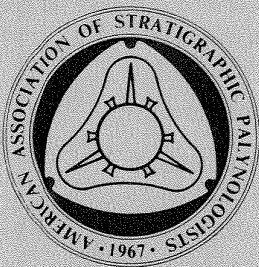


VOLUME 18, NUMBER 1

News	1
An Arlington '84 Gallery	6
<u>TECHNICAL SECTION</u>	
Comment on "Disoriented dinoflagellates?" by Jan Jansonius . . Lucy Edwards	9

AASP NEWSLETTER
SOHIO PETROLEUM CO.
50 FREMONT ST.
SAN FRANCISCO, CA 94105

BULK RATE
U.S. POSTAGE
PAID
CONCORD, CA 94520
PERMIT NO. 566



Membership Application Form

Please type or clearly print all information. The AASP Directory file is limited to 5 lines @ 29 characters.

Date: _____

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

Address: _____

Telephone: _____

Employer: _____

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

Send to: Dr. Kenneth M. Piel
Union Oil Co., Research Center
P. O. Box 76
Brea, CA 92621

Please send \$20.00 (US)
with your application.

AASP DIRECTORY AND MAILING LIST CHANGE

Date: _____

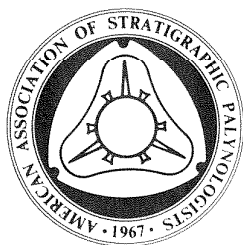
Listed Name: _____

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

Address change: _____

Telephone change: _____

Send to: Dr. Kenneth M. Piel
Union Oil Co., Research Center
P. O. Box 76
Brea, CA 92621



AASP NEWSLETTER

VOLUME 18, NUMBER 1 JANUARY, 1985

R. L. RAVN, EDITOR ISSN 0732-6041

We are saddened to learn of the death of George Fournier, who died December 17 after a long illness. George was a founding member of AASP and a former president. He had worked for many years with Gulf Exploration and Technology in Houston, Texas. We anticipate having a formal memorial to George Fournier in the next Newsletter.

AASP STUDENT SCHOLARSHIPS

For the third year, AASP plans to award two \$250 student scholarships to support studies in palynology. Ordinarily, the scholarships are awarded to graduate students, but advanced undergraduate students may also apply. The qualifications of the student, the originality and imagination evident in the proposed project, and the likelihood of significant contribution to the science of palynology are factors that will be weighted in selection of award winners. An application form is attached to this issue of the Newsletter.

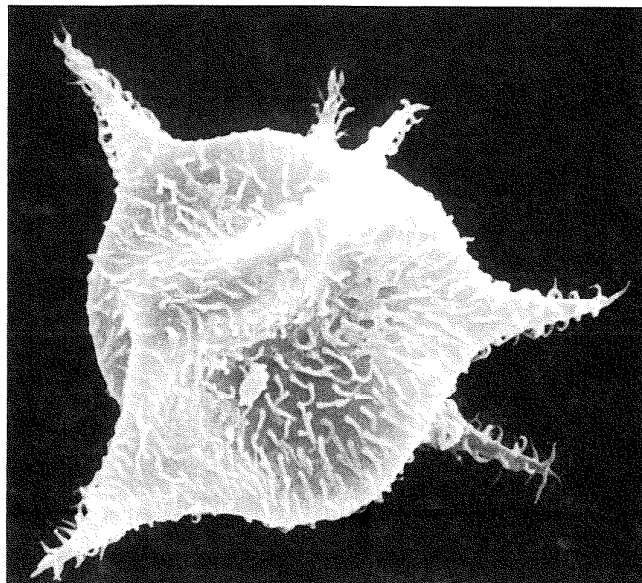
Note that the applications must be received no later than March 1, 1985; awards will be announced on May 30. Last year eleven students applied, so if you are a good student and have a worthwhile project, you have a reasonable chance of winning a scholarship. If you are a professor, please call these scholarships to the attention of your students.

Harry Leffingwell, chairman, Awards Committee.

Editor's note: Please be aware that Harry Leffingwell, who sent the notice above and prepared the application forms, is now the former chairman of the AASP Awards Committee. Harry ended his term at this prestigious position at the 1984 Annual Meeting and has passed on the honor and glory to Graham Williams, whose address appears on the application form, and to whom applications for the scholarships should be sent.

We also regret the short notice for receipt of applications. The announcement unfortunately arrived too late to appear in the fall Newsletter issue; as a result, the deadline for receipt of applications was extended to March 1, from its previous date of February 1.

AASP Newsletter is published quarterly by American Association of Stratigraphic Palynologists, Inc.



Villosacapsula ceretioides (Stockmans and Williére) Loeblich and Tappan 1976, approximately 2500X; Upper Devonian of Iowa (photo courtesy of Reed Wicander).

JOHN BENNETT AWARD

Congratulations and a big thank you are in order for former AASP President John Bennett. John has been honored by a \$5000 award from the ARCO Foundation in recognition of his many years of work for Arco. This cash award was to be designated to a recipient of John's choice. He has chosen to donate the money to the AASP Foundation. John's honor was announced and warmly acknowledged at the Annual Luncheon during the 1984 meeting in Arlington.

