

NEWSLETTER

AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS

VOLUME 7

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NUMBER 3

Richard L. Pierce, Editor

Eloy Salas, Correspondent

Richard W. Hedlund, Ass't. Editor

David J. McIntyre, Correspondent

PRESIDENT'S PAGE

It seems like it was only yesterday that I finished the President's Page article for the March Newsletter and now Rick is beating on me for the June epistle. Where does the time go?

Incorporation of AASP passed by a resounding margin, 229 For, 4 Against, as reported in the postscript on my letter announcing the Nomination Committee selection of candidates for Officers/Board of Directors for 1974-75. All of the numerous forms for the IRS had been filled out in anticipation of the "yes" vote. These forms now have been duly filed with the IRS and I have received almost a "Dear Occupant" letter that states our application will be considered as soon as possible and they will let us know whether AASP will be exempt under Section 501(c)(3). In other words ... "don't call us, we'll call you". So we'll wait.

Freddie's Statistics in Stratigraphic Palynology (Contributions Series #3) has been printed, collated, spiral binder punched, and is ready to be bagged and mailed to members. Right now (June 4) about 500 copies, in eight boxes, are in my office and I keep tripping over them. They will be mailed later this week, and you should have them by the time you receive this Newsletter (overseas copies will probably take two months to arrive).

The Seventh Annual Meeting (Calgary) will soon be upon us. Now is the time (or perhaps even past time) to think about preparation of a paper to present at the meeting. Comments pertaining to AASP meetings in general were gathered from a number of attendees at the Anaheim and some are presented below.

1. There should be no "rigid" time allotment for papers, i.e. 20 minutes. It is painful to hear a paper, that would be great if presented in 10 minutes, dragged out to cover a 20-minute time span. The same is true for a paper that needs 30 minutes but is given at breakneck speed to comply with a 20-minute time limit. Let the paper dictate the time limit not the other way around.

2. Can the Association purchase or rent good projection equipment for the meetings. (Projection equipment was rented for the Anaheim meeting). Jim Urban said he had a stereo projector that could be used at the meetings if needed.
3. One of our members from the academic community pointed out that most of the papers presented were by academic rather than oil company personnel. He wanted to see more papers from oil company palynologists.
4. The questions and answers after each paper should be recorded, and the pertinent comments perhaps included in the published report in the Proceedings Volume.
5. The paper presented at the meeting should be the paper published. Do not allow a substitute paper to be published in the Proceedings Volume. Also, in order to be published in the Proceedings Volume, the paper must be presented at the meeting.

Take heart, you will have only one more of my soapbox editorials to wade through!! [We will miss them. Editor]

Robert T. Clarke
President, AASP

1974-75 SLATE OF CANDIDATES

The Nominating Committee, under the Chairmanship of Geoffrey Norris has submitted the following slate of candidates for the 1974-75 term for the American Association of Stratigraphic Palynologists.

For membership on the Board of Directors and for the office of:

President:	Richard W. Hedlund Harry A. Leffingwell
Vice President:	William C. Elsik Norman J. Norton

Secretary-Treasurer: Herbert J. Sullivan
Editor: Richard L. Pierce
Councillors: Jack D. Burgess
William W. Fairchild
Dewey M. McLean
James B. Urban

Additional nominations may be submitted in accordance with Article 7.03 of the Bylaws. Nominations from the membership should be submitted to Herbert J. Sullivan, Amoco Canada Petroleum Company, Ltd., 444 7th Ave., S.W., Calgary, Alberta, Canada T2P-0Y2.

Article 7.03 of the Bylaws states that:

"Additional nominations may be made by any member in good standing by submitting a petition, signed by at least nine other members in good standing, to the Secretary-Treasurer by July 15."

