

**BIBLIOGRAPHY OF  
AMERICAN PALEOBOTANY  
FOR 2000**

Paleobotanical Section  
Botanical Society of America

# Paleobotanical Section

## Botanical Society of America

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2001

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Compiled under the auspices  
of the  
Paleobotanical Section  
Botanical Society of America

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**Cover illustration:** The cover illustration honors Patrick S. Herendeen in recognition of his service as editor of the *Bibliography of American Paleobotany* for 1996-1999. Scanning electron micrograph of a staminate flower of *Antiquacupula sulcata* from the Cretaceous of central Georgia. Figure 5 in H.J. Sims, P.S. Herendeen and P.R. Crane, 1998, *International Journal of Plant Sciences* 159: 391-404. Reprinted with permission from the *International Journal of Plant Sciences*.

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**THESES AND DISSERTATIONS**

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Cressler, W.L. 1999. Site-analysis and floristics of the Late Devonian Red Hill locality, Pennsylvania, an *Archaeopteris*-dominated plant community and early tetrapod site. Unpublished Ph.D. dissertation, University of Pennsylvania, Philadelphia, PA, 156 pp.

**McClain, A.M.**

McClain, A.M. 2000. Systematics and biogeography of selected modern and fossil *Dipteronia* and *Acer* (Sapindaceae). MS Thesis, University of Florida, Gainesville.

Available online:

<http://etd.fcla.edu/etd/uf/2000/ane5960/mcclain.pdf>

**WORK IN PROGRESS**

**Ash, S.R.**

New cycadophytes from the Upper Triassic Chinle Formation in the American Southwest.

The bark of the Late Triassic *Araucarioxylon arizonicum* tree in Petrified Forest National Park, Arizona.

**Basinger, J.F.**

Late Silurian plants from Bathurst Island, Canadian High Arctic (with M. Kotyk and P. Gensel).

**Dilcher, D.L.**

An argument for the origin of heterospory in an aquatic environment (with R.K. Kar, submitted to *Acta Palaeobotanica*).

Non-Fossil, Theses and Dissertations, Work in Progress

Early angiosperms from the Lower Cretaceous of Jixi,  
eastern Heilongjiang, China (with Ge Sun, submitted to  
Review of Palaeobotany and Palyology).

Life in the end-Permian dead zone (with C.V. Looy, R.J. Twitchett, J.H.A. Van Konijnenburg-Van Cittert and H. Visscher, submitted to Proceedings, National Academy of Sciences, USA).

**Doyle, J.A.**

Integrating molecular and fossil evidence on the age of angiosperms: effects of fossil age constraints and nonparametric rate smoothing (with M.J. Sanderson and S. Magallón).

Phylogeny and evolution of "basal" angiosperms (with P.K. Endress).

Phylogeny of Myristicaceae (with H. Sauquet and A. Le Thomas).

**Dunn, M.T.**

Palynology of the Carboniferous-Permian boundary stratotype, Aidaralash Creek, Kazakhstan (to be submitted to Review of Paleobotany and Palynology).

The Middle Miocene Pickett Creek Flora: A new fossil locality from the southern Snake River Plain near Oreana, Idaho (with W. Buechler and W.C. Rember).

On Paleozoic plants from marine strata: *Hexaloba finisensia* n. gen. et. sp., a trigonocarpalean ovule from the Virgilian (upper Pennsylvanian: Gzhelian) Finis Shale of Texas, USA. (to be submitted to Journal of Paleontology; with G. Mapes and G.W. Rothwell).

**Gastaldo, R.W.**

Carboniferous of the Black Warrior Basin (with J.C. Pashin, for inclusion in Wagner, R.H. and Prins-Winkler, H., The Carboniferous of the World, Vol. 4).

**Hoffman, G.L.**

The fossil pollen taxon *Pandaniidites* Elsik: evidence for affinity to Lemnaceae (with A.R. Sweet).

**Ickert-Bond, S.M.**

*Ephedra* L. (Ephedraceae) in Ecuador, contributions from micromorphology and anatomy (for submission to Freire-Fierro, A. y Neil, D.A.-Memorias del III. Congreso Ecuatoriano de Botánica).

Vascular plant types in the Arizona State University herbarium (with D.J. Pinkava).

**Manchester, S.R.**

Fruits and seeds of *Craigia bronniei* (Malvaceae Tilioideae) and associated flower buds from the late Miocene Inden Formation, Lower Rhine Basin, Germany (with Z. Kvacek, R. Zetter and M. Pinggen, for submission to Review of Palaeobotany and Palynology).