RICK PIERCE MEMORIAL FUND

AASP Foundation treasurer Bob Clarke reports that, as of the time of the Arlington meeting, a total of \$1,695 had been contributed to the Rick Pierce Memorial Fund. Present plans are for the money to be used as a scholarship fund. Further contributions are by no means discouraged. Those wishing to do so should contact Bob Clarke, Mobil Research & Development Corp., P. O. Box 819047, Dallas, Texas 75381.

ARLINGTON, ADIEU

The 17th Annual Meeting of AASP is now history, and an unexpectedly large attendance provided a major pleasant surprise for the organizers. Concern over possible reduced attendance in comparison to most recent Annual Meetings arose early because of the IPC in Calgary in August. Obviously, many palynologists were forced to choose between attending one of the two gatherings, and I know several who chose to go to Calgary and were unable to travel to Arlington two months later. Initially, the concern over potentially weak attendance at Arlington appeared as though it might be confirmed, as pre-registration for the meeting was low. The on-site registration, however, proved to be very large. As a result, 150 registrants attended, resulting in a healthy financial outcome for the convention.

Among the most gratifying aspects of the Arlington meeting was that your Newsletter editor attended and had a good time. On behalf of all those who attended, I wish to express congratulations and thanks to all involved in organizing the meeting. At the top of that list is Norm Frederiksen, whose hair and beard inexplicably turned white during its preparation. As the general chairperson, Norm was responsible for anticipating and resolving all those problems that cannot be anticipated and defy resolution. His ability to do these things with grace and good humor merits a round of applause from all of us.

Lucy Edwards was the program chairperson and is to be credited with the organization of the presentation schedule and the abstracts; she also was the generic ombudsperson on whom all kinds of questions and general insanity were foisted at various times. In addition to all this, she made it possible for several students to attend the meeting by opening her home for them as guests.

Norrie Robbins and Harold Cousminer provided entertainment . . . let me rephrase that; Norrie Robbins and Harold Cousminer arranged entertainment for meeting participants. Harold also handled the judging and awarding of the L. R. Wilson Award for Best Student Paper, of which more will be mentioned later. The pre-meeting field trip was organized by Norm, Leo Hickey and Lauck Ward. Preparing a field trip for a large group is never easy, and this one had the extra logistical difficulties of dealing with a long boat ride plus bus arrangements. Our thanks, too, to the Virginia Institute of Marine Science, who provided the boats and assistants, and who co-sponsored the meeting along with the U. S. Geological Survey.

As a result of the field trip, I now have some nice Paleocene shark teeth and my very own *Wetzelietta*. Ever since I was little, I've wanted a *Wetzelietta*; for Christmas when I was nine, I asked Mom for a *Wetzelietta*, but she only gave me a dog. Now, Prince turned out to be a good dog, and could he ever fetch . . . but I digress. Sample sets (\$25) and the Guidebook (\$15) are still available. Make your check payable to the AASP Foundation and mail to Bob Clarke. The prepared sample sets were a big plus and an idea to be emulated by all you future field trip leaders out there.

The L. R. Wilson Award for Best Student Paper was presented to R. Farley Fleming for his paper titled "Palynology of the Cretaceous-Tertiary boundary event, Raton, Formation, New Mexico." The award consisted of a \$250 cash stipend, a plaque and two years' membership in AASP. Farley is a graduate student at the Department of Geological Sciences, University of Colorado at Boulder. His winning paper was selected from among a strong showing of ten student presentations at the meeting. Our congratulations on a fine piece of work. Thanks also to Eileen Williams, who prepared a framed parchment for the award.

The AASP Medal for Scientific Excellence was awarded to Professor William G. Chaloner of Royal Holloway and Bedford Colleges, London. Dr. Chaloner presented an invited lecture titled "Spore-pollen polarity revisited," harking back to his influential Geoscience and Man paper of some years ago, one of his many contributions to palynology and paleobotany that AASP sought to recognize through the Medal. A citation prepared by Mike Boulter, one of Dr. Chaloner's many students, was read at the annual business luncheon. The award consisted of a walnut occasional box containing the Medal and an inscription. A detailed citation to Dr. Chaloner will appear in *Palynology* 9. Thanks also go to Vaughn Bryant, who was responsible for purchase and assembly of the Award, and to Amoco, Arco, Chevron, Gulf, Sohio and Union Oil, all of whom contributed toward an honorarium that permitted Dr. Chaloner to be present to receive the award.

Several items of society business transacted at the Board of Directors Meeting in Arlington will be of interest to the membership. Ottawa tentatively has been selected as the site for the 1987 AASP Annual Meeting, pending a presentation at the upcoming mid-year Board of Directors Meeting this spring. Groups from both Ottawa and Houston indicated interest in hosting the 1987 Meeting; if Ottawa receives formal approval at the mid-year meeting, Houston will be a tentative meeting site for 1988. Members wishing to express opinions on these site choices should contact any of the AASP officers or directors.

Two new committees were appointed. This year's Nominating Committee consists of Gordon Wood, chair, Richard Holloway, Thomas Ager, Jocelyne Legault and John Wrenn. The Ballot Committee for 1985 consists of Reed Wicander, chair, Robert Bailey and Wayne Moore. Graham Williams has assumed chairmanship of the Awards Committee, to which he will appoint two other new members; Ray Christopher and Colin McGregor remain on the committee. Harry Leffingwell, former chair, Norm Frederiksen and Joe Guennel completed their three-year terms on the Awards Committee. All were original members of the committee, which was established three years ago for the purpose of handling the determination and presentation of AASP awards.

