1972
BIBLIOGRAPHY
OF AMERICAN
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Bibliography of American Paleobotany 1972

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

by

Cover: Suggested reconstruction of *Medullosa noei* bearing reproductive structures. Redrawn from Stewart and Delevoryas, 1956.

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Personalia


Elso S. Barghoorn was awarded the Charles Doolittle Walcott Medal of the National Academy Sciences in April 1972 in recognition of his research in Precambrian paleontology.

Herman F. Becker, by invitation of the Brazilian Academy of Science, Rio de Janeiro, Brazil, was on a five week fossil collecting expedition to Minas Gerais during the summer of 1972.

Wayne W. Brideaux is concentrating on the palynology of the Mackenzie Delta region, N.W.T., especially on Upper Jurassic-Lower Cretaceous dinoflagellates and acritarchs. Wayne was elected councillor for the 1972-73 term of the American Association of Stratigraphic Palynologists and also was appointed ballot committee chairman for 1972-73.

James E. Canright presented a paper on the Devonian flora of Arizona in the symposium " Advances en los Estudios Paleobotanicos" at the First Latin American Congress of Botany held in Mexico City. This symposium was originated and chaired by Sergio Archangelsky of Argentina. James stepped down as chairman of the Botany Department of Arizona State University after eight years.

David Dilcher was on sabbatical leave as a Guggenheim Fellow during the 1972-73 academic year. He spent two months in Germany and four months in London working on SEM techniques applied to fossil angiosperm cuticles. He returned to the U.S. to continue his sabbatical at Indiana University.
Wayne Fry is Editor-in-Chief of the Journal of Paleontology. Wayne was on a plant-fossil collecting trip in southeast Asia during August, September and October of 1972. Included on the trip, were northern Japan, Thailand, Indonesia and the Philippines.

D. C. McGregor will be in Bolivia from January 1973 to December 1973 with the Paleontology/Palynology Section of the Centro de Tecnologia Petrolena in Santa Cruz. This is a technical assistance posting with the United Nations Development Programme. On about January 1, 1974 he will return to the Geological Survey of Canada in Ottawa.

Lawrence Matten spent the academic year (1972-73) working with W. S. Lacey at University College of North Wales, Bangor.

Charles B. Read retired in January 1972, after forty-two years with the U.S. Geological Survey.

Charles J. Smiley is planning on a sabbatical program (1973-74) in Japan, Australia and at Berkeley.

Thomas N. Taylor participated in the symposium "The application of electron microscopy to palaeontology" held in association with the fifth European Congress on Electron Microscopy in Manchester, England.

Work in Progress

Andrews, George W.
Marine Miocene diatoms from the Choptank Formation, Calvert County, Maryland.

Andrews, Henry N.
A study of several fertile species of *Psilophyton* from Maine (with Andrew E. Kasper and William Forbes).

Arnold, Chester A.
Pennsylvanian flora of Alabama.
Pennsylvanian flora of northeastern Ohio.
Pennsylvanian flora of Michigan.
A silicified cyatheaceous fern from Wyoming.

Ash, Sidney R.
Continued work on Upper Triassic plants of the southwestern United States and adjoining areas.

Baxter, Robert W.
A new genus of fertile fern fronds from the Middle Pennsylvanian Kansas coal balls.
A new genus, based on a small plant consisting of a basal rhizomorph connected to a leafy stem.

Belling, Alice
Bergad, Robert D.

Comparative ultrastructural morphology of fossil and living megaspores.

Blazey, Edward B.

Fossil flora of central Arizona - Upper Paleozoic.

Boneham, Roger F.

An environmental study of Howard County, Indiana.

Brack, Sheila D.

Additional observations on Dolerotheca from the Pennsylvanian of North America.

The Pennsylvanian flora of Murphysboro, Illinois (with Rothwell, Good, Millay and Jennings).

Pollen of a supposed pteridosperm fructification described from the Pennsylvanian of Ohio.

Dissertation research: Lycopod fructifications from the Pennsylvanian of North America.

Brideaux, Wayne W.

Palynology of two subsurface Lower Cretaceous sections, eastern margin, Richardson Mountains, District of Mackenzie.

Palynology of the Lower Colorado Group. II. Miospores and addenda.

