicago Plant Science Symposium. April 16, 2016. “The Science of Conservation.” The Field Museum.
Co-organizer (with Richard Ree and Andrew Hipp), Chicago Plant Science Symposium. April 19, 2015. “Collections at the Forefront of Plant Science.” The Field Museum.
Co-organizer (with Richard Ree), Chicago Plant Science Symposium. April 19, 2014. “Symbioses.” The Field Museum.
Co-organizer (with Richard Ree and Andrew Hipp), Chicago Plant Science Symposium. April 20, 2013. “Old questions, new tools.” The Field Museum.
Organizer, Discussion session on developing a new classification for the Leguminosae. Sixth International Legume Conference, Johannesburg, South Africa, January, 2013.
Co-organizer (with Richard Ree), Chicago Plant Science Symposium. April 20, 2012. “Major evolutionary transitions.” The Field Museum.
Co-organizer (with Anne Bruneau), Symposium “An overview of legume systematics: toward a phylogenetic classification of the family,” International Botanical Congress, Melbourne, Australia. July, 2011
Co-organizer (with Richard Ree), Chicago Plant Science Symposium. April 16, 2011. “Species: from concepts to conservation.” The Field Museum.
Program Director, American Society of Plant Taxonomists, August 2006 – 2013.
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 Caesalpinoideae,” 3rd International Legume Conference, Canberra, Australia. July, 2001.
Co-organizer (with Anne Bruneau), Symposium, “Phylogenetic relationships in Caesalpinoideae: 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:

- Past President, American Society of Plant Taxonomists, 2015-2016.
President, American Society of Plant Taxonomists, 2014-2015.
President-Elect, American Society of Plant Taxonomists, 2013-2014.
Organizer, Roundtable Discussion, “Electronic publication: is it time to kiss our paper journals goodbye?”
Botany 2012. <http://2012.botanyconference.org/engine/search/index.php?func=detail&aid=860>.
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, “Plant paleontology: a window into environments of the past.”
June 4, 2011.
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:

Aleks Radosavljevic, Northwestern University, Major Professor. Ph.D. student, September 2010 - present

Colleen Michael, Northwestern University, Major Professor. M.S. student, 2010 - 2013

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 January 2005.

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

Plant Evolution and Diversity (PBC 401/Biolsci 350; Fall 2010, Winter 2012, 2013, 2014, 2015, 2016).

The Nature of Plants (Biolsci 109; Spring, 2010, 2011). Undergraduate “distribution” elective; 130 students (2010), 200 students (2011).

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)

Advanced Topics in Ethics for the Darwinian Sciences (co-taught with Mike Coates and Shannon Hackett), Spring 2014

Winter quarter 201

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:

Wiersema, J. H., J. McNeill, N. J. Turland, F. R. Barrie, W. R. Buck, V. Demoulin, W. Greuter, D. L. Hawksworth, P. S. Herendeen, S. Knapp, K. Marhold, J. Prado, W. F. Prud'homme van Reine, G. F. Smith, 2015. International Code of Nomenclature for algae, fungi, and plants (Melbourne Code). Appendices II-VIII. Regnum Vegetabile 157. Koeltz Scientific Books.

McNeill, J., F. R. Barrie, W. R. Buck, V. Demoulin, W. Greuter, D. L. Hawksworth, P. S. Herendeen, S. Knapp, K. Marhold, J. Prado, W. F. Prud'homme van Reine, G. F. Smith, J. H. Wiersema, N. J. Turland, 2012. International Code of Nomenclature for algae, fungi, and plants (Melbourne Code). Regnum Vegetabile 154. Koeltz Scientific Books.

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:

Legume Phylogeny Working Group. Submitted. A new subfamily classification of the Leguminosae based on a taxonomically comprehensive phylogeny. *Taxon*

Gongle Shi, G., F. Herrera, P. S. Herendeen, A. B. Leslie, N. Ichinnorov, M. Takahashi and P. R. Crane. Submitted. Leaves of *Podozamites* and *Pseudotorellia* from the Early Cretaceous of Mongolia: stomatal patterns and implications for relationships. *Journal of Systematic Palaeontology*

Herrera, F., G. Shi, P. Knopf, A. B. Leslie, N. Ichinnorov, M. Takahashi, P. R. Crane, and P. S. Herendeen. In Press. Cupressaceae conifers from the Early Cretaceous of Mongolia. *International Journal of Plant Sciences*.