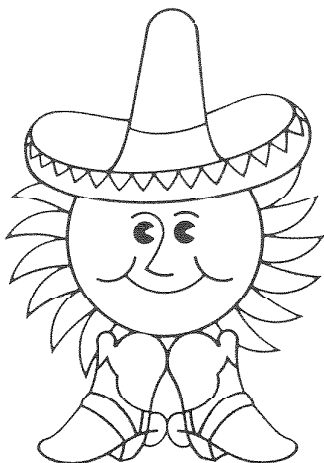
Plans for the 1985 Annual Meeting in El Paso are proceeding on schedule, as the detailed announcement from Bill Cornell on the next page indicates. Dan Habib, general chair for the 1986 Meeting in New York, reported to the Board of Directors on the selection of possible headquarters sites. Final decision on the meeting headquarters will be made following the mid-year Board Meeting in New York on April 18-19.

A gallery of candid photos from the Arlington meeting courtesy of Bruce Cornet, appears later in this Newsletter.

President John Clendening handed the gavel of office to Vaughn Bryant, who now presides over AASP for 1985. Honorary plaques and gavels were presented to the former Presidents of AASP, most of whom were present. Waiting in the wings to assume the office for next year is president-elect Ray Christopher. The Board of Directors also welcomed new members Judi Lentin and Reed Wicander.

And, at the end of the field trip, we ate a whole mess of crabs.

Bob Ravn.



1985 ANNUAL AASP MEETING
SECOND ANNOUNCEMENT

The 1985 Annual Meeting of AASP is scheduled for El Paso, Texas, October 16-19. El Paso and its sister city Ciudad Juarez, Mexico form the largest metropolitan area in the U.S.-Mexico border region, and offer a wide variety of cultural and artistic experiences in its bi-national, bi-lingual environment.

Students are reminded that the L. R. Wilson Award for the Best Student Paper will be presented. It carries a cash stipend as well as a plaque.

PROGRAM

We expect an exciting technical program, beginning with a Symposium on Pollen Ultrastructure on Wednesday. Dr. Tom Taylor is arranging this session. Regular technical sessions will be scheduled on Wednesday afternoon, and all day Thursday and Friday. Poster sessions will be held on Wednesday and Thursday.

Abstract forms are included in this Newsletter. Please note that camera-ready copy is required and that the Local Committee will not retype them (see also the editor's note at the end of this meeting announcement).

We also urge you to (re)read "A Scrutiny of the Abstract" by K. K. Landes, AAPG Bull., 1951, v. 35, no. 7, p. 1660. There are three dates to remember: Title deadline -- May 15; Abstract deadline (if no title has been submitted) -- June 15; Abstract deadline (if a title was submitted before May 15) -- July 15.

Abstracts shall be sent to: Dr. J. Richard Jones, Department of Geography, University of Texas-Austin, Austin, Texas 78712.

HOUSING

The Holiday Inn (Convention Center) will be the headquarters hotel and meeting place. Rooms will be priced from \$45-\$50 (single) to \$48-\$55 (double). A few suites will also be available. We hope that some rooms will be available in the U.T.E.P. dormitories and/or that geology graduate students at the University will be able to assist with student housing. The dorms are a ten-minute bus ride (via public transportation) from the Holiday Inn. Bill Cornell will work with students desiring these sorts of accommodations.

FIELD TRIPS

Two trips are planned. Trip 1 will be a day-long excursion (chartered bus) to see the stratigraphic section and gross structural features of the El Paso area. The section is approximately 15,000 feet thick, beginning in Riphean(?) carbonates and ending in Plio-Pleistocene lake beds. Stratotypes of 15 Precambrian and Paleozoic units have been defined in the Franklin Mountains -- a classic tilted fault block range. Lower Cretaceous marine strata crop out around Cerro de Cristo Rey, an hypabyssal andesitic laccolith of Eocene age, situated by the junction of the Rio Grande Rift and the Texas Lineament. This trip will be dominantly roadside geology. Trip 2 will be a day-long jaunt into the Sierra de Juarez, northern Chihuahua, Mexico. The Sierra consists of three (minimum) Laramide thrust sheets which have been thrust from the southwest at least 10 km. As many believe the range to be part of the Southern Overthrust Belt, "hands on" geologizing in this range should be interesting. As the range lies within the "frontier district" of Mexico, no tourist permits, etc. will be required, but participants should be prepared for mildly arduous exercise in rough and cactus-coated terrain.

SPOUSES PROGRAM

We plan no special activities for spouses. However, several tour services are available at the Holiday Inn. These routinely offer tours of El Paso as well as tours and guided shopping trip in Ciudad Juarez.

BORDER CROSSING

Non-U.S. citizens wishing to shop-dine-tour in Juarez will need valid passports with I-94 forms to return to El Paso. U.S. citizens need only proof of citizenship.