Palynology of Lower Cretaceous rocks on Horton River, N.W.T. (with D. J. McIntyre).
Canright, James E.

Additions to the Devonian flora of Arizona.

Palynology of the Deer Creek and Pinedale Coals of Upper Cretaceous age from central Arizona (with Fred Carter).

Comparative morphology of annonaceous pollen from southeast Asia (with May Chen).

Clendening, John A.

Palynological evidence for a Pennsylvanian age assignment of the Dunkard Group in the Appalachian Basin: Part II.

Delevoryas, Theodore

Jurassic fossil plants from Oaxaca, Mexico.

Triassic plants from North Carolina.

Dennis, Robert L.

A new petrified medullosan pollen organ.

A new petrified fern from the Clarno sherts of Oregon.

Dilcher, David L.

Palynology and age of clays exposed in Lawrence clay pit, Henry County, Tennessee (with William Elsik).
An approach to the study of angiosperm leaf remains - a review paper.

Monocotyledons from the Middle Eocene deposits in southeastern North America.

Fagaceae and Proteaceae leaf remains in Middle Eocene deposits of southeastern North America.

Dole, Robert M.

Restudy of some Connecticut peat bogs, palynologically.

Dorf, Erling

Eocene floras of the Yellowstone Park region, Wyoming.

A mid-Cretaceous flora from the Labrador iron ore region.

A late Paleocene flora from the Bighorn Basin, Wyoming (with Leo Hickey).

Drugg, Warren S.

Dinoflagellate zonation of the Jurassic of England, Normandy and Germany.

Eggert, Donald A.

The sporangium of Horneophyton.

Development of lobing in multi-lobed Isoetes (with E. Karrfalt).

The structure and relationships of Cyathotrachus (with M. A. Millay).
Nature of the phloem of *Astromyelon* (with M. L. Wilson).

Nature of the phloem of *Lepidodendron* (with N. Kanemoto).

Upper Mississippian petrified *Senftenbergia* (with J. R. Jennings).

**Felix, Charles J.**

Palynology of the Eureka Sound Formation, Arctic Canada (with Patricia Burbridge).

Palynology of the Upper Cretaceous Kanguk Formation, Arctic Canada (with Patricia Burbridge).

Palynology of the Triassic Heiberg Formation, Arctic Canada (with Patricia Burbridge).

**Fry, Wayne L.**

Jurassic of western North America.

Miocene of central British Columbia, Canada.
Gensel, Patricia G.

Studies of Lower and Middle Devonian plants from New Brunswick and Quebec.

An apparently heterosporous plant from the Middle Devonian of Chaleur Bay, New Brunswick (with H. N. Andrews and William Forbes).

Good, Charles W.

The anatomy and morphology of several taxa of small Sphenophyllum shoots and leaves.

Several taxa of new structurally preserved calamitean cones.

Hankins, Frank W.

An atlas of wood anatomy (with A. C. Barefoot).

Hevly, R. H.

Macroscopic plant materials from Stanton's Cave, Arizona.

A bio-geological synthesis of Quaternary southwestern paleoclimates (with T. N. V. Karlstrun and J. P. Schafer).

Hueber, Francis M.

Gaspé, Quebec, Lower Devonian flora.

Devonian plants of Burdekin Basin, Queensland, Australia.
Miocene woods from Lee Creek Mine, North Carolina.

Cretaceous woods from Potomac Group of Washington, D.C. area.

Jansonius, Jan

File of generic names of fossil spores and pollen with annotations, generic diagnosis emendations, etc.

Jarzen, David M.

Evolution of the Cretaceous terrestrial palynological flora in western Canada (with G. Norris).

Ph.D. thesis: Evolutionary and paleoecological significance of Albian to Campanian angiosperm pollen from the Amoco B-1 Youngstown borehole, southern Alberta.

Kasper, Andrew E.

Study of several new fertile species of Psilophyton from northern Maine.

The study of Kaulangiophyton-like plants from the north shore of New Brunswick, Canada.

Kosanke, Robert M.

Palynological studies of the coals of the Lee Formation of eastern Kentucky.
Kremp, G. O. W.

Palynologic aspects concerning the plant geographic provinces of the Late Paleozoic (with E. J. Nieves and N. Trindade).

