

Commission Internationale de Microflore du Paléozoïque.

(3) - C.I.M.P. NEWSLETTER - NOVEMBER, 1972.

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- 1) Note concerning working groups on systematic revision of spores and pollen grains, with a related QUESTIONNAIRE . . . . . page 2 and 3.
- 2) Duplicate of the last calls for the Permian and Triassic symposium at BOUSSENS, in 1973 (These calls have been sent, in October, to those people who had answered to the former announcements). . . . . page 4 and 5.
- 3) Call for financial support from members : modes of payment ; acknowledgment on reception of fees, etc ... . . . . . page 6.
- 4) Tentative list of members with a specific present interest in paleozoic palynology, page 7.
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Commission Internationale de Microflore du Paléozoïque

Note concerning working groups on systematic revision of  
spores and pollen grains.

It is the task of commissions to produce critical, authoritative analyses, documents or guides which may be applied in future work or decisions. CIMP works toward this through a number of working groups holding discussion sessions at various meetings and engaging in a broad exchange of material. In the wider sense of palynological systematics several working groups had originally been set up dealing with individual genera or form groups - mainly from the Upper Carboniferous - in order to eliminate unnecessary synonymies and extraneous species and thus elicit their stratigraphic and palaeofloristic significance. Five of these working groups (i.e. "Lycospora", "Knoxisporites", "Verrucosisporites", "Monolete Genera" and "Morphography") have completed their work which is either published or prepared for publication. Three others (i.e. "Megaspore Genera", "Cavate Genera" and "Florinites") are still at work, while the fate of some is presently uncertain. Since their establishment activities of CIMP members have broadened considerably. In continuing and renewing the systematic revision work of CIMP it will be desirable to follow previous successes, but to pay increased attention to Devonian, Lower Carboniferous and Permo-Triassic taxa.

It is intended to use the 10th general assembly of the CIMP at Boussens, France (Sept. 12-15, 1973) to bring together palynologists of common taxonomic concerns into new viable working groups. As a preparatory step this note is sent out as an appeal to all palynologists interested or engaged in CIMP activities to consider their options in cooperating in CIMP working groups on systematic revisions and to sample their suggestions for topics. To coordinate these we would like to receive at first as many suggestions from as many CIMP members as possible. Therefore, please, check answers on the attached sheet and add comments to any extent you like or can and return it by Febr. 1, 1973. We shall then attempt to extract the most promising topics and recommend them at Boussens. Suggestions concerning Permo-Triassic taxa will be coordinated with the symposium on Permo-Triassic palynology at the Boussens meeting.

W. Riegel, Göttingen

Questionnaire

Name:

Address:

Please, return by Febr. 1, 1973 to:

Dr. M. Streeel  
Université 7, place du XX Août  
B 4000 Liege, Belgium

or: Dr. W. Riegel  
Geologisches Institut  
34 Göttingen  
Berliner Str. 28, Germany

1. Indicate the stratigraphic range of your major interests:

- Upper Silurian to Middle Devonian
- Upper Devonian
- Lower Carboniferous
- Upper Carboniferous
- Permo-Triassic

2. Do you think working groups should be concerned with

- Species groups with special stratigraphic significance
- Individual genera
- Groups of related genera
- Larger taxonomic units (specify)

3. Are you interested in the systematic revision of the following taxa:

- Vallatisporites (suggestion Neves, Streeel)
- Archaeononotriletes (suggestion Owens)
- Geminospora (suggestion Owens)
- Dibolisporites (suggestion Riegel)
- Hystricosporites (suggestion Riegel)

4. Please, list any number of taxa or groups which you consider worthy or in need of revision:

5. Comments:

C.I.M.P. SYMPOSIUM ON PERMIAN AND TRIASSIC STRATIGRAPHY OF EUROPE, BOUSSENS 1973

To the Possessors of Type-material of Permian and Triassic Palynological Taxa

A C.I.M.P. Symposium on Permian and Triassic stratigraphy of Europe will be held at Boussens (Dept. Haute Garonne, France) September 1973 (see announcements in C.I.M.P. Newsletter, February and July 1972).

