

## CURRICULUM VITAE

Steven R. Manchester

Curator of Paleobotany, Florida Museum of Natural History  
Adjunct Professor, Department of Botany  
University of Florida  
Gainesville, FL 32611.  
Ph. 352 392-1721 ex 495;  
Home ph. 352 335-6343  
steven@flmnh.ufl.edu

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### **Education**

### **Employment History**

### **Major Research Interests**

### **Professional Associations**

### **Research Publications by Plant Families**

### **Research Publications by Geologic Age and Geography**

### **Research Publications**

### **Reviews**

### **Symposia and Field Excursions Organized**

### **Current Teaching**

### **Post-Doctoral Associates and Graduate Students**

### **National Science Foundation Grants**

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### **Education**

- B.S. Botany, with honors, Oregon State University, Corvallis, 1977.
- B.S. Geology, with honors, Oregon State University, 1977.
- M.S. Biology, Indiana University, Bloomington, 1979.

- Ph.D. Paleobotany, Indiana University, Bloomington, 1981.

## **Employment History**

- Curator of Paleobotany, Florida Museum of Natural History, University of Florida, Gainesville, FL 32611 August 2002-.
- Associate Curator of Paleobotany, Florida Museum of Natural History, University of Florida, Gainesville, FL 32611 August 1994-2002.
- Assistant Curator of Paleobotany, Florida Museum of Natural History, University of Florida, Gainesville, FL 32611 August 1990-1994.
- Associate Scientist, Curator of Fossil Plants, Departments of Geology and Biology, Indiana University, Bloomington, IN 47405 1988-July 1990.
- Assistant Scientist, Curator of Fossil Plants, Departments of Geology and Biology, Indiana University, Bloomington, IN 47405 1982-1988.
- Director, Summer Field Paleobotany Program, Oregon Museum of Science and Industry, 1976-1989.

## **Major Research Interests**

Evolution of extant angiosperm families in the Northern Hemisphere. Multiple-organ paleobotanical investigations providing characters of flowers, fruits, pollen, leaves and wood for inclusion in phylogenetic analyses. Paleocene and Eocene floras of western North America, central Europe and eastern Asia. I have enjoyed collaborative research with paleobotanists in Canada, China, Czech Republic, England, Germany, Hungary, Japan, Russia, and the United States.

## **Professional Associations**

- Botanical Society of America (life membership), Paleobotanical Section;
- American Society of Plant Taxonomists (life membership);
- International Organization of Paleobotany;
- International Association of Wood Anatomists;
- American Association of Stratigraphic Palynologists

## **Research Publications by Plant Families (keyed by the publication numbers listed below)**

Actinidiaceae: 50,37  
 Alangiaceae: 83,50  
 Anacardiaceae: 83,50  
 Annonaceae: 83,37  
 Araliaceae: 83,77,37  
 Berberidaceae: 50  
 Betulaceae: 83,77,70,68,66,61,55,50,45,43,42,37,25,15  
 Caprifoliaceae: 77,50,41

Celtidaceae: 83,37,24  
Cercidiphyllaceae: 83  
Cornaceae sl.: 87,78,60,58,50,37,25  
Cupressaceae: 64,50  
Elaeocarpaceae: 72,60  
Eucommiaceae: 77,66,62,60  
Fagaceae: 83,71,60,50,37,9  
Hamamelidaceae: 83,60,50,37  
Hydrangeaceae: 60,50,37  
Icacinaceae: 50,45,37  
Juglandaceae: 83,66,60,50,46,45,39,37,34,27,25,22,18,14,8,7,6  
Lauraceae: 83,50,37  
Lythraceae: 37  
Magnoliaceae: 83,37  
Malpighiaceae: 67  
Malvaceae (incl. Tiliac, Sterc): 83,80,79,77,50,38,31,4,3,2  
Menispermaceae: 37,35,5  
Musaceae: 40,37,35  
Myrtaceae: 52  
Nyssaceae: 78,60,50  
Palmae: 77,44,37  
Pinaceae: 77,50,37  
Platanaceae: 83,71,70,50,37,25,19,12  
Podomogetonaceae: 77  
Rosaceae: 83,50,37  
Rhamnaceae: 60,38  
Rubiaceae: 37  
Sabiaceae: 84,83,37,36,25,5  
Salicaceae: 88,77,10,  
Sapindales (incl. Acerac, Hippocast.): 83,76,74,73,69,66,60,37,1  
Schizaeaceae: 16  
Sargentodoxaceae: 60  
Schisandraceae: 37  
Symplocaceae: 37  
Tapisciaceae: 37,17  
Taxaceae: 50,37  
Toricelliaceae: 60  
Trochodendraceae: 60,30,28,25  
Ulmaceae: 86,83,77,76,60,50,37,24,23  
Vitaceae: 83,37  
Zamiaceae: 59