SOCIAL EVENTS

The annual Icebreaker will be held on Wednesday evening, October 16, on the pool/patio deck of the Holiday Inn. On Thursday evening, we will be bused to Indian Cliffs Ranch, near Fabens, Texas for a ranch style western barbeque, featuring some of the best steaks you all will ever eat. Wear your boots and jeans. The annual business lunch will be held on Friday, October 18, following the group photo session.

Further details will appear in subsequent Newsletters or contact: William C. Cornell, Department of Geological Sciences, University of Texas at El Paso, El Paso, Texas 79968-0555.

Editor's note: Your humble Newsletter editor has access to this nice crisp type-producing machine whose results you see before you. If you do not have access to a typewriter of the quality necessary to produce good camera-ready type for the abstract, I will be happy to type a final copy for you. In order to do this, it will be necessary for me to receive the abstract in time to remail it to Bill before the deadline. Please also include an extra 22-cent stamp for the remailing. My address is the return address on the cover of the Newsletter.

Extra copies of the abstract form may be obtained from: Dr. Richard Jones, Department of Geography, University of Texas, Austin, Texas 78712.

Bob Ravn

VI IPC

The Sixth International Palynological Conference in Calgary, Alberta, attracted over 400 palynologists from around the world in August. Among those in attendance was Doug Nichols, who is AASP's councilor to what was then known as the International Commission for Palynology. Doug reports that a major piece of business transacted at the Conference was a change in the name of the worldwide umbrella organization from IPC to the International Federation of Palynological Societies. This name change better reflects the real nature of the body, and should give the organization more appropriate recognition in international science. It also removed an initial conflict with several other organizations, including a body called the International Commission for Potatoes.

An invitation from Australian palynologists was accepted by the IFPS council, and the next IPC will be held in Brisbane, Queensland, in August 1988. The new officers for IFPS are Colin McGregor, President; David Jarzen, Secretary-Treasurer; James Canright, Editor; and Claude Caratini, Past President (of ICP). We wish to express our congratulations to the Canadian Association of Palynologists and the local committee in Calgary for making the Sixth IPC an outstanding meeting.

Copies of the Abstracts volume for the Calgary IPC are available. The volume includes about 400 abstracts and costs \$20 (Canadian) or equivalent, post paid. Contact L. V. Hills, Department of Geology, University of Calgary, Calgary, Alberta, Canada T2N 1N4.

NAPC IV POSTPONED

The Fourth North American Paleontological Convention (NAPC IV), tentatively scheduled for August 1985, has been postponed. The meeting now will be held in August 1986 at the University of Colorado, Boulder. Inquiries should be addressed to Erle G. Kauffman, Dept. of Geological Sciences, Campus Box 50, Boulder, Colorado 80309.

AEROBIOLOGY CONFERENCE

The Third International Conference on Aerobiology will take place from August 6-9, 1986, in Basel, Switzerland. It will be organized by the International Association for Aerobiology, an interdisciplinary society of scientists concerned with animate and inanimate particles suspended in the air and with their effects on organisms. Among the disciplines for which the conference will be of interest are palynology, mycology, allergology, pneumology and biometrology.

Papers, both for oral and poster presentation, are invited. The conference language is English. For delegates from non-English speaking countries, the organizers recommend having an English text prepared on slides for presentation while speaking. Accommodations in various price categories have been reserved in Basel. A post-congress tour is planned. A second announcement with abstract and registration forms will be distributed in the spring of 1985. To be placed on the mailing list, please write:

3rd International Conference on Aerobiology, c/o AKM AG, P. O. Box 109, CH-4018, Basel, Switzerland.

IAA AND GRANA

On January 1, 1985, the International Association for Aerobiology (IAA) began its association with the international journal Grana (formerly Grana Palynologica). Members of IAA have the privilege of subscribing to Grana at a rate of \$25 (US). IAA membership may be obtained through Dr. Ruth M. Leuschner, Treasurer, Dep. Forschung Abt. Derma., Kantonsspital Hebelstr. 20, CH-4031, Basel, Switzerland, for 18 Sfr, or through Dr. Stephen A. Hall, Secretary-General, Dept. of Geography, North Texas State University, Denton, Texas 76203, for \$10 (US). Subscriptions to Grana by IAA members for the rate of \$25 (US) can be obtained only from Stephen Hall.

MICROSCOPES WANTED

Needed to buy: Older Zeiss microscopes with petrographic rotating mechanical stage and rectangular coordinates. Please contact:

Art LeBlanc, 11622 Spriggs Way, Houston, Texas 77024; telephone (713) 467-0176.

GENERA FILE SUPPLEMENTS

Jan Jansonius wishes to inform subscribers to the Jansonius-Hills Genera File that no supplement was issued in 1984, because both Jan and Len Hills were involved in meeting arrangements for the VI IPC. A supplement will be issued in 1985.

PETROLEUM GEOCHEMICAL EXPLORATIONISTS

A new professional society for a diverse group of has been formed, based in Denver, Colorado. The Association of Petroleum Geochemical Explorationists is dedicated to investigate and encourage the widespread use of unconventional techniques to detect surface geochemical anomalies caused by hydrocarbon microseepage. Regional chapters of APGE are planned. The group is specifically oriented towards practical use of modern geochemical, radiometric and electrical methods to explore for oil and gas. Source rock analyses and evaluation are considered valuable exploration techniques which are not within the scope of the new organization. APGE prefers to leave source rock geochemistry within the realm of already active groups such as the Society for Organic Petrology.

