



NEWSLETTER

American Association of Stratigraphic Palynologists, Inc.

VOLUME 11

SEPTEMBER, 1978

NUMBER 4

Vaughn M. Bryant, Jr.
Editor

Texas A&M University
College Station, TX 77843

Ray Christophcr
Assistant Editor

THURSDAY, 26 OCTOBER

ELEVENTH ANNUAL AASP MEETING
Del Webb's Townehouse Hotel Phoenix, Arizona
October 24-28, 1978

TUESDAY, 24 OCTOBER

9:00 a.m.-5:00 p.m. Kremp Project Steering Committee, Chieftain Room

5:00-10:00 p.m. Registration, Townehouse Lobby

7:30 p.m. Executive Committee Meeting, Chieftain Room

WEDNESDAY, 25 OCTOBER

8:00 a.m. Registration, Townehouse Lobby

8:30 a.m. Symposium #1: Microfloral Evidence of the Pennsylvanian-Permian Boundary. Cortez Room. Convenor: John A. Clendening, Amoco Production Company, Houston, TX.

J.A. Clendening: A Review of the Base of the Permian.

B.E. Balme: Palynology and the Carboniferous-Permian Boundary in Australia.

M.S. Barss: The Pennsylvanian-Permian Boundary in Canada.

R.M. Kosanke: Upper Pennsylvanian-Permian boundary of the United States.

L.R. Wilson: Comparison of the Litho- and Biostratigraphy at the Pennsylvanian-Permian Boundary in Oklahoma and Kansas.

G.O.W. Kremp: The Importance of Palynology in Determining Worldwide the Pennsylvanian-Permian Boundary.

11:30 a.m. Lunch

1:20-5:00 p.m. Symposium #2: Pollen Analysis of Holocene and Modern Deposits. Cortez Room. Convenor: J. Schoenwetter, Arizona State University, Tempe, AZ.

R. Bonnefille: Pollen Analysis of Modern Deposits in the Tropical Zone of East Africa.

A.T. Cross, S.N. Stephenson and M.A. Bordner: Some Comparisons of Pollen and Spore Distribution in Surface Sediments to Modern Vegetation in Baja California, Mexico.

B. Fine: Two Quantitative Methods Applied to Modern Pollen Data from Tropical Mexico.

J.W. Gish: Palynological Extrapolation from Modern Vegetation in the Southwest.

R.H. Hevly: Palynological Comparisons of Contemporaneous Archeological and Alluvial Sediments from the Same Plant Communities.

Vera Markgraf: Comparison of Principal Component and Cluster Analysis Techniques on Modern Pollen and Vegetation Data from Argentina.

A.M. Soloman, D.C. West and H.R. Delcourt: Assessment of Paleoecological Systems with Simulation Models.

8:00-11:00 p.m. Icebreaker, Townehouse Poolside Terrace

7:30 a.m. Registration, Townehouse Lobby

8:00 a.m. Technical Session: Paleozoic Palynology. Cortez Room. Presiding: R.M. Kosanke, USGS, Denver, CO.

W.C. Elsik and J.E. Canright: Welcoming Addresses.

8:10 a.m. Invited Paper: Jane Gray, Univ. Oregon, Eugene. "Land Plant Origins."

9:00 a.m. Ann B. Reaugh: Cambrian Acritarchs from the Gallatin, Gros Ventre and Death Canyon Formations, Sublette County, Wyoming.

9:20 a.m. R.E. Turner: Ordovician Acritarchs from the Type Section of the Caradoc Series.

9:40 a.m. G.D. Wood: Acritarchs, Spores and Plant Detritus from the Silurian (Wenlockian) Waldron Shale of Southeastern Indiana: A Preliminary Assessment.

10:00 a.m. Coffee Break

10:30 a.m. J.A. Clendening, L.E. Eames and G.D. Wood: *Heterotriletes phillipsii*, sp. nov., a Potential Upper Devonian Guide Palynomorph.

10:50 a.m. L.E. Eames: The Stratigraphic Distribution of *Spelaotriletes lepidophytus* (Kedo) Streeel in the Upper Devonian Standard from Western New York.

11:10 a.m. F.H. Cramer, M.J.C. Diaz and L.J. Cachan: Palynology of the Productive Carboniferous (Namurian-A through Middle Stephanian?) of Northern Spain.