MID-YEAR EXECUTIVE COMMITTEE MEETING

AASP's executive committee held its mid-year meeting on April 4 in the Gold Room of the Palliser Hotel, Calgary, Alberta. The meeting was chaired by Clarke with Brideaux, Sullivan, Pierce, Engelhardt, Rouse, Williams, McIntyre, Norris and McGregor as participants. Following is a summary of the business transacted:

- 1) Accepted the Membership Report which showed a total of 370 members as of April 1, 1974. During 1973 AASP's membership increased by 40, a record.
- 2) Accepted the Treasurer's Report which indicated AASP's total present assets are \$5,435.25. Disbursements associated with purchase of Proceedings volumes and meeting arrangements have totaled \$3,576.04 since October 8, 1973.
- 3) Accepted the Editor's Report which listed two Newsletters as having been distributed since the Anaheim meeting and two volumes in the AASP Contribution Series in preparation.

4) Discussed the status of Annual Meetings:

- a. Anaheim 1973: Harry Leffingwell's and Ken Piel's "Past-Meeting Analysis Report" revealed the cost of the Anaheim meeting was \$4,058.33. Receipts totaled \$3,891.61. It is expected that a part of the \$166.72 deficit will be covered by a bus Company refund.
- b. Calgary 1974: Early commitments indicate the meeting will be attended by at least 84 people. As presently structured the program will consist of 32 technical papers and four invited papers. The technical sessions have been organized into five major divisions:
 1. Arctic Palynology, W. W. Brideaux, Convenor.
 2. 'Top Twenty' Palynomorphs, H. J. Sullivan, Convenor.
 3. Palynology at the J/K Boundary, S.A.J. Pocock, Convenor.
 4. Fossil Fungal Remains, J. Jansonius, Convenor.
 5. General Palynology, L. V. Hills and W. W. Brideaux, Convenors.
- c. Houston 1975: Requested Bob Clarke to recommend to the Houston committee that membership canvassing be postponed until after the Calgary meeting, and that the technical session be reduced from four days to three days.
- d. Halifax 1976: The tentative subject divisions proposed by the Halifax committee are "Continental Drift and Floral Provincialism", "Offshore Palynology" and "General Palynology". A field trip to Cape Breton is being planned.
- e. Tulsa 1977: Discussion deferred.

5) Approved the following motions;

- a. A motion to establish a Best Student Presentation Award with a prize of \$50.00. (Further details in following section.)

- b. A motion to donate \$100.00 to ICP to help defray its initial organizational expenses.
- 6) Conducted such other Old and New Business as necessary to bring the Executive Committee up to date.

BEST STUDENT PRESENTATION AWARD

The Executive Committee has approved a "Best Student Presentation Award" to encourage greater student participation in AASP meetings. The prize will be \$50.00. Any student in graduate school or who has received his degree within the same calendar year as the presentation will be eligible for the award. Papers co-authored with non-students will be eligible as long as they are delivered by the student. A panel of four judges, one of whom may be a student, will be responsible for the selection.

CALGARY MANUSCRIPT DEADLINE AND PREPARATION

The present deadline for manuscripts that are to be published in the Calgary Proceedings volume of Geoscience and Man is December 1. However, this is a tentative deadline that may be modified when the LSU Press publishing schedule is firmed up. A definite deadline will be announced at the Annual Dinner Meeting. It is helpful when authors get their papers in early, and December 1st is not too early, but it is frustrating to an author when his manuscript pulls deadtime after he's met the deadline.

Authors who are intending to submit their papers for publication in the Calgary Proceedings volume should follow the LSU Manuscript Preparation Guide. Guides will be made available at the meeting or you can request one earlier by writing either Rick Pierce or Bob Perkins. Particular attention should be paid to plate preparation requirements. LSU Press uses a mylar film overlay technique for masking; consequently, photographs should not be excessively trimmed. Authors may request that a photograph's background not be masked, but the LSU editorial staff has reserved the right to reject a paper when such a request will produce a plate that does not meet LSU's standards.

