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---. Fossil sporocarps of the genus Protosubulina Dawson, with special reference to P. fuscata (Dawson) comb. nov. Svensk Botanik Tidskrift 48: 292-300.
(continued on inside back cover)
Bibliography of
American Paleobotany
for 1977

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

by
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Paleontology and Stratigraphy Branch
U. S. Geological Survey
Washington, D. C.
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Officers of the Paleobotanical Section for 1977

Chairman: Stephen Schekler
Department of Biology
Virginia Polytechnic Institute & State University
Blacksburg, Virginia 24061

Secretary-Treasurer: Charles N. Miller, Jr.
Department of Botany
University of Montana
Missoula, Montana 59812

Representative to the American Journal of Botany: David L. Dilcher
Department of Plant Sciences
Indiana University
Bloomington, Indiana 47401
PERSONALIA

The new business address of Sergio Archangelsky is CIRgeo, Unidad de Investigacion Paleobotanica y Palinologia, Velajo 847 (1414) Buenos Aires. Sergio was elected vice president of the International Paleontological Association.

Plaques were presented during the Paleobotanical Luncheon to Drs. J. M. Schopf, C. A. Arnold, H. N. Andrews and H. F. Becker for their outstanding contributions to the Paleobotanical Section. Each of them asked Dave Dilcher to extend to the entire Paleobotanical Section membership their appreciation and thanks for this recognition by their close associates in Paleobotany.

Harlan P. Banks was appointed to the chair entitled Liberty Hyde Bailey Professor of Botany.

George L. Batchelder was invited to initiate a palynology and Pleistocene ecology studies program at the University of El Salvador. George completed the assignment and will return for a full semester of teaching and research next January.

R. William Baxendale is presently spending a post-doctoral year in England (University of Reading) studying the Yorkshire Jurassic flora under the direction of Professor Tom M. Harris and Dr. Peter Barnard.


David L. Dilcher was elected president of the newly formed International Association of Angiosperm Paleobotany. David is a member of the committee on Collections and Collecting for the Paleontological Society.

Gary Dolph is editor of the Newsletter of the International Association for Angiosperm Paleobotany. Gary was elected to a 5 year term on research grants committee of the Indiana Academy of Science.

James A. Doyle and Leo J. Hickey were awarded the Henry Allan Gleason Award for the work on re-interpreting the early fossil record of angiosperms.

Thomas R. Fairchild calls to the attention of any would-be South American travelers to the nucleus of paleobotanists at the Instituto de Geoscienias, Universidade de São Paulo (3 paleo-botanist faculty or staff, 1 master's student, 1 palynologist, 1 Precambrian paleobiologist).

Charles J. Felix attended the International Palynological Colloquium, Leon, Spain, September, 1977.
W. H. Gillespie is still teaching paleobotany for the West Virginia University and is collecting and studying plant fossils in West Virginia for the U.S.G.S. Coal Resources Branch. Bill is revising and expanding the little field guide to West Virginia compressions and hopes it will be released in 1978. Bill is more or less serving as unofficial secretary for the recently organized North American Working Group on Carboniferous Compression floras. This group is developing a slide exchange program that others might be interested in.

Alan Graham will participate as a symposium speaker at the International Legume Conference, Royal Botanic Gardens, Kew, this summer. Alan will review pollen morphology in relation to tribal classification in the Caesalpinioideae. He will then travel to Amsterdam to examine Miocene palynomorphs from Argentina in Thomas van der Hammen's laboratory.

John Hall spent two months at the University of Rhodesia collecting and studying leaf and stem development in Salvina.

Sheila D. Hanes received the Alfred P. Sloan foundation grant (Southern Regional Education Board) 1977.

David M. Jarzen reports that the Palynology Laboratory of the National Museum of Natural Sciences, Ottawa, Canada, has established a respectable reference collection of extant pollen and spores. Many of the taxa within the collection are available for exchange on a one-to-one prepared slide exchange. Persons wishing to exchange material should write to D. M. Jarzen for the most recent "Catalogue of the Pollen and Spore Exchange Collection."

Paul C. Lyons is on leave of absence from Boston College-Weston Observatory to U.S. Geological Survey, Coal Branch, 956 National Center, Reston, VA 22092.

Steven R. Manchester will direct an 8-week field paleobotany research team, June-August, 1978 in central Oregon. The program is jointly sponsored by NSF and the Oregon Museum of Science and Industry for highly motivated high school students.