11:30 a.m. Lunch

1:00 p.m. Technical Session: Mesozoic Palynology. Cortez Room. Presiding: D.W. Engelhardt, Amoco Production Company, Houston, TX.

1:00 p.m. Dan Beju: New Dinosaur Taxa from the Upper Jurassic of Pakistan.

1:20 p.m. K.M. Piel and W.R. Evitt: Scanning Electron Microscope Studies of *Nannoceratopsis senex* van Helden.

1:40 p.m. C. Denison and N.J. Hancock: North Sea Deltaic Palynofacies.

2:00 p.m. J.T. Tan: Late Triassic-Jurassic Dinoflagellate Biostratigraphy, Western Arctic Islands, Canada.

2:20 p.m. L.A. Riley and R.V. Tyson: Palynofacies and Paleoenvironment of the Kimmeridgian sediments of the Northern North Sea.

2:40 p.m. G.O.W. Kremp: The Earliest Appearance Worldwide of Tricolpate Pollen and the Origin of Angiosperms.

3:00 p.m. Coffee Break

3:30 p.m. Robin Helby: Palynological Hierarchies in the Australian Jurassic.

3:50 p.m. Roger Morgan: Early and Middle Cretaceous Palynostratigraphy of Australia.

4:10 p.m. D.J. Nichols: Palynological Age Determination and Correlation of the Wanship, Evanston and Frontier Formations in the Coalville Area, Utah.

- 4:30 p.m. K.R. Newman and L.L. Lewis: Palynomorph Biozones and Boundary-Stratotypes in the Maestrichtian-Danian Denver Formation, North and South Table Mountains, Golden, Colorado.
- 4:50 p.m. Invited Paper: John R. Rowley, Botanical Institute, University of Stockholm, Sweden. "A Model of Exine Substructure."
- 6:30-11:00 p.m. Steak Fry at Rawhide (Arizona's 1880 Town)
FRIDAY, 27 OCTOBER
Technical Session: Tertiary Palynology.
Cortez Room.
Presiding: E.J. Nieves, Continental Oil Company, Ponca City, OK.
- 8:00 a.m. D.K. Goodman and R.J. Witmer: Archeopyle Variation in the *Diphyes*-complex.
- 8:20 a.m. R.J. Witmer and D.K. Goodman: Lower Tertiary *Wetzeliella* Assemblages from the Virginia-Maryland Coastal Plain.
- 8:40 a.m. G.J. Wilson: New Zealand Fossil Dinoflagellates — Selected Key Species in Biostratigraphy.
- 9:00 a.m. J.F. Bujak, C. Downie, G.L. Eaton and G.L. Williams: Dinoflagellate Zonation of the Eocene, Southern England.
- 9:20 a.m. H.A. Martin: Australian Tertiary Stratigraphic Palynology and Some Interpretations.
- 9:40 a.m. T.C. Huang: Miocene Palynomorphs of Taiwan.
- 10:00 a.m. Coffee Break
- 10:30 a.m. E.I. Robbins and K.G. Porter: Geologic Importance of Zooplankton Fecal Pellets in Black Shale Associated with Phosphate Deposits.
- 10:50 a.m. Invited Paper: J. William Schopf, Univ. of California at Los Angeles, CA. "Recent Progress in Precambrian Biostratigraphy."
- 11:45 a.m. Luncheon, Annual Business Meeting, and Group Photograph. Kino Room.
Technical Session: Quaternary Palynology.
Cortez Room.
Presiding: V.M. Bryant, Jr., Texas A&M University, College Station, TX.
- 2:00 p.m. T.D. Davies and W. Spackman: The Palynology of the Peats of Florida Bay.
- 2:20 p.m. A.D. Cohen and D. Corvinus: Palynology and Petrography of Peats from the Snuggedy Swamp of South Carolina.
- 2:40 p.m. W.S. and A.S. Benninghoff: Possible Influences of Electrical Fields on Airborne Particles in the Boundary Layer of the Atmosphere.
- 3:00 p.m. V.M. Bryant, Jr.: Palynology as a Useful Archeological Technique at Antelope House, Arizona.
- 3:20 p.m. Coffee Break
- 3:40 p.m. R.C. Holloway: Absolute Pollen Analysis of Lake Wabamun, Alberta, Canada.
- 4:00 p.m. T.W. Anderson: Holocene Pollen Records from Prince Edward Island, Canada.
- 4:20 p.m. R.B. Shaw, K.A. Volman and F.E. Smeins: Modern Pollen Rain and Vegetation Across the Edwards Plateau, Texas.
- 4:40 p.m. L. Sirkin and D. Gilbert: Holocene Palynology of the West Mexican Coastal Plain 1. The Teacapan Estuary Region.
- 5:00 p.m. K. Heide: Quantitative Comparison of Pollen and Plant Macrofossil Data from Modern Lake Sediments, North-Central U.S.A.
- 5:20 p.m. M.R. Fletcher: Principal Components Analysis of Modern and Paleozoic Palynomorph Distribution Patterns in Southeastern Lake Michigan.
- 7:30 p.m. Executive Committee Meeting. Chieftain Room.
SATURDAY, 28 OCTOBER
- 8:00 a.m.-5:00 p.m. Field Trip to the Mogollon Rim (Penn-Permian) and Salt River Canyon (Devonian).