## **Recent Publications by Geologic Age and Geography (keyed by the publication numbers listed below)**

Paleocene of Wyoming, Montana, and/or North Dakota  
84,82,78,74,73,71,25,59,58,55,46,43,28,22,14,6  
Paleocene of eastern Asia 85,84,82,78,71,58,42,28  
Paleocene of Greenland 71,28  
Paleocene of Scotland 19  
Eocene of Europe 86,49,39,22,14,13  
Eocene of Asia 68,65,62,22,14  
Middle Eocene of Oregon, Washington or British Columbia  
83,74,59,45,40,22,17,24,37,35,34,31,27,26,14,13,12,9,8,4,3,2,1  
Middle Eocene of Rocky Mountain region 88,69,65,56,54,31,23,22,16,14,13,12,10,6  
Late Eocene of Oregon 74,66,65,53,41,31 22,14  
Late Eocene of Colorado 77,74,65,41,31,24,23,22,15,14,13,9  
Early Oligocene of Oregon 74,70,64,50,48,38,29,26,21,15,14,13  
Oligocene of Europe 72,70,67,64,49,29,24,14  
Miocene of Oregon, Idaho and Washington 64,41,38,14  
Miocene of Florida 60,44  
Miocene of Europe 80,79,64,38,29,24,14  
Miocene of Asia 65,30,24,14

## **Research Publications (\* indicates reprints available on request)**

- 88 Boucher, L.D., S.R. Manchester, and W.S. Judd. 2003. An extinct genus of Salicaceae based on twigs with attached flowers, fruits, and foliage from the Eocene Green River Formation of Utah and Colorado, USA. *American Journal of Botany* 90: 1389-1399 + cover photo \*
- 87 Takahashi, M., P.R. Crane, and S.R. Manchester. 2003. *Huronoia fusiformis* gen. et sp. nov.; a cornelian fruit from the Kamikitaba locality (Upper Cretaceous, Lower Coniacian) in northeastern Japan. *Journal of Plant Research* 115: 463-473.\*
- 86 Wilde, V., and S.R. Manchester. 2003. *Cedrelospermum* fruits (Ulmaceae) and related leaves from the Middle Eocene of Messel (Hesse, Germany). *Cour. Forsch.-Inst. Senckenberg* 241: 147-153.\*
- 85 Akhmetiev, M.A., T.V. Kezina, T.M. Kodrul, and S.R. Manchester. 2002. Stratigraphy and flora of the Cretaceous-Paleogene boundary layers in the southeast part of the Zeya-Bureya sedimentary basin. Pp. 275-315, in M.A. Akhmetiev, M.P. Doludenko, A.B. Herman, and I.A. Ignatiev, eds. Special volume dedicated to the memory of the Corresponding member of the USSR Academy of Sciences, Professor Vsevolod Andreevich Vakrameev (to the 90th anniversary of his birth). Geological Institute Russian Academy of Sciences, Moscow. 336 pp. In Russian.
- 84 Manchester, S.R. 2002. Morphology and phytogeographic history of *Porosia Hickey* in the Cretaceous and Paleocene of Asia and North America, and its distinction from *Limnobiophyllum* Krassilov. Pp. 180-181, in M.A. Akhmetiev, M.P. Doludenko, A.B. Herman, and I.A. Ignatiev, eds. Special volume, dedicated to the memory of the