There will be a brief meeting at Calgary for authors interested in going over the preparation guide. Either Bob Perkins or Rick Pierce will go through the editorial process for you. Hopefully such a meeting will expedite manuscript preparation and clear-up some nagging questions.

AASP PUBLICATIONS THROUGH JUNE, 1974

There have been numerous inquiries relative to the back purchase of AASP publications and the pricing policy for new members. Following is a list of the publications available. New members receive free those publications that come out during the year they become members. Previous publications must be purchased from the sources cited and there is no member discount.

Proceedings Volumes

1. First Annual Meeting - Contains eight (8) articles and all abstracts of papers presented at the Louisiana State University Meeting. 141 pages, 18 plates. Published 1970. Cost \$7.50.
2. Second Annual Meeting - Contains nine (9) articles and all abstracts of papers presented at the Pennsylvania State University Meeting. 104 pages; 12 plates, one in color. Published 1971. Cost \$7.50.
3. Third Annual Meeting - Contains twelve (12) articles and all abstracts of papers presented at the Toronto Meeting. 141 pages, 16 plates. Published 1972. Cost \$8.25.
4. Fourth Annual Meeting - Contains twelve (12) articles and all abstracts of papers presented at the Tucson Meeting. 133 pages, 18 plates. Published 1973. Cost \$9.50.

Contributions Series

1. No. 1 - A Bibliographic File for Computer Analysis of Permian Palynological Data (1933-1969) by George F. Hart. Issued September 1970. 40 pages. Xerox offset copies available. Cost \$2.00.
2. No. 2 - A Glossary of the Terminology Applied to Dinoflagellate Amphiesmae and Cysts and Acritarchs by Graham L. Williams, William A. S. Sarjeant, and Evan J. Kidson. Issued July 1973. 222 pages. Cost \$5.00.

3. No. 3 - Statistics in Stratigraphic Palynology: An Annotated and Indexed Bibliography by Norman D. Frederiksen. Issued June, 1974. 65 pages. Cost \$2.50.

Field Trip Guidebooks

1. 1968 Annual Meeting
Lower Mississippi Valley - Out of print.
2. 1969 Annual Meeting
Carboniferous of Western Pennsylvania - 78 pages. Cost \$3.50.
3. 1970 Annual Meeting - No specific guidebook published.
4. 1971 Annual Meeting
 - (a) Petrified Forest and Meteor Crater, illustrated.
Cost \$5.00.
 - (b) Lehner Site, Pleistocene. Cost \$1.00.
5. 1972 Annual Meeting
Cape Cod Area - Out of print.
6. 1973 Annual Meeting
 - (a) Sequoia and Kings Canyon National Parks, illustrated.
Cost \$5.00.
 - (b) Torrey Pines - La Jolla - illustrated. Cost \$2.00.

Abstracts of Papers Presented at Annual Meetings

1. 1968 - Baton Rouge - Out of print.
2. 1969 - Penn State - 29 pages. Free.
3. 1970 - Toronto - 35 pages. Free.
4. 1971 - Tucson - 31 pages. Free.
5. 1972 - Kingston - 32 pages. Free.
6. 1973 - Anaheim - 44 pages. Free.

Where to Order

Proceedings Volumes: Bob F. Perkins
School of Geoscience
Louisiana State University
Baton Rouge, Louisiana 70802

All Other Items: Herbert J. Sullivan
Amoco Canada Petroleum Company, Ltd.
444 - 7th Avenue, S.W.
Calgary, Alberta, CANADA T2P 0Y2

AASP CONTRIBUTIONS SERIES NO. 3

Norm Frederiksen's "Statistics in Stratigraphic Palynology: An Annotated and Indexed Bibliography" will be mailed to members in June. Norm has done an excellent job of annotating the literature of this complex subject. It will become an essential reference for the application of statistical techniques to palynology. We thank Mobil Research and Development Corporation for printing the contribution and Bob Clarke for handling the final editing, indexing and printing arrangements.