- Herrera, F., A. B. Leslie, G. Shi, P. Knopf, N. Ichinnorov, M. Takahashi, P. R. Crane, and P. S. Herendeen. 2016. New evidence from the Lower Cretaceous of Mongolia on the early history of Pinaceae. *Botany* 94: 885-915.
- Herendeen, P.S. J. A. Doyle, P. K. Endress, and M. Takahashi. 2016. A novel multiparted flower from the mid-Cretaceous Rocky Point locality, Maryland. *Botany* 94: 787-803.
- Shi, G., A.B. Leslie, P.S. Herendeen, F. Herrera, N. Ichinnorov, M. Takahashi, P. Knopf, and P.R. Crane. 2015. Early Cretaceous *Umkomasia* from Mongolia: implications for homology of corystosperm cupules. *New Phytologist*.
- Herrera, F., G. Shi, A.B. Leslie, P. Knopf, N. Ichinnorov, M. Takahashi, P.R. Crane, and P. S. Herendeen. 2015. A new voltzian seed cone from the Early Cretaceous of Mongolia and its implications for the evolution of ancient conifers. *Int. J. Plant Sci.* 176(8): 791-809.
- Shi, G., A. B. Leslie, P. S. Herendeen, N. Ichinnorov, M. Takahashi, P. Knopf, and P. R. Crane. 2014. Whole-plant reconstruction and phylogenetic relationship of *Elatides zhoui* sp. nov. (Cupressaceae) from the Early Cretaceous of Mongolia. *International Journal of Plant Sciences* 175: 911-930.
- Takahashi, M. P. S. Herendeen, X. Xiao, and P. R. Crane. 2014. Lauraceous Fossil Flowers from the Kamikitaba Assemblage (Coniacian, Late Cretaceous) of Northeastern Japan. *Systematic Botany* 39: 715-724.
- Leslie, A.B., I. Glasspool, P.S. Herendeen, N. Ichinnorov, P. Knopf, M. Takahashi, and P.R. Crane. 2013. Pinaceae-like reproductive morphology in *Schizolepidopsis canicularis* sp. nov. from the Early Cretaceous (Aptian-Albian) of Mongolia. *American Journal of Botany* 100: 2426–2436
- The Legume Phylogeny Working Group. 2013. Towards a new classification system for legumes: progress report from the 6th International Legume Conference. *South African Journal of Botany* 89: 3-9. <http://dx.doi.org/10.1016/j.sajb.2013.07.022>
- The Legume Phylogeny Working Group. 2013. Legume phylogeny and classification in the 21st century: progress, prospects and lessons. *Taxon* 62: 217-248.
- Falcon-Lang, H.J., E. Wheeler, P. Baas, and P.S. Herendeen. 2012. A diverse charcoalfied assemblage of Cretaceous (Santonian) angiosperm woods from Upatoi Creek, Georgia, USA. Part 1: Wood types with scalariform perforation plates. *Review of Palaeobotany and Palynology* 184: 49-73.
- Pan, A. D., E. D. Currano, B. F. Jacobs, M. Feseha, N. Tabor, and P. S. Herendeen. 2012. Fossil *Newtonia* (Fabaceae: Mimoseae) seeds from the early Miocene (22 – 21 Ma) Mush Valley in Ethiopia. *International Journal of Plant Sciences* 173: 290-296.
- Daly, M., P. S. Herendeen, R. P. Guralnick, M. W. Westneat, and L. McDade. 2012. Systematics Agenda 2020: The Mission Evolves. *Systematic Biology* 61: 549-552. doi:10.1093/sysbio/sys044
- Schönenberger, J., M. von Balthazar, M. Takahashi, X. Xiao, P. R. Crane and P. S. Herendeen. 2012. *Glandulocalyx upatoiensis* a fossil flower of Ericales (Actinidiaceae/Clethraceae) from the Late Cretaceous (Santonian) of Georgia, USA. *Annals of Botany* 109: 921-936.
- Miller, J. S., V. A. Funk, W. L. Wagner, F. Barrie, P. C. Hoch, and P. S. Herendeen. 2011. Outcomes of the 2011 Botanical Nomenclature Section at the XVIII International Botanical Congress. *PhytoKeys* 5: 1-3. doi: 10.3897/phytokeys.5.1850
- McDade, L.A., D. R. Maddison, R. Guralnick, H.A. Piwowar, M.L. Jameson, K.M. Helgen, P.S. Herendeen, A.Hill, and M.L. Vis. 2011. Biology needs a modern assessment system for professional productivity. *BioScience* 61: 619-625.

