



NEWSLETTER

Volume 4 Number 1

SUMMER 1981

CAP MEMBERSHIP

The C.A.P. Membership is listed at the end of this newsletter. Outstanding C.A.P. dues for 1981 (\$2.00), for 1981-82 (\$4.00) or for 1981-1983 (\$6.00) should be sent to the Secretary-Treasurer, Jocelyne Legault, Department of Earth Sciences, University of Waterloo, Waterloo, Ontario, N2L 3G1.

NOMINATIONS FOR THE 1982 EXECUTIVE COMMITTEE

The C.A.P. Nominating Committee has nominated the following members for the 1982 Executive Committee.

Geoff Norris, President-Elect
Jocelyne Legault, Secretary-Treasurer
Bert Van Heiden, Newsletter Editor
Richard Hebda, the present President-Elect, will automatically become President for 1982.

Additional nominations will be accepted by the Nominating Committee. Nominees and their nominator must be C.A.P. members and each nomination must be supported by the signatures of four C.A.P. members.

Nominations may be sent either to Colin McGregor, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8, or John Utting, Petro Canada, P.O. Box 2844, Calgary, Alberta, T2P 2M7, by August 1, 1981.

FROM THE PRESIDENT'S PEN

When C.A.P. was formed, its "raison d'être" was two-fold: The Association would enable Canadian palynologists to participate formally as Canadians in international undertakings, and further, it would improve communications among Canadian workers. Now C.A.P. is a well established institution with a surprisingly large and varied membership.

A delegation of Calgary palynologists, on behalf of C.A.P., successfully extended an invitation to the International Commission for Palynology in Cambridge, 1980, to hold its Sixth session in Calgary; thus, C.A.P.

had made good on the formal aspects underlying its foundation. Even if a lion's share of organizational preparations will have to be shouldered by Calgarians, through C.A.P. our colleagues in other centres will become involved as well. In formal dealings with officialdom and international organizations, C.A.P. will greatly facilitate all manner of proceedings.

Another example is the participation of Jocelyne Legault, who under the auspices of C.A.P. and in cooperation with a representative of A.A.S.P., is involved in organizing the palynological contributions to the N.A.P.C.III in Montreal, 5-11 August 1982.

As to the second cornerstone of our organization, Jon Bujak's superb efforts as editor of our Newsletter has found admiration within and far beyond our boundaries. He has set standards that will pose a challenge to any successor. If the Newsletter has a weakness, it is the involvement on the part of our membership (other than in solving the brain-teasers!). In view of the large geographical separation between various centres, volunteered information on current activities, possible new ventures, technical gossip, etc., would go a long way to improve a sense of community among Canadian palynologists. In order to stimulate this internal flow of mutual communication, I propose a system of loaning scientific reprints; the details are given elsewhere in this Newsletter. I also have asked the editor to announce a "Technical Toolbox" column, where I will try to answer - or find expert advice for - any technical problem that may arise from our membership. After all, our geography imposes restraints and difficulties on our work that are peculiar to Canadian practitioners, and sharing of handy tips or practical experience will benefit us all.

I should like to see the Newsletter become more of a town meeting, and our membership becoming more involved in asking for or extending neighbourly help. Still, already there is a happy sense of community among Canadian palynologists and I feel fortunate to belong to it.

Jan Jansonius

In the late Paleozoic, the Appalachians suffered a deeply moving erosional experience.

R.L.B., Geological Howlers

TECHNICAL TOOLBOX

The idea for this new column came from Jan Jansonius who suggested in a letter to the editor that the C.A.P. Newsletter might include a question and answer column to provide a professional troubleshooting service.

In this column we plan to print questions together with replies or suggestions from palynologists specializing or being expert in that particular field. Jan Jansonius has kindly volunteered his services in the field of nomenclature and taxonomy; Graham Williams will do his best with dinoflagellates.

Where no answer to a question is readily apparent, the question will be printed in the column with a plea for help. Hopefully it will be forthcoming.

The editor will also be pleased to receive both the question and answer if the originator of the question wishes to contact the "expert" directly and then forward the question and answer.

To begin, I would be pleased to hear various views on the spelling of palaeo versus paleo and similar combinations with aeo/eo such as archaeopyle/archeopyle (the excystment opening in dinoflagellate cysts). Most North American journals insist on the shortened spelling eo, while English journals require aeo. However, should the spelling as defined by the original author be consistently followed? In this case archeopyle as defined by W.R. Evitt in 1961. Would anyone having views on this please send them before October 1981 to Jonathan Bujak, Editor, C.A.P. Newsletter, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.

PALYNOSCENE

* Museum of Natural Sciences, Ottawa
(received from David Jarzen)

The Palynology Laboratory of the National Museums of Canada (Ottawa) under the supervision of Mr. G. Whalen is currently updating its modern pollen and spore reference collection exchange list. The project utilizes modern techniques in information handling in order to provide a complete and accurate exchange list at regular intervals. To date, the exchange list encompasses 2,000 species, from 100 families of angiospermae, gymnospermae, ferns and bryophytes. Printing and distribution is expected in the fall of 1981. Interested persons who wish to establish an exchange programme with the National Museums of Canada may contact David Jarzen, Paleobiology Division, National Museums of Canada, Ottawa, Ontario, K1A 0M8.

David Jarzen is presently investigating the fossil record of *Cercoidiphyllum* or *Cercoidiphyllum*-like pollen. He would appreciate hearing from anyone who has recovered this pollen form from any age strata, from anywhere in the world. For a description and illustration of this taxon see the Jansonius and Hills (1976) Genera file of fossil spores and pollen, Card No. 442; *Cercoidiphyllites* Mchedlishvili 1961.

Further, if anyone has exchange slides available of the two extant species of *Cercoidiphyllum* (*C. japonicum*) Sieb and Zucc. and *C. magnificum* (Nakai) Nakai, David would appreciate making an exchange to obtain these species.

