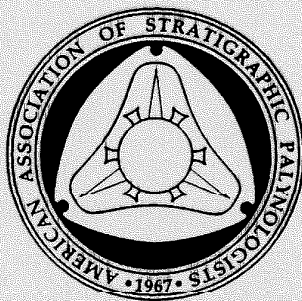


A.A.S.P. NEWSLETTER

Published Quarterly by the American Association of Stratigraphic Palynologists Inc.

February, 1999 Volume 32, Number 1

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A.A.S.P.

American Association of Stratigraphic Palynologists Inc.

The American Association of Stratigraphic Palynologists, Inc. - AASP - was established in 1967 by a group of 31 founding members to promote the science of palynology. Today AASP has a world-wide membership of about 800 and is run by an executive comprising an elected Board of Directors and subsidiary boards and committees. AASP welcomes new members. The AASP Foundation publishes the journal *Palynology* (annually), the AASP Newsletter (quarterly), and the AASP Contributions Series (mostly monographs, issued irregularly), as well as several books and miscellaneous items. AASP organises an Annual Meeting which usually includes a field trip, a business luncheon, social events, and technical sessions where research results are presented on all aspects of palynology.

AASP Scientific Medal recipients

Professor William R. Evitt (awarded 1982)
Professor William G. Chaloner (awarded 1984)
Dr. Lewis E. Stover (awarded 1988)
Dr. Graham Lee Williams (awarded 1996)
Dr. Hans Gocht (awarded 1996)

AASP Board of Directors Award recipient

Robert T. Clarke (awarded 1994)

AASP Honorary Members

Professor Dr. Alfred Eisenack (elected 1975)
Dr. William S. Hoffmeister (elected 1975)
Professor Leonard R. Wilson (elected 1975)
Professor Knut Faegri (elected 1977)
Professor Charles Downie (elected 1982)
Professor William R. Evitt (elected 1989)
Professor Lucy M. Cranwell (elected 1989)
Dr. Tamara F. Vozzhennikova (elected 1990)
Professor Aureal T. Cross (elected 1991)

AASP Distinguished Service Award recipients

Robert T. Clarke (awarded 1978)
Norman J. Norton (awarded 1978)
Jack D. Burgess (awarded 1982)
Richard W. Hedlund (awarded 1982)
John A. Clendening (awarded 1987)
Kenneth M. Piel (awarded 1990)
Gordon D. Wood (awarded 1993)
Jan Jansonius (awarded 1995)
D. Colin McGregor (awarded 1995)
John H. Wrenn (awarded 1998)

Awards at each Annual Meeting: Unocal Best Applications Paper Award, Best Student Paper Award, and Best Poster Award.

Student Scholarships to support studies in palynology. Currently up to two scholarships of \$1000 (U.S.) each annually. The qualification 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 weighed in selection of award winners. Previous winners of this award are eligible only if they are pursuing a different degree than the one they were pursuing when they received the previous award. AASP Scholarships are available to all students of palynology in all countries. Students need not be AASP members. Application forms appear in the January issue of the AASP Newsletter. Chairman of the AASP Awards Committee is Owen K. Davis (palynolo@geo.Arizona.EDU).

AASP Membership Application - Membership in AASP is for the calendar year. Dues are \$30.00 U.S. per year for individuals and \$40.00 U.S. per year for institutional members. All members of AASP receive *Palynology* which is published annually, the AASP Newsletter, which is mailed out four times a year, and an annual Membership Directory.

Dues may be paid up to three years in advance. Overseas AASP Members (Individual or Institutional) who would like to receive their AASP Newsletter and *Palynology* by air mail, rather than book rate surface mail, need to include the applicable postage surcharge (noted below). Credit card users must pay a \$1.00 U.S. surcharge per transaction.

Air mail surcharge (increased for 1995 and beyond): Europe & South America: \$12.00 U.S. per year. Africa, Asia & Australia: \$15.00 U.S. per year. Credit card surcharge \$1.00 per transaction.



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Jan Willem Weegink, Editor

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The AASP Newsletter is published four times annually. Members are encouraged to submit articles, "letters to the editor", technical notes, meetings reports, information about "members in the news", new websites and information about job openings in the industry. Every effort will be made to publish all information received from our membership. Contributions which include photographs should be submitted a week before the deadline.

Deadlines for next issues of the newsletter, are January 31st and March 31st 1999. All information should be sent on computer disks (MS Word for Windows is best) or by email; if possible, send a hard copy. Always send a duplicate typescript of all electronic copy sent for checking. If possible, please illustrate your contribution with art, line drawings, eye-catching logos, black & white photos, colour photos, etc.

We **DO** look forward to contributions from our membership.

PRESIDENTIAL ADDRESS Chris Denison

Greetings from remote Duri Camp, Sumatra. Your intrepid President will be spending four months here this year, fortunately not concurrently.

Only about 30% of the primal tropical rain forest is left on Sumatra, mainly in areas too remote or mountainous for logging access. Rubber plantations once consumed many square miles, but these are now in decline. Oil fields are relatively small in area, but the pipelines, access roads and wellhead locations leave ugly scars. Reforestation projects are underway to repair some of this damage.

The main culprits are the lumber/paper and palm oil industries. Big trees are stripped out, a few for valuable hardwood lumber, but most for plywood and paper pulp. The remaining small trees and underbrush are burned, a significant contribution to the regional smoke problems of recent years. A monoculture of seemingly endless square miles of palm oil trees is then planted to produce cooking oil and margarine.

Back in the middle Miocene, the part that I am currently working on, this was a deltaic area dominated by tidal channels and estuaries. A microscope serves as a time machine into part of the Miocene ecosystem. The pristine rain forest of those days ended up, by natural processes, as the carbonaceous material draped on bedding surfaces channel sandstones in the cores I have been describing. Pollen and spores settled out in estuarine and shelf mudrocks, along with the cysts of a few hardy dinoflagellates.

Tattered populations of Sumatran elephants, tigers and bears that still survive are of small stature, whereas the Miocene world seemed to be characterised by gigantism in both terrestrial and marine faunas. The fossilised remains of extraordinary animals that once roamed this part of the world are now entombed under several thousand feet of sediment, forever unknowable.

Back home in the U.S., Eddie Robertson has once again been able to find willing volunteers for various Board of Directors positions. I urge you to fill in your ballot sheets when they arrive in the mail.