The serenity of an organization should not be misconstrued to reflect possible apathy of its members but rather the decisive action taken by the elected officers. AASP has never taken decisive action towards full commitment to the International Commission for Palynology. The Board of Directors, although individually sometimes strongly pro or con, has always evinced possible "support in theory", but a wait and see attitude before final decision for or against commitment.

This attitude to varying degrees has reflected the attitude of the membership. To be or not to be affiliated with another organization in particular an umbrella type, has always been a big issue in AASP.

ICP is now an established fact. The constitution accepted at Lucknow was influenced in some small part by AASP involvement, but is yet lacking in some aspects according to AASP members that have followed the ICP history. Additional depth of involvement is a matter that must now be considered by the AASP. It was decided at the 1978 Mid-Year Meeting that AASP will not take action until the membership is informed and has had a chance to transmit their views to the Board of Directors.

Jack Burgess, Harry Leffingwell, Jim Canright and I have spent considerable time abstracting AASP minutes and other papers, to prepare a statement summarizing the historical involvement of AASP with ICP. This history will be circulated, together with the ICP constitution, to the membership upon completion.

Bill Elgik
President-AASP

IC-ICC

The third circular for the Ninth International Congress of Carboniferous Stratigraphy and Geology (IX-ICC) is now available. If you have not received a copy of this circular, please write to:

IX-ICC, 1979
c/o Museum of Natural History
Washington, D.C. 20560

Pre- and post-Congress trips are separated by the May 21-May 25 technical sessions in Urbana. One may attend trips or technical sessions independently. The technical sessions consist of three major concurrent symposia of broad interest during each of the mornings and a variety of specialized topics and contributed paper sessions in the afternoons.

This is the first time that the Carboniferous Congress has met in North America and it may be decades before this event occurs again. The Congress is conveniently located about one day's automobile drive from thousands of members of the American geological community. Dormitory housing and meals combined at a price of about \$15.00 per day will be available. Thus, IX-ICC will be an economical and convenient international meeting.

Payment of registration fee may be at any time, but the deadline for abstracts is January 1, 1979.

E. Yochelson

PALYNOLOGY VOL 2 & 3

After a minor delay, volume 2 of Palynology is now back on schedule. The delay was caused when the publisher sent the final galley proofs to the editor for a final check prior to printing the bound volumes. The distance between the publisher (in Austin) and the editor (in College Station) is only 100 miles yet it took the bus company three weeks to cover that distance. The galley proofs were not sent by U.S. mail but were sent by bus since they "guarantee" same day delivery. Their new sign in the Austin bus depot now reads, "Same day delivery to any city in Texas except College Station!" A postscript to this is just as bad. After the bus company declared the first set of galley proofs "lost" they agreed to ship a second set free of charge and assured us it would receive a "rush" treatment. They were right! It only took those galley proofs 2 1/2 weeks to travel the 100 miles. Even with the three week delay we still hope to have volume 2 sent to the membership before the annual meeting in October.

Volume 3 is progressing well. Ray Christopher is doing an excellent job of keeping track of the submitted manuscripts. Volume 3 is nearly complete but we still have room for about 3 more articles. If you have a manuscript ready to submit call Ray Christopher. You may still have time to get the article in Volume 3.

FORMS ARE APPRECIATED

Hopefully, each of you will receive a copy of volume 2 of Palynology before you receive the next Newsletter. If you find time, Ray and I would greatly appreciate your comments and criticisms concerning volume 2 of Palynology. A number of AASP members offered very helpful comments and criticisms concerning volume 1 of Palynology and those suggestions were incorporated into volume 2. Hopefully, we can continue to improve our journal each year through this process.