The President of APGE is Peter Groth of Amoco Production Company, Denver. Prospective members are invited to join the Association by writing:

Association for Petroleum Geochemical Explorationists,
P. O. Box 8287, Denver, Colorado 80201.

AASP VOLUMES WANTED

The following out-of-print AASP volumes are wanted:

Geoscience and Man VII, 1973

Geoscience and Man IX, 1975

Palynology 3, 1979

Anyone having copies for sale should contact:

Dr. Anthony N. Bint, Sohio Petroleum Co., 50 Fremont St., San Francisco, CA 94105.

POLLEN HITS THE BIG TIME

The long-awaited National Geographic issue with the cover story on pollen finally came out in October, and two of our more illustrious AASP members have now been immortalized. President Vaughn Bryant and former President Lew Stover both merited pictures in the article. Lew is shown doing what so many of us do all the time, leafing through reams of photographic plates trying to figure out what that thing is on his microscope slide. Vaughn got a full page beauty of a spread that shows him in the act of polishing a prickly pear (with gloves on, of course). Thousands of little children undoubtedly have trashed their daydreams about becoming cowboys, firemen and computer hackers, and now dream of the glory of becoming palynologists, just like Vaughn and Lew.

Also, from the Houston Chronicle of October 28, 1984, came an article about Vaughn and his work in which a startling revelation was made: "Some pollen specimens discovered are more than 2 billion years old." Vaughn studies coprolites, among other things, which the article terms "the most wretched remnants of ancient

pueblos and villages." It also said that he keeps some of his specimens in zip-locked plastic bags by his desk.

All kidding aside, this was all good publicity for the profession, and it derives in no small part from the vigor of Vaughn and Lew and others who help make AASP go. Take a bow, gentlemen. Now maybe Mom will stop badgering me about what I do for a living.

Incidentally, in the National Geographic article, there was also a picture of a man who makes "sand" paintings using pollen. Lots of pollen. He had a whole floor covered with it. It was yellow.

Bob Ravn.

NEW MEMBERS

Barry Carr-Brown, Biostratigraphics, 2140 Eastman Ave., Ventura, CA 93003.

Maria Teresa Castro, Div. Plantas Vasculares, Fac. de Ciencias Naturales y Museo, Paseo del Bosque S/N, La Plata 1900, Argentina.

Shya D. Chitaley, Cleveland Museum of Natural History, University Circle, Cleveland, OH 44106.

Ann Marie Davis, 515 S. Grand, Apt. 3, Pocatello, ID 83204.

Hans-Hermann Ecke, Geologisch-Paläontologisches Institut, der Universität, Goldschmidstrasse 3, 3400 Göttingen, West Germany.

Thomas S. Hasenstaub, 3932 Orchard Road, Cleveland Heights, OH 44121.

K. P. N. Kumaran, Biological Sciences Department, University of Calabar, PMB 1115, Calabar, Nigeria.

Franklin A. Lucas, Geology Department, University of Sheffield, Mappin Street, Sheffield S1 3JD, England.

Michael J. Melchin, Geology Department, University of Western Ontario, London, Ontario, Canada N6A 5B7.

Charles N. Miller, Jr., Botany Department, University of Montana, Missoula, MT 59812.

Yi S. Myung, Geological Sciences Department, Michigan State University, East Lansing, MI 48824.

Marianne V. Nielsen, Elstedvaenge 27, 8520 Lystrup, Denmark.

Wade A. Pigott, P. O. Box 7214, Monroe, LA 71211.

Anne Raymond, Geology Department, Texas A&M University, College Station, TX 77843.

R. Birute Saldukas, 1440 Foxhall Road N.W., Washington, DC 20007.

Andrew Schuyler, 610 N. Allegheny Street, Apt. B, Bellefonte, PA 16823.

Ian R. Sluiter, Palaxon Geological Consultants, S 180 Paya Lebar Road, #02-03 Yi Guang Building, Singapore 1440.

Archana Tripathi, Birbal Institute of Palaeobotany, 53 University Road, Lucknow 226007, India.

Garland R. Upchurch, Jr., P&S Branch, U. S. Geological Survey -- MS 919, Federal Center, Denver, CO 80225.

AN ARLINGTON '84 GALLERY

Photographs taken at the AASP 17th Annual Meeting, Arlington, Virginia (courtesy of Bruce Cornet).



