

CURRICULUM VITAE *OCTOBER 21, 2008 *

KATHLEEN B. PIGG

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EDUCATION

The Ohio State University	Ph.D.	1988	Botany
Ohio University	M.S.	1982	Botany
Ohio University	B.S.	1980	Botany
Shawnee State College, Portsmouth, Ohio		1975-1977	

POSITIONS HELD

Professor, School of Life Sciences 2008 - present
Associate Professor, School of Life Sciences, Arizona State University 2002-2008
Associate Professor, Department of Plant Biology, Arizona State University 1994-2002
Assistant Professor, Department of Botany, Arizona State University 1988-1994
NSF-NATO Postdoctoral Fellow in Science, Department of Botany, University of Alberta, Edmonton, Canada 1989.

RESEARCH INTERESTS

Diversification and biogeography of Tertiary angiosperms and pteridophytes
Origin and early diversification of Northern Hemisphere temperate floras
Structure, ontogeny and phylogeny of isoetalean lycopods
History of botany and paleobotany
Evolution of Paleozoic and Mesozoic pteridosperms

EXTERNAL RESEARCH FUNDING

2007 **NSF Office of International Science and Engineering (OISE) EAPSI (East Asia and Pacific Region Summer Institutes) Program for JAPAN:** (Grant made to my PhD student John Benedict)

2004-8 **NSF Geology & Paleontology:** Silicified Paleocene plants from North Dakota: phylogenetic and biogeographic significance, (PI on ASU proposal is a Collaborative grant (separate grant lines and budgets to separate institutions) with M. DeVore at Georgia College & State University; 3 years, with one-year no-cost extension).

- 2000-2 **NSF Geology & Paleontology:** Anatomically preserved middle Miocene flora at Yakima Canyon, (PI, 1 year, with one-year no-cost extension, plus 1 year REU).
- 1993-4 **Petrified Forest Museum Association:** Proposal to study petrified leaf and seed remains from the Petrified Forest NP (PI, 2 years)
- 1993 **NSF-Systematic Biology:** Analysis of *Glossopteris* leaf structure and vegetative stem affinities (PI, 2 years, with plus 1 year REU)
- 1989-92 **NSF-Biological Research Resources:** Support for the Arizona State University Herbarium. (co-PI with L. R. Landrum, D. J. Pinkava, & T. H. Nash III, 3 years).
- 1989-91 **NSF-Systematic Biology:** The pattern of vascular cambium activity of Progymnospermophyta.. (Substitute PI for M. A. Cichan, 2 years).
- 1988-9 **NSF-NATO Postdoctoral Research Fellowship in Science:** Reproductive biology of aquatic dicots from the Middle Eocene Princeton Chert. Department of Botany, University of Alberta, Edmonton, Canada (1 year).
- 1987-8 **Geological Society of America Research Grant:** Anatomically preserved *Glossopteris* and *Dicroidium* from the Transantarctic Mountains, Antarctica
- 1984-8 **NSF Dissertation Improvement Award:** Studies of Anatomically Preserved Plants from Antarctica: *Glossopteris*, *Gangamopteris*, and *Dicroidium*.

EXTERNAL FUNDING FOR TRAVEL

- 1997 **American Fern Society:** Travel grant to Botanical Society of America for Quillwort Symposium
- 1994 **Ministry of Science, Japan:** Travel to Japan for participation in the Botanical Society of Japan Symposium: evolution of Seed Plants, and research at Chiba University,
- 1993 **Botanical Society of America:** Conant Travel Grant for XV International Botanical Congress, Yokohama, Japan, .
- 1990 **Smithsonian Institution Short Term Visitor Grant:** Phylogeny of the rhizomorphic lycophytes.
- 1987 **IBC-87 Young Botanist's Grant:** Travel to XII International Botanical Congress, Berlin, July, 1987.
- 1987 **NSF Travel Award, Botanical Society of America:** Travel to XIV International Botanical Congress, Berlin, July, 1987.

INTERNAL RESEARCH, TEACHING & TRAVEL FUNDING

- 2008 **SoLS Research Incentive Program:** Support for Paleobotany research and related outreach.
- 2007 **Visiting Scientist Funding:** Center for Biology and Society, School of Life Sciences, ASU, Funding for Melanie L. DeVore's sabbatical during Fall 2007, during which she was in residence at ASU
- 2003 **School of Life Sciences Travel Award:** For attendance at Geological Society of America meeting, Seattle, Washington, November 2003.
- 2002 **Research Incentive Awards Program Vice Provost for Research:** For NSF Proposal on Paleocene Almont Flora.

- 2001 **Travel of Research Investigators to Potential Sponsors (TRIPS):** For visit to NSF Geology & Paleontology to discuss proposals.
- 2000 **ASU CLAS Minigrant:** Combined morphological, fossil and molecular analysis of *Liquidambar* and related genera (Altingioideae, Hamamelidaceae).
- 1999 **ASU CLAS Faculty Grant-in-Aid:** Petrified Paleocene plant fossils from North Dakota: significance to angiosperm diversification.
- 1998 **ASU CLAS College Grant Award Program to Advance the Quality of Undergraduate Education:** Plant Evolution Illustrated: Improving Plant Biology Education by Interactive Computer- Assisted Learning.
- 1997 **ASU CLAS International Travel Award:** Miocene fossil floras of northwest US and central Europe: a collaborative project.
- 1996 **ASU CLAS Minigrant:** Petrified fossil plants and fungi from the Miocene of northwestern Nevada.
- 1994 **ASU Faculty Grant-in-Aid:** Study of petrified plants from the Miocene of central Washington state using the scanning confocal microscope..
- 1994 **ASU Research Incentive:** Miocene petrified fossil plants: paleogeography and evolutionary significance
- 1989 **ASU CLAS Minigrant:** Reconstructing petrified fossil plants from Illinois.
- 1989-90 **ASU Faculty Grant-In-Aid:** Anatomically preserved leaves from Antarctica: structure, function and affinities.
- 1987-8 **Ohio State University Graduate Student Alumni Research Association Award:** Anatomically preserved *Glossopteris* and *Dicroidium* from Antarctica.
- 1980 **Ohio University John Houk Memorial Research Grant** For work on Pennsylvanian lycopsids.

PUBLICATIONS IN PEER REVIEWED JOURNALS

Submitted:

DeVore, ML, and KB Pigg. Floristic composition and transitions of Middle Eocene and Oligocene floras in North America. In: Collinson, ME, KB Pigg, and ML DeVore. Northern Hemisphere Paleogene floras and global change events. Bulletin of Czech Geological Sciences, submitted October 07.

Pigg, KB, and ML DeVore. Floristic composition and transitions of Late Paleocene to Early Eocene floras in western North America. In: Collinson, ME, KB Pigg, and ML DeVore. Northern Hemisphere Paleogene floras and global change events. Bulletin of Czech Geological Sciences, submitted November 07.

In press:

Pigg, KB, ML DeVore and MF Wojciechowski *Paleosecuridaca curtisii* gen. et sp. nov., *Securidaca*-like samaras (Polygalaceae) from the Late Paleocene of North Dakota, USA and their significance to the divergence of families within the Fabales. International Journal of Plant Sciences 169 (9): in press.

Published:

- Manchester, SR, and KB Pigg. 2008. The mystery flower of McAbee, British Columbia. *Botany* (formerly *Canadian Journal of Botany*) 86: 1034-1038.
- Pigg, KB, SR Manchester, and ML DeVore. 2008. Fruits of Icacinaceae from the Late Paleocene of western North America. *American Journal of Botany* 95: 824-832.
- Benedict, JC, KB Pigg and ML DeVore. 2008. *Paleowilsonia boglei* gen. et sp. nov. (Hamamelidaceae) from the Late Paleocene Almont flora of central North Dakota, USA. *International Journal of Plant Sciences* 169: 687-700.
- DeVore ML and KB Pigg. 2007. A brief review of the fossil history of the family Rosaceae with a focus on the Eocene Okanogan Highlands of eastern Washington State, USA, and British Columbia, Canada. *Plant Systematics & Evolution* 266: 45-57.
- Ickert-Bond SM, KB Pigg, and J Wen. 2007. Comparative infructescence morphology in *Altingia* Noronha and discordance between morphological and molecular rates of evolution. *American Journal of Botany* 94: 1094-1115.
- Nishida H, KB Pigg, K Kudo, and JF Rigby. 2007. New evidence of reproductive organs of *Glossopteris* based on permineralized fossils from Queensland, Australia. I. Ovulate organ *Homevaleia* gen. nov. *Journal of Plant Research* 120: 539-549.
- Pigg KB, and ML DeVore. 2007. East meets West: the contrasting contributions of David L. Dilcher and Jack A. Wolfe to Eocene systematic paleobotany in North America, in D. M. Jarzen, G. Retallack, S. Jarzen and S. R. Manchester, eds. *Advances in Mesozoic and Cenozoic Paleobotany*, Courier Forschungsinstitut Senckenberg 258: 85-94.
- Pigg, KB, RM Dillhoff, ML DeVore, and WC Wehr. 2007. New diversity among the Trochodendraceae from the Early/Middle Eocene Okanogan Highlands of British Columbia, Canada and northeastern Washington State, USA *International Journal of Plant Sciences* 168: 521-532.
- DeVore ML, P Kenrick, KB Pigg, and RA Ketcham. 2006. Utility of high-resolution X-ray computed tomography (HRXCT) for paleobotanical studies: an example using London Clay fruits and seeds. *American Journal of Botany* 93: 1848-1851.
- Pigg KB, ML DeVore and WC Wehr. 2006. Filicalean ferns from the Tertiary of western North America: *Osmunda* L. (Osmundaceae: Pteridophyta), *Woodwardia* Sm. (Blechnaceae: Pteridophyta), and onocleoid ferns (Filicales: Pteridophyta). *Fern Gazette* 17: 279-286.
- Pigg KB, and H Nishida. 2006. The significance of silicified plant remains to the understanding of *Glossopteris*-bearing plants. *Journal of the Torrey Botanical Society* 143: 46-61.

- Taylor W, ML DeVore, and KB Pigg. 2006. *Susiea newsalemae*, gen. et sp. nov., (Nymphaeaceae): *Euryale*-like seeds from the Late Paleocene Almont flora, North Dakota, USA. *International Journal of Plant Sciences* 167: 1271-1278.
- Pigg, KB, and ML DeVore. 2005. *Paleoactaea* gen. nov. (Ranunculaceae) from the Paleogene of North Dakota and the London Clay. *American Journal of Botany* 92: 1650-1659.
- Ickert-Bond, SM, KB Pigg, and J Wen. 2005. Comparative infructescence morphology in *Liquidambar* L. (Altingiaceae) and its evolutionary significance. *American Journal of Botany* 92: 1234-1255.
- Pigg, KB, and ML DeVore. 2005. *Shirleya grahamae* gen. et sp. nov. (Lythraceae), *Lagerstroemia*-like fruits from the middle Miocene Yakima Canyon flora, central Washington state, USA. *American Journal of Botany* 92: 77-107. [
- Radtke, MG, KB Pigg, and WC Wehr. 2005. Fossil *Corylopsis* and *Fothergilla* leaves (Hamamelidaceae) from the lower-middle Eocene flora of Republic, Washington, USA and their evolutionary and biogeographic significance. *International Journal of Plant Sciences* 166: 347-356.
- DeVore, ML, KB Pigg, and WC Wehr. 2005. Systematics and phytogeography of selected Okanagan Highlands plants. *Canadian Journal of Earth Sciences* 42: 205-214.
- DeVore, ML, SM Moore, KB Pigg, and WC Wehr. 2004. Fossil *Neviusia* leaves (Rosaceae: Kerriaceae) from the lower-middle Eocene of southern British Columbia. *Rhodora* 106: 197-209.
- Manchester, SR, KB Pigg, and PR Crane. 2004 *Palaeocarpinus dakotaensis* sp. nov. (Betulaceae: Coryloideae) and associated staminate catkins, pollen and leaves from the Paleocene of North Dakota. *International Journal of Plant Sciences* 165: 1135-1148.
- Nishida, H, KB Pigg, K Kudo, and J Rigby. 2004. Zooidogamy of the late Permian *Glossopteris*. *Journal of Plant Research* 117: 323-328.
- Pigg, KB, SM Ickert-Bond, and J Wen. 2004. Anatomically preserved *Liquidambar* (Altingiaceae) from the middle Miocene of Yakima Canyon, Washington state, USA, and its biogeographic implications. *American Journal of Botany* 91: 499-509
- Pigg KB, SR Manchester, and WC Wehr. 2003. *Corylus*, *Carpinus* and *Palaeocarpinus* (Betulaceae) from the middle Eocene Klondike Mountain and Allenby Formations of northwestern North America. *International Journal of Plant Sciences* 164: 807-822.
- Nishida H, KB Pigg and JF Rigby. 2003. Swimming sperm in an extinct Gondwanan plant. *Nature* 422: 396-397.
- Pigg, KB 2001. Isoetalean lycopsid evolution: from the Devonian to the present. *American Fern Journal* 91: 99-114.

- Pigg, KB, and GW Rothwell. 2001. Anatomically preserved *Woodwardia virginica* (Blechnaceae) and a new filicalean fern from the middle Miocene Yakima Canyon flora of central Washington, USA. *American Journal of Botany* 88: 777-787.
- Pigg, KB, WC Wehr, and SM Ickert-Bond. 2001. *Trochodendron* and *Nordenskioldia* (Trochodendraceae) from the middle Eocene of Washington State, USA. *International Journal of Plant Sciences* 162: 1187-1198.
- Borgardt, SJ, and KB Pigg. 1999. Petrified acorns from the Miocene of North America and their significance to the evolution of *Quercus* L. (Fagaceae). *American Journal of Botany* 86: 307-325.
- Stockey, RA, BA LePage, and KB Pigg. 1998. Permineralized fruits of *Diplopanax* (Cornaceae, Mastixioideae) from the middle Eocene Princeton chert of British Columbia. *Review of Palaeobotany and Palynology* 103: 223-234.
- Pigg, KB, and S McLoughlin. 1997. Anatomically preserved *Glossopteris* leaves from the Bowen and Sydney Basins, Australia. *Review of Palaeobotany and Palynology* 97: 339-359.
- Chitaley, SD., and KB Pigg. 1996. *Clevelandodendron ohioensis*, gen. et sp. nov., a slender upright lycopod from the Late Devonian Cleveland Shale of Ohio. *American Journal of Botany* 83: 781-789.
- Pigg, KB, and ML Trivett. 1994. Evolution of the glossopterid gymnosperms from Permian Gondwana. *Journal of Plant Research* 107: 461-477.
- Stockey, RA, and KB Pigg. 1994. Vegetative growth of *Eorhiza arnoldii* Robison and Person from the Middle Eocene Princeton chert locality of British Columbia. *International Journal of Plant Sciences* 155: 606-616.
- Pigg, KB, RA Stockey, and SL Maxwell. 1993. *Paleomyrtinaea princetonensis* gen. et sp. nov., permineralized myrtaceous fruits and seeds from the Princeton chert and related Myrtaceae from Almont, North Dakota. *Canadian Journal of Botany* 71: 1-9.
- Pigg, KB, and TN Taylor. 1993. Anatomically preserved *Glossopteris* stems with attached leaves from the central Transantarctic Mountains, Antarctica. *American Journal of Botany* 80: 500-516.
- Tidwell, WD, and KB Pigg. 1993. New species of *Osmundacaulis* emend. from Tasmania, Australia. *Palaeontographica* (Festband Schweitzer, 1. Teil) 230B: 141-158.
- Pigg, KB 1992. Evolution of isoetalean lycopsids. *Annals of the Missouri Botanical Garden* 79: 589-612.