The basic philosophy behind the organization of the symposium is that we should attempt to analyze the impact of the acceptance of palynological data on modern regional Permian and Triassic stratigraphy.

Because of the crying need for thorough morphological and taxonomic work on Permian and Triassic spores and pollen grains of presumed stratigraphical importance, several palynologists have emphasized the desirability of bringing together a fairly complete collection of type-material of Permian and Triassic palynological taxa.

Such a collection can only be realized when the various individuals or institutions who have type-material at their disposal are willing to cooperate by either taking slides with them to Boussens or lending type-material to the C.I.M.P. Secretariat.

For this reason we invite you to cooperate to a successful realization of this important aspect of the Boussens meeting.

Yours sincerely,

*H. Visscher*  
H. Visscher.

Utrecht, October 1972.

-----  
Please complete and return to:  
H.Visscher  
Laboratory of Palaeobotany and Palynology  
Heidelberglaan 2,  
De Uithof  
Utrecht - The Netherlands

The undersigned,

Name: .....  
Address: .....

has at his disposal palynological type-material described in the following publications on Permian and Triassic palynology of Europe (author + year of publication):

- He intends to participate in the Symposium on Permian and Triassic stratigraphy at Boussens, and will take the above type-material with him.
- He is not intending to participate but is willing to lend the type-material to the C.I.M.P. Secretariat under the following conditions:
- He agrees the type-material to be photographed and diffused in the C.I.M.P. collection of colour transparencies of palynological types.

Date: .....

Signature: .....

C.I.M.P. SYMPOSIUM ON PERMIAN AND TRIASSIC STRATIGRAPHY OF EUROPE, BOUSSENS 1973

To the Contributors to the Symposium

It appears to be essential for the further organization of the C.I.M.P. Symposium on Permian and Triassic Stratigraphy of Europe (Boussens 1973; see announcements in C.I.M.P. Newsletter, February and July 1972) to have at our disposal a complete set of abstracts of papers by the end of this year.

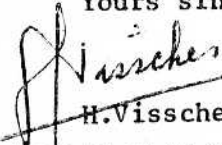
Contributors are therefore requested to submit a title and an abstract before January 1, 1973.

The abstract should be informative rather than merely indicative of the general content of the paper. Figures should be included if they are vital to proper evaluation of a paper's merit. Detailed and comprehensive abstracts will facilitate (1) the arrangement of papers by logical topic, (2) the accomodation of the maximum possible numbers of papers, and (3) the preparations concerning the publication of the papers.

The Review of Palaeobotany and Palynology will be the publishing medium of the Symposium proceedings. We anticipate that a double issue will be devoted entirely to papers on Permian and Triassic palynology. Details about the editorial policy and the format for final manuscript will be forwarded to those who respond to the present note.

Submission of an abstract after January 1, 1973, does not longer guarantee that the paper will be allotted a place on the Symposium program.

Yours sincerely,

  
H. Visscher

Utrecht, October 1972.

Please complete and return before January 1, 1973 to:  
H. Visscher  
Laboratory of Palaeobotany and Palynology  
Heidelberglaan 2,  
De Uithof  
Utrecht - The Netherlands

The undersigned,  
Name:.....  
Address:.....

intends to contribute to the C.I.M.P. Symposium on Permian and Triassic Stratigraphy, Boussens 1973, the following paper:  
title:.....  
.....

An abstract of this paper has been attached or will be forwarded separately before January 1, 1973.

Time required for presenting the above paper: ..... minutes.

Date:..... Signature:.....

A manuscript red cross here  acknowledges the reception of your annual (1972) contribution.

In case, your payment has not been recorded, please inform immediately the General Secretary.