This is also a good time to be thinking about attending, or contributing to, the Annual Meeting. This year we will be in Savannah, Georgia. Fred Rich is doing a great job handling all the organisation. Savannah is an elegant historic city, with wonderful architecture to explore in your free time. I am really looking forward to it! See you there.

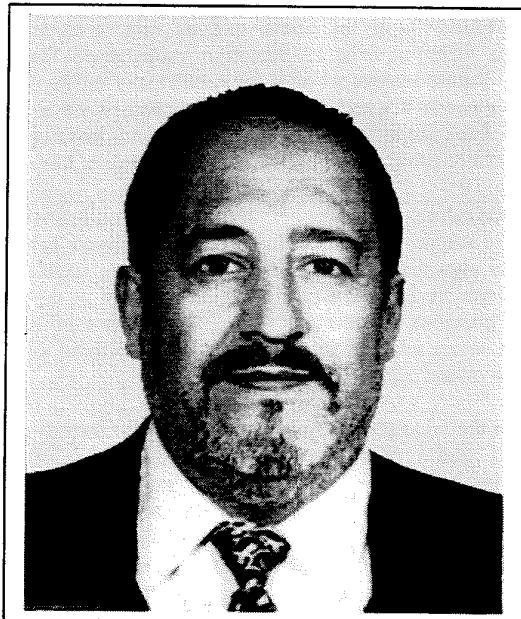
On a sad note, it seems that the Amoco biostratigraphers in the new BP-Amoco will be much reduced in numbers. By the time this gets published the bad news will be public knowledge. It is a sad end to the biostratigraphic powerhouse created by Charlie Upshaw, and a grim continuation of more than a decade of downsizing biostratigraphy in the oil industry. Best wishes to our friends in Houston, whatever their continuing endeavours may be.

- Chris Denison -

1999-2000 BOARD OF DIRECTORS CANDIDATES

For President elect: Javier Helenes
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For Managing Editor: David Goodman
For Director at Large: Sharma Lynn Gaponoff
Jim Riding
John Firth*
Dick Baker

* Bio's and/or photographs will appear in the next newsletter.



Javier Helenes. Received a B.S. in Geology from the Instituto Politecnico Nacional in Mexico City, and an M.S. (Stratigraphy and micropaleontology) and Ph.D. (Morphology and taxonomy of fossil dinoflagellates) from Stanford University. He has worked in academic institutions in Switzerland and Mexico, and as a palynological consultant in Canada, U.S.A. and Venezuela. In January 1995, joined the Department of Geology of the Research Center "CICESE" in Baja California, Mexico, where he is currently a Research Associate. His main interests include morphology and taxonomy of fossil dinoflagellates and Jurassic to Tertiary stratigraphy from Baja California and the Caribbean - Gulf of Mexico region.

Sharma Lynn Gaponoff was an impressionable undergraduate in the late 60's, when she was introduced to the world of palynology by none other than the infamous Judi Lentin who claimed that dinocysts to be "sexy little beasties." Impressionable, but doubting, she continued her undergraduate work in Biological Sciences, becoming a science teacher for grades 8-12 for 8 years. During this

time, she pursued a Masters degree in Botany and served as a part-time instructor of undergraduate biology and botany at California State University, Long Beach. Throughout this time, Judi Lentin



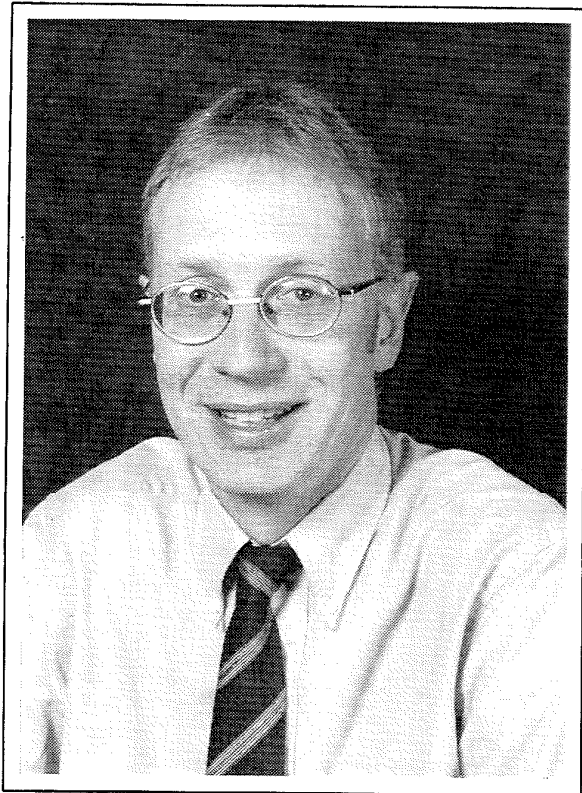
kept on about the dinocysts. Her persistence won out, and Sharma switched to palynology, completing a MS degree at Cal State Long Beach on Paleocene pollen in southern California.

In 1981, Sharma began her professional career as a palynologist with Chevron at their research laboratory in La Habra, California and has worked for Chevron since then. She is now Senior Palynologist at Chevron Overseas Petroleum. She has been a member of AASP since 1979. Over the years, Sharma has served in various ad-hoc capacities for AASP such as on the nominating committee, as judge for the L. R. Wilson Award for Best Student Paper, and as co-organizer of the Tethys Symposium at the 1998 AASP meeting in Ensenada. Having careers in both academia and industry, Sharma has insights into the needs and strengths of academic and Applied aspects of palynology and will be able to serve AASP on behalf of both.



Dave Goodman works for Arco Alaska in Anchorage, having previously held assignments with Arco in Midland and Plano, both in Texas. He was a biostratigrapher at Exxon Production Research Company in Houston from 1978 to 1983. He holds B.S. and M.S.