- Corresponding member of the USSR Academy of Sciences, Professor Vsevolod Andreevich Vakrameev (to the 90th anniversary of his birth). Geological Institute Russian Academy of Sciences, Moscow. 336 pp.
- 83 Wheeler, E.A., and S.R. Manchester. 2002. Woods of the Eocene Nut Beds flora, Clarno Formation, Oregon, USA. *International Association of Wood Anatomists Journal*, Supplement 3. 188 pp.\*
  - 82 Manchester, S.R., M.A. Akhmetiev, T. Kodrul. 2002. Leaves and fruits of *Celtis aspera* (Newberry) comb. nov. (Celtidaceae) from the Paleocene of North America and eastern Asia. *International Journal of Plant Sciences*. 163: 725-736.\*
  - 81 Manchester, S.R. 2002. Automated Multilingual Text Translation. *International Organization of Palaeobotany Newsletter*. 71: 3-5.\*
  - 80 Kvacek, Z., S.R. Manchester, R. Zetter, M. Pinggen. 2002. Fruits and seeds of *Craigia brononii* (Malvaceae -Tilioideae) and associated flower buds from the late Miocene Inden Formation, Lower Rhine Basin, Germany. *Review of Palaeobotany and Palynology* 119:311-324.
  - 79 Pinggen, M., Z. Kvacek, and S.R. Manchester. 2001. Frucht und Samen von *Craigia brononii* aus dem Obermiozän von Hambach (Niederrheinische Bucht - Deutschland) Vorläufige Mitteilung. *Documenta Naturae*, 138, 1-7, 2 pls. München. (issued 2002).
  - 78 Manchester, S.R. 2002. Leaves and fruits of *Davidia* (Cornales) from the Paleocene of North America. *Systematic Botany* 27(2): 368-382.\*
  - 77 Manchester, S.R. 2001. Update on the megafossil flora of Florissant, Colorado, USA. In Evanoff, E., Gregory-Wodzicki K.M., Johnson K.R., Editors. *Fossil flora and stratigraphy of the Florissant Formation, Colorado*. Proceedings of the Denver Museum of Nature and Science, Series 4, No. 1, p. 137-161.\*
  - 76 Manchester, S.R., and Tiffney, B.H. 2001. Integration of paleobotanical and neobotanical data in the assessment of phytogeographic history of holarctic angiosperm clades. *International Journal of Plant Sciences* 162 (6, supplement): S19-S27.\*
  - 75 Tiffney B.H., and Manchester, S.R. 2001. The use of geological and paleontological evidence in evaluating plant phylogeographic hypotheses in the Northern Hemisphere Tertiary. 162 (6, supplement): S3-S17.\*
  - 74 McClain, A.M. and Manchester, S.R. 2001. Dipteronia (Sapindaceae) from the Tertiary of North America and implications for the phytogeographic history of the Acerioideae. *American Journal of Botany* 88(7):1316-1325.\*
  - 73 Manchester, S.R. 2001. Leaves and fruits of *Aesculus* (Sapindales) from the Paleocene of North America. *International Journal of Plant Science* 162(4):985-998.\*
  - 72 Kvacek, Z., L. Hably, and S.R. Manchester. 2001. *Sloanea* (Elaeocarpaceae) fruits and foliage from the Early Oligocene of Hungary and Slovenia. *Palaeontographica Abt. B*, 259:113-124.
  - 71 Kvacek, Z., Manchester, S.R., and Guo, Shuang-xing. 2001. Trifoliolate leaves of *Platanus bella* (Heer) comb. n. from the Paleocene of North America, Greenland, and Asia and their relationships among extinct and extant Platanaceae. *International Journal of Plant Sciences* 162: 441-458.\*
  - 70 Hably, L., Z. Kvacek, and S.R. Manchester. 2000. Shared taxa of land plants in the Oligocene of Europe and North America in context of Holarctic phytogeography. *Acta Universitatis Carolinae-Geologica* 44: 59-74.