- 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. Phylogenetic Relationships of the Northeastern South American *Brownea* Clade of Tribe Detarieae (Leguminosae: Caesalpinioideae) based on Morphology and Molecular Data. *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. *Intl. 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. *Intl. 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.
- Herendeen, P. S. 1992. *Podocarpium podocarpum* comb. nov., the correct name for *Podogonium knorrii* Heer, nom. illeg. (fossil, Fabaceae). *Taxon* 41: 731-736.
- Herendeen, P. S. 1992. A reevaluation of the fossil genus *Podogonium* Heer. *Advances in Legume Systematics, part 4. The Fossil Record*. P. S. Herendeen and D. L. Dilcher, editors. pp. 3-18. Royal Botanic Gardens, Kew.
- Herendeen, P. S. 1992. The fossil history of the Leguminosae from the Eocene of southeastern North America. *Advances in Legume Systematics, part 4. The Fossil Record*. P. S. Herendeen and D. L. Dilcher, editors. pp. 85-160. Royal Botanic Gardens, Kew.
- Herendeen, P. S. and P. R. Crane. 1992. Early caesalpinoid fruits from the Palaeogene of southern England. *Advances in Legume Systematics, part 4. The Fossil Record*. P. S. Herendeen and D. L. Dilcher, editors. pp. 57-68. Royal Botanic Gardens, Kew.
- Herendeen, P. S., W. L. Crepet, and D. L. Dilcher. 1992. The fossil history of the Leguminosae: phylogenetic and biogeographic implications. *Advances in Legume Systematics, part 4. The Fossil Record*. P. S. Herendeen and D. L. Dilcher, editors. pp. 303-316. Royal Botanic Gardens, Kew.

- Dilcher, D. L., P. S. Herendeen and F. Hueber. 1992. Fossil *Acacia* flowers with attached anther glands from Dominican Republic amber. *Advances in Legume Systematics, part 4. The Fossil Record*. P. S. Herendeen and D. L. Dilcher, editors. pp. 33-42. Royal Botanic Gardens, Kew.
- Crepet, W. L. and P. S. Herendeen. 1992. Papilionoid flowers from the early Eocene of southeastern North America. *Advances in Legume Systematics, part 4. The Fossil Record*. P. S. Herendeen and D. L. Dilcher, editors. pp. 43-55. Royal Botanic Gardens, Kew.
- Herendeen, P. S. 1991. Charcoalified angiosperm wood from the Cretaceous of eastern North America and Europe. *Review of Palaeobotany and Palynology* 70: 225-239.
- Herendeen, P. S. 1991. Lauraceous wood from the mid-Cretaceous Potomac Group of eastern North America: *Paraphyllanthoxylon marylandense* sp. nov. *Review of Palaeobotany and Palynology* 69: 277-290.
- Herendeen, P. S. and D. L. Dilcher. 1991. *Caesalpinia* subgenus *Mezoneuron* (Leguminosae, Caesalpinioideae) from the Tertiary of North America. *American Journal of Botany* 78: 1-12.
- Herendeen, P. S. and J. L. Zarucchi. 1990. Validation of *Caesalpinia* subgenus *Mezoneuron* (Desf.) Vidal and new combinations in *Caesalpinia* for two species of *Mezoneuron* from Africa. *Annals of the Missouri Botanical Garden* 77: 854-855.
- Herendeen, P. S. and D. L. Dilcher. 1990. Reproductive and vegetative evidence for the occurrence of *Crudia* (Leguminosae, Caesalpinioideae) in the Eocene of southeastern North America. *Botanical Gazette* 151: 402-413.
- Herendeen, P. S. and D. L. Dilcher. 1990. *Diploctropis* (Leguminosae, Papilionoideae) from the Eocene of southeastern North America. *Systematic Botany* 15: 526-533.
- Herendeen, P. S. and D. L. Dilcher. 1990. Mimosoid legumes from the Eocene and Oligocene of southeastern North America. *Review of Palaeobotany and Palynology* 62: 339-361.
- Herendeen, P. S., D. H. Les, and D. L. Dilcher. 1990. Fossil *Ceratophyllum* (Ceratophyllaceae) from the Tertiary of North America. *American Journal of Botany* 77: 7-16.
- Stephenson, S. N. and P. S. Herendeen. 1985. Short term drought effects on the alvar communities of Drummond Island, Michigan. *The Michigan Botanist* 25: 16-27.

NON-PEER REVIEWED PUBLICATIONS:

- Head, M. J., R.A. Fensome, P. S. Herendeen, and J. E. Skog. 2016. (315–319) Proposals to amend Article 11.8 and its Examples to remove ambiguity in the sanctioning of dual nomenclature for dinoflagellates, and an emendation of Article 11.7, Example 29. *Taxon* 65: 902-903.
- Knapp, S. · N.J. Turland · M.E. Barkworth · F.R. Barrie · R.H. Fortunato · K. Gandhi · R.E. Gereau · W. Greuter · P.S. Herendeen · L.R. Landrum · D.J. Mabberley · K. Marhold · T.W. May · G. Moore · L. Rico Arce · G.F. Smith · K. Thiele · L. Zhang. 2016. (286) Proposal to replace Division III of the International Code of Nomenclature for algae, fungi, and plants. *Taxon* 65: 661-664.
- Knapp, S. · N.J. Turland · M.E. Barkworth · F.R. Barrie · R.H. Fortunato · K. Gandhi · R.E. Gereau · W. Greuter · P.S. Herendeen · L.R. Landrum · D.J. Mabberley · K. Marhold · T.W. May · G. Moore · L. Rico Arce · G.F. Smith · K. Thiele · L. Zhang. 2016. Report of the Special Committee on By-laws for the Nomenclature Section. *Taxon* 65: 665-669.
- Herendeen, P.S. 2016. Report of the Nomenclature Committee on Fossils: 10. *Taxon* 65(2): 382-387.
- Herendeen, P.S. 2015. Report of the Nomenclature Committee on Fossils: 9. *Taxon* 64(6) 1306-1312.