Petro Canada, Calgary
(received from John Utting)

As a direct result of Petro Canada's involvement in the exploration of oil and gas in offshore Eastern Canada, most of the recent work of the three man palynological team (Jenkins, McIntyre and Utting) has been concerned with the Mesozoic and Cenozoic rocks in wells drilled in the Labrador Sea, Scotian Shelf and offshore Newfoundland. In addition, a large number of smaller projects have been completed on palaeoenvironments of Cretaceous rocks in Alberta and Saskatchewan. This palaeoenvironmental work is carried out using a multi-speciality approach involving palynology, micro-paleontology, organic matter analysis and sedimentary petrology.

JANSONIUS AND HILLS GENERA FILE OF FOSSIL SPORES

(received from Jan Jansonius)

The 1981 update is completed, except for the finishing touches on some translations from the Chinese. It will consist of 128 pages and will include alphabetical listings of the 1977-81 Supplements. We now expect this Supplement to be ready for distribution in July 1981.

SOCIETIES

American Association of Stratigraphic Palynologists, Inc. (A.A.S.P.)

Volume 13, number 4 and volume 14, numbers 1 and 2 of the A.A.S.P. Newsletter were circulated in October 1980, January 1981 and April 1981. These included a column, "Focus", on the palynological work undertaken at Pennsylvania State University, Texas A & M University, Arizona State University (Departments of Botany and Microbiology), The University of Iowa, and the National Museums of Canada (National Museum of Natural Sciences).

The following articles and books were reviewed:

Artzner, D., Davies, G.H., Dörhöfer, G., Fasola, A., Norris, G. and Poplawski, S., 1979. A Systematic illustrated guide to fossil organic-walled dinoflagellate genera; Royal Ontario Museum Publication.

Dörhöfer, G. and Davies, E.H., 1980. Evolution of archeopyle and tabulation in Rhaetogonyaulacinean dinoflagellate cysts; Royal Ontario Museum Publication.

Thusu, B. (ed.), 1978. Distribution of biostratigraphically diagnostic dinoflagellate cysts and miospores from the northwest European continental shelf and adjacent areas. Continental Shelf Institute Publication Number 100. Biological Memoirs, Palaeopalynology Series 1 to 4, 1976. International Publishers, Lucknow.

The 1981 A.A.S.P. Executive Committee is: Lewis A.E. Stover (President), John E. Bennett (President Elect), John A. Clendening (Secretary-Treasurer), Vaughn M. Bryant (Managing Editor), and Carol A. Chmura, Sarah Pierce Damassa, Charles J. Felix and David J. McIntyre (Directors at Large).

The A.A.S.P. membership stood at 740 in September 1980.

Association des Palynologues de Langue Francaise (A.P.L.F.)

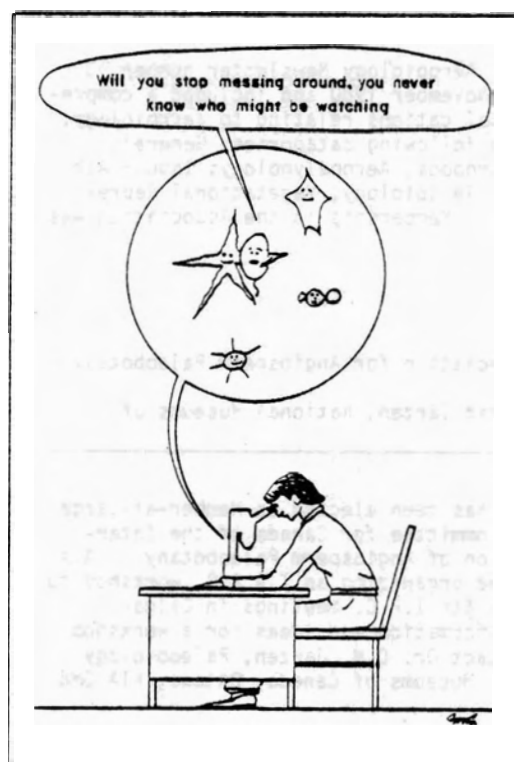
The November 1980 and March 1981 issues of the A.P.L.F. newsletter were circulated and included details of the forthcoming Congrès de Palynologie de l'A.P.L.F. Since the previously planned dates of this congress coincided with a Congress of the International Geological Correlation Program to be held in Poznan, the dates of the A.P.L.F. Congress have been changed from September 28-October 1 to September 30-October 3, 1981. This meeting will be held at the University of Geneva and will be followed by various field trips. Also circulated by the A.P.L.F. was their 1981 Annuaire which includes a list of members, their addresses, and research activities.

Association Québécoise pour l'Etude du Quaternaire (A.Q.Q.U.A.)

Volume 6, number 2 and volume 7, number 1 of the Bulletin - A.Q.Q.U.A. were circulated in October 1980 and March 1981. Volume 6, number 2 outlined the research and publications, including theses, of A.Q.Q.U.A. members on the Quaternary of Quebec in 1979. Volume 8, number 1 listed 187 members of A.Q.Q.U.A. for 1980 with their addresses and disciplines.

British Micropalaeontological Society (B.M.S.)

The British Micropalaeontologist numbers 13 and 14 were circulated in September 1980 and January 1981. Included in these issues were (1) a list of stratigraphic palynology papers dealing with the British Isles and published in 1979-80 (compiled by Ken Dorning) and (2) a detailed report on the micropalaeontological activities carried out by the 13 micro-



paleontologists at the Leeds office of the Institute of Geological Science.

Membership in the B.M.S. recently increased to £5.00 for members living outside Europe.

Canadian Quaternary Association (C.A.N.Q.U.A.)

Newsletters 2 and 3 of C.A.N.Q.U.A. were circulated in November 1980 and February 1981. Newsletter 2 includes a list of 443 members and details of an excursion and workshop to be held in Gaspésie, Quebec, 24-29 August 1981 on "Weathering zones and the problem of glacier limits".

Newsletter 3 announced the 1981 election results: Archie Stalker (President), Serge Occhietti and Nat Rutter (Vice-Presidents) and Douglas Grand (Secretary-Treasurer), and listed 501 members of the Association.

Indian Association of Palynostratigraphers (I.A.P.)

"Patricka" number 3, the I.A.P. newsletter, was circulated in April 1981 and listed the I.A.P. Managing Council for 1981 which includes S.C.D. Sah (President), K.P. Vimal (Vice-President), K.P. Jain (Secretary), Anand Prakash (Treasurer), Hari Maheshwari (Editor) and H.P. Gupta (Business Manager). Also included was a list of many papers published in 1980 and 1981 on Indian palynology and paleobotany.