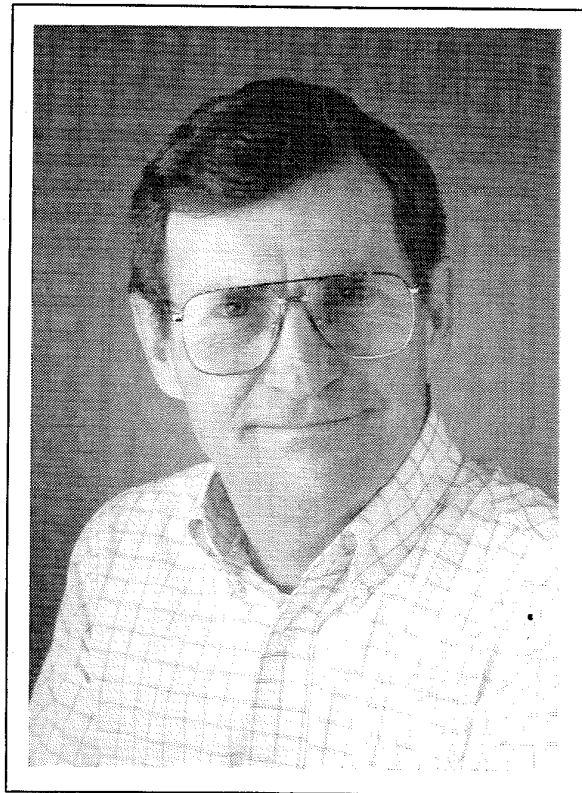
degrees from Virginia Tech and a Ph.D. from Stanford. He has served on the Technical Advisory Board for the *Treatise on Invertebrate Paleontology*, and the Technical Advisory Committee for the PALCAT Project at the American Museum of Natural History in New York. He has been managing editor of AASP since 1987, and was a director-at-large prior to that. He currently serves on the editorial boards for *Marine Micropaleontology* and the Internet journal *Paleontologica Electronica*. He is co-editor (with Bob Clarke) for the Houston IPC Proceedings Volume. Dave joined AASP in 1976. He is the president of the 800-member Alaska Fly Fishers (one of the largest fly fishing organizations in the US) and serves on the Advisory Board for the Alaska Council of the Federation of Fly Fishers. He collects bamboo fly rods, trilobites, and armadillo fetishes.



James B. Riding is a palynologist with the Basin Analysis and Stratigraphy Group of the British Geological Survey (BGS), based at the BGS headquarters in Nottingham, UK. After studying geology at the University of Leicester, graduating in 1979, he pursued a long-standing interest in palynology. This started with the famed MSc course at the University of Sheffield directed by Charles Downie and Roger Neves from which Jim graduated in 1981. He left Sheffield for BGS, which was at that time called the Institute of Geological Sciences, joining the then Palaeontological Department in the nearby Leeds office. Here, Jim worked closely with Ron Woollam on Mesozoic dinoflagellate cysts and miospores from onshore UK and the offshore continental shelf. The Leeds office was closed in 1984 and Jim and colleagues moved to the main BGS centre at Keyworth, south of the city of Nottingham. He was awarded a PhD by the University of Sheffield in 1986 for a thesis on the Jurassic dinoflagellate cyst floras of northern and eastern England.

Current palynological interests include the Mesozoic-Cenozoic palynology of Europe, Antarctica, west Africa, the Americas,

Russia and the Middle East, paleoenvironmental palynology, palynomorph floral provinces and the morphology, systematics and taxonomy of dinoflagellate cysts. The British Antarctic Survey, a sister organisation to BGS, have used Jim as a consultant palynologist since the mid 1980s and he visited the Antarctic Peninsula for a fieldwork tour during the Austral Summer of 1989. The European Union has recently funded two collaborative projects involving Jim on the Jurassic palynology of Russia and southern Europe. He is currently the Treasurer of the British Micropalaeontological Society; prior to this he was Secretary from 1988 to 1995. Jim has been a member of AASP since 1980, he publishes regularly in the journal *Palynology*, has attended six annual meetings and is currently the UK correspondent for the AASP Newsletter.



Richard G. (Dick) Baker received his PhD in Geology from the University of Colorado, Boulder in 1969. After a year postdoc at the Center for Climatic Research, University of Wisconsin, he moved to the Department of Geology, University of Iowa, Iowa City, where he has been ever since. He teaches introductory geology courses along with Quaternary palynology and paleobotany and Quaternary Environments. His research interests are in multidisciplinary approaches to Quaternary paleoecology in the Midwest, Great Plains, and Rocky Mountains. He has served as Chair of the Geology Department and is an Associate Editor for *Plant Ecology*. He is interested in prairies and prairie reconstruction, canoeing, fishing, and other outdoor activities.

John V. Firth received his B.S. in Geology at Virginia Tech in 1981, and stayed to get his M.S. degree in palynology under Dewey McLean in 1984. He received one of the first AASP student scholarships for his thesis on Maastrichtian/Danian dinoflagellates. He then went to Florida State University to get his Ph.D. studying

calcareous nannofossils under Woody Wise. During his tenure at FSU, he sailed on the Ocean Drilling Program Leg 105 to Baffin Bay and the Labrador Sea, as a calcareous nannofossil specialist. On this cruise, he first met Martin Head and Anne de Vernal, and enjoyed talking dinos with them while studying much tinier microfossils. Finishing his PhD in 1989, he was hired at the Ocean Drilling Program at Texas A&M University as a staff research scientist. He sailed on 7 ODP cruises in the Pacific, Arctic, and North Atlantic and found that these cruises were always full of nannofossil specialists, so he instead looked for interesting palynology projects in the deep sea. In 1996, John became the Curator of ODP, where he supervises four core repositories and all curatorial/sampling activity on the ODP drillship. As an adjunct faculty member in the TAMU Department of Geosciences, he has had one M.S. student (Jennifer McMahon) in palynology graduate in 1997, and currently has one Ph.D. student (Oscar Yepes) studying Upper Cretaceous/Paleogene dinos from Colombia and Venezuela. His research interests remain with Upper Cretaceous and Paleogene dinoflagellate and calcareous nannofossil biostratigraphy and paleoecology, palynofacies, and paleoceanography. John has been a member of AASP since 1982, and he helped a little in organizing some tours/field trips for the 1994 AASP meeting in College Station.

AASP STUDENT SCHOLARSHIPS

The American Association of Stratigraphic Palynologists awards Student Scholarships to support studies in palynology and pollen analysis. Three scholarships of up to \$1000 each are awarded annually. 1999 scholarship applications must be postmarked no later than March 31, 1999.