SPECIAL PUBLICATION

The Geological Society of Australia Inc. advises publication of the following palynological volume:

GLOVER, J.E. & PLAYFORD, G. (eds.). Mesozoic and Cainozoic Palynology:

Essays in Honour of Isabel C. Cookson. Spec. Publ. Geol. Soc. Aust.,

4, 211 pp., 31 plates. (December 1973)

Price - \$A12.00 (about \$17.00 US), including postage/handling. Prepaid orders only from Assistant Secretary, Geological Society of Australia Inc., 24 Wentworth Avenue, Sydney, N.S.W., Australia 2010.

THIRD INTERNATIONAL CONGRESS PAPERS

Al Traverse has informed us that all the Novosibirsk publications he knows of that have been issued to date have been listed in "Novyi Knigi", the weekly list of Soviet publications. There appears to be several ways of obtaining the papers:

- 1) Borrow them from a colleague who admits to having them.
- 2) Appeal for copies from some Soviet palynologist with whom you have established an effective rapport.
- 3) Try to purchase them through a North American representative for Soviet publications, e.g., Four Continent Book Corp., 156th 5th Avenue, New York, N.Y. 10010.

Anyone have additional suggestions, or a list of titles? This search for hard data on IPC III could become a Newsletter soap serial saga, or should this alliteration be soap saga serial?

FOR ARCTIC PALYNOLOGISTS

The Manum and Cookson 1964 paper entitled "Cretaceous microplankton in a sample from Graham Island, arctic Canada" has apparently been difficult to obtain of late. S. B. Manum advises that it can be purchased from the Oslo University Press, Blindern, Oslo 3, Norway, for \$2.00 a copy. Xerox copies of this paper are usually unsatisfactory because the plates do not reproduce well using the Xerox process.

ICP WORKING GROUPS

The International Commission for Palynology has established two working groups in preparation for the IV International Palynological Congress to be held at Lucknow, India, in 1976. Jim Brooks is convenor for Working Group P1 whose subject area is "Diagenesis of Miospores and Methods of Palynologic Preparation". Working Group P2, with Norm Hughes as convenor, has as its subject area "Improvement of Palynologic

Data-Handling for Stratigraphic Correlation". The two groups will hold their first meeting at Cambridge, Sept. 16-17, 1974. Anybody wishing to participate in a working group, even if he/she cannot attend the Cambridge meeting, is urged to contact either of the convenors.

AASP's representative to ICP is Al Traverse. As such he does receive the ICP Circulars. We inadvertently omitted him from an earlier list of circular recipients. Current information on ICP's preparations for Lucknow can be secured from Al in the future.

"MOD"

The Matiere Organique Dispersee Commission of the International Committee for Coal Petrology held a meeting in Paris during Sept., 1973. Copies of minutes of that meeting may be obtained from Neely Bostick. Anyone interested in organic maturation studies will need the summary of that meeting. Among other items, the minutes contain directions for joining I.C.C.P.

COPROPALYNOLOGY AT TEXAS A&M

At the risk of appearing to have been scatologically titillated, our attention was recently drawn to a newspaper article about Vaughn Bryant's study of fossilized human excrement. Vaughn is reputed to have one of the finest collections of human coprolites in existence, with much of the collection having been donated by the late Eric Callen of McGill. Chili pepper aficionados may be surprised to learn Vaughn has evidence that chili peppers were in the diet of Andean Indians as early as 6600 B.C. Glenna Williams-Dean, a student of Vaughn's, is a new member of AASP. We certainly hope to hear from them at some future AASP meeting.

SOUTH OF THE BORDER

Eloy Salas has submitted the following newsbriefs about his colleagues in Mexico:

I.N.A.H. (Instituto Nacional de Antropologia e Historia).