- 69 Manchester, S.R., and E. J. Hermsen. 2000. Flowers, fruits, seeds, and pollen of *Landeenia* gen. nov., an extinct sapindalean genus from the Eocene of Wyoming. *American Journal of Botany*. 87: 1909-1914.\*
- 68 Akhmetiev, M.A. and S.R. Manchester. 2000. A new species of *Palaeocarpinus* (Betulaceae) from the Paleogene of Eastern Sikhote-Alin. *Paleontological Journal* 34: 467-474.\*
- 67 L., and S.R. Manchester. 2000. Fruits of *Tetrapterys* (Malpighiaceae) from the Oligocene of Hungary and Slovenia. *Review of Palaeobotany and Palynology*. 111: 93-101.\*
- 66 Manchester, S.R., 2000. Late Eocene fossil plants of the John Day Formation, Wheeler County, Oregon. *Oregon Geology* 62:51-63.\*
- 65 Wang, Yufei, and Manchester, S.R. 2000. *Chaneya*, A new genus of winged fruit from the Tertiary of North America and eastern Asia. *International Journal of Plant Sciences* 161:167-178.\*
- 64 Kvacek, Z., S.R. Manchester, and H.E. Schorn. 2000. Cones, seeds, and foliage of *Tetraclinis salicornioides* (Cupressaceae) from the Oligocene and Miocene of western North America: a geographic extension of the European Tertiary species. *International Journal of Plant Sciences*. 161:331-344.\*
- 63 Xiang, Qiu-Yun, D. E. Soltis, P. S. Soltis, S. R. Manchester and D. J. Crawford. 2000. Timing the Eastern Asian? Eastern North American Floristic Disjunction: Molecular clock corroborates paleontological estimates. *Molecular Phylogenetics and Evolution*, 15: 462-472.
- 62 Geng Baoyin, S.R. Manchester, and Lu Anming. 1999. The first discovery of *Eucommia* fruit fossil in China. *Chinese Science Bulletin* 44: 1506-1509.\*
- 61 Chen, Zhi-duan, S.R. Manchester, and Hai-Ying Sun. 1999. Phylogeny and evolution of the Betulaceae as inferred from DNA sequences, morphology and paleobotany. *American Journal of Botany*. 86: 1168-1181.\*
- 60 Manchester, S.R. 1999. Biogeographical relationships of North American Tertiary floras. *Annals of the Missouri Botanical Garden* 86: 472-522.\*
- 59 Kvacek, Z. and S.R. Manchester. 1999. *Eostangeria Barthel* (extinct Cycadales) from the Paleogene of western North America and Europe. *International Journal of Plant Science* 160: 621-629.\*
- 58 Manchester, S.R., P.R. Crane, and L. Golovneva. 1999. An extinct genus with affinities to extant *Davidia* and *Camptotheca* (Cornales) from the Paleocene of North America and Eastern Asia. *International Journal of Plant Science* 160: 188-207.\*
- 57 Wiemann, M.C., S.R. Manchester, and E.A. Wheeler. 1999. Paleotemperature estimation from dicotyledonous wood anatomical characters. *Palaios* 14: 459-474.
- 56 Lott, T.A., S.R. Manchester, and D.L. Dilcher. 1998. A unique and complete polemoniaceous plant from the middle Eocene of Utah, USA. *Review of Palaeobotany and Palynology* 104: 39-49.
- 55 Manchester, S.R. and Z.-D. Chen. 1998. A new genus of Coryloideae (Betulaceae) from the Paleocene of North America. *International Journal of Plant Science* 159: 522-532.\*
- 54 Manchester, S.R., D.L. Dilcher, and S.L. Wing. 1998. Attached leaves and fruits of myrtaceous affinity from the middle Eocene of Colorado, USA. *Review of Palaeobotany and Palynology* 102: 153-163.