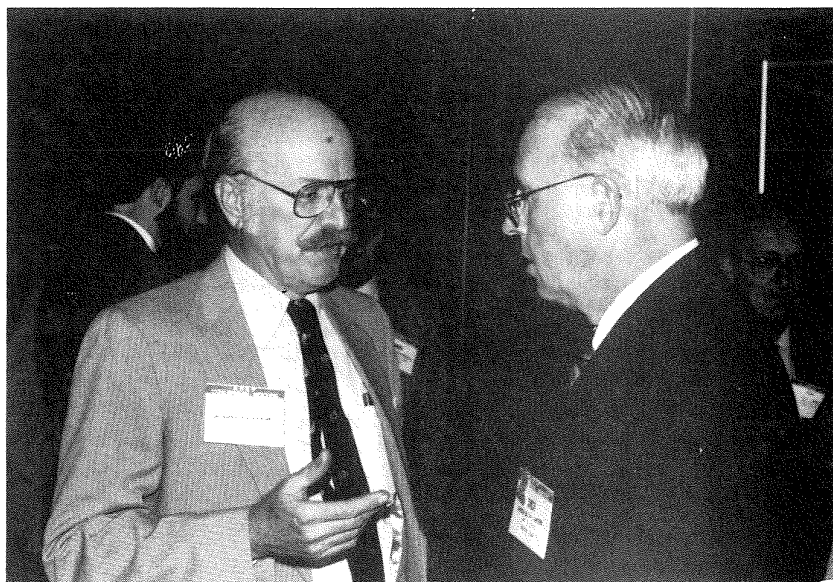
John Shane and Abolfazl Jameossanie



Bill Chaloner and the reverse angle of Norrie Robbins



Don Benson



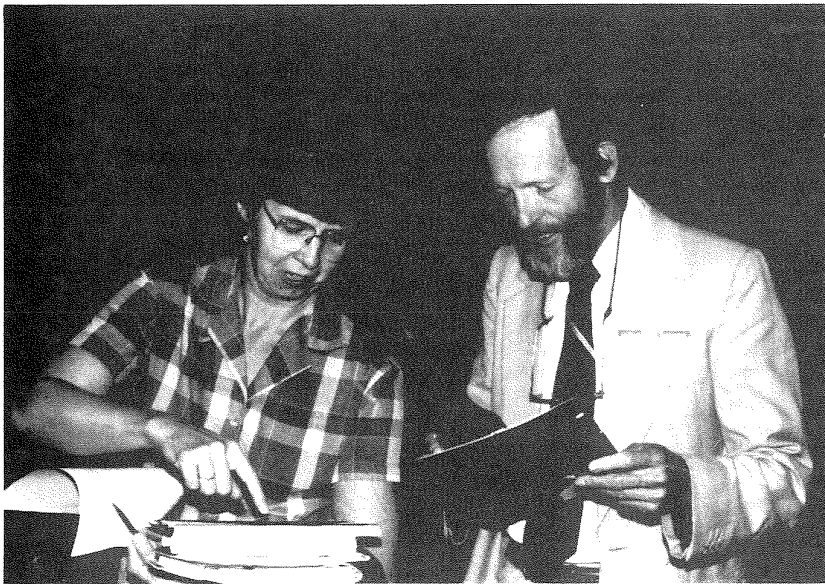
Al Traverse and Jack Burgess



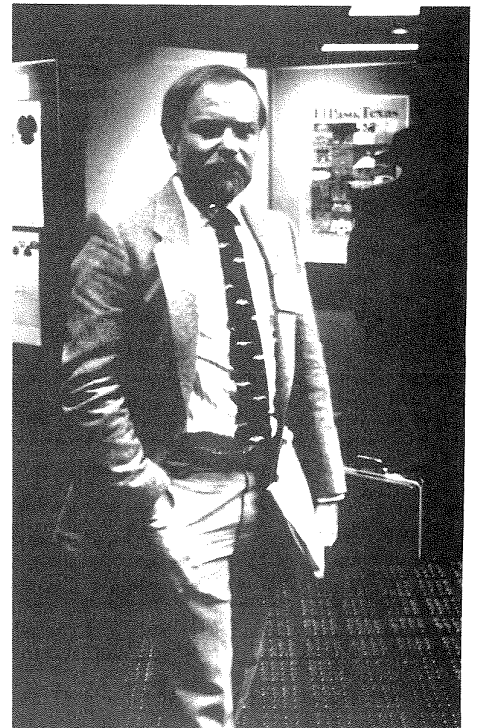
Virgil Wiggins



Lew Stover



Patricia Gensel and Colin McGregor



Doug Nichols and a ptie full of pterodactyls

SPOROPOLLENIN DINOFLAGELLATE CYSTS

AASP is pleased to announce a major new publication:

Sporopollenin Dinoflagellate Cysts

Their morphology and interpretation

by William R. Evitt, Stanford University

Contents:

- I. DINOFLAGELLATES IN GENERAL
 1. Aspects of Living Dinoflagellates
 2. Aspects of the Dinoflagellate Fossil Record.
- II. MORPHOLOGY OF THE CYST
 3. Basic Organization of Theca and Cyst
 4. The Cyst Wall: Stratification and Structure, Surface Relief and Formative Processes
 5. Tabulation and Paratabulation
 6. The Archeopyle
- III. INTERPRETATION OF THE CYST
 7. Guides to Interpretation
 8. Analytical Procedures and Major Morphological Categories
 9. Morphology of P-Cysts
 10. Morphology of G-Cysts -- I. Gc-, Gv-, Gp-, Gq-, and Gs-Cysts
 11. Morphology of G-Cysts -- II. Cysts Distinguished by Intratabular and Nontabular Features
 12. Morphology of M-, R-, S-, D-, and N-Cysts.
 13. Thoughts on Classification and Evolution.

The book is priced at \$30 US, postpaid. Please make checks payable to the AASP Foundation. Remit to:

Robert T. Clarke, Treasurer, AASP Foundation, Mobil Research and Development Corporation, DRD, P. O. Box 819047, Dallas, Texas 75381.