International Association for Aerobiology (I.A.A.)

International Aerobiology Newsletter number 13 was circulated in November 1980 and included a comprehensive list of publications relating to aerobiology, grouped within the following categories: General; Algae; Fungi; Arthropods; Aeropalynology; Indoor Air Pollution; Medical Aerobiology; Vegetational Representation; Methods. Membership in the Association was 259 in 1980.

International Association for Angiosperm Paleobotany (I.A.A.P.)
(received from David Jarzen, National Museums of Canada)

David Jarzen has been elected as Member-at-Large to the Executive Committee for Canada of the International Association of Angiosperm Paleobotany (I.A.A.P.). David will be organizing an I.A.A.P. workshop to be held during the 6th I.P.C. meetings in Calgary, 1984. For more information and ideas for a workshop topic, please contact Dr. D.M. Jarzen, Paleobiology Division, National Museums of Canada, Ottawa, K1A 0M8 (613-996-4518).

International Commission for Palynology (I.C.P.)

Volume 3, number 2 of the I.C.P. newsletter was circulated in December 1980 and included a message from the new I.C.P. President, Claude Caratini. The I.C.P. now has 20 member societies which are listed below with their I.C.P. Councillors.

- American Association of Stratigraphic palynologists: McGregor, Canright
- Palynological Committee for Africa: Van Zinderen Bakker
- Association de Palinogos de Lengua Espanola
- Association des Palynologues de Langue Francaise: de Beaulieu, Le Thomas
- Association Latinoamericana de Paleobotanica y Palynologia: Makino
- Arbeitskreis für Paläobotanik und Palynologie: Riegel
- British Palaeontological Society, Palynological Section: Fisher
- Canadian Association of Palynologists: Utting
- Commission Internationale de Microflore du Paléozoïque: Downie, Visher
- Collegium Palynologicum Scandinavium: Hafsten
- G.P.S.B. Italia: Marchetti
- Organization of Czechoslovak Palynologists: Pacltova
- Palaeobotanical Society, Lucknow: Lele
- Palynologische Kring, Netherlands: Janssen
- P.P. Australasia: Balme
- Palynological Society of China: Hsu
- Palynological Society of India: Nair
- Palynological Society of Japan: Tokunaga
- Soviet Palynological Commission: Chlonova, Rovnina
- Turkish-Commission of Palynology: Ediger

International Quaternary Association (I.N.Q.U.A.)

The first issue of the I.N.Q.U.A. Newsletter, entitled "Striolae", was circulated last summer; the second issue is now in press. Those interested should contact the Editor, I.N.Q.U.A. Newsletter, Kvartergeologiska avdelningen, Box 555, S-75122, Uppsala, Sweden.

Microscopical Society of Canada (M.S.C.)

Newsletter volume 4, number 1 of the Atlantic Section of the M.S.C. was circulated in February 1981 and included details of the Eighth Annual M.S.C. meeting to be held at McGill University, June 13-15, 1981.

Palaeontological Association

Palaeontological Association Circulars 102, 103 and 104 were recently sent out and included details of forthcoming Palaeontological Association meetings, and a report on the Conference on Macroevolution, October 16-19, 1980, Chicago.

A variety of book reviews were printed, including the following:

"Palaeoceanography", 1980 by T.J.M. Schopf, reviewed by H.C. Jenkins.

"A systematic illustrated guide to fossil organic-walled dinoflagellate genera", 1979, by D. Artzner, E.H. Davies, G. Dörhöfer, A. Fasola, G. Norris and Silvana Poplawski, reviewed by R. Harland.

"The northwest European pollen flora II", 1980, edited by W. Punt and G.C.S. Clark, reviewed by H.J.B. Birks.

"Index of figured plant megafossils, vol. 2 - Triassic 1971-1975", 1980, by M. Boersma and L.M. Boersma-Brockmeyer, reviewed by B.A. Thomas.

"Index of figured plant megafossils, vol. 3 - Permian 1971-1975", 1981, by M. Boersma and L.M. Boersma-Brockmeyer, reviewed by B.A. Thomas.

"Leaves and stems from fossil forests", 1979, by R.E. Janssen, reviewed by B.A. Thomas.

"Phylogenetic patterns and the evolutionary process", 1980, by N. Eldredge and J. Cracraft, reviewed by R.A. Fortey.

"Quaternary paleoecology", 1980, by E. Arnold, reviewed by G.R. Coope.

"Skeletal growth of aquatic organisms: biological records of environmental change", 1980, edited by D.C. Rhoads and R.A. Lutz, reviewed by J. Taylor.

The P.P.A.A. recently published a "Bibliography of Australasian Palynology and Palaeobotany - 1979", compiled by J.F. Rigby, which is dated November 1980 and includes the following:

Bibliography of material completed during 1979 with corrections and additions for 1977-1978.

Bibliography of material in the press, January 1980.

Personal news and work in progress.

Also circulated with the Bibliography were P.P.A.A. Newsletters 1 and 2 and a list of the 52 members of the Association. Editor of the newsletter is John Rigby, Geological Survey of Queensland, P.O. Box 194, Brisbane, Queensland 4001.

NEW MONOGRAPH SERIES

(received from Godfrey S. Nowlan, Geological Survey of Canada, Ottawa)

Palaeontographica Canadiana is the title for a new series of paleontological monographs to be published in Canada. Debate on the desirability and feasibility of such a series has been going on for several years, and a recent agreement between the Geological Association of Canada and the Canadian Society of Petroleum Geologists resulted in the formation of a Joint Committee on Paleontological Monographs (JCPM). This committee, comprising paleontologists and editors from both societies, met recently and appointed Dr. Rolf Ludvigsen (University of Toronto) as the first editor of the series. He will be aided in his task by seven associate editors who together represent a broad variety of paleontological subdisciplines. The day-to-day affairs of the series will be handled by the members of JCPM and they are currently seeking funds to sustain the project as well as discussing format and production. Some money will be raised from pledges by individual paleontologists and the remainder will be raised from corporate, institutional and government sources. The Editorial Committee is preparing a set of guidelines for authors and as soon as this is prepared the series will be in a position to consider manuscripts for the first monograph. Each monograph is to be a substantial paleontological contribution, dominantly systematic in content, and should be pertinent to Canada. The series will maintain the highest international standards of content and production, and it is hoped that the first volume will appear in 1982. For many years major works on Canadian paleontology have been published in European or American monograph series; the advent of Palaeontographica Canadiana provides a long overdue medium for the publication of monographs of Canadian content or interest in Canada.