Dr. C. McGregor attended a two-week field conference of the IUGS Subcommission on Devonian Stratigraphy, in the Barrandian region of Czechoslovakia in October, 1977.

Karl J. Niklas was appointed Associate Editor for "Monographs in Evolution," Chicago University Press.

Norman Norton is currently chairman of the Department of Biology at Ball State University. Norman is also chairman of the Board of Trustees of the American Association of Stratigraphic Palynologists Foundation.
After spending three years working in the Baas Becking Geobiological Laboratory (C.S.I.R.O.) in Canberra, Australia, John and Dorothy Oehler have now joined the Exploration Research Division of Continental Oil Company where they work primarily in organic geochemistry.

Oscar Rösler, by invitation of the Director, Dr. K. R. Surange, visited the Birbal Sahni Institute of Paleobotany, Lucknow, in February, 1977, where he spoke to the staff on the Brazilian Gondwanic floras and paleophytogeographic implications. Oscar also acted as coordinator of the "I. Meeting of Paleobotanists and Palynologists" in Brazil, Sao Paulo (Dec. 8-9th, 1977). Twenty-two papers were presented ranging from neopalynology to fossils of the Precambrian. Proceedings volume will be available after about October, 1978. Oscar is organizing the Symposium "Phytogeography at the end of the Carboniferous" as part of the IX Intern. Congr. of Carboniferous Stratigraphy and Geology, Urbana, May, 1979. Further information may be obtained from O. Rösler.

In 1977 Bill Schopf received a "Distinguished Teaching Award" from UCLA, was elected Treasurer of the International Society for the Study of the Origin of Life and was awarded the Alan T. Waterman Medal by the U. S. National Science Foundation.

Judith Skog was promoted to Associate Professor in Biology with tenure in September, 1977.

W. N. Stewart will retire from his position at the University of Alberta as of September 1, 1978. Mrs. Stewart and he will be moving to Kootenay Bay, British Columbia, P. O. Box 42, ROB 1X0. Wilson is particularly interested in keeping on the mailing lists of paleobotanists everywhere as he will continue the preparation of a paleobotany text after moving from Edmonton.

Ruth A. Stockey completed her Ph.D. in 1977 at the Ohio State University. Ruth took a position as Assistant Professor of Geology at Auburn University teaching paleobotany, historical and physical geology.

Bruce H. Tiffney is now employed as Assistant Professor and Curator of the Paleobotanical Collections at Yale University. Bruce is looking forward to adding to the collections and carrying the paleobotanical tradition at Yale forward.

Alfred Traverse was elected to a three year term as President of the International Commission for Palynology.

L. R. Wilson retired from teaching at the University of Oklahoma in June, 1977 but is continuing research in palynology and paleobotany. The University has furnished a new office and built a new laboratory in the Stowval Museum of Science and History for L. R. Wilson.

From November of 1976 to May of 1977 Michael Zavada had been working at the Geosloiski Zavod in Skopje, Yugoslavia on the palynology of some Senonian deposits. The research was funded by the Fulbright Commission.
Andrews, George W.

Late Miocene diatoms from Petersburg, Virginia.

Morphologic variations in the Miocene diatom Actinocyclus heliopelta Grunow.


Archangelsky, Sergio.

Permian palynology of the Chaco-Parana basin (subsurface).

Lower Cretaceous palynology of S. W. Chubut, subsurface.

Ash, S. R.

Upper Triassic floras of the southwestern United States.

An Early Triassic lycopod cone from Australia.

An Early Triassic flora from New South Wales, Australia.

Baschnagel, R. A.

Research on Middle Devonian algae and microfossils.

Basinger, James F.

Metasequoia, ferns and fruits from the Allenby Formation (Eocene) of British Columbia.

Basson, P. W.

Preparation of a history, catalogue and annotated bibliography of the benthic marine algae of the Indian Ocean.

Batchelder, George L.

Pollen analysis of Late Pleistocene and Holocene sediments from:
1. Montezuma Well, Arizona, with fossil molluscs.
2. White Mountains, Arizona.
3. Crooked Meadow, Mono County, California.
4. Klamath Mountains, northern California.
5. Walker Lake, Coconino County, Arizona.

Bexendale, R. William.

Coprolites from North American coal balls.
Beck, C. E.