Please send your contribution to the C.I.M.P. for 1972 :

150 Belgian francs

- directly to the "Société Générale de Banque" at Liège, Belgium for the "Commission Internationale de Microflore du Paléozoïque" C.I.M.P. compte N° 240.0770 536-69.
- indirectly by postal check (virement postal) to the "Compte 446 de la "Société Générale de Banque" at Liège, Belgium (with the same mention and N° as above on that part of the check reaching the Bank).
- or, for overseas members, indirectly by a check of US dollars 4.00\* sent to the General Secretary with the following form.

\* to cover the heavy fees needed for recovering the amount of these checks.

NAME :

ADDRESS :

to be sent back to : Dr.M.STREEL  
Secretary General of the CIMP  
Paléobotanique et Paléopalynologie  
Université, 7, Place du XX Août  
B - 4000 - LIEGE, Belgium.

- wish to receive the next CIMP Newsletters.
- has enclosed a check of \_\_\_\_\_ as a contribution to 1972 CIMP activities.

Present research fields :

PLEASE, USE THIS FORM

ONLY, IF YOUR NAME IS NOT INCLUDED IN THE MEMBERSHIP DIRECTORY.

OR, IF YOU WISH TO CORRECT YOUR NAME, ADDRESS AND/OR PRESENT RESEARCH FIELDS.

AND/OR, TO ACCOMPANY YOUR CHECK.





## MEMBERSHIP DIRECTORY

with present\* research fields.

**1972**

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\* as of November 15, 1972.



DR. ADLOFF M.C.  
Centre de Sédimentologie et Géochimie  
rue Blessig, 1,

67 STRASBOURG FRANCE

Trias dans l'Est de la France, en bordure  
du Massif Central (Ardèche) et au Portugal.

Dr. B. ALPERN  
Centre d'Etudes et de Recherches  
des Charbonnages de France  
B.P. 27,  
60 - CREIL FRANCE

Palynologie et Géochimie du Carbonifère.

M.S. BARSS,  
Eastern Petroleum Geology Section  
Atlantic Geoscience Center, Geol. Surv.,  
Bedford Institute Dartmouth  
Nova Scotia CANADA.

Upper Paleozoic - Spores.

Dr. D.J. BATTEN,  
Roberson Research International Ltd  
Ty'n Y Coed, Llanrhos, Llandudno,  
NORTH WALES GREAT BRITAIN.

British early Cretaceous Palynology/  
Paleobotany. Mesozoic Palynology.

Dr. D. BEJU  
Institut de Recherches Géologiques  
Str. Toamnei, 103  
BUCAREST 9 - ROUMANIE

Palynologie du Paléozoïque et du Mésozoïque  
de la Plateforme Moëssienne.

Edward B. BLAZEY, PHD  
ST. Norbert College  
DePere, Wisconsin 54115,

Paleobotany, Palynology, Systematics.

USA

Dr. G.T. BOALCH  
The Laboratory citadel Hill,  
PLYMOUTH ENGLAND

Marine Phytoplankton, especially  
Dinoflagellates and their cysts, and  
members of the Diatomaceae and  
Prasinophyceae.

Dr. KENNETH V. BORDEAU  
P.O. Box 431  
Martin, Tenn., 38237,  
USA

SHEILA D. BRACK  
 P.O. BOX 4348  
 Dept of Biol. sci.  
 Univ. of Ill. at Chicago Circle  
 CHICAGO, ILL. 60680

Pennsylvanian age of North America  
 Coal Ball Flora.

Dr. WAYNE W. BRIDEAUX  
 3303-33rd St. NW, I.S.P.G.  
 Calgary, T2L 2A7,  
 Alberta, CANADA

Mesozoic and Tertiary miospores ; Mesozoic  
 dinoflagellates ; Devonian spores. Spore  
 nomenclature of all eras.