CALENDAR OF EVENTS

1981

August 21-28: XIII International Botanical Congress University of Sydney, Australia. Details from Dr. W.J. Cram, 13th International Botanical Congress, University of Sydney, N.S.W. 2006, Australia.

August 31-September 4: Hexrose Conference on Modern and Fossil dinoflagellates, Tübingen, Germany. This conference will follow similar themes to those of the Penrose Conference on dinoflagellates held in Colorado Springs in April 1978. These will include dinoflagellate morphology, biology, morphogenesis, ecology/paleoecology, classification, evolution, and methods and techniques. Details from Dr. Hans Gocht, Institut und Museum für Geologie und Paläontologie, Sigwartstrasse 10, D-7400 Tübingen 1 or Dr. Harald Netzel, Institut für Biologie III der Universität Tübingen, Auf der Morgenstelle 28, D-7400, Tübingen 1.

September 30-October 3: Congrès of the Association des Palynologues de Langue Française. Theme: Palynology and Botany. Details from Jean Charollais or Christian Reynaud, Laboratoires de Géologie, 13, Rue des Maraîchers, 1211 Genève 4, Suisse.

October 7-10: American Association of Stratigraphic Palynologists (A.A.S.P.) 14th Annual Meeting, Monteleone Hotel, New Orleans, La. Details from Don Benson, Amoco Production Company, P.O. Box 50879, New Orleans, La., 70150.

1982

July 21-26: Fourth Colloquium on Paleobotany and Palynology, Mexico City. Details from Eloy Salas, Inst. Mexicano del Petróleo, Av. Cien Metros #152, Apartado Postal 14-805, Mexico 14, D.F.

August 1-9: XI International Quaternary Association (I.N.Q.U.A.) Congress, Moscow. Details from Dr. Ismail P. Kartashov, Secretary-General of the XI INQUA Congress, Geological Institute, U.S.S.R. Academy of Sciences, Pyzhevsky 7, Moscow 109017, U.S.S.R.

August 5-11: Third North American Paleontological Convention (NAPC-III), Montreal. Details from Colin Stearn, Department of Geological Sciences, McGill University, 3450 University Street, Montreal, H3A 2A7.

August: Second International Conference on Aerobiology, Seattle. Details from Dr. R.L. Edmonds, College of Forest Resources, University of Washington, Seattle, Washington 98195, U.S.A.

September: Meeting on the "Palynology of the North Atlantic Margin", at Trinity College, Dublin. This meeting, which will be jointly organized by the American Association of Stratigraphic Palynologists and the Commission Internationale de Microflore du Paléozoïque, will include three

days of technical meetings followed by one to two days of excursions to the Paleozoic rocks of Eire. Details from either Geoff Clayton or Ken Higgs, Trinity College, Dublin, Eire.

1983

October 26-28: American Association of Stratigraphic Palynologists (A.A.S.P.) Annual Meeting, Airport Hilton, San Francisco. Details from Virgil Wiggins, Chevron U.S.A. Inc., P.O. Box 3862, San Francisco, California, 94119, U.S.A.

1984

August 26-31: Sixth International Palynological Conference (VI IPC), Calgary, Alberta. Details from Len Hills, Department of Geology, University of Calgary, Calgary, Alberta, T2N 1N4, or Jan Jansonius, Esso Resources Canada, 339-50th Avenue S.E., Calgary, Alberta, T2G 2B3.

MEETINGS

Sixth I.P.C., Calgary, 1984
(received from Jan Jansonius, Esso Resources Canada, Calgary)

On 27 April 1981, Calgary palynologists were convened by J. Jansonius for their first meeting in preparation of the 6th International Palynological Conference, slated for 26-31 August 1984.

L.V. Hills and J. Jansonius were confirmed as co-chairmen of the Conference. The following volunteered their services:

J.K. Lentin - Program Commission
R.L. Thompson - Entertainment
D.J. McIntyre - Coordination of associated meetings
J. Utting - Publicity
A.R. Sweet & W.W. Briedaux - Field trips

Other functions will be assigned by co-option, invitation, or hopefully, through volunteering of members. If you want to become involved in any area or field of your own preference, please contact the chairmen.

The Secretary of the I.U.G.S., with which I.C.P. recently became affiliated, has notified the I.C.P. of the conflict in dates between the Calgary Conference and the 1984 International Geological Congress to be held in the U.S.S.R. It was strongly suggested that in deference to the senior body, the date of the Calgary Conference be shifted or changed by a full year. We have sent an answer to the I.C.P. indicating that a small shift of date is physically not possible, and effectively meaningless; a change to 1983 or 1985, if possible, is undesirable since we already have made many commitments. Also, the International Organization of Palaeobotany has begun planning of their meeting in 1984, to be held in Edmonton immediately following the Calgary Conference. With an ever increasing crowding of the calendar with major inter-

national meetings, it is becoming impractical to avoid conflict. We prefer to maintain our 1984 date, fully confident that both the I.G.C. and I.P.C. will have adequate attendance.

Third North American Paleontological Convention, Montreal, August 5,6,7, 1982

(received from Colin W. Stearn)

The Convention aims to bring together scientists who study the life of the past in all its forms so that they can exchange ideas on recent advances. The first North American Paleontological Convention took place in 1969 at the Field Museum in Chicago; the second in 1977, at the University of Kansas in Lawrence. North American Paleontologists will meet for the third time in August of 1982 at Montreal.

The technical sessions of the Convention will take place in the Stephen Leacock Building of McGill University, 855 Sherbrooke Street W., Montreal, on August 5,6 and 7 (Thursday-Saturday), 1982. Field trips will take place after the meetings.