Arrangement and morphology of fertile appendages of *Archeopteris*.

Architecture of the primary vascular system of *Callixylon*.

(with Kathleen Coy). Variation in tracheary pitting in *Callixylon*.

(with R. Schmid and G. Rothwell). Morphology and evolution for the primary vascular system in seed plants.

Bernardes de Oliveira, M. E. C.

Paleoambiente deposicional da Tofoflora Irupua, Formação Rio Bonito, na região de Cricuima, S. C.

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Canright, James E.

Devonian microfloras of Arizona.

Christopher, R. A.

Normapolles and triporate pollen assemblages from the Raritan and Magothy Formations (Upper Cretaceous) of New Jersey.

Late Cretaceous palynolomorphs from the Cape Fear Formation of North Carolina.

Palynology of the Eagle Ford Group (Upper Cretaceous) of Texas.

Age and depositional environments of the Eutaw Formation of eastern Alabama and western Georgia.

Crepet, W. L.

Studies of Middle Eocene inflorescences of the Fagaceae.

(with D. L. Dilcher). Further studies of the *Alfaroa-Oreomunnea-Engelhardtia* complex of the Juglandaceae.

(with Tod F. Stuessy). Re-investigation of *Viguiera cronquistii*: a putative composite head.

Daghlian, Charles P.

A study of variation of foliar characters in a Lower Eocene population of coryphoid palms.
A new microsporangiate *Cordaitanthus* from the Lower Pennsylvanian of Kentucky.

Study of Lower Eocene coryphoid palm fruits and *Canna*-like leaves.

**Dilcher, D. L.**

Middle Cretaceous reproductive material of angiosperms.

(with H. Reynolds and K. Longstreth). Middle Cretaceous flora of Russell Co., Kansas.

(with W. L. Crepet). Juglandaceae leaflets from the Middle Eocene.


**DiMichele, William A.**

Permineralized *Lepidophloios* from North America coals—taxonomy, anatomy, and paleoecology.

The paleoecology of arborescent lycopsids in coal swamp environments.

**Dolph, Gary E.**

Variation in leaf size with respect to climate in the western hemisphere and Costa Rica.

Foliar physiognomy of the Carolinas.

Analysis of the dispersed cuticle from the Lamkin clay pit, Kentucky.

**Doran, Jeffrey B.**

A new species of *Psilophyton* from eastern Canada.

**Dorf, Erling.**

Revisions in identifications of taxa in the Yellowstone Park Eocene floras.

Middle Cretaceous plants from Labrador.

(with Leo Hickey). Paleocene floras from the Bighorn Basin, Montana and Wyoming.
Doyle, James A.

Morphology, ultrastructure, stratigraphy and evolutionary significance of angiosperm pollen from the Potomac Group (Cretaceous).


Eckenwalder, James E.

The Tertiary record of sections of *Populus* in western North America.

Leaf heterophyllly as a source of taxonomic confusion in the Tertiary record of *Populus* in western North America.

Systematics and evolution of West Indian *Zamia* (Cycadales).

Eggert, D. A.

Studies of secondary phloem in fossil seed plants of the Carboniferous.

Anatomy of the secondary xylem of *Sphenophyllum*.

Morphology and anatomy of *Rhynia* vegetative axes.

An *Etapteris*-like frond with *Corynepteris*-like fertile parts.

Relationships of the vascular system to the internal organization in *Dolerotheca*.

Fairchild, T. R.

Microfossils and stromatolites in southern Brazilian Precambrian rocks.

(with A. C. Rocha-Campos and G. Amaral). Biogenetic microstructures from the 1.7 B.V.-old Rio Fresco anthracite, Brazilian Amazon.

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Fittipaldi, Fernaldo C.

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Fredericksen, N. O.
Eocene sporomorphs from Massachusetts, South Carolina, Virginia, Wyoming, California.

Fritz, W. J.
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Gensel, P. G.
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In situ spore studies.

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Compression flora associated with the Pittsburgh Coal of Pennsylvania and West Virginia.
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The Carboniferous floras of the eastern United States--development sequences and history of study. (Invited for Botanical Review).
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Good, Charles W.
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Hanes, Sheila D.

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Microfossils from Florida peat deposits.
Pityogramma species—spore morphology.

Hartman, Christine M.

Wall structure of tracheids of selected Devonian and Carboniferous plants.
Oligocene pine cone.