Application forms may also be obtained at
<http://geo.arizona.edu/palynology/scholarship.html>

- Owen K. Davis, Geosciences, U of Az, Tucson, AZ
 85721-0077 - TEL 520 621 7953, FAX 621 2672

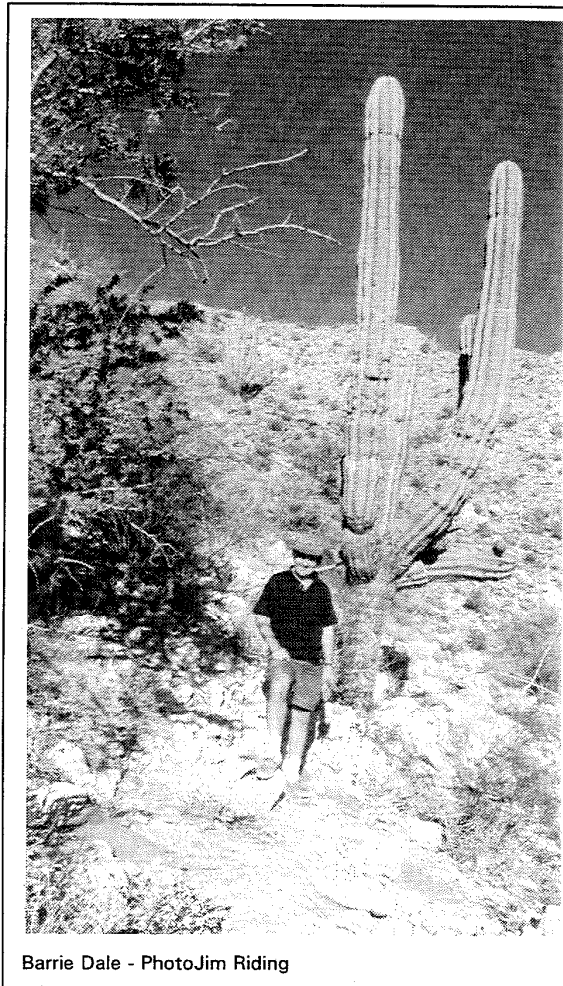
ENSENADA OR BUST by Vaughn Bryant

As I prepared to leave Texas for the wilds of the annual AASP meeting in Baja California, I wondered what to expect. My only previous knowledge of that area came from John Steinbeck's novel *Log from the Sea of Cortez* and travel posters of that region. At the San Diego airport a group of us deplaned and headed for the baggage claims area where we were supposed to meet our ride. There, we found a person holding up a sign that said "AASP." He had been sent by Maru Garcia (Javier Helenes' Administrative Assistant) to pick us up at the airport and drive us 100 km south along the Pacific Coast Highway to Ensenada. As we soon discovered, the real challenge was finding all the AASP folks who were scattered all over the airport after arriving on various flights. We finally rounded them up, loaded the van, and headed south. Having someone meet us at the airport and then transport us across an international border and on to the hotel in Ensenada was very much appreciated by all those who attended the annual meeting. In this regard, it is only fitting that AASP expresses its sincere appreciation to CICESE for covering the cost of the transportation to and from the San Diego airport, as well as the cost of the buses we used for the wine tasting-concert and for the Saturday field trip.

Tijuana, Mexico, has got to be one of the busiest ports of entry between the US and Mexico. As we approached the border the road opened to eight lanes, each one identified by a long row of cars, trucks, and vans waiting their turn to enter Mexico. Once we

got through the checkpoint and headed south we saw what looked like the world's largest parking lot to our left. It was filled eight lanes wide with all sorts of vehicles and was more than 2 km long. All were waiting to cross back into the United States. We were glad to be headed south and not trying to go back to San Diego!

Soon the van was purring along a wide, four-lane highway headed south along the coast. The color contrast was spectacular. The land in that area of Baja California, is dry, has xeric vegetation, and reminded me of areas of west Texas.

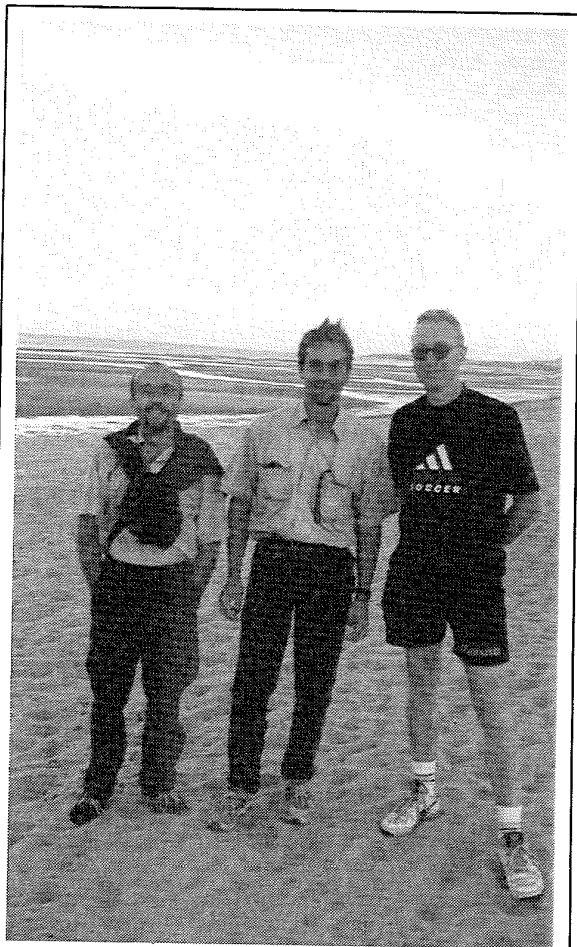


Barrie Dale - PhotoJim Riding

However, below us were beaches, rocky coastlines, and a calm azure ocean that has become the playground of both the rich and famous as well as those who love to surf and deep-sea fish. As we cruised along at about 100 km/hr I noticed an old, beat-up brown van with two surfboards tied to the top headed south. On the dented back door someone had written, "Ensenada or Bust," in the thick layers of brown dust. Yes, I thought, we too could say, "Ensenada or Bust."

Several hours and several tollbooths later our van pulled up to a beautiful, new hotel and marina a few kilometers north of Ensenada. It was a great meeting facility---spacious rooms overlooking the Bahia de Todos Santos (All Saints Bay) and a marina filled with yachts and sailboats, each costing many thousands of dollars. This was not your typical marina filled with small fishing boats, skiffs, and small sailboats. I think the smallest boat I saw in the marina was at least 30 feet long and some looked

so large that they could have easily accommodated all those who attended the AASP meeting! In the bay, beyond the marina, were three anchored cruise ships making one of their regular stops along the western Pacific coast.