- Ash, S, and KB Pigg. 1991. A new Jurassic *Isoetites* (Isoetales) from the Wallowa Terrane in Hells Canyon Oregon and Idaho. *American Journal of Botany* 78: 1636-1642.
- Cevallos-Ferriz, SRS, RA Stockey, and KB Pigg. 1991. The Princeton chert: Evidence for *in situ* aquatic plants. *Review of Palaeobotany and Palynology* 70: 173-185.
- Pigg, KB, and RA Stockey. 1991. Platanaceous plants from the Paleocene of Alberta, Canada. *Review of Palaeobotany and Palynology* 70: 125-146.
- Stockey, RA, and KB Pigg. 1991. Flowers and fruits of *Princetonia allenbyensis* (Magnoliopsida fam. indet.) from the Middle Eocene of British Columbia. *Review of Palaeobotany and Palynology* 70: 163-172.
- Pigg, KB 1990. Anatomically preserved *Glossopteris* foliage from the central Transantarctic Mountains. *Review of Palaeobotany and Palynology* 66: 105-127.
- Pigg, KB 1990. Anatomically preserved *Dicroidium* foliage from the central Transantarctic Mountains. *Review of Palaeobotany and Palynology* 66: 129-145.
- Pigg, KB, TN Taylor, and RA Stockey. 1987. Studies of Paleozoic seed ferns: *Heterangium kentuckyensis* sp. nov., from the Upper Carboniferous of North America. *American Journal of Botany* 74: 1184-1204.
- Pigg, KB, RA Stockey, and TN Taylor. 1986. Studies of Paleozoic seed ferns: Additional studies of *Microspermopteris aphyllum* Baxter. *Botanical Gazette* 147: 126-136.
- Pigg, KB, and GW Rothwell. 1985. Cortical development in *Chaloneria cormosa* (Isoetales), and the biological derivation of compressed lycophyte decortication taxa. *Palaeontology* 28: 545-553.
- Pigg, KB, and TN Taylor. 1985. *Cormophyton* gen. nov., a cormose lycopod from the Mazon Creek flora. *Review of Palaeobotany and Palynology* 44: 165-181.
- Pigg, KB 1983. The morphology and reproductive biology of the sigillarian cone *Mazocarpon*. *Botanical Gazette* 144: 600-613.
- Pigg, KB, and GW Rothwell. 1983a. *Chaloneria*, gen. nov., heterosporous lycophytes from the Pennsylvanian of North America. *Botanical Gazette* 144: 132-147.
- Pigg, KB, and GW Rothwell. 1983b. Megagametophyte development in the Chaloneriaceae fam. nov., permineralized Paleozoic Isoetales (Lycopsidea). *Botanical Gazette* 144: 295-302.
- Pigg, KB, and GW Rothwell. 1979. Stem-root transition of an Upper Pennsylvanian woody lycopsid. *American Journal of Botany* 66: 914-924.

REFEREED BOOK CHAPTERS AND DICTIONARY ENTRIES

2007

Pigg, KB Katherine Esau. in New Dictionary of Scientific Biography, N. Koertge ed. vol 2: 413-416, MacMillan, New York.

1996

Trivett, ML, and KB Pigg. A survey of reticulate venation among fossil and living land plants. in: D. W. Taylor and L. J. Hickey, [eds.]. Flowering plant origin, evolution and phylogeny. Chapman and Hall, New York. p. 8-31.

1990

Pigg, KB, and TN Taylor. Permineralized *Glossopteris* and *Dicroidium* from Antarctica. in: T. N. Taylor and E. L. Taylor., [eds.] Antarctic paleobiology and its role in the reconstruction of Gondwana. Springer-Verlag, p. 164-172.

COMMENTARY, TECHNICAL REPORTS, AND NON-REFEREED PAPERS

2005

Archibald, SB, KB Pigg, DR Greenwood, SR Manchester, L Barksdale, KR Johnson, M Sternberg, RA Stockey, ML DeVore and GW Rothwell. Wes Wehr dedication. Canadian Journal of Earth Sciences 42: 115-117.

2002

Pigg, KB, and WC Wehr. Tertiary flowers, fruits and seeds of Washington State and adjacent areas--Part III. Washington Geology 30: 3-20.

DeVore, ML, and KB Pigg. Paleobotany. Highlights Issue. Geotimes.

2000

Pigg, KB Paleobotany. Highlights Issue. Geotimes 45: 36-37.

1999

Pigg, KB Paleobotany. Highlights Issue. Geotimes 44: 43-45.

1996

Pigg, KB, and RA Stockey. The significance of the Princeton chert permineralized flora to the Middle Eocene upland biota of the Okanogan Highlands. Washington Geology 24: 32-36.

1995

Pigg, KB, WC Davis and SR Ash. Anatomically preserved plant reproductive structures from the Upper Triassic Chinle Formation in Petrified Forest National Park, Arizona. In: V. L. Santucci and L. McClelland, [eds.], National Park Service Paleontological Research, Technical Report NSP/NRPO/NRTR-95/16, Natural Resources Publication Office, Denver. p.106-108.

1993

Pigg, KB Triassic fossil plants of Arizona. In: Boas, D., and M. Dornan, eds. Proceedings of the First Annual Symposium Fossils of Arizona. Mesa Southwest Museum and Southwest Paleontological Society, Mesa, Arizona. p. 8-13.

Pigg, KB, SR Ash, and WC Davis. A new permineralized Upper Triassic flora from Petrified Forest National Park, Arizona: a preliminary report. In: Lucas, S. G., and M. Morales, eds. The Nonmarine Triassic. New Mexico Museum of Natural History & Science Bulletin No. 3, Albuquerque. p. 411-413.

Tegowski, BJ, and KB Pigg. Fossil investigations from the Middle Miocene Anderson Mine Locality, Yavapai County, Arizona. In: Boas, D., and M. Dornan, eds. Proceedings of the First Annual Symposium Fossils of Arizona. Mesa Southwest Museum and Southwest Paleontological Society, Mesa, Arizona p. 86-91.

1987

Pigg, KB, and TN Taylor. Anatomically preserved *Glossopteris* from Antarctica. VII Simposio Argentino de Palaeobotanica y Palinologica Actas, Buenos Aires: 177-180.

Pigg, KB, and TN Taylor. Anatomically preserved *Dicroidium* from the Transantarctic Mountains. Antarctic Journal of the United States (1987 Review) 22: 28-29.

1985

Pigg, KB, and TN Taylor. Anatomically preserved *Glossopteris* from the Beardmore Glacier area of Antarctica. Antarctic Journal of the United States 19: 8-10.

INVITED SYMPOSIUM PARTICIPATION

2008

Dillhoff, RM, TA Dillhoff and KB Pigg. Middle Eocene lacustrine shale floras of the Allenby Formation near Princeton, British Columbia, Canada. Symposium: World wide early and middle Eocene floras--the evolving picture, RM Dillhoff and SR Manchester, conveners; 8th International Organisation of Palaeobotany Conference, Bonn, Aug-Sept 2008.

Farabee, MJ, KB Pigg, R Zetter and ML DeVore. Pollen character changes in selected angiosperm taxa across the K/T Boundary and into the Paleogene in the Western Interior Basin, North America. Colloquium: The Utility of Pollen in Systematic and Morphological Studies: A Celebration of the Life of John J. Skvarla, ML DeVore and VA Funk, conveners, Botany 2008, Vancouver, BC, July 2008.

2007

Pigg, KB, TA Dillhoff, and ML DeVore. Paleoenvironment of a newly discovered Middle Miocene "bog" locality, Columbia River Basalts, near Ellensburg, WA: a preliminary report. Quaternary and Tertiary Records of Past Environments, Pacific Northwest II: In Honor of Calvin Heusser (organized by E. B. Leopold and R. Mathewes), Geological Society of America, Cordillaran Section, Bellingham, WA, May, 2007.

2006

DeVore, ML, KB Pigg, and RM Dillhoff. Eocene-Oligocene floristic transitions in North America: contrasts between eastern and western floras. Symposium: Palaeogene floras and global change events (organized by M. Collinson, K. Pigg and M. DeVore). 7th European Paleobotany-Palynology Conference, 7-11 September, Prague.

Pigg, KB, and ML DeVore East meets West: the contrasting contributions of David L. Dilcher and Jack A. Wolfe to Eocene systematic paleobotany in North America. Advances in Paleobotany--recognizing the contributions of David L. Dilcher and Jack A. Wolfe on the occasion of their 70th birthday. S. R. Manchester, R. Spicer, H. Wang, D. Jarzen, and T. Lott, conveners. Paramount Plaza Hotel, Florida Museum of Natural History, Gainesville.

Pigg, KB, SR Manchester, and ML DeVore. Floristic changes associated with the Paleocene-Eocene transition in western North America and their European connections. Palaeogene floras and global change events (organized by M. Collinson, K. Pigg and M. DeVore). 7th European Paleobotany-Palynology Conference, 7-11 September, Prague.

2005

Pigg, KB, and ML DeVore. Late Paleocene floras of North Dakota, USA: New sites and new insights. (Keynote address: Neogene floras), XVII International Botanical Congress, Vienna, Austria, July 18-23, 2005.

2004

Pigg, KB, and H Nishida. The significance of silicified plant remains to the understanding of *Glossopteris*-bearing plants. A century of seed ferns: A symposium to celebrate paradigm shifts in the understanding of seed plant evolution. Michael T. Dunn and Gar W. Rothwell, conveners. Botany 2004, Snowbird Utah, Abstracts.