CAP OFFICERS

The new Executive Committee of the Canadian Association of Palynologists took office on January 1. They are:

President: M. S. Barss
President-Elect: J. Terasmae
Secretary-Treasurer: R. A. Fensome
Newsletter Editor: B. G. van Helden

Bert van Helden's address is Chevron Canada Resources, Ltd., 500 5th Avenue S.W., Calgary, Alberta T2P 0L7, Canada. He will be most pleased to hear from anyone having information of interest to members of CAP. Please note also that Rob Fensome's address has recently changed; he may now be contacted at the Atlantic Geoscience Centre, E.P.G., P. O. Box 1006, Dartmouth, Nova Scotia B2Y 4A2.

JOURNAL OF MICROPALAEONTOLOGY

The Journal of Micropalaeontology, published by the British Micropalaeontological Society, has recently published a special volume devoted solely to palynology. Volume 3, No. 2, is issued in honor of Professor Charles Downie, recently retired after a long and illustrious career at Sheffield University. The Volume contains twelve articles on a broad range of palynological topics, ranging from Proterozoic acritarchs to Recent and Late Quaternary dinocysts. Contributors include J. B. Richardson, W. A. S. Sarjeant, N. A. Volkova, W. R. Evitt, R. Wicander, J. Lewis, J. D. Dodge, P. Tett, U. Jux, S. G. Molyneux, W. L. Manger, B. Owens, G. L. Eaton, C. J. Peat, R. Harland, J. H. Ford, and F. Gibbons. In addition, J. B. Richardson has written a Foreword outlining Professor Downie's career and has compiled a list of students and theses supervised by Dr. Downie.

In addition, Volume 4, No. 1 of the Journal of Micropalaeontology, to be released shortly, is also devoted exclusively to a palynological symposium. This volume is titled "The palynostratigraphy of northeast Libya." It is designed to provide a visual record of the stratigraphic succession of palynological events from the Ordovician to the Late Cretaceous. 69 photographic plates are accompanied by brief synoptic discussions of the salient palynological features for each stratigraphic unit. No new taxonomic units are proposed; these will be dealt with in a subsequent volume to be published after the International Symposium on the Palynostratigraphy of Northeast Libya and Adjacent Areas, which will be held in Benghazi, Libya in 1986. Editors for the volume are Bindra Thusu and Bernard Owens.

For information on either of these volumes, please write:

Dr. J. E. Whittaker, Dept. of Palaeontology, British Museum (Natural History), Cromwell Road, London, SW7 5BD, U.K.

Each volume is priced at 15 pounds sterling.

PALYNOLOGIE SCIENCES GEOLOGIQUES

The Institut de Géologie in Strasbourg, France, has published a special volume of palynological papers in honor of the late Dr. Alfred Eisenack. The six articles (Bulletin 35, No. 3) include papers on dinocysts, pollen and spores, and chitinozoans and acritarchs. The articles are in French and German. Regrettably, I do not have information on its cost. Write:

Régisseur Bibliothèque, Institut de Géologie, 1 rue Blessig, 67084 Strasbourg Cedex, France.

THIS ISSUE'S BEST QUOTATION

"The genus *Ctenidodinium* was first described by Deflandre (1938), who designed the type species, *C. ornatus*."

From a recent prominent palynological publication, noted by Rob Fensome in the CAP Newsletter, Winter 1984, to whom the AASP Newsletter Editor tips his hat.

AASP NEWSLETTER TECHNICAL SECTION

COMMENT ON "DISORIENTED DINOFLAGELLATES?" BY JAN JANSONIUS

Lucy E. Edwards, U. S. Geological Survey, 970 National Center, Reston, VA 22092

In the October AASP Newsletter Technical Section, Jan Jansonius laments the insufficient attention given to the orientation of dinoflagellate cysts in some of the published literature. As Jansonius notes, the morphology of a dinoflagellate cyst is best documented by a series of photomicrographs focused through the specimen. It is important that the reader know which photograph in a series represents the highest (and lowest) focus level. I thank Jansonius most heartily for making these important points. However, I disagree with the latter part of Jansonius' discussion because he is apparently confusing image-reversal with change in "aspect" (viewing position). Let me see if I can explain the confusion.

By their nature, opaque objects can only be viewed from one "aspect" unless they are rotated physically with respect to the viewer. Thus, in describing a scanning electron micrograph, one may say "dorsal view" or "dorsal surface" or "dorsal focus." The reader knows this must be the dorsal view of the dorsal surface. If the scientist or photographic technician has accidentally reversed the photographic negative prior to printing, the resulting print does not become a ventral view -- it is a "dorsal view, image reversed."

Transparent or translucent objects may be viewed "through the specimen." Thus, in describing light-photomicrographs, one should give both the view (or aspect) and also the surface or focus-level. Again, if the negative is reversed prior to printing (or if the image is left-right reversed optically prior to photographic exposure), a dorsal view does not become a ventral view -- it becomes a "dorsal view, image reversed."