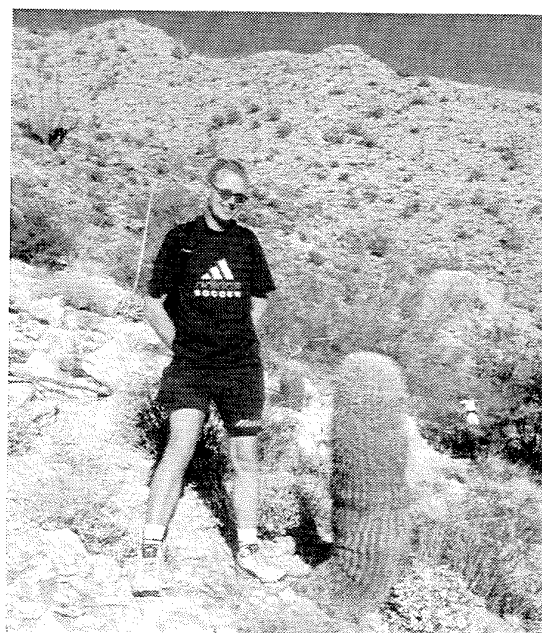
Braccini, Torricelli and Riding 1998 – Photo Jim Riding

The 31st annual AASP meeting began on Tuesday as scheduled with Jim Riding's Workshop on Jurassic Dinoflagellate Cysts. From Wednesday to Friday there were technical sessions and two symposia; one symposium was chaired by Joyce Lucas Clark and Sharma Gaponoff on Tethys, and a second one chaired by Cristina Peñalba on Quaternary Palynology. In all, there were 67 registrants and 17 spouses for a total meeting registration of 84. Most of the registrants came from the U.S. (35), Mexico (8), and Canada (6). Eight other countries were also represented for this international meeting.

On Saturday a bus, one van, and one private car headed south and then east into the "outback" of Baja California, on a field trip. Reports from those on the field trip said that it was well organized, exciting, informative, filled with excellent photo opportunities, and offered a chance to wade in the gentle surf of the northern Gulf of California before dinner in San Felipe. The only real excitement came when the bus broke down and delayed things for a while, but the leaders turned the unexpected stop into an informative field stop. A special thanks also goes to Jesus Castellon for his discussions about the phytogeography of the region, and to Miguel Tellez who kept everyone informed on the

geology of the region. Both individuals were from the Universidad Autonoma de Baja California.

There were a number of highlights of the meeting. The first was the traditional evening "smoker," which I guess we can't call by that name anymore because in most places, in the United States at least, one isn't allowed to smoke in most public facilities or restaurants. Nevertheless, the "smoker" (aka—"Icebreaker") at the hotel featured an array of wonderful Mexican foods, a mariachi band, and good local beers and wines. We were also treated to an excellent dancing exhibition by Javier and his wife. On another evening the AASP registrants were treated to a trip to the nearby Bodegas de Santo Tomas, an old and very famous local winery. After briefly touring the facility the guests were treated to wine tasting and a variety of foods. Also featured was an outstanding local guitarist (Ruggiero Carloz), who flawlessly played traditional and original selections that echoed against the high ceiling and stone walls lined with large oak vats.



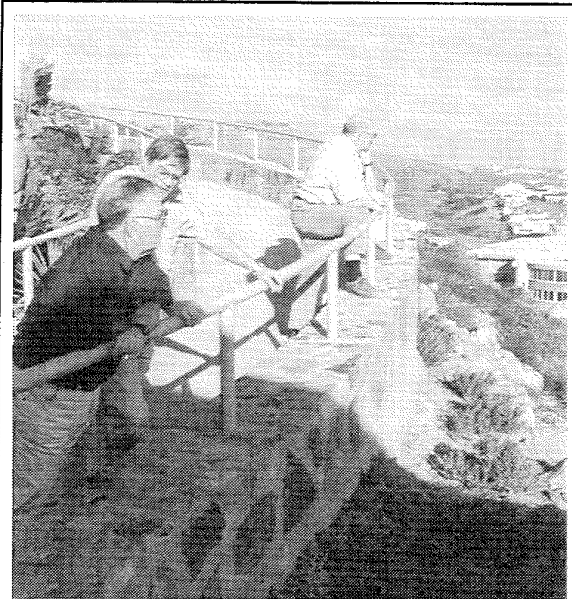
Jim Riding – Photo Jim Riding

The annual meeting was well organized, the hotel personnel were polite and helpful, and the food was excellent. The 27 oral presentations covered a wide range of palynomorph research that was as broad in scope as the 27 posters presented at the meeting. For those who attended, it was a chance to renew friendships, discuss research topics, enjoy spectacular sunsets, and relax from the normal busy work routine we each had left behind.

Javier Helenes, Jesus Castellon, Miguel Tellez, and others from CICESE and the Universidad Autonoma Baja California, deserve the grateful thanks of all those in AASP for the hard work and time they volunteered in getting the facility ready for the meeting, and then ensuring that everything occurred on schedule. For those of you who have never chaired or co-chaired an annual meeting I am not sure you can fully appreciate all the work, time, and effort that must take place before, during, and even after an AASP annual meeting. It is a heavy responsibility and all too often few of those who attend remember to stop and thank those who ensured the meeting's success. In this regard, I cannot close this report without thanking Javier and Martha Helenes and Carol and Bob Clarke. When I arrived at the hotel Bob and Carol were sitting

behind the registration table with the blue AASP banner taped to the wall. Around them were boxes of registration packets, copies of AASP publications, and one small notebook computer containing all the pertinent information about who had registered, who still owed payment, and which people were scheduled to go to workshops or on field trips. Meanwhile, Javier was rushing around taking care of other details for the workshop, transportation schedules, meeting room scheduling, and numerous other tasks.