Committee on Fossils. 2015. (087–090) Proposal to treat the use of a hyphen in the name of a fossil-genus as an orthographical error. *Taxon* 64: 863.

Herendeen, P.S. 2011. Report of the Nomenclature Committee for Fossil Plants: 8. *Taxon* 60: 902-905.

Herendeen, P.S. 2011. Report of the Nomenclature Committee for Fossil Plants: 7. *Taxon* 60: 921-923.

Herendeen, P.S. 2006. Commentary. Observations from the outgoing editor-in-chief. *Systematic Botany* 31: 627-628.

Herendeen, P.S. 2000. In search of the first flowers. *Newton. Graphic Science Magazine* 20(1): 96-103. [in Japanese]

Herendeen, P.S. 1995. Review of: *The enigma of angiosperm origins*, Norman F. Hughes, 1994. Cambridge Paleobiology Series. *Earth-Science Reviews* 39: 120-123.

Herendeen, P.S. 1995. Review of: *Systematics and the fossil record: documenting evolutionary patterns*, Andrew B. Smith, 1994, Blackwell Scientific Publications. *ASPT Newsletter* 9(2): 63-64.

CONFERENCE PRESENTATIONS WITH PUBLISHED ABSTRACTS:

Herrera, F., Shi, G., Knopf, P., Leslie, A., Ichinnorov, N., Takahashi, M., Crane, P., Herendeen, P. 2016. Diversity of taxodiaceous Cupressaceae seed cones from the Early Cretaceous of Mongolia. *Botany* 2016. <http://botanyconference.org/engine/search/index.php?func=detail&aid=166>.

Herrera, F., G. Shi, A.B. Leslie, P. Knopf, N. Ichinnorov, M. Takahashi, P.R. & P.S. Herendeen. 2015. A swamp from the Early Cretaceous of Mongolia: revealing a conifer-dominated forest during the rise of the angiosperms. *Botany* 2015. <http://2015.botanyconference.org/engine/search/index.php?func=detail&aid=218>

Herendeen, P.S., J. Doyle, P.K. Endress & M. Takahashi. 2015. Fossil magnoliid flower from the mid-Cretaceous Rocky Point locality, Maryland. *Botany* 2015. <http://2015.botanyconference.org/engine/search/index.php?func=detail&aid=225>.

Shi, G., A. B. Leslie, P. S. Herendeen, N. Ichinnorov, M. Takahashi, P. Knopf, P. R. Crane. 2014. Whole-plant reconstruction and phylogenetic relationships of a new species of *Elatides* (Cupressaceae) from the Early Cretaceous of Mongolia. <http://www.2014.botanyconference.org/engine/search/index.php?func=detail&aid=228>.

Legume Phylogeny Working Group. 2013. Towards a new classification system for the Leguminosae: A draft proposal for discussion and improvement during 6ILC. Presented for LPWG by P. Herendeen, A. Bruneau, C. Hughes, R.T. Pennington and M.F. Wojciechowski. Sixth International Legume Conference, Johannesburg, South Africa, 6-11 January, 2013.

Legume Phylogeny Working Group. 2013. Towards a new classification system for the Leguminosae: Revisit, revise, move forward. Discussion co-chaired by P. Herendeen and G.P. Lewis. Sixth International Legume Conference, Johannesburg, South Africa, 6-11 January, 2013.

Leslie, A.B., I. Glasspool, P.S. Herendeen, N. Ichinnorov, M. Takahashi, and P.R. Crane. 2013. *Schizolepidopsis* from the Early Cretaceous (Aptian-Albian) of Mongolia: new information regarding a possible affinity with the Pinaceae. *Botany* 2013. <http://2013.botanyconference.org/engine/search/index.php?func=detail&aid=101>

Zimmerman, E. P. Herendeen and A. Bruneau. 2013. Floral evolution and systematics of the Dialiinae clade (Caesalpinioideae), a diverse lineage of tropical legumes. *Botany* 2013. <http://2013.botanyconference.org/engine/search/index.php?func=detail&aid=393>