- 53 Smith, G.A., S.R. Manchester, M. Ashwill, W.C. McIntosh, and R.M. Conrey. 1998. Late Eocene-early Oligocene tectonism, volcanism, and floristic change near Gray Butte, central Oregon. *Geological Society of America Bulletin* 100: 759-778.
- 52 Wiemann, M.C., S.R. Manchester, D.L. Dilcher, L.F. Hinojosa, and E.A. Wheeler. 1998. Estimation of temperature and precipitation from morphological characters of dicotyledonous leaves *American Journal of Botany* 1998 85: 1796-1802.
- 51 Wiemann, M.C., E.A. Wheeler, S.R. Manchester, and K.M. Portier. 1998. Dicotyledonous wood anatomical characters as predictors of climate. *Palaeogeography, Palaeoclimatology, Palaeoecology* 139: 83-100.
- 50 Meyer, H.W. and S.R. Manchester. 1997. The Oligocene Bridge Creek flora of the John Day Formation, Oregon. *University of California Publications in Geological Science* 141: 1-195, 75 pl.
- 49 Manchester, S.R., and L. Hably. 1997. Revision of *Abelia* fruits from the Paleogene of Hungary, Czech Republic, and England. *Review of Palaeobotany and Palynology* 96: 321-240.\*
- 48 McIntosh, W.C., Manchester, S.R., and H.W. Meyer. 1997. Age of the plant-bearing tuffs of the John Day Formation at Fossil, Oregon, based upon <sup>40</sup>Ar/<sup>39</sup>Ar single-crystal dating. *Oregon Geology* 59: 3-5, 20, + cover photo.
- 47 Judd W. and S.R. Manchester. 1997. Circumscription of Malvaceae (Malvales) as determined by a preliminary cladistic analysis of morphological, anatomical, palynological and chemical characters. *Brittonia* 49: 384-405.
- 46 Manchester, S.R. and D.L. Dilcher. 1997. Reproductive and vegetative morphology of Polyptera (Juglandaceae) from the Paleocene of Wyoming and Montana. *American Journal of Botany* 84: 649-663, + cover photo.\*
- 45 Wehr, W.C., and Manchester, S.R. 1996. Paleobotanical significance of flowers, fruits, and seeds from the Eocene of Republic, Washington. *Washington Geology* 24: 25-27.\*
- 44 Manchester, S.R. 1996. Petrified woods in Florida. *Papers in Florida Paleontology* 8:1-8.
- 43 Manchester, S.R., and Chen Zhiduan. 1996. *Palaeocarpinus aspinosa* sp. nov. (Betulaceae) from the Paleocene of Wyoming, USA. *International Journal of Plant Sciences* 157: 644-655.\*
- 42 Manchester, S.R., Guo Shuang-xing. 1996. *Palaeocarpinus* (extinct Betulaceae) from northwestern China: New evidence for Paleocene floristic continuity between Asia, North America and Europe. *International Journal of Plant Sciences* 157: 240-246.\*
- 41 Manchester, S.R. and M. Donoghue. 1995. Winged fruits of Linnaeae (Caprifoliaceae) in the Tertiary of western North America: *Diplodipelta* gen. nov. *International Journal of Plant Sciences* 156: 709-722.\*
- 40 Manchester, S.R. 1995. Yes, we had bananas. *Oregon Geology* 57: 41-43.
- 39 Manchester, S.R., M.E. Collinson, and K. Goth. 1994. Fruits of the Juglandaceae from the Eocene of Messel, Germany and implications for early Tertiary phytogeographic exchange between Europe and western North America. *International Journal of Plant Sciences* 155: 388-394, + cover photo.\*
- 38 Manchester, S.R. 1994. Inflorescence bracts of fossil and extant *Tilia* in North America, Europe and Asia: Patterns of morphologic divergence and biogeographic history. *American Journal of Botany* 81: 1176-1185.\*