Dr. JACK D. BURGESS  
 Gulf Res. DIV, H.T.S.C.  
 P.O. Box 36506

Organic matter alteration, Dinoflagellates  
 ranges, stratigraphic palynology.

HOUSTON, TEXAS 11036, USA

Dr. JESS R. BUSHMAN  
 268 ESC BGU  
 Department of Geology  
 Brigham young University  
 PRABO, UTAH, U.S.A.

Sedimentation. Archeological palynology.  
 Cretaceous palynology.

Dr. JAMES E. CANRIGHT  
 Department of Botany  
 Arizona State University  
 Tempe, ARIZONA 85281 U.S.A.

Palynology in Arizona : 1) M(?) to Upper  
 Devonian ; 2) Penn.-Permian boundary ;  
 3) Upper Cretaceous and Tertiary. (Miocene o  
 Taiwan).

CHATEAUNEUF J. J.  
 B.R.G.M. SGN/GEO  
 B.P. 6009

Paleozoic Sahara et Espagne. Mésozoïque  
 et Cénozoïque de France. Quaternaire  
 d'Aquitaine (France).

45. ORLEANS 02 FRANCE

Dr. Carol Ann CHMURA  
 Mobil Research Dev. Corp.  
 P.O. Box 900  
 15.221 DALLAS, TEXAS  
 U.S.A.

Cretaceous Angiosperm Pollen.

RAYMOND A. CHRISTOPHER  
 Dept. Geology, Auburn University  
 AUBURN, ALABAMA 36830  
 U.S.A.

Early angiosperm pollen of coastal plain  
 of U.S. ; Jurassic miospores from Alabama.

Dr. G. CLAYTON  
 Dept. of Geology, Univ. of Sheffield  
 Mappin St, SHEFFIELD S13JD,  
 ENGLAND

DR. JOHN A. CLENDENING  
 Arco Production Company  
 P.O. BOX 3092

HOUSTON, TEXAS 77001 USA.

Mr. A. COMBAZ  
 Compagnie TOTAL,  
 Direction Exploration,  
 20, rue Jean Jaures,  
 92 - PUTEAUX FRANCE

J.W. COOPER  
 TEXACO INC.  
 B.P. BOX 60252  
 NEW ORLEANS, LOUISIANA 70160  
 U.S.A.

Mr COQUEL Robert  
 Université de Lille  
 U.E.R. des Sciences de la Terre (s n 5)  
 B.P. 36  
 59 VILLENEUVE d'ASCQ FRANCE

DR. FRITZ H. CRAWER-DIEZ  
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 Florida State University  
 TALLAHASSEE, FLORIDA 32306  
 U.S.A.

Norma Maria Melo DA COSTA  
 Av. Osvaldo Cruz No 115, Apto 704  
 20.000 RIO DE JANEIRO, Flamengo  
 BRASIL.

Mr. Barrie DALE  
 Woods Hole Oceanographic Institution  
 WOODS HOLE, MASS. 02543 - USA

Dr. Aymar DA SILVA SANTOS  
 rua Marechal Floriano, 37  
 Bloco Apt 205  
 Bairro-Canela  
 Salvador BAHIA BRASIL

British and Irish Devonian and Carboniferous  
 mio- and megaspores. Electron microscopy.

Paleozoic palynology, principally  
 Pennsylvanian-Permian palynology.

Chitinozoaires. Géochimie de la matière  
 organique.

Cretaceous and Jurassic calcareous  
 Nannoplankton.

Etudes palynologiques des formations  
 schisteuses du bassin houiller du Nord  
 de la France.

Oligo-elements in Kerogen ; Silurian-  
 Ordovician phytoplankton stratigraphy.

Brazilian Silurian and Devonian microfossil  
 assemblages, with special emphasis on  
 Chitinozoans and Tasmanitids.

Modern dinoflagellates - their paleontolo-  
 gical significance.

Mrs. M. DEMARET-FAIRON  
203 Plant Science Building,  
Cornell University  
ITHACA, N. Y. 14850, USA.