- Radosavljevic, A., B. Mackinder, P. Herendeen, and F. Forest. 2013. Phylogeny and biogeography of *Cynometra* and *Maniltoa* (Leguminosae: Caesalpinioideae). Botany 2013. <http://2013.botanyconference.org/engine/search/index.php?func=detail&aid=686>
- Herendeen, P. S., P. R. Crane, M. Takahashi, A. Leslie, N. Ichinnorov, I. Glasspool, T. Gombosuren, and O. Nyamsambuu. 2012. Exceptionally well-preserved Early Cretaceous seed plants from Mongolia and their evolutionary significance. Botany 2012. <http://2012.botanyconference.org>.
- Herendeen, P.S., M. Wojciechowski, and M. J. Sanderson. 2011. Progress toward a comprehensive molecular phylogeny of legumes: are we almost there? Symposium paper at the International Botanical Congress, Melbourne, Australia. July 2011.
- Herendeen, P. S., M. Takahashi, and P. R. Crane. 2010. Microtomography analyses of fossil flowers from the Late Cretaceous of Georgia. Botany 2010. <http://2010.botanyconference.org>
- Leslie, A., P. S. Herendeen, P. R. Crane. 2008. Fossil Conifers from the Upatoi Creek (Late Cretaceous) of Georgia, USA. Botany 2008. <http://2008.botanyconference.org>.
- Redden, K. M., P. S. Herendeen, K. Wurdack, A. Bruneau. 2008. Phylogeny of the Brownea Clade (Leguminosae: Caesalpinioideae): genera, species and hybridization. Botany 2008. <http://2008.botanyconference.org>.
- Bruneau, A., G. P. Lewis, P. S. Herendeen, B. Schrire, M. Marjorie. 2008. Biogeographic patterns in early diverging clades of the Leguminosae. Botany 2008. <http://2008.botanyconference.org>
- Soltis, D. E., P. S. Soltis, P. S. Herendeen and D. L. Dilcher. 2007. Deep Time: integrating paleobotany and phylogenetics. Botany 2007. <http://www.2007.botanyconference.org/>
- Redden, K. M. and P. S. Herendeen. 2006. Morphological and molecular phylogeny of *Elizabetha*, *Heterostemon*, *Paloue*, and *Paloveopsis* (Leguminosae, Caesalpinioideae) from northeastern South America. Botany 2006, <http://www.2006.botanyconference.org>.
- Fougère-Danezan, M., S. Maumont, P. S. Herendeen, A. Bruneau. 2006. Floral evolution and biogeography in the resin-producing Detarieae (Leguminosae). Botany 2006, <http://www.2006.botanyconference.org>.
- K. M. Redden and P. S. Herendeen. 2005. Morphology, diversity and phylogeny of *Paloue*, *Elizabetha*, *Heterostemon* and related caesalpinoid legumes from northeastern South America. Poster. International Botanical Congress, Vienna, Austria.
- Herendeen, P. S., G. P. Lewis, and A. Bruneau. 2005. Reproductive structures of Leguminosae: phylogenetic and paleobotanical utility. International Botanical Congress, Vienna, Austria.
- K. M. Redden, P. S. Herendeen and A. Bruneau. 2005. Morphology and phylogeny of *Elizabetha*, *Heterostemon*, *Paloue*, and related *Paloveopsis* (Leguminosae, Caesalpinioideae) from northeastern South America. Botany 2005 abstract (<http://2005.botanyconference.org>)
- Bruneau, A., E.-A. Faubert, M. Fougère, R. Nattier, G. P. Lewis, and P. S. Herendeen. 2004. Patterns and rates of diversification in subfamily Caesalpinioideae (Leguminosae). Botany 2004 abstract (<http://www.botanyconference.org>)
- Herendeen, P. S. and S. R. Manchester. 2004. Fruits and foliage of *Cercis* from the Late Eocene of Oregon. Botany 2004 abstract (<http://www.botanyconference.org>)
- Jacobs, B. F. and P. S. Herendeen. 2002. Eocene (46 MA) rainfall estimates for tropical East Africa based on fossil leaves from Mahenge, Tanzania. Geological Society of America Annual Meeting. GSA Abstracts with Programs 34(6).