OPEN EARTH

A new magazine called Open Earth is now offering subscriptions to interested members. The annual cost is 5 pounds in Britain, \$13.00 (U.S.) outside Britain (\$17.00 U.S. for air mail service).

Interested subscribers should write to: Open Earth, 32 St. James Close, Hanslope, Milton Keynes, MK19 7Lf, England.

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PALYNOLOGIST WANTED

Job Opening: Consulting firm has job opening for experienced palynologist. Require operational experience in dinocyst & spore-pollen biostratigraphy. Work involves mainly mesozoic-cenozoic strata. North-America & South America. Salary base pay and incentive bonus. Pension-profit sharing plan. Other benefits. All inquiries confidential. Send resume to: Anderson, Warren & Associates Inc., 11526 Sorrento, Valley Road, Suite G, San Diego, California 92121 Attn. Mr. Anderson.

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POSITION WANTED

The editor would like to apologize to the AASP member who called long-distance to ask that a notice be placed in the "position wanted" column. I was in the middle of writing the September newsletter issue when I got the call and took the message. Later, I discovered that I had misplaced the note and thus couldn't even call the person again for the information. If that person will send me a letter with the notice, I promise to get it into the December issue.

Perhaps after this error I should be running my name in the "position wanted" column.

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NEWSLETTER PALYNOFORM

This month's winning palynomorph was sent to us by Lanny H. Fisk. I quote from his letter: "Since this little beauty speaks only Spanish and appears to be puckered up in hopes of simultaneously attracting three mucho macho palynologists, we have tentatively dubbed it 'Besandopollenites' (in Spanish literally 'kissing pollen'). We are still uncertain of its modern affinity and would appreciate anyone's help here. It has similarities to Bombacaceae-Sterculiaceae-Tiliaceae complex and particularly to Buettneria in the Sterculiaceae. We have thus far found only three of these very characteristic grains in our samples from the Oligo-Miocene La Quinta Formation from the central Highlands of Chiapas, southernmost state of Mexico. Although one of my Spanish-speaking graduate students (Roberto Enrique Biaggi, now at University of Montemorelos, Mexico) talked very sweetly to each sample, only the three specimens came forth. However, perhaps others are more shy, less aggressive, and don't run around with a perpetual pucker."

It is too bad we already have a logo. What a fitting grain to use as a logo. Think of how our membership might increase!

Again I called upon the excellent artistic talents of our resident artist, Ms. Edie Schaffer, to draw a sketch from the original photograph.

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NEW GUIDE TO DINOFLAGELLATE CYSTS

A new publication is now available through the Louisiana State University School of Geosciences. The publication is: "A Guide To the Identification of Jurassic Dinoflagellate Cysts" by W. W. Sarjeant. It contains three sections and a "spotter's guide" to fossil microplankton prepared by the author. Species are illustrated by sketches on range charts. Morphological comparisons are assembled in tabular or textual form. And finally, this guide would enable palynologists and others to make accurate identifications of these fossil microplankton. The monograph contains 107 pages, 11 figures and 8 tables. Cost is \$10.00 (U.S.) plus 95c for postage and handling. Please send for your copy by writing to: Publications Section, School of Geosciences, LSU, Baton Rouge, Louisiana 70803, U.S.A.

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NEW SPANISH PALYNOLOGY SOCIETY

The Asociacion de palinologos de Lengua Espanola (A.P.L.E.) was constituted in Madrid, Spain, in January, 1978. Its current officers are: Fritz H. Cramer, President; Nuria Sole de Porta, Vice-President; Concepcion Saenz de Rivas, Secretary-Treasurer; Eliseo Subiza Martin, Pilar Candau Fernandez-Menseque, and Juan Roure, Councilors. Address: A.P.L.E. Jardin Botanico, Plaza de Murillo, 2, Madrid-14, Spain. A newsletter (Boletin de Noticias de A.P.L.E.) will be distributed twice a year. Anyone interested, please contact the Secretary-Treasurer.

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IOP NEWSLETTER ITEM

The following items were noted in the IOP Newsletter #6. We appreciate their permission to republish these news items for our members.