The earliest occurrences of triradiate dicotyledonous pollen (with R. E. Jones).

Geographic and stratigraphic distribution of Aquilapollenites and Protoacidites.

Le Blanc, Arthur E.

Palynologic biostratigraphy of the Mesozoic and Cenozoic of Canada.

Occasional palynologic work in Paleozoic.

Leffingwell, Harry A.

Preparing fossil palynomorphs for scanning electron microscopy.

Leopold, Estella B.

Paper on the Plio-Pleistocene boundary.

A review of European and American paleobotanical records.

Some new data from Idaho.

Leppik, E. E.

Evolutionary interactions between rhododendrons and their heteroecious rust fungi in the light of paleontological data.
Lohrenzegel, C. Frederick, II

Eocene algae of central Utah.
North Horn (Upper Cretaceous-Lower Tertiary) palynomorphs, Emery County, Utah.

MacGinitie, Harry D.

Study of two Eocene floras from northeastern California: the Lower Cedarville flora and the Susanville flora.

Identification of the Wind River (Early Eocene) Wyoming flora (with Leo Hickey).

McGregor, D. C.

Devonian spores of the Canadian Arctic.
Devonian palynomorphs of Moose River basin, northern Ontario and lower Restigouche River, Quebec and New Brunswick.

Mamay, Sergius H.

Upper Paleozoic cycads, southwestern U.S.
American Gigantopteridaceae.
New gingkophyte from the Madera Formation, New Mexico.

General studies of Permian (Wolfcampian and Leonardian) floras, southwestern U.S.
Matten, Lawrence C.

The Cairo Flora (Givetian) from eastern New York. *Rhacophyton*, *Triloboxylon* and *Cladoxylon*.

Techniques for working with pyritized plant petrifactions.

A lower Carboniferous flora from the Menae Straits, Caernarvonshire, Wales (with W. S. Lacey).

Cretaceous woods from southern Illinois.

The genus *Kalymma*.

Miller, Charles N.

A new *Pityostrobus* from the Late Cretaceous of Delaware.

A new *Pinus* from the Eocene of Washington.

A revision of *Abietites ellipticus* and *A. macrocephalus* from the Early Cretaceous of California.

An unidentified cone from the Eocene of Virginia.

An unidentified cone from the Potomac Group of Virginia.

A new *Pinus* from the Miocene of Martha's Vineyard.

A new *Pityostrobus* from the Late Cretaceous of Martha's Vineyard.

A new *Pseudoaraucaria* from the Late Cretaceous of Martha's Vineyard.

Pyritized axes of unidentified cones from the Late Cretaceous of New Jersey.
Miller, Norton G.

Studies of Late Pleistocene moss assemblages from Michigan and the Missouri Ozarks.

A synthesis of North American Pleistocene bryophyte records.

Mott, R. J.

Palynological study of a lake sediment profile from southern Ontario.

Absolute pollen frequency diagrams from southwestern New Brunswick.

Palynological studies in southeastern Quebec.

Oehler, John H.

Thermal alteration of blue-green algae and blue-green algal chlorophyll (with Z. Aizenshtat and J. W. Schopf).

Oltz, Donald F.

Three studies involving Late Cretaceous palynology.

Studies on mathematical applications in palynology studies.

Packard, Patricia L.

Lowest Pliocene flora of southern Idaho-Oregon border.
Peppers, Russel A.

Pennsylvanian coal swamp floras of the Illinois Basin.

Palynology of coals in the Abbott and Spoon Formations of the Illinois Basin.


Phillips, Tom L.

Analysis of Pennsylvanian coal swamp floras in the Illinois Basin.

Rothwell, Gar W.

Vegetative structures of the pteridosperm family Callistophytaceae.

Middle Pennsylvanian specimens of the seed fern ovule, Callospermarion.

Rooting structures of the Carboniferous medullosan pteridosperms (with K. L. Whiteside).

Schabilion, Jeffrey

Cordaitean ovules of North America, their anatomy and stratigraphic significance.

Details of the anatomy of Cycadeoidea dacotensis and C. mcbridei.

Iowa coal ball flora.
Scheckler, Stephen E.

Analysis of systematic characters of things that might be called Devonian ferns.


Schofield, Eileen K.