2003

Pigg, KB, WC Wehr, ML DeVore. Systematics and phytogeography of selected Okanogan Highlands plants. Symposium: The Eocene Okanogan Highlands (British Columbia/Washington State): Paleoclimate and evolutionary response. Geological Association of Canada, Vancouver 2003, Abstracts.

1999

Pigg, KB Isoetalean lycopsid evolution. (Symposium: Evolution and diversification of the lycopods, W. Carl Taylor, N. Wikstrom and Lea Grauvogel-Stamm, organizers) Abstracts, XVI International Botanical Congress, St. Louis, p. 120.

1997

Pigg., KB The fossil record of *Isoetes*-like plants. American Journal of Botany 84 (Supplement-Abstracts): 162. Symposium: Changing perceptions on quillwort. W. C. Taylor and J. R. Hickey, organizers. American Fern Society and Botanical Society of America, Montreal.

1996

Borgardt, SJ, and KB Pigg. Petrified acorns from the Miocene of North America and their significance to the evolution of *Quercus* L. (Fagaceae) Symposium: Evolution of angiosperms from the perspective of fossil reproductive organs, R. A. Stockey and E. M. Friis, organizers. International Organization of Paleobotany Conference V, Santa Barbara, Abstracts: 11.

1994

Pigg, KB Recent knowledge of reproductive organs of *Glossopteris*. Symposium: Evolution of seed plants, H. Nishida, organizer. Botanical Society of Japan, Sapporo, Japan.

Pigg, KB, WC Davis and S Ash. Anatomically preserved plant reproductive structures from the Upper Triassic Chinle Formation in Petrified Forest National Park, Arizona. Symposium on National Park Service Paleontological Research, Geological Society of America, Rocky Mountain Section, Durango, Colorado, May 1994.

1993

Pigg, KB, SR Ash, and WC Davis. A new permineralized Upper Triassic flora from Petrified Forest National Park, Arizona: a preliminary report. Nonmarine Triassic Symposium, New Mexico Museum of Natural History, Albuquerque, October, 1993

Pigg, KB, and ML Trivett. Evolution of the glossopterid gymnosperms from Permian Gondwana. Symposium: evolution of the pteridophytes and gymnosperms. XV International Botanical Congress, Yokohama. September, 1993.

Trivett, ML, and KB Pigg. Morphology and leaf architecture of glossopterids and other reticulate gymnosperm leaves. Symposium: Angiosperm origin, early evolution and phylogeny. AIBS, Botanical Society of America, Ames, Iowa, August, 1993

1989

Pigg, KB Evolution of isoetalean lycopsids. Symposium: The Lycopods. Cosponsored by Pteridological and Paleobotanical Sections, American Journal of Botany (Supplement) 767: 198.

Pigg, KB, and RA Stockey. Platanaceous plants from the Late Paleocene of Alberta, Canada. Paleobotany in Canada: Status and Prospects, National Museum of Natural Sciences, Ottawa, Ontario, Canada.

Stockey, RA, and KB Pigg. Flowers and fruits of *Princetonia allenbyensis* from the Middle Eocene Princeton chert of British Columbia. Paleobotany in Canada, Status and Prospects, National Museum of Natural Sciences, Ottawa, Ontario, Canada.

1988

Pigg, KB Workshop on Antarctic paleobotany and its relationship to reconstructions of Gondwana. Byrd Polar Research Center, The Ohio State University.

1987

Pigg, KB Structurally preserved Gondwana plants: *Glossopteris* and *Dicroidium*. IBC-87, XIV International Botanical Congress, Berlin. Abstracts, 5-32-44, p. 287. Session on Gondwana paleobotany. XIV International Botanical Congress, Berlin

RECENT INVITED TALKS, SEMINARS, AND PANELS

2008 (April). Trochodendraceae, Hamamelidaceae, Betulaceae, or... my adventures with Republic fossils. Stonerose Interpretive Center 20th Anniversary Celebration, Republic Washington.

2008 (February) ASU SoLS Seminar Series, "Science Studio" Interview with Quentin D. Wheeler.

2007 (January) ASU SoLS, Biology and Society Class, Panel on research activities, Jane Maienschein, Ann Kinzig, Instructors.

2006 (November) ASU SoLS, Philosophy of Biology Class, Lab openhouse on fossils, systematics and epistemology, Andrew Hamilton, Instructor

(April) Ohio University, Department of Environmental and Plant Biology, Athens, Ohio, Departmental Seminar, "Tales from the Tertiary".

2003-6 (November) ASU SoLS, Flora of Arizona Class, Guest Lecture on fossil history of Arizona flora, Martin F. Wojciechowski, Instructor

(April) ASU Department of Geological Sciences, Paleontology Class, Guest lecture on the plant fossil record, Jack A. Farmer, Instructor

2004 (October) Georgia College & State University, Department of Biological and Environmental Science, Vascular Plant Morphology Class, Guest Lecture, Melanie L. DeVore, Instructor

2003 (Fall) Department of Plant Biology, Arizona State University, Departmental Seminar

ABSTRACTS OF PRESENTED PAPERS AND POSTERS

2008

Amason, C., ML DeVore, K Manoylov and KB Pigg. Infusing Flanner' O'Connor with environmental and plant sciences. Botany 2008, Vancouver, BC, July 2008.

Benedict, JC, ML DeVore, and KB Pigg. Rosaceous flowers resembling *Prunus* from the Eocene Republic flora of eastern Washington State, USA. Botany 2008, Vancouver, BC, July 2008.

Taylor, W., KB Pigg, and ML DeVore Aquatic plants from the Eocene Republic locality, eastern Washington State, USA. Botany 2008, Vancouver, BC, July 2008.

DeVore, ML, KB Pigg, JC Benedict and W Taylor. Recent contributions to the flora of the Okanogan Highlands, eastern Washington State. 25th Midcontinent Paleobotanical Colloquium, Mobile. Abstract.

DeVore, ML, and KB Pigg. Aquatic plants of the Eocene Republic, Washington flora and their significance to interpreting ancient lacustrine environments. Geological Society of America (Houston, October 2008).

Pigg, KB, and ML DeVore. Late Paleocene Lagerstätten: What can they tell us about systematics? Geological Society of America (Houston, October 2008).

Wilkins, ND, KB Pigg and JD Farmer. Bennettitaleans (cycadeoids) of the Early Jurassic Navajo Sandstone. Geological Society of America (Houston, October 2008).

2007

- Benedict, JC, W Taylor, KB Pigg, and ML DeVore. Late Paleocene seeds from Beicegel Creek (McKenzie County, North Dakota, USA) with affinities to the genus *Spirematospermum* Chandler (Zingiberales). Botany 2007 (Chicago, July 2007): Abstract
- DeVore, ML, KB Pigg. The value of fossils for tracking a family's spatial history: an underrated tool? Botany 2007 (Chicago, July 2007): Abstract.
- Matthews, T, KB Pigg, ML DeVore, and J Rhode. Anatomically preserved *Isoetes* from the Paleocene of North Dakota: utility in ascertaining paleohabitat. Geological Society of America, Southeast Section.
- Pigg, KB, ML DeVore, MJ Farabee, and R. Zetter. Pollen and spore assemblage from the Late Paleocene Almont Lagerstätten. Geological Society of America (Denver, October 2007): Abstract.
- Pigg, KB, MJ Farabee, R Zetter, M. DeVore, SR Manchester and M Nowak. Studies of the pollen and spore assemblage of the Late Paleocene Almont flora of central North Dakota, USA. Botany 2007 (Chicago, July 2007): Abstract
- Taylor W, KB Pigg, JC Benedict, and MJ Farabee. Juglandaceous pollen in the Late Paleocene and its relationship to *Cyclocarya*. Botany 2007 (Chicago, July 2007): Abstract..
- Taylor, WT, KB Pigg, ML DeVore, and D Freile. Late Paleocene Almont and Beicegel Creek: floristic comparisons are related to depositional environments. Geological Society of America, Southeast Section.
- Wilkins, ND, ML DeVore, E Barman, and KB Pigg. Anatomically preserved caterpillar coprolites from the Middle Miocene Yakima Canyon flora of central Washington State, USA. Geological Society of America (Denver, October 2007): Abstract.
- Wilkins, ND, JD Farmer, and KB Pigg. Paleocology of Jurassic Navajo Sandstone interdune environments: an integrated view based on sedimentology, geochemistry, and paleontology. Geological Society of America (Denver, October 2007): Abstract.