"The latest edition of this report covering 1976 and 1977 is now in press. It includes details of over 160 papers published during that period and records the current research and addresses of over 100 workers engaged in paleobotanical or palynological research in Britain. Anyone who normally exchanges off-prints with the Botany Department at Birkbeck College will receive a free copy. Anyone else who wishes to obtain this report should send 50p (UK subscribers) or US \$2.00 (overseas subscribers) payable to: The Botany Department, Birkbeck College, Malet Street, London, WC1, England."

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BOOK REVIEW

GENERA FILE OF FOSSIL SPORES AND POLLEN. J. JANSONIUS AND L. V. HILLS, 1976. Special Publication Dpt. Geology, University of Calgary, Canada. 3287 cards. Canadian \$80.00.

This file consists of 3287, 8" X 5", alphabetically numbered cards of genera of fossil pollen, microspores, megaspores, and fungal spores. Each card includes the generic name with its validating author and date, the bibliographic reference, the type species with its reference, a generic diagnosis, translated into English where necessary, and often with comparative remarks by the original authors or by Jansonius or Hills, and the description, age and geographic occurrence of the type species. A line drawing of the type species of valid genera and, where applicable, emendations and discussion of nomenclatural problems are also given. The authors note that they have ignored some emendations considered immaterial. No explanation of these exclusions is given and for purposes of entirety, a complete listing, annotated if necessary and with a qualifying comment, would be an improvement. Apart from the age of type species, the ages of genera are omitted. Some indication of the known age range of each genus would be useful.

The file is issued with a set of introductory remarks describing the content of the card catalogue, plus a brief version of the I.C.B.N. rules of nomenclature applicable to palynology.

Periodic updates including newly proposed genera, and new emendations and discussions are offered. The first supplement of 144 cards was distributed in mid-1977.

The authors advise the use of two sets, one to remain in alphabetical order as a basic reference set, and the other to be rearranged in suprageneric groupings. This recommendation is certainly worth following.

The completion of such a formidable task of compilation is impressive in itself. The result is an excellent reference file invaluable to anyone engaged in taxonomic research. Original diagnoses and type species descriptions, many of which would otherwise be extremely difficult, if not impossible to obtain, are now instantly available to the English reader. Inclusion of subsequent emendations and discussions, although sometimes incomplete, provides an excellent guide on nomenclatural problems and also reduces time-consuming literature surveys. This file should minimize or prevent proposal of illegitimate synonyms or homonyms.

Rosemary A. Kyle, Institute of Polar Studies, The Ohio State University, Columbus, USA. (This review was first published in the IOP Newsletter, #5 and appears in our Newsletter with the consent of the reviewer).

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PROCEEDING ABSTRACTS

I would appreciate the help of the AASP membership in trying to resolve an important question. Should we continue to include the annual AASP proceedings abstracts from each annual meeting in our journal Palynology? To continue to publish the abstracts as a part of our journal is costly, yet if the majority of our members wish this practice to continue we will consider doing so. On the other hand, would you prefer to see the abstracts published as part of the December issue of the AASP newsletter each year? That would be a cheaper method and the abstracts would still reach the membership. Or, would you prefer to not publish the abstracts at all and leave it up to anyone who wants a copy to order a set direct from Bob Clarke who has copies of abstracts from most of the past annual meetings? Your comments would be greatly appreciated.

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LETTERS TO THE EDITOR

Dear Editor:

In my previous letter (AASP Newsletter 11(2):5), I stated that AASP members have a right to know the details for which they were asked to contribute a dollar annually. However, the same newsletter announced that the original appeal was unwittingly erroneous. The corrected version stipulated that the AASP Board of Directors appropriated the sum to the ICP and that each AASP member may contribute a dollar to make up that sum. Still I consider that although the AASP Board of Directors can appropriate any amount for any item they decide worthwhile and appeal for a voluntary contribution, they should not raise annual dues or mandatory contributions without involving the general membership for an absolute majority consensus.

The honesty and integrity of Professor A. Traverse was not in question. I have been in contact with Professor Traverse for the last twenty years and fully agree with the AASP Editor's comment (AASP Newsletter 11(3):3 - column 2) The hypersensitivity shown to certain statements in my previous letter cannot be understood. According to the ICP constitution (ICP Newsletter 1(1):3), ICP is above an individual's approach or reproach, hence the suggestion to raise ICP funds and publish more details about it were made to the AASP Board of Directors in the AASP Newsletter. My comments on various points in Professor Traverse's letter (AASP Newsletter 11(3):3) are given below, corresponding to paragraphs in his letter.