1  
Etude de la mégaflore fossile du Dévonien  
belge. Palynologie du Dévonien inférieur et  
moyen.

Mr. l'Abbé A. DELCOURT  
2. rue Dr. Degauwe  
7380 - FLOBECQ (Belgique).

Palynologie du Jurassique et du Crétacé.

Dr. DEL RIO Myriam  
Istituto di Geologia dell'Università  
Via Trentino 51  
09100 CAGLIARI ITALY

Stratigraphie du Permo-Carbonifère de  
la Sardaigne.

Dr. DEUNFF Jean  
Université de Rennes  
Géologie G3 - Institut de Géologie  
35031 RENNES CEDEX FRANCE

Acritarches du Paléozoïque (Trémadocien  
à Dévonien supérieur).

Dr. Graham DOLBY  
West Australian Petroleum PTY.LTD.  
St. George's Terrace, 12-14  
PERTH, WESTERN AUSTRALIA, 6000

Devonian-Carboniferous spores. Permian  
and Triassic pollen, spores and acritarchs.  
Upper Devonian and Lower Carboniferous  
stratigraphy.

Dr. DOUBINGER Jeanne  
ru Blessig, 1  
61 STRASEBURG FRANCE

Palynologie du Permo-Trias européen, du  
Crétacé-Tertiaire sud-américain.

Dr. C. DOWNIE  
Dept. of Geology  
University of Sheffield  
Mapin Street  
SHEFFIELD S1 3JD ENGLAND.

Acritarchs and Chitinozoa (Cambrian to  
Devonian).

Dr. M. DRICOT  
Laboratoire de Paléontologie  
Sint-Michiëlstraat, 6  
3000 LOUVAIN, BELGIQUE.

Acritarches du Dévonien belge.  
Palynologie du Plio-Pléistocène belge.

Dr. Warren S. DRUGG  
c/o Chevron Oil Field Research Co.  
P. O. Box 446  
LA HABRA, CALIFORNIA 90631, USA

Primarily dinoflagellates, Jurassic to  
Recent. Interested in Spores and Pollen.

Mr. Robert E. DUNAY  
Organic Sediments Lab.  
431 DEIKE  
University Park, Pa 16.802  
U.S.A.

Triassic Palynology.

Mr. L.E. EAMES  
AMOCO Production LD.  
Research Center  
P.O. Box 591 TULSA OKLAHOMA  
74102 U.S.A.

Paleozoic Palynology. Devonian-  
Mississippian and Pennsylvanian.

- Dr. EISENACK Alfred  
741, REUTLINGEN,  
Sickenhäuser STR. 103/72  
GERMANY-WEST
- Dr. William C. ELSIK  
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- Drs. A. W. van ERVE  
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State University of Utrecht  
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UTRECHT - THE NETHERLANDS.
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- Dott. Anna GANDIN  
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ITALIE
- Dr. Teresa GORECKA  
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WROCLAW 5  
POLOGNE
- Dr. Hanna GORKA  
Warsaw University, Inst. of Geology  
WARSZAWA 22, POLAND  
al. Zwirki i Wigury 93
- Chitinozoa.
- Special interests in Cenozoic palynology,  
diatoms, and fossil fungal spores.
- Upper Triassic and Lower Jurassic Pollen  
and Spore Assemblages of Western Europe.
- Dinoflagellates and acritarchs.
- Gondwana Upper Palaeozoic palynology and  
stratigraphy.
- Devonian and Triassic of South America.  
Cretaceous of West Africa.
- Upper Paleozoic Stratigraphy.  
Palynological statistics.
- Stratigraphie du Cambrien de la Sardaigne.
- Palynologie du Carbonifère.
- Microorganismes (Acritarcha) de l'Ordovicien  
et du Dévonien de la Pologne.

Dr. Hilde GREBE  
415 KREFELD  
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Geol. Landesamt  
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Spores from the Carboniferous.  
Spores from the Lower Cretaceous.