One final note. When I arrived at the registration table Bob handed me the usual registration packet and a black backpack meeting bag to put all my stuff in. I didn't give it much thought until I reached my room, unpacked, and then turned to the registration material to find the program schedule and abstract booklet. It was then that I noticed that on the front of the black bag was a strange logo with the letters "AAPG." My first thought was that some printer had been drunk when he made up the bags and got the wrong logo and then put "AAPG instead of AASP." Then my eyes fell on a small line of print under the logo that said "Salt Lake City, 1998." That was even more puzzling because we were meeting in Ensenada! When I returned to the registration desk to show Bob how badly some printer had screwed up, Bob leaned over and whispered, "Don't tell anyone about this...let's see if anyone else notices. You see," Bob continued, "I got these at a 'fire sale price' from the AAPG after their 1998 Annual Convention."



Robin Helby, Don Benson and Merrell Miller 27-10-1998.
lunchtime at Jurassic workshop - photo Jim Riding

I smiled and walked away wondering how I was going to convince my university that I had really gone to "Ensenada" and not to "Salt Lake City." But, I thought.... "Just think how much money AASP must have saved by using "fire sale" stuff from AAPG!

As I always say, "there's never a dull moment at an AASP annual meeting!"

- Vaughn M. Bryant Jr.

AASP in 1999, Simply Savannah

The Board of Directors of the American Association of Stratigraphic Palynologists is pleased to announce the venue for the 1999 annual meeting - Savannah, Georgia. We have chosen to

hold our last meeting of the 20th century in a town that by most accounts is simply enchanting, simply charming, and simply sensational. The dates for the meeting are October 26-30 (including a day for a fieldtrip on Saturday).

For those who are not familiar with this city, on February 12, 1733, James Edward Oglethorpe and 114 colonists arrived in what is now downtown Savannah to found America's thirteenth colony. Savannah's long and colorful history includes its having been a most important seaport and defensive position during America's early colonial years. It stood as a strategic point in both the Revolutionary War, and the American Civil War, and has long been regarded as one of the most elegant cities of the American South. Savannahians have long been proud of their city and, in fact, rather than risk its total destruction at the hands of Union General William Tecumseh Sherman on December 22, 1864, they surrendered their city. Sherman's now famous message to President Lincoln read "I beg to present to you as a Christmas gift, the City of Savannah with 140 heavy guns and plenty of ammunition and also about 25,000 bales of cotton."

Those who attend the 1999 annual meeting of the American Association of Stratigraphic Palynologists need not worry about armies, guns, or bales of cotton. What you will find is a city that has grown mature and genteel, with excellent facilities for conventions and visitors. Our headquarters hotel will be the Days Inn Historic District, a comfortable and affordable lodging that is located right on Bay Street, the main east-west thoroughfare of the historic district. We have secured 45 single/double occupancy rooms that are available for \$72+tax per night. We also have 5 1-bedroom suites at our disposal for \$92+tax per night. The meeting itself will be held in the Coastal Georgia Center (CGC), a facility owned and operated by the University System of Georgia, and administered by Georgia Southern University. The lecture hall in the Coastal Georgia Center will very comfortably seat 362 people, and is equipped with a full complement of audio and visual facilities. Ample parking is available for those who choose to drive; it is also a very comfortable, and safe 10-15 minute walk from the Days Inn.

Registration for the meeting can be done ahead of time (forms will be available in the June issue of the Newsletter), or can be done on-site on October 26th. We will hold an ice breaker the evening of the 26th at the Savannah History Museum, located just a minute's walk from the CGC. The museum houses extensive displays of historic materials, including a full-size steam locomotive, and will provide visitors with an excellent introduction to Savannah's human history. Technical sessions will be held from the 27th to the 29th, with at least one symposium to be held one of those days. Dr. Arthur Cohen, University of South Carolina, has agreed to organize a special 1/2 day session on Short-term Palynological Records, with emphasis on interpreting anthropogenic impacts.

A fieldtrip is tentatively planned for Saturday, October 30, to the Okefenokee Swamp National Wildlife Refuge. Both Art Cohen, and Fred Rich, organizer of the 1999 meeting, have worked extensively in the swamp. Individuals who have not seen this magnificent wetland should plan on attending. We propose to leave Savannah by bus early in the morning on Saturday, and will travel to the National Wildlife Refuge headquarters where we will board boats for a trip into Chesser Prairie. Members who accompanied Fred on the IPC fieldtrip to the swamp in 1996 will remember what a grand place this is. The trip will end in Savannah that evening, providing attendees ample time to secure flights on Sunday.

Savannah is served by several airlines via Savannah International Airport. Delta and U.S. Air are the most prominent carriers. We have made arrangements for affordable transportation from the

airport to the Days Inn. Once you get to the downtown area a great many things are easy to get to simply by walking, including theaters, art museums, nightclubs, parks, and many, many historic sites. Those who want to are welcome to drive to Tybee Island, on the Atlantic, an easy 30 minute trip which takes you across Georgia's storied salt marshes, and past Fort Pulaski National Monument.

More details will be available in the June AASP Newsletter, or on the AASP website as updates take place. In the mean time, you might want to explore Savannah's own website at www.savannahga.com. For further information from the organizer, contact Fred Rich at frich@gasou.edu. Plan on visiting the Old South in October, and plan on having a simply wonderful time!

- Fredrick J. Rich - Department of Geology and Geography, Georgia Southern University, Statesboro, Georgia 30460-8149

The UK Palynological Scene
by James B. Riding - UK Correspondent

I have several items of news which emanate from the British Micropalaeontological Society (BMS) this quarter. Firstly, the publishers of the BMS Publications Series, Kluwer Academic Publishers, of Dordrecht, The Netherlands have agreed to reprint the 1992 book edited by Jamie Powell entitled A stratigraphic index of dinoflagellate cysts. The original publishers, Chapman and Hall of London, printed a relatively small print run which meant that the book sold out in five years. Hence the many people wishing to obtain this volume should be able to buy one this year.

The BMS committee recently agreed to a proposal for the instigation of a specialist group on Siliceous Microfossils. This gives the Society a total of six specialist groups, which organise group, multi-group and general meetings. The impetus for the new Silicofossil Group was initially from Jenny Pike of Cardiff University. Jenny, is the Chair of the new Group and, together with Secretary F. John Gregory, will be organising a meeting on diatoms, radiolarians, silicoflagellates and sponge spicules in the near future. We hope that this new group will bring new members into the Society.

An informal meeting of the BMS Palynology Group was to be held at the University of Sheffield on the 20th of January in order to explore the future role and direction of the group. Unfortunately this meeting was cancelled due to late logistical problems. It is to be rescheduled in the near future and we hope many members will attend and put forward their views on future meetings and collaborations.