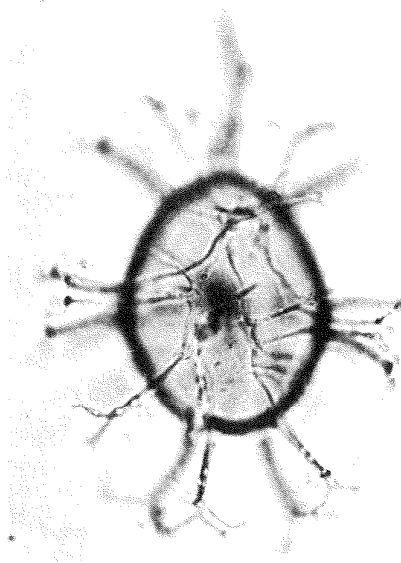
At first glance, the descriptive phrase "dorsal face in dorsal aspect" may appear to the reader to be synonymous with "dorsal focus in ventral aspect, image reversed." Certainly the former expression is briefer. The two phrases, however, are not identical. The former implies that the dorsal surface of the specimen is uppermost on the microscope slide; the latter implies that the ventral surface is uppermost. Dinoflagellate cysts are translucent rather than transparent, and image quality decreases as one focuses through a specimen. A photograph of the dorsal face in dorsal aspect is truly different from a photograph of the "dorsal focus in ventral aspect, image reversed," even though the two photographs could be used to produce identical line drawings. Simply put, a left-right

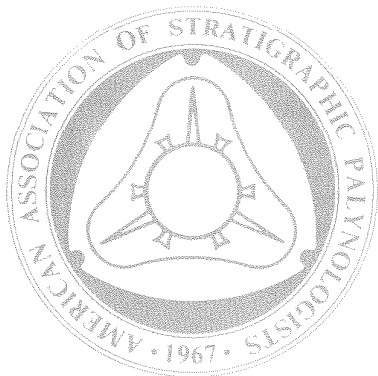
reversal of an image (by whatever means) does not cause a specimen to roll over on a slide!

I offer a counter-proposal to that of Jansonius. Translucent objects -- pollen grains, spores, acritarchs, as well as dinoflagellate cysts -- should be photographed at several focus levels as needed to illustrate their morphology as completely as possible. Plate descriptions of these photomicrographs should allow the reader to make an unambiguous interpretation of the orientation with respect to the viewer. For SEM illustrations, notation of either the view or the surface suffices. Photographic technicians should exercise care so as not to reverse the negative prior to printing. For light-photomicrographs, both the view and the focus-level (or surface) should be specified. Because specimens may land in various orientations on a microscope slide and because all microscopes I know rotate images 180°, I consider it good form to turn photographs to a standard right-side up orientation when I make up my plates. I suggest that those who have microscopes or camera attachments that introduce a left-right reversal have two options: They may remove this left-right reversal by turning the negative over prior to printing, or they may note on their plate descriptions "dorsal view of dorsal surface, image reversed."

Reference Cited

JANSONIUS, J. 1984. Disoriented dinoflagellates? AASP Newsletter Technical Section, 17(4): 8-9.





AMERICAN ASSOCIATION OF STRATIGRAPHIC PALYNOLOGISTS
19th Annual Meeting, OCTOBER 16 - 19, 1985
Convention Center Holiday Inn, El Paso, Texas

Return completed original and two (2) copies to:
Dr. J. Richard Jones, Department of Geography,
University of Texas-Austin, Austin, Texas 78712.

ABSTRACTS SHALL NOT CONTAIN NAMES OF NEW TAXA
NOR OF NEW STRATIGRAPHIC UNITS.

Speaker _____

ORAL
presentation ☐

POSTER
Session ☐

FLYER
☐

STUDENT
paper ☐

TITLE OF THE PAPER, ALL IN CAPS

Author, I.M., author's address, and U.R. Speaker*, address.
Palynomorphs in the ...

Underline the name of each author and flag with an * the speaker of a multiple author paper.

See reverse side for additional notes, instructions, and deadlines.

All of the abstract, including TITLE and authorship, must fit in the box below.

ELIGIBILITY REQUIREMENTS FOR THE L.R. WILSON BEST STUDENT PAPER AWARD

"To be eligible for consideration for the ... Award, a speaker must meet the following requirements:

(1) The speaker should be registered in a graduate degree program, or if the speaker has formally completed his/her graduate degree requirements, he/she cannot have been employed more than 6 months at the time the paper is given.

(2) The paper must present research carried out during his/her academic career.

(3) The paper cannot be co-authored, and must be presented by its author." A.A.S.P. Newsletter, 1981, v. 14, no. 1, p. 7.

A copy of the judging form to be used will be sent to each student author prior to the meeting.

DATES TO OBSERVE

May 15, 1985 - Title is due, with brief summary.

June 15, 1985 - Abstract deadline, if title was not submitted by May 15.

July 15, 1985 - Abstract deadline, if title was submitted before May 15.

Please follow the sample abstract form on the reverse side. As the Local Committee will NOT retype abstracts, yours will appear in the Program exactly as received. Clean your typer's letters, use a fresh ribbon, and have a mean-tempered, eagle-eyed colleague proof read it before you send it to us.

Title _____

Author(s) _____ Speaker _____

Speaker's phone number (____) ____-____ (home? work?)

Mail original and two copies to: Dr. J. Richard Jones, Department of Geography, University of Texas-Austin, Austin, Texas 78712.

Title and summary (for early title submissions)