Dr. Peter H. GRIGGS  
Texaco Trinidad, Inc  
Pointe-à-Pierre  
TRINIDAD  
WEST INDIES

Mainly Tertiary and Mesozoic biostratigraphy  
in Central and South America with some  
general biostratigraphic work in the  
Paleozoic.

DR. GRIGNANI Dario  
AGIP - SPA. - GEOL.  
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20100 - MILANO ITALIE

Chitinozoaires - Palynologie du Paléozoïque  
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Dr. K.J. GUEINN  
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MAPPIN STREET  
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Carboniferous Palynology of the  
British Isles.

Dr. SUJOY GUPTA  
Department of Earth Sciences  
East Texas State University  
COMMERCE, TEXAS 75428  
U.S.A.

Pennsylvanian and Permian palynology  
special reference to the biostratigraphy  
of Texas, U.S.A.

Dr. John W. HALL  
Dept. of Botany  
University of Minnesota  
MINNEAPOLIS MN 55455  
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Cretaceous Palynology.

Dr. Rex HARLAND  
Institute of Geological Sciences  
Ring Road Halton  
LEEDS LS 15 8 TQ  
ENGLAND

Mesozoic and Cainozoic organic-walled  
microplankton.

Dr. WAYNE K. HARRIS  
Geological Survey of South Australia  
Box 38 Rundle St., P.O., ADELAIDE.  
SOUTH AUSTRALIA, 5000

Permian palynology, South Australia;  
Upper Mesozoic and early Tertiary palynology

Dr. Richard W. HEDLUND  
Amoco Production Co.  
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P.O. Box 591  
TULSA, OKLAHOMA 74102 U.S.A.

Mesozoic-Tertiary of Austral Basin,  
Argentina. Jurassic Palynology.

Dr. HELBY Robin  
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SYDNEY 2000 AUSTRALIA

Dr. G.F.W. HERNGREEN  
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Dr. Aharon HOROWITZ  
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Prof. N. HUGHES  
Department of Geology, Sedgwick Museum  
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54/60 Victoria St.  
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Dr. Milada KALIBOVÁ-KAISEROVÁ  
Ústřední Ústav Geologický  
Václavské nám. 19  
PRAHA 1  
TCHECOSLOVAQUIE

Dr. KALVACHEVA Rossitsa  
Geological Institute, ul 36  
SOFIA 13  
BULGARIA

Permian-Triassic palynology.  
Early Cretaceous palynology.

15

Palynomorphs and dinoflagellates (Zechst.-  
U. Cretaceous). Offshore drilling activities  
and contin. borings. Brazilian Cretaceous  
palynomorphs.

Permian, Triassic and Quaternary palynology.

1. U. Cretaceous-L. Tertiary palynology  
(angiosperm pollen, spores, fungi, dino-  
flagellates).
2. Scolecodontes (Ordovician-Tertiary).
3. Chitinozoa (not active).
4. Classification of fossil spores on generic  
and suprageneric level.

Palynologie du Paléozoïque et du Mésozoïque.

U. Jurassic and Cretaceous spores and dino-  
flagellates. Stratigraphy in eastern North  
America, particularly on the Grand Banks and  
the Nova Scotia shelf.

Jurassic dinoflagellates, Canadian arctic  
islands ; Tertiary palynology, northern  
Alaska.

Stratigraphic palynology in general.

Systématique et stratigraphie des spores  
du Carbonifère et Permien.

Acritarchs, Ordovician, W. Balkan mountain,  
Bulgaria.

Dr. Göran KJELLSTRÖM  
Geological Survey of Sweden  
S 104 05 STOCKHOLM  
SUEDE

Ordovician-Silurian acritarchs from Balto-Scandia, Sweden. Cretaceous dinoflagellates from Scandia, Sweden. Catalogue project for fossil dinoflagellates (published by Schweizerbart'sche Verlag).