- 37 Manchester, S.R. 1994. Fruits and seeds of the Middle Eocene Nut Beds flora, Clarno Formation, Oregon. *Palaeontographica Americana* 58: 1-205.
- 36 Carlquist, S., Morrell, P., and S.R. Manchester. 1993. Wood anatomy of Sabiaceae (s.l.): Ecological and systematic implications. *Aliso* 13: 521-549.\*
- 35 Manchester, S.R., and W.J. Kress. 1993. Fossil bananas (Musaceae): *Ensete oregonense* sp. nov. from the Eocene of western North America and its phytogeographic significance. *American Journal of Botany* 80: 1264-1272.\*
- 34 Manchester, S.R., and E.A. Wheeler. 1993. Extinct juglandaceous wood from the Eocene of Oregon and its implications for xylem evolution in the Juglandaceae. *International Association of Wood Anatomists Journal* 14: 103-111.\*
- 33 Call, V.B., S.R. Manchester, and D.L. Dilcher. 1993. *Wetherellia* fruits and associated plant remains from the Paleocene/Eocene Tuscaloosa-Hatchetigbee interval, Meridian, Mississippi. *Mississippi Geology* 14: 10-18.
- 32 Meyer, H.W. and S.R. Manchester. 1992. Presentation of the Harrell L. Strimple award of the Paleontological Society to Melvin S. Ashwill. *Journal of Paleontology* 66: 714-716.
- 31 Manchester, S.R. 1992. Flowers, fruits and pollen of *Florissantia*, an extinct malvacean genus from the Eocene and Oligocene of western North America. *American Journal of Botany* 79: 996-1008 + cover photo.\*
- 30 Manchester, S.R., P.R. Crane, and D.L. Dilcher. 1991. *Nordenskiöldia* and *Trochodendron* (Trochodendraceae) from the Miocene of northwestern North America. *Botanical Gazette*. 152: 357-368.\*
- 29 Kvacek, Z., C. Buzek, and S.R. Manchester. 1991. Fossil fruits of *Pteleacarpum Weylandii*-Tiliaceous not Sapindaceous. *Botanical Gazette* 152: 522-523.\*
- 28 Crane, P.R., S.R. Manchester and D.L. Dilcher. 1991. Reproductive and vegetative structure of *Nordenskiöldia* (Trochodendraceae), a vesselless dicotyledon from the Early Tertiary of the Northern Hemisphere. *American Journal of Botany* 78: 1311-1334.\*
- 27 Manchester, S.R. 1991. *Cruciptera*, a new juglandaceous winged fruit from the Eocene and Oligocene of western North America. *Systematic Botany* 16: 715-725.\*
- 26 Manchester, S.R. 1990. Eocene to Oligocene floristic changes recorded in the Clarno and John Day Formations, Oregon, USA, in E. Knobloch, and Kvacek, Z., [eds.], *Symposium Proceedings, paleofloristic and paleoclimatic changes in the Cretaceous and Tertiary*, pp. 183-187, Geological Survey Press, Prague, Czechoslovakia.
- 25 Crane, P.R., S.R. Manchester and D.L. Dilcher. 1990. A preliminary survey of fossil leaves and well-preserved reproductive structures from the Sentinel Butte Formation (Paleocene) near Almont, North Dakota. *Fieldiana Geology* 1418: 1-63.\*
- 24 Manchester, S.R. 1989c. Systematics and fossil history of the Ulmaceae, pp. 221-252 in Crane, P.R. and Blackmore, S. [eds.]. *Evolution, Systematics, and fossil history of the Hamamelidae, Volume 2: 'Higher' Hamamelidae*, Systematics Association Special Volume no. 40B, Clarendon Press, Oxford.\*
- 23 Manchester, S.R. 1989b. Attached reproductive and vegetative remains of the extinct American-European genus *Cedrelospermum* (Ulmaceae) from the early Tertiary of Utah and Colorado, USA. *American Journal of Botany* 76: 256-276.\*
- 22 Manchester, S.R. 1989a. Early history of the Juglandaceae. *Plant Systematics and Evolution* 162: 231-250.