2006

- Benedict, JC, KB Pigg, and ML DeVore. *Hamamelis*-like fruits (Hamamelidaceae) from the Late Paleocene Almont flora of North Dakota, USA. Botany 2005, Austin, Aug.
- Benedict, JC, KB Pigg and ML DeVore. Triloculate fruits from the Late Paleocene Kate's Butte site at Beicegel Creek (McKenzie County, North Dakota, USA) with possible affinities to *Spirematospermum* Chandler (Zingiberales). 23rd Midcontinent Paleobotanical Colloquium, Gainesville. Abstract.
- Kittle, A, M DeVore, and K Pigg. A new Paleocene flora from western North Dakota. 23rd Midcontinent Paleobotanical Colloquium, Gainesville. Abstract.
- Matthews, T, ML DeVore and K Pigg. Paleocene pteridophytes from the siliceous shales of western North Dakota. 23rd Midcontinent Paleobotanical Colloquium, Gainesville. Abstract.
- Pigg, KB, ML DeVore, RA Ketcham, and P Kenrick. Value of HRXCT for systematic studies of pyritized fossil fruits. Geological Society of America, Abstracts.

- Pigg, KB, RM Dillhoff, and ML DeVore. New diversity among the Trochodendraceae from the Early Eocene McAbee and Early/Middle One Mile Creek floras, Okanogan Highlands of British Columbia, Canada. Botany 2006: Abstract.
- Taylor, W, KB Pigg, and JA Farmer. Silicified Pleistocene monocots from Clearlake, California, and their value to understanding ancient hydrothermal springs. 23rd Midcontinent Paleobotanical Colloquium, Gainesville. Abstract.

2005

- Brewer, MA, ML DeVore, and KB Pigg. *Ochna*-like fruit from the Paleocene of North Dakota. Georgia Academy of Sciences. Abstracts.
- DeVore, ML, P Kenrick, KB Pigg, and RA Ketcham. CT-scanning the London Clay: an excellent noninvasive technique for studying pyritized fossil fruits. Botany 2005, Austin, Aug, 2005.
- DeVore, ML, and KB Pigg. Rosaceous evolution in the Okanogan Highlands, Washington, USA and British Columbia, Canada. XVII International Botanical Congress, Vienna, Austria, July 18-23, 2005 (poster).
- DeVore, M, K Pigg, P Kenrick, and RA Ketcham. CT-Scanning the London Clay Flora: A noninvasive technique for revealing the 3-dimensional organization of tissues in pyritized fruits and seeds. GSA Abstracts with Programs Vol. 37, No. 7.
- DeVore, ML, P Kenrick, KB Pigg, and RA Ketcham. CT-scanning the London Clay: a noninvasive technique for studying pyritized fossil fruits. Linnean Society of London, Palaeobotanical Specialist Group "New discoveries in old collections", October 26th, Linnean Society, Burlington House, London. Abstracts.
- Kittle, A., ML DeVore, B Wall, and K Pigg. *Acer* fruits from the Paleocene of North Dakota. Georgia Academy of Sciences Abstracts.
- Kittle, A, D Freile, M DeVore and K Pigg. Fossil floras from the Sentinel Butte formation of North Dakota: a new compression flora and new insights into modes of plant preservation. GSA Abstracts with Programs Vol. 37, No. 7 (Poster).
- Pigg, KB, ML DeVore, and MA Brewer. Late Paleocene fruits similar to *Ochna* (Ochnaceae) from the Almont/Beicegel Creek floras, North Dakota, USA. Botany 2005, Austin, Aug. 2005.
- Taylor, W, ML DeVore, and KB Pigg. Nymphaeaceous seeds from the Late Paleocene Almont flora of North Dakota, USA. Botany 2005, Austin, Aug. 2005
- Tcherepova, MA, and KB Pigg. Vitaceae: fossil seeds and wood from the Middle Miocene of Yakima Canyon, Washington, USA. Botany 2005, Austin, Aug. 2005.
- Tcherepova, M, and KB Pigg. Yakima Canyon permineralized plants: a lens into the Miocene. XVII International Botanical Congress, Vienna, Austria, July 18-23, 2005. (poster)
- Wilkins, ND, JD Farmer, and K Pigg. Exceptional paleobotanical remains preserved in Navajo Sandstone Interdune deposits near Moab, Utah. GSA Abstracts with Programs Vol. 37, No. 7.

2004

- DeVore, ML, and KB Pigg. Building a link between undergraduate research and graduate school. Geological Society of America Abstracts. Paper No. 179-14
- DeVore, ML, KB Pigg, and W Taylor. Sapindalean fruits from the Middle Miocene Yakima Canyon flora of central Washington State, U. S. A. Botany 2004 Abstracts.
- DeVore, ML, AL Sullivan, and KB Pigg. Monocots from the Late Paleocene of North Dakota, U.S.A. Botany 2004. Abstracts.
- Ickert-Bond, SM, J Wen, and KB Pigg. Resolving phylogeny within the family Altingiaceae: implications from anatomy of infructescences and molecular data sets. Botany 2004. Abstracts.
- Nishida, H., KB Pigg, K Kudo, and JF Rigby. Zooidogamy of the late Permian *Glossopteris* from Queensland, Australia. International Organization of Paleobotany Conference Abstracts.
- Pigg, KB, ML DeVore and WC Wehr. Tertiary ferns from western North America: *Osmunda*, *Woodwardia* and onocleoids. International Pteridophyte Symposium Abstracts, Edinburgh, July 2004
- Pigg, KB, MF Wojciechowski, and ML DeVore. Samaras from the Late Paleocene Almont and Beicegel Creek floras of North Dakota, U.S.A., with potential affinities to *Securidaca* (Polygalaceae). Botany 2004. Abstracts.

2003

- Creekmore, RM, ML DeVore, and KB Pigg. Fossil fruits of the Ebenales from the middle Miocene Yakima Canyon flora of central Washington, USA. Georgia Academy of Science, Abstracts.
- DeVore, ML, KB Pigg, and SR Manchester. Late Paleocene plants from North Dakota: new localities and insights from the Almont flora. Geological Society of America, Abstracts. Paper 240-5.
- Freile, D, T Midkiff, M DeVore, and K Pigg. Petrographic thin section and geochemical analysis of fossil plant material and associated sediments from the Oligocene Catahoula FM, east Texas, South-Central Section (37th) and Southeastern Section (52nd), Geological Society of America Joint Annual Meeting (March 12-14, 2003) Memphis, Tennessee.
- Howell, PE, ML DeVore, EH Barman, and KB Pigg. Insect-plant interactions from the Miocene of Washington: permineralized lepidopteran coprolites. Georgia Academy of Science, Abstracts.
- Pigg, KB, and ML DeVore. Paleocene fruits with affinities to Actinidiaceae from the Almont and Beicegel Creek floras of North Dakota. Botany 2003- Abstracts.
- Pigg, KB, WC Wehr, and ML DeVore. Systematics and phytogeography of selected Okanogan Highlands plants. Geological Association of Canada, Abstracts.
- Wells, S, ML DeVore, and KB Pigg. Platanaceous remains from the middle Miocene of North America. Georgia Academy of Science, Abstracts.

2002

- Coleman, AL, and KB Pigg. Taxodiaceous conifers from the middle Miocene Yakima Canyon flora, Washington State, USA. Arizona/Nevada Academy of Science, Abstracts.