Dr. Elizabeth M. KEMP  
Dept. Geology, Florida State University  
TALLAHASSEE FLORIDA 32306  
U.S.A.

Palynology of Southern Hemisphere. Late Palaeozoic glacial deposits: Lower Cretaceous palynology; palynology and palaeoclimates of Antarctica.

Dr. ABBAS KIMYAI  
Department of Geology,  
Faculty of Science,  
University of Tehran  
TEHRAN IRAN

Palynology of Devonian-L. Carboniferous, Jurassic and Cretaceous.

Dr. KONZALOVA-MAZANCOVA Magda  
Geological Institute  
Academy of Sciences  
PRANA 2 - VINOHRADSKA 93  
CZECHOSLOVAKIA

Micropaleontology of the Precambrian-Cambrian (Acritarchs). Upper Cretaceous assemblages of microfossils.

Dr. KREMP G.O.W.  
The University of Arizona  
Dept. of Geochronology  
TUCSON, ARIZONA 85721  
U.S.A.

Computerization of Palynology; Spore morphology; Paleoplant-geography.

Dr. G. LACHKAR  
Laboratoire de Micropaléontologie  
Faculté des Sciences  
191, rue St Jacques - PARIS - FRANCE.

Palynologie du Carbonifère

Dr. Frederico Waldemar LANGE  
Rua Honorio de Barros 27/701  
RIO DE JANEIRO, GB--ZC-01  
BRASIL

Silurian and Devonian Chitinozoa, Acritarcha and Scolecodonts. Precambrian microfossils in general.

Dr. LANZONI ENZO  
AGIP - Lab. di Paleontologia  
20097 S. DONATO MILANESE  
ITALIE

Palynologie du Paléozoïque.

Dr. LATCHEVA  
57, rue Tsar,  
SOFIA - BULGARIE.

Palynologie du Paléozoïque.

Dr. SVEN LAUFELD  
Instituto of Palaeontology  
Solvegatan 13  
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Chitinozoa. Lower Palaeozoic stratigraphy, mainly Silurian, Ordovician-Silurian boundary, Silurian-Devonian boundary.



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Paleozoic, Mesozoic and Cenozoic palynology  
(stratigraphic) of Canada.

Paleozoic palynology, Devonian chitinozoa,  
Acritarcha - Spores.

Palynologie du Houiller français et espagnol  
(méga- et miospores).

Silurian-Devonian palynology.

Karoo paleobotany/palynology. Mesozoic  
paleobotany/palynology. N. Norway,  
Barents Sea, Svalbard.

Microfossiles à paroi organique d'âge  
cambrien supérieur à ordovicien - Massif du  
Brabant (Belgique) et Montagne Noire (Hérault  
France).

Palaeopalynology (Permian and Carboniferous  
microfloras).

Carboniferous and Permian plants of Russian  
platform and Siberia ; megafossils, spores  
from sporangia, dispersed cuticles.

Mesozoic and Paleozoic stratigraphy.

Dr. MILLEPIED Pierre  
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Tertiaire inférieur de Mer du Nord et tous problèmes Paléozoïques.

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Mesozoïques dinoflagelles, Paleozoïques acritarchs.

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Biostratigraphic palynology of Ordovician to Carboniferous, plus Mesozoic and Tertiary of S. America.

Dr. MOREAU-BENOIT Arlette  
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Spores et Chitinozoaires du Siluro-Dévonien du Massif Armoricaïn. Spores et Chitinozoaires du Paléozoïque de Libye.

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Upper Triassic (Rhaetian) Palynology of Western Europe.

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O.R.S. and L. Carb. stratigraphical palynology. Triassic, Jurassic stratigraphical palynology.

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Precambrian microfossils. Scanning electron microscopy (inc. analytical techniques) of spores and pollen.

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Tertiary Palynology and planctonic organisms.