Symposia and Technical Sessions

The Convention program will be made up of symposia, general sessions, informal meetings and social events. At a recent meeting the Organizing Committee approved proposals for symposia on the following topics: (1) Macroevolution and the Origin of Higher Taxa, (2) Tempo and Mode of Evolution from Micro-paleontological Data, (3) Paleobiologic Models of Mass Extinction, (4) Cenozoic Molluscan Biogeography of the Pacific Ocean, (5) Geological Factors in the Evolution of Plants, (6) Evolution and Paleobiology of Gastropods, (7) Jurassic-Cretaceous Biochronology and Biogeography of North America, (8) Problematic Fossils, (9) Silurian-Devonian Paleontology of Arctic North America, (10) Sir William Dawson's Contribution to Paleontology, (11) Palynology: The State of the Art, (12) Palynology: The latest Paleoenvironmental Impact Statements, (13) Time Resolution in Evolutionary Paleobiology, (14) The Paleobiology of Foraminifera, (15) Paleontological Innovations in the Eighties and Beyond. In addition less formal sessions on Cenozoic Insects, Conodontophorid Apparatuses, and the Evolution of Large Terrestrial Mammals have been planned. #11

Paleontologists not contributing to symposia are invited to present papers at general sessions. Space will be available for the exhibition of small collections or poster displays of research. Paleontologists interested in particular taxonomic groups can meet in the late afternoon when no formal presentation of papers is planned.

Publications

Abstracts of papers to be presented at the Convention will be published in a special supplement of the March 1982 issue of the Journal of Paleontology. This is the same procedure as was used for NAPC-II. Abstracts must be submitted on a form available from the Convention and from chairmen of symposia.

MARCH 1982 JOURNAL PALEONT.

The Convention will also publish one or more volumes of short papers to be printed from camera-ready copy and distributed at the Convention. These papers will be approximately six pages in length and may contain photographs. Forms on which these papers must be submitted and instructions for their use will be sent to those whose abstract has been approved for publication and who will take part in the Convention program. The Proceedings will be given to each registrant at the Convention and their cost will be included in the registration fee.

Registration

Registration forms and details concerning the local arrangements will be included in the special supplement to the March 1982 Journal of Paleontology. Paleontologists who are not subscribers to the Journal can request this material be sent to them in early 1982.

Deadlines

Abstracts of all papers to be presented at the Convention must be received at the Convention office by September 15th, 1981. Short manuscripts for inclusion in the Proceedings must be received by January 15th, 1982. Forms on which abstracts must be submitted can be obtained from the Convention office.

Field Trips

Local field trips will take place after the technical session from August 8-11. Details of these trips will be made available with the registration materials.

Please direct inquiries about the Convention to: North American Paleontological Convention - III, 3450 University Street, Montreal, Quebec, H3A 2A7.

(received from Graham L. Williams)

C.A.P. has a significant role to play at the NAPC-III Convention. In conjunction with A.A.S.P., the Association is sponsoring two half-day symposia. The first, "Palynology: the State of the Art", is being organized by Jocelyne Legault and will include invited papers on acritarchs, chitinozoa, angiosperms, dinoflagellates, pollen and spores. We hope that the review nature of the presentations will prove of wide appeal to paleontologists unfamiliar with recent developments in palynology. The second C.A.P./A.A.S.P. sponsored symposium, "Palynology: the Latest Paleoenvironmental Impact Statements" is being organized and chaired by Sarah Pierce. To date she has got firm commitments from four speakers, with talks scheduled on chitinozoa, dinoflagellates and palynofacies.

The above are not C.A.P.'s only commitments at NAPC III; we are also playing an important role in the three hour symposium, "Paleontological Innovations in the Eighties - and Beyond". The co-chairmen, Godfrey Nowlan and Graham Williams, have now finalized their program which includes papers on the S.E.M., the University of Toronto's ion probe (ISOTRACE), fluorescence microscopy, quantitative biostratigraphy, literature data bases, and computerization of taxonomic information. This promises to be a stimulating (strictly in the scientific sense) session.

(reprinted from the I.A.A.P. Newsletter)

The Paleobotanical Section of the Botanical Society of America will sponsor a symposium on "Geologic Factors and the Evolution of Plants" at the Third North American Paleontological Convention, Montreal, 1982. Contributors will be asked to address the effects of geological factors upon the evolutionary history of plants or the reciprocal influence of plants upon geological processes. Both botanical and geological perspectives are desired, and an interdisciplinary approach is essential. Additional information and official submittal forms are available from the Secretary of the Symposium Steering Committee, Bruce H. Tiffney, Department of Biology, Yale University, 260 Whitney Avenue, P.O. Box 6666, New Haven, Connecticut 06511.

A.A.S.P. Annual Meeting, New Orleans

This meeting will be held from October 7-10, 1981 at the Monteleone Hotel, 214 Rue Royale, New Orleans. Events include a Symposium on Morphologic Lineages of Palynomorphs through Time (October 7), and on October 8 and 9, general sessions with papers arranged in the following categories. Biostratigraphy, Morphology, Paleocology/Biogeography, and Organic Geochemistry. Field trips on October 10 will visit swamps and marshes, and the Mississippi River Delta.

Titles and abstracts of talks to be given at the meeting should be sent to Jeff Stein, Amoco Production Co., P.O. Box 50879, New Orleans, Louisiana, 70150. Prospective participants in the poster session should send their titles and abstracts to Bob Ravn, Amoco Production Co., P.O. Box 50879, New Orleans, Louisiana, 70150.

Preregistration by September 30 is \$30.00 (students \$20.00); registration after September 30 is \$35.00 (students \$22.00). For additional information write to Don Benson, address as for Jeff Stein above.

Palynology of the North Atlantic Margins
(reprinted from C.I.M.P. Newsletter 23)

The second joint meeting of the Commission Internationale de Microflore du Paléozoïque and A.A.S.P. is to be held in Dublin from 13 to 15 September 1982, hosted jointly by Trinity College and the Geological Survey of Ireland. All sessions will be held in Trinity College, Dublin.

Papers and demonstrations on the theme "The Palynology of the North Atlantic Margins" will be given preference for inclusion in the program, but contributions on other topics will also be welcomed. Several working groups will hold meetings during the conference, and some of these will present progress reports. It is anticipated that papers dealing with palynomorphs of all ages from Precambrian to Quaternary will be included in the program.