- Johnson, K. M. and P. S. Herendeen. 2002. Diversity and phylogeny of the caesalpinoid legume subtribe Dialiinae. Botany 2002 abstract. <http://www.botany2002.org/section12/abstracts/135.shtml>.
- Jacobs, B. F. and P. S. Herendeen. 2001. Evidence for dry climate at the Eocene Mahenge site, north-central Tanzania. Botany 2001 abstract. <http://www.botany2001.org/section7/abstracts/27.shtml>.
- Herendeen, P. S. and B. F. Jacobs. 2001. Fossil legumes from the Eocene of Tanzania. Botany 2001 abstract. <http://www.botany2001.org/section7/abstracts/16.shtml>.
- Herendeen, P. S. and S. Wing. 2001. Papilionoid legume fruits and leaves from the Paleocene of northwestern Wyoming. Botany 2001 abstract. <http://www.botany2001.org/section7/abstracts/26.shtml>.
- Herendeen, P. S. 2001. The fossil record of the Leguminosae: recent advances. Abstracts, International Legume Conference, Canberra, Australia. July 2001.
- Bruneau, A., P. S. Herendeen and G. P. Lewis. 2001. Phylogenetic relationships in the Caesalpinioideae: a preliminary synthesis of morphological and molecular data. Abstracts, International Legume Conference, Canberra, Australia. July 2001.
- Herendeen, P. S. 1999. Structural evolution in the Caesalpinioideae. International Botanical Congress, St. Louis, Missouri.
- Lupia, R., P. R. Crane and P. S. Herendeen. 1999. Late Cretaceous floras from the eastern USA and their implications for eudicot evolution. International Botanical Congress, St. Louis, Missouri.
- Lupia, R., P. S. Herendeen, S. Magallón-Puebla, P. R. Crane and J. Kobylinska. 1998. The Allon flora (Late Cretaceous, Georgia): diversity, abundance, and evolutionary implications. American Journal of Botany 85(6, Suppl.): 76-77.
- Skog, J. E. and P. S. Herendeen. 1997. New details of fossil *Gleichenia* from the Lower Cretaceous of England. Amer. J. Bot. 84(6, Suppl.): 167.
- Herendeen, P. S. 1997. Phylogenetic relationships among caesalpinoid Leguminosae: insights from morphology and anatomy. Amer. J. Bot. 84(6, Suppl.): 202.
- Herendeen, P. S. 1996. Angiosperm phylogenetic systematics: is there a role for wood anatomical data in cladistic analyses? IAWA Journal 17: 250-251.
- Herendeen, P. S., A. S. Konopka, G. L. Smith Merrill and P. R. Crane. 1996. Three-dimensionally preserved moss sporophytes and gametophytes from the Late Cretaceous. p. 41. in F. Corsetti and B. H. Tiffney (Eds.), Abstract volume: Fifth Conference of the International Organisation of Palaeobotany. Santa Barbara, California.
- Magallon Puebla, S., P. S. Herendeen, and P. R. Crane. 1996. Flowers of Platanaceae from Coniacian strata of Georgia, U.S.A., and the evolution of Platanaceae floral form. p. 62. in F. Corsetti and B. H. Tiffney (Eds.), Abstract volume: Fifth Conference of the International Organisation of Palaeobotany. Santa Barbara, California.
- Sims, H. J., P. S. Herendeen, and P. R. Crane. 1996. Fossil Fagaceae from the Cretaceous of North America. p. 90 in F. Corsetti and B. H. Tiffney (Eds.), Abstract volume: Fifth Conference of the International Organisation of Palaeobotany. Santa Barbara, California.
- Konopka, A. S., P. S. Herendeen, G. L. Smith Merrill, P. R. Crane. 1996. Three-dimensionally preserved moss sporophytes and gametophytes from the Late Cretaceous. Amer. J. Bot. 83 (6, suppl.): 12-13.
- Crane, P. R., P. S. Herendeen, and H. Sims. 1995. Fossil history of the Gnetales. Amer. J. Bot. 82 (6, suppl.): 11.
- Herendeen, P. S. and E. A. Wheeler. 1995. The utility and impact of fossil wood in phylogenetic analyses. Amer. J. Bot. 82 (6, suppl.): 81.