- DeVore, ML, SM Moore, and KB, Pigg. Fossil fruits resembling crepe myrtle (*Lagerstroemia*) from the middle Miocene Yakima Canyon of Washington. Georgia Academy of Science Abstracts.
- DeVore, ML, KB Pigg, and E. Barman. Plant-animal interactions from the Miocene: evidence from a permineralized flora. Geological Society of America, Denver. Annual Meeting Abstract. Paper 46-8.
- DeVore, ML, KB Pigg, AM Westbrook and E Barman. Gallings cynipids, larval traces, and fungal infestations from the Miocene of Washington. Botany 2002, Abstract
- Gensel, PG, and KB Pigg. Reconstruction of the *Lepidodendropsis/ Protostigmaria* plant from the Mississippian Price Formation of Virginia, USA. Botany 2002, Abstract.
- Ickert-Bond, SM, KB Pigg and J Wen. Evolution and biogeographical diversification of Altingiaceae: integrating evidence from fossil reproductive structures and extant relatives. Flowers symposium: Diversity development and evolution. Institute of Systematic Botany, The University of Zürich, Switzerland. Program and Abstract, p. 65.
- Moore, SM, ML DeVore, KB Pigg and WC Wehr. Fossil *Neviusia* (Rosaceae) from the middle Eocene of Princeton, BC, Canada. Georgia Academy of Science, Abstract.
- Pigg, KB, ML DeVore, and M Tcherepova. Late Paleocene permineralized foliicle from Almont, North Dakota with potential ranunculoid affinities. Botany 2002 Abstract
- Pigg, KB, EA Wheeler, M Tcherepova, and WC Wehr. Plants of the Middle Miocene Columbia River Basalts in central Washington State: the permineralized "bog" flora and petrified woods from Yakima Canyon and Ginkgo Petrified Forest. Geological Society of America, Cordilleran Section, Corvallis, Oregon, Abstract
- Tcherepova, M, KB Pigg and AL Coleman. Middle Miocene Yakima Canyon permineralized flora of central Washington State, USA. VI European Paleobotany-Palynology Conference, Athens, Greece.
- Westbrook, AM, ML DeVore, EH Barman, and KB Pigg Permineralized acorns from the Miocene of Washington: insect and fungal associations. Georgia Academy of Science Abstracts.

2001

- DeVore, ML, KB Pigg, and SJ Mouton. Permineralized fruit with malvacean affinities from the Late Paleocene Almont flora, North Dakota. Botany 2001 Abstracts: 62-63.
- Hansen, A, and KB Pigg. Taxodiaceous conifers from the middle Miocene Yakima Canyon flora, Washington State, USA. Botany 2001 Abstracts: 71.
- Henry, AM, and KB Pigg. Hamamelidaceous infructescences from the Late Paleocene Almont, North Dakota flora. Botany 2001 Abstracts: 72.
- Pigg, KB. The role of permineralized plants in understanding plant diversity, phylogeny, and paleoenvironment: the Miocene Yakima Canyon chert. NAPC (Abstracts).
- Pigg, KB, ML DeVore, DL Dilcher, and D Freile. Fagaceous infructescences from the Oligocene Catahoula Formation of Texas. Botany 2001 Abstracts: 68.
- Radke, MG, KB Pigg, and WC Wehr. Fossil *Corylopsis* and other Hamamelidaceae-like leaves from the middle Eocene flora of Republic, Washington, U.S.A. Botany 2001 Abstracts: 72.
- Tcherepova, M, and KB Pigg Permineralized *Nyssa* (Cornaceae) and additional endocarps of uncertain affinity from the middle Miocene Yakima Canyon flora, Washington State, USA. Botany 2001 Abstracts (poster): 72.

2000

Crimmins, C, SM Ickert-Bond, and KB Pigg. Crucifixion thorns: Convergent desert adaptation of three unrelated genera. Arizona-Nevada Academy of Science, Abstracts.

Pigg, KB, and M Tcherepova. Taxonomic, phytogeographic and ecological significance of the Yakima Canyon flora (middle Miocene, Washington state, USA). Botanical Society of America.

Pigg, KB, and WC Wehr. *Trochodendron* (Trochodendraceae) from the early middle Eocene Republic Flora, Washington, USA. Botanical Society of America.

1999

Freile, D, ML DeVore and KB Pigg. A preliminary study of the sedimentology, stratigraphy and taphonomy of the Catahoula Formation (Oligocene, Texas, USA) . Abstracts, XVI International Botanical Congress, St. Louis. p. 450.

1998

Pigg, KB and SR Manchester. Silicified heptalocular fruits from the middle Miocene Yakima Canyon flora, central Washington state. American Journal of Botany 85: 79.

1997

Bertram, KA, KB Pigg, HE Schorn, and D Erwin. Middle Miocene flora from the Virgin Valley, northwestern Nevada, USA. American Journal of Botany 84 (Supplement--Abstracts): 129.

Ickert-Bond, SM, and KB Pigg *Pinus krempfii*. American Journal of Botany 84 (Supplement---Abstracts).

Pigg, KB Anatomically preserved fruits of *Liquidambar* from the Miocene of Washington state, USA. Arizona/Nevada Academy of Science Abstracts.

Pigg, KB Anatomically preserved *Liquidambar*-like infructescences (Hamamelidaceae) from the middle Miocene Yakima Canyon flora of Washington, USA. American Journal of Botany 84 (Supplement--Abstracts): 140.

Stockey, RA, BA LePage and KB Pigg. Permineralized fruits of Cornaceae (Mastixioideae) from the Middle Eocene Princeton chert of British Columbia. American Journal of Botany 84 (Supplement-- Abstracts): 142.

1996

Arnone, EA, GW Rothwell, and KB Pigg. Anatomically preserved Miocene ferns from the Yakima Canyon in central Washington state. NAPC-96, Washington, DC, June 1996 (poster).

Bertram, KA, KB Pigg, DM Erwin, and HE Schorn. Petrified Miocene biota from Virgin Valley, Nevada, USA. International Organization of Paleobotany Conference V, Santa Barbara, Abstracts (poster): 10.

Ickert-Bond, SM and KB Pigg. Reinvestigation of *Pinus krempfii* Lecomte: an endemic pine from Vietnam. International Organization of Paleobotany Conference V, Santa Barbara, Abstracts 48.

Pigg, KB, J Sophy, and WC Wehr. Petrified Miocene flora from Yakima Canyon, Washington, USA. International Organization of Paleobotany Conference V, Santa Barbara, Abstracts: 80 (poster).

Rothwell, GW, EA Arnone, and KB Pigg. Miocene ferns from Central Washington State: anatomy and systematics. *American Journal of Botany* 83: (Supplement--Abstracts): 131.

1994

Pigg, KB Anatomically preserved Miocene plants from Yakima Canyon, Washington. *American Journal of Botany* 81 (supplement 6): 100.

Pigg, KB, SJ Borgardt, and WC Wehr. Anatomically preserved Miocene plants from Yakima Canyon, Washington. Botanical Society of America, August, 1994.

Pigg, KB, and WC Wehr. Petrified Miocene plants from the Columbia River Basalts, Washington State. 38th Annual Meeting of the Arizona-Nevada Academy of Science, Glendale Community College, Glendale, AZ. April, 1994.

1993

Pigg, KB, WC Davis., and SR Ash. Permineralized leaf and seed remains from the Petrified Forest. 37th Annual Meeting of the Arizona-Nevada Academy of Science, University of Nevada, Las Vegas, April 17, 1993.

1992

Pigg, KB, and S McLoughlin. Comparison of anatomically preserved glossopterid leaves from the Bowen Basin, Queensland, and Sydney Basin, New South Wales, Australia. 4th International Organization of Paleobotanists Conference, Paris, August 31-September 2, 1992 .

1991

Pigg, KB Anatomically preserved *Glossopteris* stems with attached leaves from the Transantarctic Mountains. Botanical Society of America, San Antonio, Texas. August 1991. *American Journal of Botany* 78 (supplement): 122.

Pigg, KB, and RA Stockey. Fruits from the Princeton chert, Middle Eocene with possible myrtaceous affinities. *Bot. Soc. Amer.*, San Antonio, Texas. August 1991. *Amer. J. Bot.* 78 (suppl.): 122.

Pigg, KB, and TN Taylor. Permineralized *Glossopteris* stems with attached leaves from Skaar Ridge, central Transantarctic Mountains, Antarctica. Eighth International Symposium on Gondwana. University of Tasmania, Hobart, Australia. June, 1991. p. 66-67. IUGS Subcommittee of Gondwana Stratigraphy.

1990

Pigg, KB, and RA Stockey. Fossil sycamores from Alberta, Canada. 34th Annual Meeting, Arizona-Nevada Academy of Science, Arizona State University, Tempe, April, 1990. *J. Arizona-Nevada Acad. Sci.* 25: 29.

Pigg, KB, and RA Stockey. Late Paleocene sycamores from Alberta, Canada. *Bot. Soc. Amer. Richmond, Virginia*, August 1990. *Amer. J. Bot.* 77: 92.

1988

- Pigg, KB Corystosperms from the Triassic of Antarctica: *Dicroidium*. Botanical Society of America, Davis, California. Botanical Society of America Miscellaneous Series Publication 75: 114.
- Pigg, KB, and TN Taylor. Silicified glossopterid leaves from Antarctica: anatomical diversity. 3rd International Organization of Palaeobotany Conference, Melbourne, Australia, Abstracts.