Registration will begin on Sunday, 12 September. Lectures, demonstrations, and working group meetings will take place on 13 to 15 September, inclusive. Two field excursions will be held immediately after the meeting, one Lower Paleozoic and the other Upper Paleozoic. These will each be for either one or three days, depending on the preference of participants. The conference languages will be English and French. Abstracts of papers presented will be printed and distributed before the meeting. Papers read at the meeting will be considered for publication in Palynology subject to the normal A.A.S.P. publication procedures.

It is estimated that the registration fee will not exceed 20 pounds for professional members. A substantially reduced rate is planned for students. Limited accommodation will be available in Trinity College. Accommodation will also be available in numerous hotels of varying standards close to the college.

The first circular was circulated in mid-1980. Additional enquiries and requests for further information should be addressed to either of the two local secretaries: Geoff Clayton, Dept. Geology, Trinity College, Dublin 2, or Ken Higgs, Geological Survey of Ireland, 14 Hume Street, Dublin 2, Ireland.

XIII International Botanical Congress
(reprinted from I.O.P. Newsletter 12)

The Executive Secretary of this congress, W.J. Cram, has asked potential participants to send their names and addresses together with the sections and field trips of interest to: 13th I.B.C., Australian Academy of Science, P.O. Box 783, Canberra A.C.T. 2601, Australia. If this information is sent, it will not be necessary to return a preliminary reply form, and the names will be added to the list of those who will receive the second circular.

The following symposia are planned for Section 11 on Historical Botany; names of convenors of the symposia are included.

Advances in Paleobotany and Palynology
(D. Christopher)

Applications of Tree Ring Studies to
Ecology and Climatology (J. Ogden)

Development of Regional Vegetation Types
in Pre-Quaternary Time (E. Truswell)

Development of the Plant Geographical
Pattern of Australasia (J.M.B. Smith)

Gymnosperms: Paleozoic and Mesozoic
(Taylor & Delevoryas)

History and Ecology of Crops and Cropping
Systems in the Americas (I. Farrington)

Man's Influences on the Ranges of
Plants (N.M. Wace)

Origins and Evolution of Angiosperms
(Dilcher & Crepet)

Persistence and Change in Vegetation
(Walker & Anderson)

Physiological Problems in Evolution
(J.A. Raven)

Plant Geographical Results of Changing
Cenozoic Barriers (P. Raven)

ABSTRACTS AVAILABLE

Copies of the Program and Abstracts of the 13th Annual Meeting of A.A.S.P. (Keystone, Colorado, 14-18 October, 1980) are available from A.A.S.P. Foundation at \$2.00 each. Write to: R.T. Clarke, A.A.S.P. Foundation, c/o Mobil R & D Corporation, P.O. Box 900, Dallas, Texas 75221.

Interested individuals can obtain a copy of the Abstracts Volume for papers presented at the 4th Colloquium on Paleobotany and Palynology held in Mexico City in July 1980. Write to: Eloy Salas, Inst. Mexicano del Petroleo, Av. 100 metros #152, Apartado Postal 14-805, Mexico 14, D.F.

ENGLISH LANGUAGE ARTICLES FROM CHINA

(reprinted from I.O.P. Newsletter 12)

English language texts were specially written for 14 papers presented at the Cambridge or Reading meetings in July, 1980. Each is available as a separately bound reprint and can be obtained from the publisher at the price of \$2.00 each. For details please write to: Professor Li Xing-xue, Institute of Geology and Paleontology, Academia Sinica, Nanking, China. The papers are: "An outline of recent researchs on the Cathaysia flora" (Li Xingxue & Yao Zhaqqi); "Notes on the ecological significance of some Cathaysia floral elements" (Zhang Shanzen); "Early Liassic plants from southwest Hunan, China" (Zhou Zhiyan); "Succession of Jurassic plant assemblages and stratigraphic correlation of China" (Ye Meina & Li Baoxian); "Microfloral areas of Early Cretaceous in China" (Li Wen-ben); "Middle-late Early Cretaceous flora from Jilin, N.E. China" (Li Xingxue & Ye Meina); "Cretaceous-Tertiary spore pollen assemblages of northern Jiangsu" (Song Zhi-chen *et al.*); "General aspects of the floristic regions of Late Cretaceous and Early Tertiary of China" (Song Zhi-chen); "Late Cretaceous and Eocene floral provinces" (Guo Shuang-xing); "Spores and pollen grains from the Fushun Group" (Song Zhi-chen & Cao Liu); "Eocene spores and pollen assemblage from northeastern Zhejiang" (Li Manying); "Tertiary spore-pollen assemblages in northern Shandong" (Zhou Heyi); "Some fossil catkins and a male cone with their pollen *in situ* from Shanwang flora" (Li Haomin & Zheng Yahui); "Pollen analysis of the Nihewan Formation" (Liu Jingling & Tang Lingyu).

MARINE GEOLOGIST



NEW JOURNAL ON CLIMATOLOGY

"The Journal of Climatology" was recently announced by J. Wiley and Sons to begin in January 1981. As a journal of the Royal Meteorological Society, it will include global and regional studies of climate, microclimate, climate change (past, present, and future), and application of climatological concepts to human activities. A specimen copy of this quarterly journal is available from J. Wiley and Sons, Inc., Subscription Department "C", 604 3rd Avenue, N.Y., 10016 (Journals Department, J.W. & S Ltd., Baffins Lane, Chichester, Sussex PO19 1UD, England). Contributors to early issues should contact Professor S. Gregory, Editor, Department of Geography, The University, Sheffield, S10 2TN England. Volume 1 will cost \$84 U.S.

POSSIBLE REPRINT OF DAVEY ET AL., 1966

(reprinted from A.A.S.P. Newsletter, vol. 14, no.2)

The British Museum is prepared to consider a reprinting of Davey, R.J., Downie, C., Sarjeant, W.A.S., and Williams, G.L., 1966, Studies on Mesozoic and Cainozoic dinoflagellate cysts; Bulletin of the British Museum of Natural History, Geology Supplement 3, pp. 1-248. This publication, which contains many holotype descriptions, has been out of print and unobtainable for several years.