- Herendeen, P. S., J. A. Keller, and P. R. Crane. 1995. Fossil flowers and fruits of the Ericales sens. lat. from the Campanian (Late Cretaceous) of Georgia. *Amer. J. Bot.* 82 (6, suppl.): 134.
- Hoot, S. B., P. S. Herendeen, and P. R. Crane. 1995. Phylogenetic relationships and floral morphology in the family Circaeasteraceae (*Circaeaster* and *Kingdonia*). *Amer. J. Bot.* 82 (6, suppl.): 136.
- Lupia, R., P. S. Herendeen, and P. R. Crane. 1995. Late Cretaceous fossil flower (Georgia, USA) of possible myrtalean affinity: morphology and paleoecology. *Amer. J. Bot.* 82 (6, suppl.): 87-88.
- Magallon-Puebla, S., P. S. Herendeen, and P. R. Crane. 1995. Floral remains of Hamamelidaceae from Campanian strata of Georgia. *Amer. J. Bot.* 82 (6, suppl.): 88.
- Sims, H. J., P. S. Herendeen, and P. R. Crane. 1995. Normapolles fruits and floral structures from the Campanian of southeastern North America. *Amer. J. Bot.* 82 (6, suppl.): 91.
- Crane, P. R., P. S. Herendeen, and A. N. Drinnan. 1994. A new fossil flora from the Campanian (Upper Cretaceous) of central Georgia. *Amer. J. Bot.* 81(6, suppl.): 90-91.
- Herendeen, P. S. 1994. Phylogenetic relationships of the tribe Swartzieae (Leguminosae, Papilionoideae). *Amer. J. Bot.* 81(6, suppl.): 160.
- Herendeen, P. S., P. R. Crane, and A. N. Drinnan. 1994. Reproductive structures of probable fagaceous affinity from the Campanian (Upper Cretaceous) of Georgia. *Amer. J. Bot.* 81(6, suppl.): 93-94.
- Herendeen, P. S. and W. L. Crepet. 1993. Fossil reproductive structures of Lauraceae and Chloranthaceae from the Late Cretaceous of New Jersey. *Amer. J. Bot.* 80 (6, suppl.): 90.
- Wheeler, E. A. and P. S. Herendeen. 1993. Wood structure in extant archaic dicotyledons and the Cretaceous fossil record. *Amer. J. Bot.* 80 (6, suppl.): 127-128.
- Crane, P. R., S. H. Lidgard, and P. S. Herendeen. 1993. Palynological patterns in the Cretaceous diversification of angiosperms. Abstracts, XV International Botanical Congress, p. 31. Yokohama, Japan, 28 August-3 September, 1993.
- Herendeen, P. S. and W. L. Crepet. 1992. Paleobotanical and biogeographic history of the legumes (Leguminosae), an important component in Cenozoic and modern tropical terrestrial ecosystems. Fifth North American Paleontological Convention. *Paleont. Soc. Spec. Publ. No. 6*, p. 127.
- Herendeen, P. S. 1991. Patterns of evolution in the anatomy and structure of Cretaceous angiosperm woods. Contributions from the Paleontological Museum, University of Oslo, no. 364, pp. 33-34. Fifth Symposium on Mesozoic Terrestrial Ecosystems and Biota, Oslo, Norway. August, 1991.
- Crepet, W. L. and P. S. Herendeen. 1991. A preliminary survey of the Tertiary fossil record of legumes in North America. *Amer. J. Bot.* 78 (6, suppl.): 176.
- Herendeen, P. S. 1990. Fossil history of the Leguminosae. *Amer. J. Bot.* 77(6, suppl.): 87.
- Herendeen, P. S. and D. L. Dilcher. 1989. Fossil history of the Leguminosae: winged pods from the Tertiary of North America. *Amer. J. Bot.* 76(6, suppl.): 245.
- Dilcher, D. L., P. S. Herendeen, and F. Hueber. 1989. Fossil *Acacia* flowers with attached anther glands from Dominican Republic amber. *Amer. J. Bot.* 76(6, suppl.): 237.
- Herendeen, P. S. and D. H. Les. 1989. Fossil *Ceratophyllum* from the Tertiary of North America. *Amer. J. Bot.* 76(6, suppl.): 166.
- Herendeen, P. S. and D. L. Dilcher. 1988. Mimosoid legumes from the Eocene of southeastern North America. Poster presentation at the Third International Organization of Paleobotany Conference. Melbourne, Australia. August, 1988.

Herendeen, P. S. and D. L. Dilcher. 1988. Fossil leaves with affinities to the Dalbergieae (Papilionoideae-Leguminosae) from the Eocene of southeastern North America. *Amer. J. Bot.* 75(6, pt. 2): 179.

Herendeen, P. S. and D. L. Dilcher. 1988. A fossil legume pod with affinities to the Detarieae-Amherstieae (Caesalpinioideae) from the Eocene of southeastern North America. *Amer. J. Bot.* 75(6, pt. 2): 110.

Herendeen, P. S. and D. L. Dilcher. 1987. Fossil Leguminosae from the Eocene of western Kentucky: bipinnate leaves with affinities to the Ingeae. *Amer. J. Bot.* 74: 684.

Herendeen, P. S. and D. L. Dilcher. 1986. Fossil Leguminosae from western Kentucky and Tennessee. *Amer. J. Bot.* 73: 700.

Herendeen, P. S. 1985. The alvar communities of the Maxton Plains of Drummond Island, Michigan: present composition and past vegetation changes. *Amer. J. Bot.* 72: 855.

CONFERENCE PRESENTATIONS WITHOUT PUBLISHED ABSTRACTS:

Herendeen, P.S. 2015. Legume Morphology, an international symposium and workshop, Botucatu, Brazil, Morphology in phylogenetic analyses: some practical considerations, 2-5 November, 2015.

Herendeen, P.S. 2014. Fossil history and early diversification of the Leguminosae. Latin American Botanical Congress, Salvador, Brazil. October, 2014.

Herendeen, P.S., F. Herrera, P. R. Crane, M. Takahashi, A. Leslie, G. Shi and P. Knopf. 2014. Early Cretaceous Fossil Flora from Mongolia. Midcontinent Paleobotanical Colloquium, Pennsylvania State University, 31 May, 2014.

Bruneau, A., M. Babineau, M. Fougère-Danezan, E. Gagnon, V. Manzanilla, C. Sinou, E. Zimmerman, F. Javadi, M. de la Estrella, K.M. Redden, P.S. Herendeen, B.B. Klitgaard, B.A. Mackinder and G.P. Lewis. 2013. Relationships in Caesalpinoid legumes: towards a phylogenetic classification. Sixth International Legume Conference, Johannesburg, South Africa, 6-11 January, 2013.