Hebda, R. J.

Palynology of cores from the vicinity of the Lamanai Harbour Archeological site in northwestern Belize, Central America.


Hickey, Leo J.

Floral changes at the Cretaceous-Tertiary boundary.
Angiosperm phylogeny using insights from the fossil record.
Leaf ranking in the dicotyledons.

Jarzen, David M.

Fossil spore evidence of horned liverworts in the Cretaceous of North America.

Aquatic and marsh inhabiting vascular plants from the Paleocene of Saskatchewan.

Survey of pollen morphology of several angiosperm families including Gunneraceae, Malvaceae, Palmae, and Araceae.
Jennings, James R.

Upper Mississippian plants of North America.

Biostratigraphy and floristics of Lower Pennsylvanian plants of the Illinois Basin.

Pennsylvanian plants from the Rocky Mountain region.

Jones, Jay H.

A flacourtiaceous wood from the Middle Eocene of Arkansas.

The Fagaceae of the Claiborne Formation of Kentucky and Tennessee.

Kosanke, Robert M.

Palynology of the Pennsylvanian Stratotype Section of West Virginia and adjacent areas.

Kremp, C. O. W.

The impact of paleobotany and palynology on the stratigraphy of the Permian and the Pennsylvanian–Permian boundary world wide.

The first appearance of tricolpate dicotyledonous pollen, world wide.

Additional implemented references to the palynology of the Permian and the Triassic.

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Implemented references to the Upper Cretaceous palynological literature.

LaPasha, C. A.

Study of the conifer remains from the Kootenai Formation of Great Falls, Montana.

Pyritic cones from the Upper Cretaceous of New Jersey.

Study of Lower Cretaceous silicified woods from the Puyango River Valley, Ecuador, South America.

Leary, Richard.

Continued research on the Early Pennsylvanian floras and geology of the western margin of the Eastern Interior (Illinois Basin).
LeBlanc, Arthur E.

Paleozoic palynology of Oklahoma and the Williston Basin.
Mesozoic palynology of the North Sea.
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Leisman, Gilbert A.

Hamilton quarry flora.
(with Tom L. Phillips). Achlamycocarpus varius cones.
(with Benton M. Stidd). Sporangiostrobus vegetative data.
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Mamay, S. H.

Manzano ginkgophytes.
General studies, flora of Permian rocks of southwestern U. S.
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Manchester, Steven.

Analysis of fossil wood, leaves and fruits of the Juglandaceae from an Eocene deposit in the Clarno Formation of Oregon.

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Matten, Lawrence C.

Anatomy and morphology of Aneurophyton germanicum.

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(with T. L. Phillips). Anatomy of 

May, Bruce I.

Working on Upper Devonian-Lower Carboniferous flora of southern Ireland. Now completing a study on a plant with lyginiopterid affinities found in that flora.

McGregor, D. C.

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Melchior, Robert C.

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Millay, Michael A.

Paleozoic marattialean fern studies.

Review of Paleozoic seed fern pollen organs.

Miller, Charles N.

Miocene cones from Maryland.

Miocene cones from California.

Late Cretaceous cone axes from Cliffwood, New Jersey.

Early Cretaceous Kootenai flora of Montana.

Mott, R. J.

(with L. D. Farley-Gill). A Late Quaternary pollen profile from Woodstock, Ontario.

Mussa, Diana.

On fossil woods from Permian of Parana Basin.
Norton, Norman.

Palynology of the Whitewater Formation, southern Indiana.
Palynology of Cretaceous sediments from Leg 40, Deep Sea Drilling Program (West Africa).
Palynology of the No. 7 coal, Pennsylvanian, western Indiana.

Oehler, John and Dorothy.

Interpretation of a new algal microflora from a late Precambrian evaporite deposit (Gillen Member, Bitter Springs Formation of Australia).
Study of a Late Precambrian microflora from the Smithton Dolomite of Tasmania.
Ultrastructure studies of the Triassic cycad, Lysoxylon grigsbyi.

Peppers, R. A.

Palynology and stratigraphy of coals in the Spoon and Abbott Formations of Illinois and equivalent strata in western Kentucky and Indiana.
Development of major plant groups in coals of the Spoon and Abbott Formations as interpreted from palynological data.
Spore ranges in Lower Pennsylvanian strata of the Illinois Basin.