Monograph of Kerguelen pollen studies (with S. B. Young).

Monograph of Galapagos pollen studies (with P. A. Colinvaux).

Pollen morphology of Waltheria from the Galapagos.

Schorn, Howard E.


Sharp, Aaron J.

Correlating plant distribution with continental drift data.

Skog, Judith E.

The anatomy of Rhacophyton ceratangium.

Smiley, Charles J.

Alaskan Cretaceous floras (continuing).

Cretaceous floras from Yukon Territory.

Cretaceous plants in drill core sections, near British Columbia-Alberta border.

Stidd, Benton

The frond of Heterangiun (with Gary Shadle).

Taylor, Thomas N.

Transmission and scanning electron microscopy of Paleozoic pollen and spores.

Studies of Carboniferous seed plants.

 Traverse, Alfred

Black Sea surface sediment palynology.

Palynology of Eastern Triassic basins.

Tschudy, Robert H.

Palynological characteristics of the Berger, Saline and Detonti Formations of Arkansas.

Ward, Jerome

Some preliminary notes on the distribution of the Araucariaceae through time and space.

Wilson, L. R.

New species of Corisaccites from the Gearyan Series of Kansas.

Palynoflora of the Eskridge Shale (Pennsylvanian) of Kansas.

Wellington Flora (Permian) of Oklahoma and Kansas.

Palynoflora of the Tucumcari Formation (Cretaceous) of New Mexico.

Wood, Joseph M.

Devonian megaspores.
Andrews, George W.


Arnold, C. A.

Fossil plants and continental drift. First Birbal Sahni Mem. Lecture, to be published by the Sahni Institute.

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Bartlett, Alexandra S.

(With E. S. Barghoorn) Phytogeographic history of the Isthmus of Panama during the past 12,000 years. *Veget. and Veg. Hist. in Northern Latin America*. Alan Graham, ed.

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Spore morphology of the family Polypodiaceae in northeastern North America. *Grana*.

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(With W. R. Masters) Silurian chitinozoa of Indiana. II. The Waldron Shale and Osgood member of the Salamonie Dolomite. Amer. Mid. Nat.

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Dilcher, David L.

A challenge to personal attitudes in our population growth. Amer. High School Biol. Teacher.


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A new plant from the Lower Mississippian of southwestern Virginia. Palaeontographica.

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Psllitriletes, a new name for fossil megaspores hitherto invalidly named Thomsonia (with Dan Nicolson).
Hevly, R. H.

Hickey, Leo J.

Jansonius, Jan
Articles 41 and 42 of the I.C.B.N. and fossil spores. A proposal. Taxon.

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Lower and Middle Devonian spores of eastern Gaspé, Canada. Paleontographica.


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May, F. E.

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Postglacial history and enviorments in southwestern New Brunswick. Environment Changes in the Maritimes.

Phillips, Tom L.


Romans, Robert

A brief hisotry of paleobotany in Arizona. Plateau.

Scheckler, Stephen E.

(With Harlan P. Banks) Periderm in some Devonian plants. Prof. V. Puri Commemoration volume.

Schmid, Rudolf


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(With S. B. Young) Pollen evidence for Late Quaternary climate changes on Kerguelen Islands. Science.

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A unique and threatened flora. Garden Jour.

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Stanley, Edward A.


Stidd, Benton M.

Stone, Jerry L.

Problems with the name Platypodium. Taxon.

Taylor, Thomas N.


Ting, Francis T. C.

Petrology and palynology of a silicified sapropelic peat from a Paleocene lignite bed in North Dakota. Geoscience and Man.

Traverse, Alfred

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Depositional environments of the lignite-bearing
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Speciation in Psilophyton from northern Maine.

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A comparative study of nodal anatomy in Peltastrobus reedae and Sphenophyllum plurifoliatum. Rev.
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Coal ball fructifications and their spores. Abstracts South-Central Sect., Geol. Soc. Amer. 4: 284.

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Structurally preserved phloem zone tissue in Rhynia. Amer. J. Bot. 59(4): 373-376, 8 figs.

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The search for plant fossils in the Chinle Formation. ibid. 47: 43-58.

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*Marcouia* gen. nov., a problematical plant from the Late Triassic of the southwestern United States. ibid. 15: 423-429, pl. 80.

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