Radosavljevic, A., B.A. Mackinder and P.S. Herendeen. 2013. Phylogeny, biogeography, and morphological evolution of *Cynometra* and *Maniltoa* (Leguminosae: Caesalpinioideae). Sixth International Legume Conference, Johannesburg, South Africa, 6-11 January, 2013.

Redden, K.M., B.B. Klitgaard, P.S. Herendeen and A. Bruneau. 2013. The bountiful and baffling Brownea clade (Leguminosae: Caesalpinioideae). Sixth International Legume Conference, Johannesburg, South Africa, 6-11 January, 2013.

Legume Phylogeny Working Group. 2013. Towards a new classification system for the Leguminosae: A draft proposal for discussion and improvement during 6ILC. Presented for LPWG by P. Herendeen, A. Bruneau, C. Hughes, R.T. Pennington and M.F. Wojciechowski. Sixth International Legume Conference, Johannesburg, South Africa, 6-11 January, 2013.

Legume Phylogeny Working Group. 2013. Towards a new classification system for the Leguminosae: Revisit, revise, move forward. Discussion co-chaired by P. Herendeen and G.P. Lewis. Sixth International Legume Conference, Johannesburg, South Africa, 6-11 January, 2013.

Herendeen, P. S., G. P. Lewis, and A. Bruneau. 2002. Floral morphology in caesalpinoid legumes: testing the monophyly of the “*Umtiza* clade.” *Flowers: diversity, development & evolution. Program & abstracts*, p. 23. Institute of Systematic Botany and Botanic Garden, University of Zurich, Switzerland.

Doyle, J. A., H. Eklund, and P. S. Herendeen. 2002. Phylogenetic analysis and floral evolution in Chloranthaceae. *Flowers: diversity, development & evolution. Program & abstracts*, p. 8. Institute of Systematic Botany and Botanic Garden, University of Zurich, Switzerland.

- Herendeen, P. S. 2001. Mesofossils from the Atlantic Coastal Plain. Midcontinent Paleobotanical Colloquium, George Washington University, 2 June, 2001.
- Magallón-Puebla, S., P. R. Crane and P. S. Herendeen. 1997. Diversity and diversification of eudicots. 44th Annual Systematics Symposium, Missouri Botanical Garden, St. Louis, MO. Abstract volume, pp. 7-9.
- Herendeen, P. S. and J. A. Keller. 1995. Coprolites from the Campanian of southeastern North America. Midcontinent Paleobotanical Colloquium, University of Pennsylvania. 12-13 May, 1995.
- Crane, P. R., Herendeen, P. S., and Lidgard, S. H. 1993. Paleolatitudinal floristic gradients (Cretaceous-Recent). Arcto-Tertiary 93. University of East London, 12-13 November, 1993.
- Herendeen, P. S. 1993. Anatomy and systematic relationships of early angiosperm wood. Midcontinent Paleobotanical Colloquium, Michigan State University, East Lansing, MI. May, 1993.
- Herendeen, P. S. 1992. The fossil record of the Leguminosae. Third International Legume Conference, Royal Botanic Gardens, Kew. July, 1992.
- Herendeen, P. S. 1992. Phylogenetic relationships and fossil record of the Swartzieae. Poster presentation at the Third International Legume Conference, Royal Botanic Gardens, Kew. July, 1992.
- Herendeen, P. S. 1990. Paleobotany and systematic relationships of the Swartzieae (Leguminosae, Papilionoideae). Midcontinent Paleobotanical Colloquium, Field Museum of Natural History. Chicago, IL. April, 1990.
- Herendeen, P. S. 1988. Fossil *Ceratophyllum* from the Eocene of North America. Midcontinent Paleobotanical Colloquium. University of Illinois, Urbana. June, 1988.
- Herendeen, P. S. 1987. Wind dispersal in the Leguminosae: evidence for the existence of this important dispersal system in the Leguminosae from the Eocene of western Kentucky and Tennessee. Midcontinent Paleobotanical Colloquium. Indiana University. May, 1987.
- Herendeen, P. S. and D. L. Dilcher. 1986. Fossil Leguminosae from western Kentucky and Tennessee. Poster presentation at the Second International Legume Conference, June 1986. Missouri Botanical Garden, St. Louis, MO.
- Herendeen, P. S. 1985. History of the alvar vegetation of Drummond Island, Michigan. Second Phytolith Workshop. Duluth, Minnesota, 27-28 April, 1985.
- Herendeen, P. S. 1985. Vegetation changes in the alvar communities of Drummond Island, Michigan. 89th Annual Meeting, Michigan Academy of Science, Arts and Letters. Michigan State University, East Lansing, MI. March, 1985.