1987

- Pigg, KB Anatomically preserved glossopterid remains from the Permian of Antarctica. Botanical Society of America, Columbus, Ohio. Botanical Society of America Miscellaneous Series Publication 74: 687.
- Pigg, KB, and TN Taylor. Anatomically preserved *Glossopteris* from Antarctica. VII Simposio Argentino de Paleobotanica y Palinologia, Buenos Aires, Actas: 177-180.

1986

- Pigg, KB, TN Taylor, and RA Stockey. On the structure and development of *Heterangium* Corda. Botanical Society of America, Amherst, Mass. Botanical Society of America Miscellaneous Series Publication 73: 709.

1985

- Pigg, KB, RA Stockey. Additional studies of *Microspermopteris aphyllum* Baxter. Botanical Society of America, Gainesville, Florida. Botanical Society of America Miscellaneous Series Publication 72: 898.
- Pigg, KB, and TN Taylor. Permineralized foliage of *Glossopteris* from the Permian of Antarctica. Sixth Gondwana Symposium, The Ohio State University, Abstracts, p. 73.
- Pigg, KB, TN Taylor, and RA Stockey. Studies of Paleozoic pteridosperms: foliage of *Microspermopteris* and *Heterangium* from the Pennsylvanian of Kentucky. Ohio Academy of Science, Cincinnati, Ohio. Ohio Journal of Science (April Program Abstracts) 85: 19.

1984

- Pigg, KB, and TN Taylor. Cormose lycopod bases from Mazon Creek and the phylogeny of the lycopods. Ohio Academy of Science, Cleveland, Ohio. Ohio Journal of Sciences (April Program Abstracts) 84: 7.
- Pigg, KB, and TN Taylor. Anatomy of permineralized glossopterid foliage. Abstracts of Contributed Papers and Poster Session, Second International Organization of Palaeobotany Conference, Edmonton, Alberta.

1983

- Pigg, KB. Surface and decortication features of an Upper Pennsylvanian woody lycophyte stem. Ohio Academy of Science, Bowling Green, Ohio. Ohio Journal of Science (April Program Abstracts) 83: 17.
- Pigg, KB, and GW Rothwell. Development and surface configuration of the Paleozoic isoetalean *Chaloneria*. Botanical Society of America, Grand Forks, South Dakota. Botanical Society of America Miscellaneous Series Publication 70: 76.

1982

Pigg, KB. Megasporangiate *Mazocarpon* from the Upper Pennsylvanian of the Appalachian Basin. Botanical Society of America, University Park, Pennsylvania. Botanical Society of America Miscellaneous Series Publication 162: 63.

Pigg, KB, and GW Rothwell. Structure and reproductive biology of *Mazocarpon* from the Upper Pennsylvanian Appalachian Basin, Ohio Academy of Science, Columbus, Ohio. Ohio Journal of Science (April Program Abstracts) 82: 16.

1981

Pigg, KB Megagametophytes of *Valvisporites auritus* from the bisporangiate fructification of an Upper Pennsylvanian woody lycopsid. Botanical Society of America, Bloomington, Indiana. Botanical Society of America Miscellaneous Series Publication 160: 46.

Pigg, KB, and GW Rothwell. Megagametophytes of an Upper Pennsylvanian woody lycopsid. Ohio Academy of Science, Wooster, Ohio. Ohio Journal of Science (April Program Abstracts) 81: 29.

1980

Pigg, KB An anatomically preserved Upper Pennsylvanian woody lycopsid. Botanical Society of America, Vancouver, British Columbia. Botanical Society of America Miscellaneous Series Publication. 158: 88-89.

Pigg, KB, and GW Rothwell. Vegetative and fertile shoot of an Upper Pennsylvanian woody lycopsid. Ohio Academy of Science, Toledo, Ohio. Ohio Journal of Science (April Program Abstracts) 80: 17.

1979

Pigg, KB, and GW Rothwell. Rooting structures of the Carboniferous arborescent lycopsids. Ohio Academy of Science, Tiffin, Ohio. Ohio. Journal of Science (April Program Abstracts) 79: 10.

PROFESSIONAL AFFILIATIONS

Museum Research Associate, Burke Museum of Natural History and Culture, Seattle, WA
Member, Friends of Stonerose Fossils and consultant to board of directors, Stonerose Interpretive Center, Republic, WA

Research Associate, Paleobotany, The Cleveland Museum of Natural History
Southwest Paleontological Society, Mesa Southwest Museum, Honorary Member

PROFESSIONAL ORGANIZATIONS

Botanical Society of America, Paleobotanical Section
International Organization of Paleobotany
Botanical Society of Japan
Geological Society of America, Cordilleran Section
American Fern Society

American Society of Plant Taxonomists
International Association of Pteridologists
Paleontological Society

VISITING SCHOLARS & POSTDOCTORAL ASSOCIATES

- 2007** Visiting Scholar (and Adjunct Professor with SoLS): Melanie L. DeVore, Georgia College & State University, Fall Semester. Paleocene, Eocene and Miocene floras
- 2006-7** Visiting Scholar: Michael J. Farabee, Avondale Community College, 2006-7. Paleocene floras and palynomorph assemblages.
- 2003 -present** Visiting Scholar (and Adjunct Professor with SoLS): Stefanie M. Ickert-Bond, University of Alaska, Fairbanks Altingiaceae comparative morphology and molecular studies; review of Tertiary *Liquidambar*.
- 2006-7** Visiting Scholar: Ruchi Shulka, Lucknow University, Lucknow, India. Jack Wolfe Conifer Cone collection; Miocene Taxodiaceous conifers from Yakima Canyon, Washington
- 2002** Visiting Scholar: Midori Matsumoto, Chiba University, 2002 Miocene Yakima Canyon and Saddle Mountain cherts of Washington State, USA.
- 1991-2** Postdoctoral Associate Mary Louise Trivett Studies of *Glossopteris* from Australia.

GRADUATE STUDENT ADVISEMENT

Current ASU Students

Chair (PhD Students): John Benedict: Paleocene fossils from Beicegel Creek, North Dakota; Witt Taylor: Plant-animal interactions in the Paleocene; Maria Tcherepova: Miocene Yakima Canyon flora paleoecological studies

Advisory Committee Member (PhD Students): Hugo Beraldi: Microbiological ecology; Frank Farruggia: Systematics of *Sesbania* (Fabaceae); Raul Gutierrez; Systematics studies; (MNS) Felicity Snyder.

ASU Students Completing Degrees

Chair

- 2006** Bond, Richard: Flora of Clear Creek, AZ, MS Thesis, Arizona State University Puente, Raul (Co-Chair). Systematics of *Nopalaes cacti* MS Thesis, Arizona State University, Tempe
- 2004** Coleman, Amanda L. 2004. Anatomically preserved *Taxodium*, from the middle Miocene of Yakima Canyon, Washington. MS thesis, Arizona State University, Tempe.
- 2003** Ickert-Bond, Stefanie M. (Co-Chair). *Ephedra* systematics and evolution. PhD Thesis, Arizona State University, Tempe. (now Assistant Professor, University of Alaska, Fairbanks).
- 2001** Tcherepova, Maria Investigations of two anatomically preserved fruits (Rhamnaceae and Nyssaceae) from the middle Miocene Yakima Canyon flora of Washington state, USA. MS thesis, Arizona State University, Tempe (now in PhD program at ASU).

- 1998** Bertram, Karla A. Petrified components of a biotic community from the middle Miocene Virgin Valley Formation, Nevada, USA. MS thesis, Arizona State University, Tempe. (now teaching in private high school in Canada).
- 1997** Ickert-Bond, Stefanie M. (cochair) Biosystematics of *Pinus krempfii* Lecomte. MS Thesis, Arizona State University, Tempe.
- 1996** Borgardt, Sandra J. Petrified *Quercus* (Fagaceae) fruit fossils from the middle Miocene, Yakima River Canyon, Washington. MS thesis, Arizona State University, Tempe
- 1996** Uhl, Rebecca. Project on fossil plant curation. MNS, nonthesis degree (working in ASU Hayden Library as reference librarian).