- 21 Buzek, C., Z. Kvacek, and S.R. Manchester. 1989. Sapindaceous affinities of the *Ptelea* fruits from the Tertiary of Eurasia and North America. *Botanical Gazette* 150: 477-489.
- 20 Dilcher, D.L. and S.R. Manchester. 1988. Investigations of angiosperms from the Eocene of North America: a fruit belonging to the Euphorbiaceae. *Tertiary Research* 9: 45-58.
- 19 Crane, P.R., S.R. Manchester, and D.L. Dilcher. 1988. Morphology and Phylogenetic significance of the angiosperm *Platanites hebridicus* from the Palaeocene of Scotland. *Palaeontology* 31: 503-517.\*
- 18 Jones, J.H., S.R. Manchester, and D.L. Dilcher. 1988. *Dryophyllum* Debey ex *Saporta*, juglandaceous not fagaceous. *Review of Palaeobotany and Palynology* 56: 205-211.
- 17 Manchester, S.R. 1988. Fruits and seeds of *Tapiscia* (Staphyleaceae) from the middle Eocene of Oregon, USA. *Tertiary Research* 9: 59-66.\*
- 16 Manchester, S.R. and M.S. Zavada. 1987. *Lygodium* foliage with intact sorophores from the Eocene of Wyoming. *Botanical Gazette* 148: 392-399.\*
- 15 Manchester, S.R. and P.R. Crane. 1987. A new genus of Betulaceae from the Oligocene of western North America. *Botanical Gazette* 148: 263-273.\*
- 14 Manchester, S.R. 1987b. The fossil history of the Juglandaceae. *Missouri Botanical Garden Monograph* 21: 1-137.\*
- 13 Manchester, S.R. 1987a. Extinct ulmaceous fruits from the Tertiary of Europe and western North America. *Review of Palaeobotany and Palynology* 52: 119-112.\*
- 12 Manchester, S.R. 1986. Vegetative and reproductive morphology of an extinct plane tree (Platanaceae) from the Eocene of western North America. *Botanical Gazette* 147: 200-226.\*
- 11 Dilcher, D.L., and Manchester, S.R. 1986. Investigations of angiosperms from the Eocene of North America: leaves of the Engelhardieae (Juglandaceae). *Botanical Gazette* 147: 189-199.\*
- 10 Manchester, S.R., D.L. Dilcher and W.D. Tidwell. 1986. Interconnected reproductive and vegetative remains of *Populus* (Salicaceae) from the Middle Eocene Green River Formation, northeastern Utah. *American Journal of Botany* 73: 156-160.
- 9 Manchester, S.R. and P.R. Crane. 1983. Attached leaves, inflorescences, and fruits of *Fagopsis*, an extinct genus of fagaceous affinity from the Oligocene Florissant Flora of Colorado, USA. *American Journal of Botany* 70: 1147-1164.
- 8 Manchester, S.R. 1983. Fossil wood of the Engelhardieae (Juglandaceae) from the Eocene of North America: *Engelhardioxylon* gen. nov. *Botanical Gazette* 144: 157-163.
- 7 Crane, P.R. and S.R. Manchester. 1982. An extinct juglandaceous fruit from the Upper Paleocene of Southern England. *Botanical Journal of the Linnean Society* 85: 89-101.
- 6 Manchester, S.R., and D.L. Dilcher. 1982. Pterocaryoid fruits (Juglandaceae) in the Paleogene of North America and their evolutionary and biogeographic significance. *American Journal of Botany* 69: 275-286.
- 5 Manchester, S.R. 1981. Fossil plants of the Eocene Clarno Nut Beds. *Oregon Geology*, 43: 75-81.

- 4 Manchester, S.R. 1980. *Chattawayia* (Sterculiaceae): a new genus of wood from the Eocene of Oregon and its implications for xylem evolution of the extant genus *Pterospermum*. *American Journal of Botany* 67:59-67.
- 3 Manchester, S.R. 1979. *Triplochitioxylon* (Sterculiaceae): a new genus of wood from the Eocene of Oregon and its bearing on the xylem evolution of the extant genus *Triplochiton*. *American Journal of Botany* 66: 699-708.
- 2 Manchester, S.R., and R.B. Miller. 1978. Tile cells and their occurrence in malvacean fossil woods. *IAWA Bulletin* 1978/2-3:23-28.
- 1 Manchester, S.R. 1977. Wood of *Tapirira* (Anacardiaceae) from the Paleogene Clarno Formation of Oregon. *Review of Palaeobotany and Palynology* 23: 119-127.