Finally, UK palynologists were well represented at the Commission Internationale de Microflore du Paleozoique (CIMP) symposium held last September in Pisa, Italy.

BOOKS

"The Permian System: Stratigraphy, Palaeogeography & Resources (Proceedings of the Strzelecki International Symposium on the Permian of Eastern Tethys: Biostratigraphy, Palaeogeography and Resources, Deakin University, Rusden Campus, Melbourne, Australia 30 November - 3 December 1997)".

Edited by G. R. SHI, N. W. ARCHBOLD & M. GROVER
School of Ecology and Environment, Deakin University, Rusden Campus, Melbourne, Australia

Contents:

D. BRANAGAN - The pole and the Australian Permian

N. W. ARCHBOLD - History of geological and palaeontological studies on the Permian glacially derived sequences of the Bacchus Marsh district, Victoria

G. D. WEBSTER - Distortion in the stratigraphy and biostratigraphy of Timor, a historical review with an analysis of the crinoid and blastoid faunas

JIN YUGAN, WANG WEI, WANG YUE AND CAI CHANG-QUAN - Prospects for global correlation of Permian sequences

N. W. ARCHBOLD - Correlation of the Western Australian Permian and Permian circulation patterns

JOHN BACKHOUSE - Palynological correlation of the Western Australian Permian

V. GOMANKOV, B.E. BALME AND C. B. FOSTER - Tatarian palynology of the Russian Platform: a review

V. G. CHALIMBADIA AND V.V. SILANTIEV - Conodonts from the Upper Permian type strata of the European Russia

MASAYUKI EHIRO - Ammonoid biostratigraphy of the Middle Permian in the South Kitakami Belt, Japan and correlation with the reference sections in the Tethyan region and North America

TAYANA B. LEONOVA - Permian ammonoids of Russia and Australia

R. H. SWART - Revision of Permian pleurotomarian gastropods from Western Australia

V. PALMIERI - Foraminifera zonation in the Permian stratigraphy of the Denison trough (Bowen Basin), central Queensland

HEINZ W. KOZUR - The Permian conodont biostratigraphy: progress and problems

TAKESHI ISHIBASHI, MASAYUKI FUJIKAWA, SHOJI YODA AND NIKORN NAKORNTRI - Dorashanian biostratigraphy of Thailand

R. Kh. SOUNGATOUULLINE, R.R. KHASSANOV AND A.A. NOVIKOV - The problem of geochemical correlation of polifacies sediments of the Upper Permian of the East Russian platform

J. W. WATERHOUSE - Permian geology of Wairaki Downs, New Zealand

C. B. FOSTER, G. A. LOGAN & R. E. SUMMONS - The Permian-Triassic Boundary in Australia: where is it and how is it defined

SHU-ZHONG SHEN AND G. R. SHI - Permianellids (Brachiopoda) and their stratigraphical range and palaeogeographical distribution

JUN-ICHI TAZAWA - Pre-Neogene tectonic divisions and Middle Permian brachiopod provinces of Japan

G. D. WEBSTER - Palaeobiogeography of Tethys Permian crinoids

J. F. RIGBY - Glossopteris occurrences in the Permian of Irian Jaya (western New Guinea)

SHAO JIAN AND ZHAN LI-PEI - North-east Asia terranes and Permian palaeogeography

ALFRED M. ZIEGLER, MARK T. GIBBS AND MICHAEL L. HULVER - A mini-atlas of oceanic water masses in the Permian Period

Z. Q. CHEN, JIN YUGAN AND G. R. SHI - Permian transgression-regression sequences and sea-level changes of South China

GUANGHUA LIU, WERNER RICKEN, VOLKER MOSBRUGGER AND JÜRGEN KULLMANN - Permo-Carboniferous carbonate-coal sequences and their stacking patterns in North China block

JINNAN TONG AND G. R. SHI & LIN QIXIANG - Evolution of the Permian and Triassic reef ecosystems in South China

XIAO-CHI JIN - A comparison between Permo-Carboniferous sequences of the Baoshan Block and the Lhasa Block

MOHD SHAFEEA LEMAN AND G. R. SHI - The Permian of Langkawi Islands and northwestern Peninsular Malaysia with comments on the significance of the Kisap Thrust

R. S. NICOLL & IAN METCALFE - Early and Middle Permian condonots from the Canning Basin and southern Carnarvon Basin, Western Australia: their implications for regional biogeography and palaeoclimatology

As you can see from the above list, there is quite a substantial amount of new data and information contained in the book. Professor Ziegler and colleague's paper contains a total of 12 colour maps including 9 Permian ocean water masses maps, one for each Permian stage.

You can obtain more information about this book from:

Professor Neil W. Archbold, School of Ecology and Environment, Deakin University, Rusden Campus, 662 Blackburn Road, Clayton Victoria 3168, Australia

Email: narchie@deakin.edu.au

Fax: 61 03 9244 7134 - or -

Guang R. Shi, (on behalf of Guang Shi, Neil Archbold and M. G. Dr. Guang R. Shi, School of Ecology and Environment, Deakin University, Rusden Campus, 662 Blackburn Road, Clayton, Victoria 3168, Australia.

Tel. 63-03 9244 7276; Fax: 63-03 9244 7134

Email: grshi@deakin.edu.au

MANGOVES

Ecology and Biodiversity of Indian Mangroves/Kumudranjan Naskar and Rathindranath Mandal. 1999, 2 volumes, xxix, 754 p., From the blurb "the mangroves and the mangrove associates of the Indian Sundarbans are described in relation to their morphometric features, anatomical characteristics and also with their distinct halophytic adaptations. Besides their structural and habitat distinctness, their economic importances, distributions in the different mangrove habitats of the Indian sub-continent and the mangals of both old and new world tropics and sub-tropics are also highlighted based on the pioneer works on the Indian and world mangroves"

Detailed description of this title including the table of contents is available at:

<http://www.vedamsbooks.com/no14426.htm>

For an extensive annotated catalogue of books on Algae, published in India, please visit <http://www.vedamsbooks.com/algae.htm>

- Vedams Books International - 74 New Delhi 110 005, India
vedams@vedamsbooks.com - Fax: 91-11-574 5114

MEETINGS

The Society for Organic Petrology (TSOP), 16th Annual Meeting, September 26- 30, 1999, Salt Lake City (Snowbird Resort), Utah, USA. Information: Jeff Quick, Utah Geological Survey, 1594 West North Temple, Suite 3110, Salt Lake City, Utah 84114-6100 USA, Phone 801-537-3372; fax: 801-537-3400,

E-mail nrugs.jquick@state.ut.us.