The publications committee at the British Museum proposes a print run of 500 copies, but first requires assurance that a substantial number will be sold. If

you are interested in obtaining a copy of this publication, please write to: Chris Denison, Robertson Research (U.S.) Inc., 16730 Hedgecroft, Suite 306, Houston, Texas 77060.

 RE-EXAMINATION OF HOLOTYPES AND SOME ILLUSTRATED SPECIMENS OF DINOFLAGELLATE AND ACRITARCH SPECIES PUBLISHED BY POCOCK 1962-72

(received from Jan Jansonius, Esso Resources Canada, Calgary)

Taking advantage of the presence of the collection of type slides at the Institute of Sedimentary and Petroleum Geology, Calgary, I have re-examined, described, and rephotographed in interference contrast the material indicated above. A few specimens could not be located as some slides are missing. The re-description of the dinoflagellates are typed up as pages D1-D32; the acritarchs as pages A1-A27. The photographs are mounted on 28 plates. Pending publication of parts of this report, copies of it may be borrowed from me.

 INTERLIBRARY LOAN OF REPRINTS

(received from Jan Jansonius, Esso Resources Canada, Calgary)

In the Calgary Palynology Library of Esso Resources Canada, purchased acquisitions and complementary reprints received by the individual workers are stored together, in order of the acquisition number assigned to each entry. An index under author name and year gives access to our own holdings, and cross-indexes by subject make possible searches on specific topics.

Between this variety of sources, the library holds several papers from unusual sources and far corners of the world. Individual Canadian colleagues may be interested in perusing some of these papers, or in knowing of their existence. Therefore, I submitted to the editor of the Newsletter a list of recent acquisitions (deleting the most common ones) held in Calgary. These will be available through regular Interlibrary Loan channels (but do list my name on the request form, so our librarian will know where to find the document). The borrower must pledge to return loaned material by registered mail.

My hope is that through this initiative, if more colleagues will do likewise, some of the more exotic references will be more readily available. Identification of where it is held should be a boon for librarians and obviate much of the frustration commonly associated with searches for less well-known documents.

If anyone would like a list of the papers available, please write to either Jan Jansonius, Esso Resources Canada Ltd., 339 50th Avenue S.E., Calgary, Alberta, T2G 2B3 or Jonathan P. Bujak, Atlantic

- Geoscience Centre, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.
Listed below are some of the more recent publications available.
- Achab, A., 1980. Chitinozoaires de l'Arenig inférieur de la Formation de Lévis. *Rev. Palaeobot. Palynol.*, v.31, p.219-239, pl.1-4.
- Courtinat, B. and Gaillard C., 1980. Les dinoflagellés des calcaires lites de Trept (Oxfordien supérieur). Inventaire et repartition comparée à celle de la microfaune benthique. Documents des Laboratoires de géologie Lyon, Dept. Sci. Terre, p.1-124, pl.1-10.
- Deflandre, G. and Locquin, M.V., 1980. Interprétation répétitive de la structure interne du phialosporange de certains chitinomycètes. 105^e Congr. Nat. Soc. Sav., Caen, 1980, no pagination, 3pp. (incl. Pl.1).
- Devi, S., 1980. The concept of perispore - an assessment. *Grana*, v.19, p.159-172, fig.1-6.
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- Fuglewicz, R., 1980. Some new megaspore species of the Triassic of Poland. *Acta Palaeontol. Polonica*, v.25, p.233-241, pl.23-26.
- Gorka, H., 1980. Le microplankton de l'Ordovicien moyen de Strabla (Pologne). *Acta Palaeontol. Polonica*, v.25, p.261-277, pl.31-36.
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- Gras-Cavagnetto, C., *et al.*, 1980. A fossil mangrove soil in the "Lignite du Soissonnais" (Ypresian) at Verzenay (Marne). *Géobios*, v.13, no. 5, p. 795-801.
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- Harland, R., *et al.*, 1980. Recent and sub-Recent dinoflagellate cysts from the Beaufort Sea, Canadian Arctic. *Grana*, v.19, p.211-225, fig. 1-9.
- Helby, R.J. and Partridge, A.D., 1980. Australian Mesozoic dinoflagellates. *Earth Resources Foundation*, Univ. Sydney, p.1-15, transparencies 1-287.
- Horodyski, R.J., Donaldson, J.A. and Kerans, C., 1980. A new shale-facies microbiota from the Middle Proterozoic Dismal Lakes Group, District of Mackenzie, Northwest Territories, Canada. *Can. J. Earth Sci.*, v.17, p.1166-1173.
- Jansa, L.F., Bujak, J.P. and Williams, G.L., 1980. Upper Triassic salt deposits of the western North Atlantic. *Can. J. Earth Sci.*, v.7, p.547-559.
- Kedves, M., 1979. Intraspecific morphological variations at Recent angiospermatophyta pollen grains. *Acta Biologica Szeged.*, v.25, p. 65-68, pl. 1.
- Kedves, M. and Herngreen, G.F.W., 1981. Palynology of the stratotype of the Maestrichtian and the Gulpen Formation, ENCI section, Maastricht, The Netherlands. *Pollen et Spores*, v.22, p.483-544, pl.1-15.
- Khanna, A.K. and Singh, H.P., 1980. *Subathua*, A new dinoflagellate genus and its palaeoecological significance in the Subathu Formation, Simla Hills. *The Palaeobotanist*, v.26, no.3, p.307-313, pl.1.
- Kremp, G.O.W., 1980. Early Precambrian to Silurian palynological literature: eight hundred forty implemented references. *Paleo Data Banks*, no. 15, p. 1-101.
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- Sarjeant, W.A.S., 1980. Restudy of a 19th century dinoflagellate cyst holotype from the Polish Upper Jurassic. *Acta Palaeontol. Polonica*, v.25, p.279-285, pl.37.
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- Williams, G.L. and Bujak, J.P., 1980. Palynological stratigraphy of Deep Sea Drilling Project Site 416. In: Initial Reports of the Deep Sea Drilling Project, v.50, p.467-495, plates, tables, sketch map.
- Wright, R.P. and Meyers, W.C., 1981. Organic-walled microplankton in the subsurface Ordovician of northeastern Kansas. *Kansas Geol. Surv.*, Subsurface geol. ser. 4, p.1-53, pl.1-8.
- Wrona, R., 1980. Upper Silurian-Lower Devonian Chitinozoa from the subsurface of southeastern Poland. *Palaeontol. Polonica*, no. 41, p.103-165, pl.24-37.
- Zaklinskaja, E.D. *et al.* (editors), 1980. Palynology in the USSR (1976-1980). Papers of the Soviet Palynologists to the V I.P.C., Cambridge, England. *Acad. Sci. USSR, Nauka, Moscow*, p.1-135. Collection of 66 abbreviated papers by many authors, most presented as an extended summary, several with tables. Individual papers not carded separately.
- Zaslavskaya, N.M., 1980. Silurian chitinozoans from the Siberian platform. *Akad. Nauk SSSR, Sibir. Otdel., Trudy Inst. Geol. i Geofiz.*, vyp. 435, p.52-80, pl.1-3.