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Palaeozoic Palynology {of coal  
Tertiary Palynology {of lignites }

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Devonian and Carboniferous Palynology.

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Lower Carboniferous Palynology. Lower  
Palaeozoic Chitinozoa.

Dr. Karl R. NEWMAN  
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1. Cretaceous-Tertiary palynology, Western North America.
2. Geology of coal and oil shale in Colorado, U.S.A.

Dr. Emanuel J. NIEVES  
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Flora of the Upper Paleozoic and Lower Permian of Venezuela.

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CANADA

Mesozoic miospores and microplankton.

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Washington 98195, U.S.A.

Extant Dinoflagellates and Prasinophyceae.  
Extant siliceous Chrysophyceae and extant  
Coccoliths.

Dr. OSCHURKOVA MAYA Vladimirovna  
All Union Geol. Research Institute  
Ministry Geology. (VSEGEI).  
LENINGRAD . 199026.  
Sredniy pr. 72-b. USSR

Carboniferous mega- and microspores from  
Tunguss province (coal basins : Karaganda,  
Minusa, Tunguska).

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Palynologie du Dévonien.

Dr. Bernard OWENS  
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- 1) Devonian and Carboniferous palynology in U.K.
- 2) Palynology of proposed boundary stratotypes of Upper Namurian and Westphalian in U.K.
- 3) Palynology of M. and U. Devonian from Arctic Canada.

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Cretaceous and Tertiary spores, pollen and  
Dinoflagellates; modern pollen.

Dr. P. PIERART  
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Palynologie du Gondwana et chimie de la sporopollenine.

Dr. Richard L. PIERCE  
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Cenozoic, Mesozoic and Paleozoic pollen stratigraphy of Arctic areas.

Dr. G. PLAYFORD  
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Upper Devonian-Carboniferous palynology ;  
Cretaceous palynology.

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Palynology and Mesozoic and Tertiary sediment  
Study of all aspects of organic matter  
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Synopsis der Gattungen der Sporae dispersae  
und Sporae in situ.

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Lower Paleozoics of the Canadian Arctic  
Islands, Canada. Devonian of the Northwest  
Territories, Canada.

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Chitinozoaires - Acritarches - Spores.  
Paléozoïque inférieur.

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Silurian - Devonian - Lower Carboniferous.  
Palynology and Biostratigraphy.

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Spores, acritarchs, Devonian, Germany.  
 Dinoflagellate cysts, Cretaceous, Spain.

Dr. Jerome RUBIN  
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Dinoflagellates of the Eocene of the New  
 Jersey coastal plain.

Dr. Jaime RUEDA-GAXIOLA  
 Manuel Gonzalez 246-f-711  
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 MEXIQUE

Recherche palynologique et planctologique des  
 sédiments mésozoïques du Mexique. Division  
 palyno-stratigraphique du Jurassique. Rédaction  
 d'un livre de texte sur la Paléopalynologie  
 pour les étudiants de langue espagnole.

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Pre-Devonian and Devonian palynology.  
 (Tertiary palynology).

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Principally Mesozoic (Dinoflagellates and  
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Makro- und Mikroflora, Devon, Mesozoikum.

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Chitinozoa, Acritarcha pp., (Foraminifera).

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Etude des microfossiles végétaux du  
 Tertiaire inférieur de Belgique.

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Carboniferous stratigraphy.

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Mesozoic and Tertiary Palynology, especially  
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Palynology service work, chiefly Devonian-  
Carboniferous.

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Fossil spores and pollen.  
Dinoflagellates and Acritarchs.

Dr. M. STREEL  
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Devonian and Lower Carboniferous spores  
of Ardenno-Rhine basins.  
Palynology of recent deposits on the  
Belgian coast.

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Devonian and Mississippian palynology.  
Organic Geochemistry.

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-Has been active in the Ordovician-Silurian  
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-Now : Mesozoic and Tertiary of the Arctic.

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