Lauro Gonzalez: Palynologic study of Santa Marta' Cave in Chiapas, Mexico.
Palynologic exploration of shallow lagoonal deposits in
Kankum, Yucatan, Mexico.
Pollen analysis in Holocene deposits from Abasolo,
Guanajuato, Mexico.
Palynologic study of Chapala Lake, Jalisco, Mexico
(Upper Pleistocene-Recent).

E.N.C.B. (Escuela Nacional de Ciencias Biologicas) Instituto Politecnico
Nacional.

Rodolfo Palacios-Chavez: Modern pollen rain in different environments
of the Valley of Mexico.
Miocene palynology in the area of Huimanguillo, Tabasco,
Mexico.

I.M.P. (Insituto Mexicano del Petroleo).

Roberto Flores: Paleobotanic studies of Lower and Middle Jurassic from
NW Oaxaca and South of Puebla, Mexico.
J. Rueda: Palynologic studies of Triassic-Lower Jurassic sediments
of NNE of Mexico.
E. Salas: Illustrated catalog of palynomorphs from Mexico.

Instituto de Geologia (Universidad Nacional Autonoma de Mexico)

R. Weber: Taxonomic study of megafossil ferns, palms and conifers
from the Olmos Formation, Coahuila, Mexico.
Fossil flora from the Carnian of Sonora, Mexico.
Socorro Lozano: Plants in travertine from the Pleistocene of Mexico.
(Thesis).

PRE-CAMBRIAN LITERATURE REQUEST

AASP has received a request from Miss Amtul Khadeer for palynological literature relevant to her studies on the organic material in pre-Cambrian rocks of India. Members who have publications or copies of papers they believe may assist her in her research are requested to

sent them to:

Miss Amtul Khadeer, Research Fellow
Department of Geology
University of Mysore
Manasa Gangotri
Mysore 6, South India

1974-75 AASP DIRECTORY REVISION

Please check your address label on this Newsletter mailing. If any corrections are required, send them to the AASP editor by August 15. In addition, check the directory to see if your telephone number is correct. It is advisable to include your business phone number in the directory to facilitate contact.

DIRECTORY OF PALYNOLOGISTS: WESTERN HEMISPHERE

Bill Elsik has contributed a biographic directory for 569 western hemisphere palynologists to the AASP editor's file. The directory was prepared in 1970, and much of the information in it is out of date. However, it has both historical and statistical value. We will be happy to send it to anyone who wishes to reproduce a copy for their files.

L. R. WILSON HONORED

"L. R. Wilson, George Lynn Cross Research Professor in the School of Geology and Geophysics at The University of Oklahoma and geologist with the Oklahoma Geological Survey, was honored by the Palynological Society of India by being named recipient of the sixth Professor Gunnar Erdtman International Medal for Palynology. The medal was bestowed on Dr. Wilson, November 26, at Bose Institute in Calcutta, following his address on 'Palynomorph Floras and the Drifting Continents' to a specially convened seminar. The occasion also marked his election to the College of Fellows of the Palynological Society of India, which has its headquarters at the National Botanic Gardens in Lucknow.

"The medal, given in recognition of Dr. Wilson's academic eminence and distinctions, and by virtue of his significant contributions towards international understanding and goodwill in Palynological Science, was established in 1968 by the Indian society to further research in this specialized field. It was named to honor the late Gunnar Elias Erdtman.

"Previous recipients of the medal include scientists from the U.S.S.R., the United States, Norway, and the United Kingdom."

Doc, you've hoed a hard row and more than deserve this honor. We could only wish that Ray were around to give palynology a triple crown. Was S., W. and B really 30 years ago, or just yesterday?

EMPLOYMENT OPPORTUNITY

Chevron Oil Field Research Company has an opening for a research palynologist with a Ph.D. or M.S., preferably with a major in Geology. Duties will include taxonomic and biostratigraphic research projects in Mesozoic palynology. Applicants should apply in writing with resumes and references to Employee Relations, Chevron Oil Field Research Company, P.O. Box 446, La Habra, California 90631. Chevron Research is an Equal Opportunity Employer.