Leaves and fruits of *Davidia* (Cornales) from the Paleocene of North America and eastern Asia

Leaves and fruits of *Celtis aspera* (Newberry) comb. nov. (Celtidaceae) from the Paleocene of North America and Asia.

**Magallón, S**

Absolute diversification rates in angiosperm clades (with M.J. Sanderson, submitted to Evolution).

**McElwain, J.C.**

Evolution of Plants. (with K. Willis, in press at Oxford University Press: Oxford).

High sensitivity of atmospheric CO<sub>2</sub> to climatic cooling and thermohaline circulation during the Younger Dryas stadial (with D.J. Beerling and F.E. Mayle, submitted to Journal of Quaternary Science).

A review of vegetation dynamics and environmental change spanning the Triassic-Jurassic mass extinction boundary (with D.J. Beerling, and M. Popa, invited paper for Earth Science Reviews).

**Nixon, K.C.**

Taxonomía, cladística y la construcción de hipótesis filogenéticas. Proceedings of the Symposium of the 50<sup>th</sup> Anniversary of the Instituto de Biología, Universidad Autónoma de México (with H. Ochoterena-Booth).

**Rothwell, G.W.**

*Pachytosta hexaloba*: a new species of *Pachytosta* from the Virgilian (Gzhelian) Finis Shale of Texas, USA (with M.T. Dunn and G. Mapes).

Hanskerpiaceae fam. nov., with a review and reevaluation of Paleozoic walchian conifers (with G.R. Hernandez-Castillo and G. Mapes).

**Scheckler, S.E.**

*Langoxylon asterochlaenoideum* Stockmans: anatomy and relationships of a fern-like plant from the Middle Devonian of Belgium (with J.E. Skog, and H.P. Banks, submitted to International Journal of Plant Sciences). Araucarian cones from Japan and North America (with W.D. Tidwell and H. Nishida).

Eco-physiology of the Early Carboniferous progymnosperm tree *Protopitys buchiana* from wood anatomy (with J. Galtier, submitted to Annals of Botany).

**Smith, U.R.**

Permineralized fossil fruits of *Palaeoaster*, a Late Cretaceous genus of Papaveraceae (accepted pending revision in International Journal of Plant Sciences).

**Stockey, R.A.**

Permineralized pinaceous cones from Vancouver Island, British Columbia (with S.Y. Smith).

*Haemanthophyllum* leaves from the Upper Cretaceous St. Mary River Formation of southern Alberta (with M.G. Riley).

An aquatic dicot with floating rosettes of leaves from the Upper Cretaceous St. Mary River Formation of southern Alberta (with M.G. Riley).

A reconstruction of *Decodon allenbyensis* from the Middle Eocene Princeton chert of British Columbia (with S.A. Little).

Cercidiphyllaceous infructescences from the Upper Cretaceous Horseshoe Canyon Formation of Alberta (with R. Serbet).

Annonaceous seeds from the Middle Eocene Appian Way locality, Vancouver Island (with S.A. Little and G. Beard).

Fruits and seeds from the Appian Way Locality, Vancouver Island.

Cycadeoidalean fructifications from Vancouver Island (with Gar Rothwell).

**Taylor, W.A.**

Studies in cryptospore ultrastructure: variability in the tetrad genus *Tetraedraletes* and type material of *Dyadospora murusattenuata* from central Pennsylvania. (submitted to Review of Palaeobotany and Palynology)

Studies in Cambrian cryptospores (with Paul Strother)

**Traverse, A.**

Paleoecological studies with the palynoflorules at the Devonian Red Hill locality, near Renovo, Pennsylvania.

Palynostratigraphic studies of Permian/Carboniferous floras from New Mexico and surrounding areas.

Cooperative research comparing Traverse's weighing method for per gram measurements of palynomorphs with the conventional *Lycopodium* "stick" technique (with Francine McCarthy).

**Upchurch, G.R., Jr.**

Simulating terrestrial biosphere response to the terminal Cretaceous impact event (with B.H. Lomax, D.J. Beerling and B.L. Otto-Bliesner).

Coordinated isotopic and palaeobotanical evidence for the recovery of terrestrial ecosystems ahead of marine primary production following a biotic crisis at the Cretaceous-Tertiary boundary. (with D.L. Beerling, B.L. Lomax, D.J. Nichols, C.L. Pillmore, L.L. Handley, C.M. Scrimgeour and C. Yoder).

**Wheeler, E.A.**

Fossil dicotyledonous woods of the Clarno Nut Beds (with Steve Manchester).

Fossil woods of Big Bend National Park (with Tom Lehman).