- 1. My statement was similar to Professor Traverse's. The past ICP Council had twelve members which elected the present president. The present council has twenty members, starting with seventeen members.
2. My statement for the appointment of the Secretary-Treasurer also agrees with that of Professor Traverse. I agree with the sound reasoning for the procedure adopted. However, subsequent confirmation by the ICP Council does not make it an elected post.
3. The ICP constitution states that "The Councilors shall be elected by the Regional, National and Specialist Societies" (ICP Newsletter 1(1):3, para. 8) whereas Professor Traverse stated: "Councilors are selected by the constituent societies". The statement in my letter regarding the past president becoming a member of the council is correct according to the ICP constitution. In addition, Professor Traverse mentioned that there can be two other nonelected members of the Council also.
4. Travel for the execution of important business matters cannot be looked upon as corruptible or useless. In recounting the popular conversation after the AASP executive meeting at Tulsa, if I implied anything, it was that during the monetary scarcity, priorities for expenditure should be chosen carefully.
5. I fully sympathize and agree with Professor Traverse that he was instituted as the President of the ICP in absentia, and wish him all success.

Satish K. Srivastava

Comment:

After all the "flak" Al has received for a job he didn't even seek, I wonder if anyone else will ever really want to be elected President of ICP!

Dear Editor:

I can fully appreciate the necessity of reducing the print size in the A.A.S.P. Newsletter, since everyone these days demands more for less. I do however feel that economy is becoming too important if dinocysts must be illustrated sideways (page 1 of vol. 11, no. 3). This is tantamount to lying down on the job. From the illustration I also question the identification of this somno-lent body as "Spinidinium sp.". The depicted paratabulation is more suggestive of Gonyaulacysta.

The above is not intended as a criticism, but is merely an observation on a small error in an otherwise excellent production.

Graham L. Williams

Comment: The dino was resting on its side because it, like the editor, was exhausted after putting together the Newsletter.

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AASP is happy to welcome the following new members:

- Fletcher, Martha R., 225 St. Cloud St., Rapid City, South Dakota 57701
Serials Department, Memorial Library, University of Wisconsin, 728 State Street, Madison, Wisconsin 53705
Duke University Library, Periodicals, Durham, North Carolina 27706
Library, University of Illinois at Chicago, Circle, Box 8198, Chicago, Illinois 60680
Sparks, Dennis M., Geologic Inc., 1216 Church Street, St. Helena, California 94574 Phone 707-963-7952
McMinn, Andrew, School of Earth Sciences, Macquarie University, North Ryde, NSW, Australia 2113
Weston, John, Stratigraphy Laboratory, B.P. Pet. Dev. Ltd., Farnburn Industrial Estate, Dyce, Aberdeen Scotland, AB2 0PB, Telephone: 723131 Ext. 677
Wicander, E. Reed, Dept. of Geology, Central Michigan University, Mt. Pleasant, Michigan 48859 Telephone: 517-774-3246
Kedves, Miklos, Dept. of Botany, J.A. University, Szeged, Lgyetem u. 2 Hungary 6722 Telephone: 10-811-125
Roberts, Bryan H., Dept. of Geol. Sciences, Virginia Polytechnic Institute, Va., 24061 Telephone: 703-951-6700

- Bigelow, John H., 1347-63rd Av. S., St. Petersburg, Florida 33705 Telephone: 813-864-4215
Sirkin, Les, Dept. Earth Sciences, Adelphi University, Garden City, N.Y., 11530 Telephone: 516-294-8700 Ext. 7511
Goetzee, Johanna, Institute for Environmental Sciences, University of the Orange Free State, Bloemfontein, South Africa 9300
Ediger, Volkan S, Turkish Petroleum Corp, TPAO Anastina Grubu Mudafaa Cad. #22, Ankara, Turkey

DIRECTORY CHANGES

The following AASP members notified the editor that their telephone numbers and/or addresses have been changed. These include the following individuals:

- Volkheimer, Wolfgang, Buenos Aires 1405, Argentina
Jacobson, Stephen R., Chevron U.S.A. Inc., 700 South Colorado Blvd., Denver, Co. 80201, Telephone: 303-759-7252
Nichols, Douglas, U.S. Geological Survey, P. & S. Branch, Mail Stop 919 Box 25046, Federal Center, Denver, Colorado 80225 Telephone: 303-234-5871
Von Sanden, Anthony T., Herthoosstraat 16, Assen, The Netherlands
Khan, Asrar M., 6-B, Liaquat Medical College, Janshoro, Sind, Pakistan
Goodman, K. David, Exxon Production Research Co., P.O. Box 2189, Houston, Texas 77001 Telephone: 713-965-4588
Sohio Petroleum Co., Library, 100 Pine Street, San Francisco, Ca. 94111 (name change from B.P. Alaska-Exploration, Inc.)
Carr, R. David, 3895 Forestglen Dr., La Crescenta, Ca. 91214
du Chene, R. Jan, Esso Production Research-European, 213 Cours Victor Hugo, 33 Begles, France
Gish, Jennifer, 18044 E. Akron St., Mesa, AZ 85207 Telephone: 602-966-7182
Davey, Roger J., Robertson Research International Ltd., Tyn-y-coed, Llanrhos, Llandudno, LL30 1SA Gwynedd, North Wales, U.K. Telephone: 0492 8181
Van Zant, Kent, Dept. of Geology, Earlham College, Richmond, Indiana 47374
Lee, Ta Kwong, 3400 Woodchase Drive #2202, Houston, Texas 77042
Brenninghoff, William S., Zip Code: 48109
Monroe, Jane Anephl (name & address change), 68 Harmon Drive, Lebanon, Illinois 62254
Kranzer, Anthony E., 1700 W. Broadway, Exxon Co. USA, Andrews, Texas 79714
Thompson, Mel W., Chevron USA, P.O. Box 599, Denver, Colorado 80201 Telephone: 303-759-7273
Le Blanc, E. Arthur, Gulf R. & O., H.T.C., P.O. Box 36506, Houston, Texas 77036 Telephone: 713-778-5368
Swanberg, Joyce W., Rt. 1, Box 56 A, Royston, Ga. 30662 Telephone: 404-245-7859
Tingey, Craig J., Exxon Co., USA, P.O. Box 2189, Houston, Texas 77001 Telephone: 713-964-4242
Pierce, Sarah T. (name change to) Sarah Pierce Damassa
Davies, Edward H., 240 FPB, Phillips Petroleum Co., Bartlesville, Okla. 74004 Telephone: 918-661-6023
Morbey, Jack Sidney, Palaeoservices LTD., Unit 2, Sandown Rd., Watford, U.K.
Evans, Anthony, EP/12.1., K.S.E.P.L., Volmerlaan 6, Rijswijk (Z.H.) The Netherlands
Turner, R.E., Institute of Geological Sciences, Ring Road, Hutton, Leeds LS15 8TQ, U.K. Telephone: 605343
McNeilly, Roy D.G., Shell Oil Company, P.O. Box 481, Houston, Texas 77001
Urban, L.L., Phillips Petroleum Company, Carrera 13 No. 25-45, Bogota 1, D.E. Colombia Telephone: 281-46-20
Engelhardt, Donald W., Amoco Production Co., P.O. Box 3092, Houston, Texas 77001
Dickey, Bob C., STM Corporation, Geochemistry Laboratory, 12115 Self Plaza Dr., Suite 214, Dallas, Texas 75218 Telephone: (214) 328-8540
Utting, John, Petro-Canada, Geological Research and Services, 650 Guinness House, 727-7th Avenue S.W., Calgary, Alberta T2P 0Z6/Telephone: (403) 256 0311
Loeblich III, Alfred R., Department of Biology, University of Houston, Houston, Texas 77004
Habib, Dan, Dept. of Earth & Environmental Sciences
Hart, George F., 644 Leeward Dr., Baton Rouge, La. 70808, Telephone: (office) 504-338-2789 or 338-3353
Kelly, Deborah C., Gulf R. & O., H.T.C., P.O. Box 36506, Houston, Texas 77036 Telephone: 713-778-5418

MEMBERSHIP APPLICATION FORM
AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS, INC.

Preferred title (circle): Prof., Dr., Mr., Mrs., Ms.

Name: _____ Date: _____
(First) (Middle) (Last)

Address: _____
_____ Postal Code _____

Telephone: _____

Employer: _____

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

Signatures of sponsors (must be 1) _____
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 biostratigraphy; 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 \$15.00 (USA) in order for the Executive Committee to elect applicants to membership.

Send to: Jack D. Burgess, Gulf Research and Development Corp.,
Exploration Division, Drawer 2038 Pittsburgh,
Pennsylvania 15230

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