## Reviews

- Manchester S.R. 2000. Review of: *Bibliography on Seed Morphology* by Jensen. A.A. Balkema, Rotterdam. 1998, 310 pp. *Palaeogeography, Palaeoclimatology, Palaeoecology* 162: 414-415.
- Manchester S.R. 2000. Review of: *Fossil Plants and Spores--Modern Techniques*, edited by T.P. Jones and N.P. Rowe. 1999. *Palaeogeography, Palaeoclimatology, Palaeoecology*.
- Manchester, S.R. 1999. Review of: *Common Fossil Plants of Western North America*, 2nd edition, by W.D. Tidwell. *American Paleontologist* 7(4): 7-8.

## Symposia and Field Excursions Organized

- “Eur-American floristic similarities through the Cenophytic”, co-organized with Z. Kvacek for the International Botanical Congress, St. Louis, 1999.
- “Intracontinental floristic relationships through the Late Cretaceous and Tertiary”, held at the International Organisation of Palaeobotany Conference, Qinhuangdao, China, August 2000.
- “Fossil Forests of Central Oregon”, S.R. Manchester and G. J. Retallack, Botanical Society of America Field Trip 17. August 10-14, 2000.

## Current Teaching

- Bot. 5115 Paleobotany
- Bot 6935 Paleobotanical Microtechnique
- Bot 5625 Plant Geography

## Post-Doctoral Associates

Dr. Herbert Meyer, 1990-1993; Dr. Huang Qiangsheng, 1993-1994; Dr. Michael Wiemann, 1995-1996.

Graduate Students: Amy McClain, 1998-2000 (MS, Botany); Iju (Judy) Chen, 2001-; Sarah Corbett, 2001-

## National Science Foundation Grants

- EAR 0174295, March 1, 2001-April 31, 2004. Eocene floras of the Northern Hemisphere: Paleoclimate and implications for large scale floristic interchange. (\$75,000)
- INT 0074295, May 1, 2000-April 30, 2003. U.S. China Cooperative Research: Origins and evolution of major characteristic elements and key taxa in east Asian flora. (\$41,796)
- INT 560260112, May 15, 1997-April 30, 2000. U.S.-Czech paleobotanical research on Tertiary plant disjunctions of North America and Europe. (\$19,558)
- DEB 9631371, August 15, 1996-July 31, 1999 (Co-PI with David Dilcher). Curation of the Florida Museum of Natural History Paleobotanical Collection. (\$200,000)
- EAR 9506727, April 1, 1995-March 31, 1997. Paleofloral and stratigraphic analysis and Eocene-Oligocene climate change in a single continental section in north-central Oregon. (\$24,558)
- EAR-9322765, January 1, 1994-December 31, 1996: Fossil dicotyledonous woods as paleoclimatic indicators: test cases from the Tertiary of western North America. (\$120,427)
- EAR 9220079, February 1, 1993-January 31, 1996. Paleocene spread of deciduous hardwood forest in North America and Asia: megafossil and palynological correlations. (\$100,000)
- BSR-9007495, Sept. 1, 1990-August 31, 1992. Systematics of the early Oligocene Bridge Creek flora, Oregon, and implications for the derivation and expansion of broadleaved deciduous forests in the Northern Hemisphere. (\$106,362)
- EAR-8904234, June 1, 1989-November 30, 1990. Systematic affinities and biogeographic relationships of fossil floras from the Eocene Clarno Formation of Oregon. (\$30,000)
- EAR-8707523, June 15, 1987-November 30, 1989. Systematic affinities, age and biogeographic relationships of fossil floras from the Eocene Clarno Formation of Oregon. (\$85,000)
- BSR-8407841, August 1, 1984-January 31, 1987. Early history of the Juglandaceae-- A multiple organ paleobotanical investigation. (\$120,000)
- DEB 81-11-89, October 1981-March 1984. Systematics and evolutionary status of angiosperms from the Eocene of Oregon -A multiple organ investigation. (\$49,965)