Advisory Committee:

- 2008** Nathan Wilkens (Geology): Paleoecology of the Navajo Sandstone (Jurassic) of Moab, Utah. (PhD Dissertation)
- 2003** Andrew M. Salywon. A monograph of *Mosiera* (Myrtaceae) (PhD Dissertation)
- 2001** Amy E. Trauth-Nare. Systematics and biogeography of the *Berberis commutata* complex (Berberidaceae) of South America. (M.S. thesis).
- 1999** William C. Davis. Ecophysiology of *Hydrothyria venosa*: An aquatic lichen. (PhD Dissertation).
- 1995** Elaine Joyal. An ethnoecology of *Sabal uresana* Trelease (Arecaceae) in Sonora, Mexico. (PhD Dissertation)
- 1995** Charlotte M. Christy: Systematics of the *Mentzelia* (Section *Bartonia*) *multiflora* (Nutt.) A. Gray Complex (Loasaceae). (PhD Dissertation)
- 1995** Jon P. Rebman Biosystematics of *Opuntia* Subgenus *Cylindropuntia* (Cactaceae), the Chollas of Lower California, Mexico. (Ph.D. dissertation)..
- 1995** Greg J. Imdorf. Flora and Vegetation of the Sierra Ancha Wilderness Area, Tonto National Forest, Gila County, Arizona. (M.S. thesis).
- 1995** Kathleen Rice Flora of the Superstition Mountains (MS thesis).

Georgia College & State University Graduate Students - Informal Advisement

- 2007** Tony Mathews - Paleocene lycopods related to *Isoetes*
- 2006** Alex Kittle - Late Paleocene Storm Ranch locality

UNDERGRADUATE STUDENT RESEARCHERS (at ASU)

- 2008** Samuel Roll - "*Guaera*" fig-like fruits from Late Cretaceous of Montana; Shane Binus - *Cyclocarya* morphometrics from Almont flora
- 2007-8** Angela Caballaro, Tony Zapatka Paleocene plants from North Dakota; Amy Cotlow - Fossil guavas (Myrtaceae, *Paleomyrtinaea*) from Almont ND, Matthew Olson *Acer* (Sapindaceae) from Almont ND
- 2006-7** Rhonda Chapman - *Spirea* leaves from Republic, WA (Eocene)
- 2005-6** Darin Janke Paleocene plants from North Dakota; John Benedict Paleocene *Hamamelis* fruits from Almont, North Dakota (published: Benedict, et al., 2008 International Journal of Plant Sciences)
- 2004** Nesrine Taylor Paleocene Almont and Beicegel Creek floral diversity.
- 2000-1** Meghan Radtke Eocene *Corylopsis* and *Fothergilla* (Hamamelidaceae) leaves (published as Radtke, et al 2005).

- 1999-2000, -3** Carol Crimmins Anatomy of crucifixion thorns from the Sonoran desert
Paleocene fossil plants from Almont, North Dakota
- 1994-5** Sara Kahn Fossils from Yakima Canyon, middle Miocene, Washington state
- 1991-2** Charlene Conner Anatomy of *Princetonia allenbyensis*, Eocene Princeton chert
- 1990-1** Suzette Maxwell Permineralized myrtaceous fruit from Eocene Princeton chert
(published as Pigg et al. 1993)

(with M. DeVore at Georgia College & State University)

- 2004** Mark A. Brewer *Ochna* from Almont and Beicegel Creek flora, Paleocene of North Dakota; A. L. Sullivan Monocots from Beicegel Creek, Paleocene of North Dakota
- 2003** P. E. Creekmore Fossil lepidopterid trace fossils Yakima Canyon, Miocene of Washington; Sharon Wells Fossil Platanaceae from Yakima Canyon, Miocene of Washington.
- 2002** Amanda M. Westbrook Damage patterns in *Quercus* acorns from Miocene Yakima Canyon; Steven Moore *Lagerstromia*-like fossil fruits from Yakima Canyon. Fossil *Neviusia* (Rosaceae) from One Mile Creek (Eocene) British Columbia.
- 2001** Steven Mouton Permineralized fruit from Paleocene Almont flora.

(with G. W. Rothwell at Ohio University)

- 1996** E. A. Arnone Fossil *Woodwardia* fern rhizomes from Yakima Canyon, Washington State

PROFESSIONAL SERVICE & OUTREACH ACTIVITIES

Panel Membership

- National Science Foundation
- 2007-9** Geosciences: Sedimentology & Paleobiology
- 2004** Division of Biology (Biological Research Collections)
- 2002-3** Division of Biology (Assembling the Tree of Life)
- 2001** Geology & Paleontology

Ad hoc Reviews (ongoing) National Science Foundation (Divisions of Biology: Systematic Biology & Biodiversity Inventories; Biological Infrastructure; Geosciences: Earth Sciences: Sedimentary Geology & Paleontology; Polar Research: Antarctic Sciences); NASA: Exobiology/Evolutionary Biology; National Science and Engineering Research Council of Canada (NSERC); Natural Environment Research Council (UK)

Journal Reviewer (ongoing): American Midland Naturalist; American Journal of Botany; Antarctic Science; Australian Journal of Botany; Biological Reviews; Botanical Journal of the Linnean Society; Canadian Journal of Botany; Canadian Journal of Earth Sciences; IAWA (International Association of Wood Anatomists) Journal; International Journal of Plant Sciences; Journal of the Arizona & Nevada Academy of Science; Journal of the History of Biology; Palaeobios, Palaeoclimates - Data and Modeling; Palaeontographica; Palaeontology; Review of Palaeobotany and Palynology; Systematic Botany.

Textbook and Online Resource Reviewer for Plant Anatomy texts

- 2005-ongoing** Blackwell Scientific Press, Cambridge University Press

External Examiner for Dissertations

- 2005** University of Witwatersrand, South Africa
- 2004** University of Melbourne, School of Botany

Advisory Roles

- 2006** Scientific Advisor, Department of Homeland Security, Immigration and Customs Enforcement (ICE), Office of Investigations, aid in identifying illegally imported fossil plants from Argentina.
- 2004-present** Advisory Board, Stonerose Interpretive Center, Republic, Washington.

Editorial Roles

- 2007** Co-Editor of Symposium Volume on Paleogene floras and global change events (with M. E. Collinson and M. L. DeVore), *Bulletin of Geosciences at the Czech Geological Survey*.
- 2000-current** Consulting Editor, Paleobotany, *Palaeontologia africana* (Journal of South African Research)

Meetings and Symposium Organizing

- 2006** Symposium Co-Organizer, Palaeogene floras and global change events (with M. Collinson and M. DeVore). 7th European Paleobotany-Palynology Conference.
- 2005** Co-host for 22nd Midcontinent Paleobotanical Colloquium, Georgia College & State University, Milledgeville, Georgia

Professional Organizations

Botanical Society of America

- 2005-8** Membership Committee
- 2001-3** Secretary-Treasurer, Paleobotanical Section; Maynard Moseley Awards
- 1998, 2000** Isabel Cookson Award Committee

International Organization of Paleobotany

- 2000** Student Travel Award Committee, 2000

Arizona-Nevada Academy of Science

- 1994-7** Treasurer

Additional Professional Outreach Activities

- 2005** Intel Judge for Intel ISEF (International Science & Engineering Fair), Phoenix, May
- 2000-5** Design of webpages for courses: Plant Fossils and Evolution (PLB 407):
- 2000** Desert Botanical Garden, Phoenix, informal talks. Various science fairs, school presentations.
- 1996-2000** Southwest Paleontological Society, Mesa Southwest Museum, Mesa, advisor.

UNIVERSITY AND DEPARTMENTAL SERVICE

School of Life Sciences

Natural History Collections activities

2006 Coordinator for School of Life Science Natural History Collections Display, January

2005-present Participant in ASU Museums, Galleries and Collections tours for the public

2005-present Natural History Collections Group Member

2004-present Natural History Collections Committee Co-Chair

2000-present Ask a Biologist Contributor

Committee Service

2007-present Human Dimensions Representative to Facilities Committee

2007-2008 Human Dimensions Representative to Graduate Committee

2006-present Honors Disciplinary Advisor for Plant Biology, Barrett Honors College

2004-7 Genomics, Evolution & Bioinformatics Representative to Graduate Committee

2004-5 Affirmative Action Representative

2003-4 Search Committee for Evolutionary & Systems Biologist 2003-2004

Department of Plant Biology

2000 Chair, Search Committee for Molecular Plant Systematist

1999-2001 Graduate Director

1999-2000 University Committee on Committees

1998-9 Departmental Representative, University Senate

1998 Darkroom Coordinator

1994-7 Personnel Committee

1997 Search Committee, Developmental Anatomist

Department of Botany

1991-5 Graduate Admissions Committee

1993-4 Darkroom Coordinator

1995 Search Committee, Physiological Ecologist

1990-3 Affirmative Action Representative

1994-5 Undergraduate Biology Student Advising

1990 Search Committee, Urban Horticulturalist