DAVID F. CLARK, 1946-1974

David F. Clark, who only last year became a member of the American Association of Stratigraphic Palynologists, died on February 5, 1974, after a short illness. Dave was in the employ of the Geological Survey of Canada and was stationed at the Bedford Institute of Oceanography, Dartmouth, Nova Scotia. For the last two years he had been undertaking a study of the nannofossils of the Mesozoic-Cenozoic rocks of offshore Eastern Canada. He was making noteworthy progress in subdividing the Late Cretaceous and Tertiary and in coordinating his data with other microfossil evidence. Dave was a competent scientist and a conscientious worker. He had an entertaining sense of humour which included placing glacial erratics in the trunks of coworkers cars. He will be missed by all his colleagues.

Graham L. Williams

ROBERT POTONIE, 1889-1974

Professor Robert Potonie, honorary President and founder of C.I.M.P. died on the 27th January 1974 in his 85th year. The Commission Internationale de Microflore du Paleozoique has lost in him an ardent advocate and each of us a friend who was always attentive to the work of both new palynologists and those more experienced; always ready to assist based on his wide experience in the service of Palynology.

Robert Potonie was a naturalist in the old sense of the term, that is to say he was familiar with most things in nature. However, he attained outstanding specialisation in two branches particularly - Palynology and Coal Petrology - and it was natural to turn to him in order to find a President for each of the International Commissions concerned with these problems. If his more recent work was more particularly orientated towards Palynology - his great success in this respect is reflected by the fact that his synopsis is a basic reference book in all specialist laboratories - the fields which he has explored during his scientific career comprise an impressive variety which cannot be fully expressed here.

B. Alpern - R. Neves

NEW MEMBERS

AASP is pleased to welcome the following new members:

Aicha, Achab, INRS Petrole, Case Postale 7500, Quebec 10,
Quebec, Canada, Tel. 418-657-2611.

Bebout, John W., 517 Deike Building, Pennsylvania State
University, University Park, Pennsylvania, Tel. 814-865-6543.

Bockelie, Tove G., Paleontologisk Museum, Sarsgt 1, Oslo 5,
Norway, Tel. 056-686-960.

Bindrathusu, (No other name listed), Norwegian Research
Council of Scientific and Industrial Research, 13 Hoffesevein,
Oslo 2, Norway, Tel. 695-880-973.

Colin, Jean-Paul, ESSO Production Research Europe, 213 Cours
Victor Hugo, 33321 Begles, France, Tel. (56)-90-92-10.

Downie, Charles, Department of Geology, University of Sheffield,
Mappin Street, St. George's Square, Sheffield S1 3JD, England,
Tel. (0742) 7855.

Lowe, Gary Duane, 10707 Jamacha Blvd., Apt. 38, Spring Valley,
California 92077, Tel. 714-286-6443.

Morgan, Richard Floyd, 17 Rochester Street, Warsaw, New York 14569,
Tel. 716-796-2133.

Ossian, Clair Russell, Geoscience Group, Atlantic Richfield Company,
P.O. Box 2819, Dallas, Texas 75221, Tel. 214-651-4054

Robbins, Eleanora I., 6304 Lachine Lane, Apt. 201, Alexandria,
Virginia 22312, Tel. 703-557-2549.

Roche, E., Musee Royale de l'Afrique Central, 1980-Turveren, Belgium.

Van Erve, Anton W., Laboratory of Palaeobotany and Palynology,
State University, Heidelberglaan 2, DeUithof, Utrecht, The
Netherlands, Tel. 030-532-639.

Visscher, H., Laboratory of Palaeobotany and Palynology, State
University, Heidelberglaan 2, DeUithof, Utrecht, The Netherlands,
Tel. 030-532-639.

Williams-Dean, Glenna, Department of Sociology and Anthropology,
Texas A&M University, College Station, Texas 77843, Tel. 713-845-5133.