Pfefferkorn, H. W.

(with W. H. Gillespie). Megafloras of the Pennsylvanian System Stratotype.
(with M. C. Thomson). Biofacies and paleoecology of compression floras of the Pennsylvanian.
(with D. A. Resnik). The genus Odontopteris in North America.
(with M. H. Scheihing). The genus Neuropteris in the Stratotype area.

Phillips, Arthur M., III.

Late Pleistocene and Holocene plant communities and chronology in the Mohave Desert of northwestern Arizona.

Phillips, Tom L.

Quantitative analysis of Pennsylvanian swamp vegetation in relation to coal.
Retallack, C. J.

Triassic floras and rock facies of New Zealand.

Assorted North American palaeosols.

Robison, C. R.

The comparative anatomy of fossil conifers from the Upper Cretaceous of Martha's Vineyard Island, Massachusetts.

Coniferous cones, twigs, dwarf shoots, and needle leaves from the Lower Cretaceous of Maryland.

*Piceites cretaceus* Brown from the Cretaceous of Maryland.

A paleontological reconnaissance of the coal fields of southeastern Oklahoma.

Rösler, Oscar.

Brazilian glossopterids—a review.

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A survey of the cuticle of the Annonaceae and a revision of the annonaceous leaves from the Middle Eocene of southeastern North America.

Rothwell, Car W.

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Primary vascular architecture of fossil gymnosperms.

Schopf, J. M.

Work on plants in Antarctic permineralized peat.
Shane, John D.

Investigations of two angiospermous inflorescences from Lower Cretaceous strata, Utah.

Skog, Judith E.

Cretaceous ferns of the Potomac Group from Maryland.
(with P. Gensel). Plants of the Price Formation in southwestern Virginia.

Smooth, Edith L.

Phloem anatomy of Paleozoic ferns.

Spicer, R. A.

The application of data processing and other computer-based methods to both modern and fossil plant deposits.

A study of allochthonous plant deposits in modern depositional environments—in particular in the Trinity Alps, northern California.

The construction of a leaf biostratigraphy for Cretaceous rocks in Alaska.

Stidd, Benton M.

An anatomically preserved Potoniea from American coal balls.

Evolution of Monoletes pollen organs.

Stockey, R. A.

Study of a Cretaceous Araucarian cone from Osmington Mills, Dorset.

Woods and twigs of Araucarites santaecrucis.

Extant araucarian seedlings.

Cretaceous gymnosperm remains from Alabama.

Taylor, Thomas N.

Ultrastructural studies of Paleozoic pollen and spores.

Morphological and anatomical investigations of Lower Pennsylvanian vascular plants.
Terasmae, J.

Holocene palynology of the southeast part of Keewatin, Northwest Territories, Canada.

Late Quaternary geochronology and palynology of southern Ontario, Canada.

Thomasson, J. R.

Paleoagrostology: A historical review.

A technique for the study of the epidermal cell patterns of grass anthocia.

Angiosperms from the Late Cenozoic Keller local fauna.

Tiffney, B. H.

Brandon lignite: Rutaceae, Illiciaceae and Staphyleaceae.

Brandon lignite: Lythraceae, Hamamelidaceae and unknowns.

Cretaceous of Martha's Vineyard.

Fruits and seeds from the Legler Lignite of New Jersey.

Warter, Janet Kirchner.

Identification of seeds and other Late Pleistocene plant remains from the Rancho La Brea Project's current excavation of Pit 91, Hancock Park, Los Angeles, California.

Weedin, James F.

Distribution of fossil plants in Pennsylvanian depositional systems of north-central and trans-Pecos, Texas.

Wheeler, E. F.

(with L. C. Matten). Two types of silicified monocotyledons from the Miocene of Colorado.

(with R. A. Scott). Fruits and wood of Alangium from the Paleocene Clarno Nut Beds.

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Wilson, L. R.

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Pennsylvanian plant compressions of Oklahoma.

Zavada, Michael.

New additions to the fossil flora of the Fruitland Formation, San Juan Basin, New Mexico.

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Abbott, W. H.

Correlation and zonation of Miocene strata along the Atlantic Margin of North America using diatoms and silicoflagellates. Marine Micropaleontology.

Andrews, George W.

Marine diatom sequence in Miocene strata of the Chesapeake Bay region, Maryland. Micropaleontology.

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Banks, H. P.

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