NIGHTCAP

Below are just a few of the several hundred exam howlers edited by W.D.I. Rolf in "Geological Howlers", published by the Geological Society of Glasgow, 1980.

If you wish to order a copy, please send a \$3 cheque, made payable to The Geological Association of Canada, to Carol Mitchell, Atlantic Geoscience Centre, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.

"Plates on the Earth's surface are driven by infernal processes." C.P.H.

"Nine-eights of an iceberg is beneath the sea." C.P.H.

"The Earth makes a resolution every twenty four hours." *H.C.H.*

"The first law of geology is the law of supposition." *J.K.B.*

"It has been postulated that Iceland is still experiencing the Tertiary Period." *I.S.J.*

"An evidence of former glaciation is scared bedrock." *R.L.B.*

"The glacier flew from the east to the west." *C.J.B.*

$\frac{\sin x}{n} = \frac{\sin x}{n} = \sin x$ *G.P.L.W.*

"From Llandrindod you proceed along the lovely valley of the Ithon, growing more beautiful as you proceed." *J.P.*

(From a Japanese author to an editor:) "Please thank the referees for their suggestions, I would like to execute them." *R.C.E.*

"The sediment was deposited in deep water faeces." *C.J.B.*

"Grains transported in solution by rivers are not well rounded." *N.H.T.*

"These sediments were laid down by a large river which debauched north of Southampton." *A.R.McG.*

"Mudstone is mainly composed of sand and gravel." *C.J.B.*

"Coal is decayed vegetarians." *H.C.H.*

"Very difficult to correlate since the facies are triachronous or more." *J.A.*

"Carboniferous trees fell down because they were soft and pithy inside." *C.P.H.*

"During the Tertiary, psalms ranged farther north than at present." *R.L.B.*

DOBELL, Pat (1982)
DREIMANIS, Aleksis (1982)
DUFFIELD, S.L. (1981)
ELSON, John A. (1980)
FENSOME, Robert A. (1981)
FITZGERALD, W. (1981)
FORD, Jancis (1980)
GEURTS, Marie Anne (1981)
GILL, Leanne D. (1980)
GUNTHER, Paul R. (1981)
HEBDA, Richard J. (1981)
HICOCK, Stephen R. (1981)
HILLS, Len V. (1982)
IOANNIDES, Nicos S. (1981)
JANSONIUS, Jan (1981)
JARZEN, David M. (1981)
JENKINS, W.A.M. (1981)
KEARNEY, Michael S. (1981)
KLEIN, Elizabeth (1981)
LABELLE, Claude (1980)
LAROUCHE, Alayn (1980)
LEGAULT, Jocelyne A. (1981)
MACMILLAN, W.R. (1980)
MACPHERSON, Joyce B. (1980)
MATTHEWES, Rolf W. (1981)
MCANDREWS, John H. (1983)
MCGREGOR, D. Colin (1983)
MCINTYRE, David J. (1980)
MCLENNAN, Donald S. (1981)
MELLAR, Gillian (1980)
MOTT, Robert J. (1981)
NORRIS, Geoffrey (1980)
OUMET, Denis R. (1983)
PERRAS, Josée (1980)
PIROZYNSKI, K.A. (1981)
POCOCK, S.A.J. (1983)
POELTL, Franz (1981)
POPLAWSKI, Silvana J. (1980)
RICHARD, Pierre J.H. (1980)
SARJEANT, W.A.S. (1983)
SAVOIE, Louise (1982)
SINGH, Chaitanya (1982)
STAPLIN, Frank L. (1981)
STOCKEY, Ruth A. (1980)
SULLIVAN, Herbert J. (1981)
SUNEBY, Lena B. (1981)
SWEET, Arthur R. (1981)
TAN, J.T. (1980)
TERASMAE, Jan (1980)
THOMPSON, Renée D. (1981)
THORNE, Beatrice (Awai-Thorne) (1981)
UTTING, John (1982)
VAN HELDEN, Bert G.T. (1980)
VARMA, C.P. (1982)
WALTON, Huon S. (1980)
WARNER, Barry G. (1981)
WILLIAMS, Graham L. (1982)
WILSON, Malcolm A. (1981)

C.A.P. MEMBERSHIP

The C.A.P. membership is listed below showing the year up to which each member is paid.

ACHAB, Aicha (1981)
ANDERSON, Thane W. (1981)
AUDRETSCH, Anton P. (1982)
BARSS, M. Sedley (1982)
BASSETT, I. John (1981)
BECKETT, P.J. (1981)
BOURGEOIS, Jocelyne (1980)
BOYKO-DIAKONOW, Maria (1981)
BRAMAN, Dennis R. (1981)
BRIDEAUX, W.W. (1981)
BUJAK, C. Anne (1981)
BUJAK, Jonathan P. (1983)
CAMFIELD, Martha (1981)
CRILLEY, Bernard J. (1981)
CROWDER, A.A. (1981)
DAVIES, Edward H. (1981)

Corresponding Members

ARTZNER, Darrah G. (1981)
KREMP, G.O.W. (1981)
LEBLANC, Art (1981)
NAMBUDIRI, E.M.V. (1981)
TRAVERSE, A. (1980)
VASANTHY, G. (1983)