DIRECTORY CHANGES

Alexander, Richard D., 4928 Avron Blvd., Metairie, Louisiana 70002.

Batten, David J., B. P. Research and Development, Farburn Industrial
Estate, Dyce, Aberdeen, United Kingdom.

Beju, Dan, Amoco Production Company, Research Center, P. O. Box 591,
Tulsa, Oklahoma 74102, Tel. 918-627-3400, Ext. 396.

Brack, Sheila D., to Brack-Hanes.

Brenner, Gilbert J., Department of Geosciences, State University College,
New Platz, New York 12561, Tel. 914-257-2164.

Cooper, Warren W., Gulf Research and Development, Houston Technical
Services Center, P.O. Box 36506, Houston, Texas 77036, Tel. 713-226-3796.

Cornet, W. Bruce, Jr., 252 Homan Avenue, State College, Pennsylvania
16801, Tel. 814-237-8785.

Cramer-Diez, Fritz H., Temporary change to Oct. 1st, University of
South Carolina, Geological Survey Project, FPO Box 99, New York,
N.Y. 09544.

Evitt, W. R., Tel. 415-497-4280 and 415-497-2537.

Fisher, Michael, Robertsen Research International Ltd., Tyn-y-coed,
Llanrhos, Llandudno, North Wales, United Kingdom.

Hedlund, Richard W., Tel. 918-627-3400, Ext. 516.

Hills, Len V., Tel. 403-284-5841.

Hoyer, Peter W., Department of Geology, University of Toronto, Toronto,
Ontario M5S-1A1, Canada.

Hunter, V. J., Texas Petroleum Company, Apartado Aereo 3622, Bogota,
Columbia.

Moore, Leonard V., Phillip Petroleum Company, Room 236, Frank Phillips
Building, Bartlesville, Oklahoma 74004, Tel. 918-661-5208.

Newport, R. Leo, Tel. 214-690-2429.

Nichols, Douglas J., Chevron Oil Company, P.O. Box 599, Denver, Colorado
80201, Tel. 303-292-1400.

Nygreen, Paul W., Chevron Overseas Petroleum Co., Inc., Box 3069, San
Francisco, California 94119, Tel. 415-894-7700.

Rowley, John R., Stockholms Universitet, Wallenberglaboratorist,
Lilla Frescati, S-104-05 Stockholm 50, Sweden.

Ryder, Robert T., U. S. Geological Survey, Federal Center, Building 53,
Denver, Colorado 80226.

Sweet, Arthur R., Geological Survey of Canada, Institute of Sedimentary
and Petroleum Geology, 3303 33rd Street NW, Calgary, Alberta T2L 2A7,
Canada, Tel. 403-284-0397.

Urban, James B., Tel. 214-690-2429.

Walowick, Wallace, Shell Oil Company, Bellaire Research Center, P.O.
Box 20287, Houston, Texas 77011, Tel. 713-667-5661

REMEMBER,

NEWSLETTER ITEMS

ARE

WELCOMED.

* * *

MEMBERSHIP APPLICATION FORM

THE AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS

Prof. Dr. Mr. Miss Mrs. (Please strike out ones which do not apply.)

Name _____ Date _____

Address _____

_____ Zip _____

Telephone _____

Professional affiliation: for whom _____

Nature of work (graduate student, exploration stratigrapher, etc.)

Signatures of sponsors 1) _____

(Must be members in good
standing of AASP)

2) _____

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Purpose of AASP (adopted 8 December, 1967): "...to promote the science of
palynology, especially as it relates to stratigraphic applications and bio-
stratigraphy; to foster the spirit of scientific research among the members;
to disseminate information relating to palynology."

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Please Note: Application must be accompanied by \$10.00 (USA) in order for the
Executive Committee to elect applicants to membership.

Send to: H.J. Sullivan, Amoco Canada, 444 7th Ave. S.W.,
Calgary, Alberta, Canada T2P 0Y2