Details: <http://www.tsop.org>.

Meeting includes poster and technical sessions, post-meeting field trip to Utah coals and petroleum source rocks of Uinta Basin and Green River Formation, and pre-meeting short course on organic matter characterization by optical and molecular methods taught by R.V. Tyson.

Also at TSOP web site are details about the EMD-TSOP CD-ROM Atlas of Coal Geology and the 1999 TSOP Graduate Student Research Grants. Grant application deadline is March 31, 1999.

MaryAnn Love Malinconico - Lamont- Doherty Earth Observatory of Columbia University

15TH NORTH AMERICAN DIATOM SYMPOSIUM

Pingree Park, Colorado State University

22-25 September 1999

FIRST CIRCULAR

The North American Diatom Symposium (NADS) is a gathering held every other year to exchange research results and new ideas concerning all aspects of diatoms. In 1999, NADS makes a journey west, and will be held at Pingree Park, Colorado. The symposium will consist of verbal and poster presentations on any topic pertinent to diatoms, be they freshwater or marine, extant or extinct. There will be no concurrent sessions. A panel discussion involving participants and invited speakers will be held during the symposium.

Optional post-symposium excursions include a trip to the headwaters of the Cache La Poudre River, the last free-flowing river in Colorado. A second trip will require strenuous hiking to high-elevation alpine lakes in Rocky Mountain National Park, sites of long-term watershed research.

The symposium will be held at Pingree Park, a field station nestled at the foot of the spectacular Mummy Range on the north side of Rocky Mountain National Park. The remote campus lies in the broad, glacial valley of the Little South Fork of the Cache La Poudre River at an elevation of 2,750 meters (9,000 feet).

Pingree Park is located approximately 100 miles (3 hours travel time) from Denver International Airport. Transportation from the airport is not provided, however conference organizers will facilitate coordination among individuals who wish to share car rental.

NADS will be held 22-25 September 1999. Registration will begin Wednesday evening (22 September), with presentations on Thursday and Friday. Field trips will be held on Saturday. Those who would like to arrive early, or stay longer, may do so for additional cost.

Registration is anticipated to be \$160, which will include meals, dormitory lodging, hospitality services, and a banquet. Participants may request single rooms or family suites for an additional charge. Campsites are also available nearby.

Refer to the NADS 99 web site at:

<http://www.calacademy.org/research/diatoms/nads/nads.htm>

Please bring this announcement to the attention of any interested individuals who may not be on our electronic mailing list. The conference organizers will provide announcements and formal invitations by regular mail to those who request them. For more information, please contact:

Dr. Sarah A. Spaulding, Department of Invertebrate Zoology & Geology, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118, tel: (415) 750-7078, fax: (415) 750-7090

email: spauldin@cas.calacademy.org

- Dr. John C. Kingston, U.S. Geological Survey, 5293 Ward Road / MS 407, Arvada, CO 80002, tel: (303) 467-8144, fax: (303) 467-8240, email: kingston@usgs.gov

3 CONGRESSO DE ARQUEOLOGIA PENINSULAR (Spain & Portugal), Vila-Real (Portugal), 22-26 September 1999

All papers focused on organic materials (pollen, charcoal, fruits, seeds, phytoliths, starch grains, parenchyma, lipids,...) will be included in the session titled "Modificações paleoecológicas na Península Ibérica: factores naturais e factores humanos" coordinated by Dr. Tina Badal (Universitat de Valencia), Dr. Isabel Figueiral (Université de Montpellier II) and me, Dr. Jordi Juan-Tresserras (Universitat de Barcelona).

More information about the Congress can be found at:
<http://www.utad.pt/~cap>

ANNOUNCEMENT OF THE 69th ANNUAL MEETING OF THE PALAEONTOLOGISCHE GESELLSCHAFT

This meeting will be held at Zurich, Switzerland, from September 20th to 26th 1999.

The first circular and other informations are available on the web site

<http://www.palinst.unizh.ch/Jahrestagung.shtml>

- Wolfgang Schatz, Palaeontological Institute and Museum, University of Zurich, Karl Schmid Str. 4, CH-8006 Zurich, Switzerland, Tel. ++41/(0)1 634 23 22, Fax. ++41/(0)1 634 49 23
<http://www.palinst.unizh.ch>

ANNOUNCEMENT OF THE 27th ANNUAL MEETING OF THE GERMAN WORKING GROUP OF PALAEOBOTANY AND PALYNOLOGY (APP)

This meeting will be held at Tübingen, Germany, from May 12th to 15th 1999. All colleagues and friends of palaeobotany are kindly invited to join.

Sessions are planned for the following topics:

- Morphology of Land Plants (invited speaker: K. J. Niklas, Ithaca, USA)

- Mesozoic and Palaeozoic Terrestrial Ecosystems (invited speaker: H. Kerp, Münster, Germany)

- Vegetation and Climate of the Cenozoic (invited speaker: T. Litt, Bonn, Germany)

- Phytoplankton/Aquatic Primary Productivity (invited speaker: H. Brinkhuis, Utrecht, Netherlands)

- Data Bases in Palaeobotany

- Other papers are also welcome and may be presented in an open session.

Meeting schedule:

May 12th, Wednesday: registration and informal meeting.

May 13th, Thursday: presentation of oral and poster contributions, general meeting of APP members.

May 14th, Friday: presentation of oral and poster contributions. In the evening reception at Hohentübingen castle will be held.

May 15th, Saturday: excursion (Jurassic, Neogene and Quaternary of Southwest Germany).

Meeting locality:

Situated on the banks of the River Neckar, Tübingen is located between the Swabian Alb and the Black Forest (State of Baden-Württemberg, Germany). Founded in 1477, the Eberhard-Karls University has shaped the old university town with flair. With approximately 80 thousand inhabitants and 20 thousand students, Tübingen is a small but lively town, in which traditional and student life melt with each other. The picturesque town centre, characterised by well-preserved half-timbered buildings and street cafes invite a longer stay. In the evening the romantic market place is a favourite meeting point for young and old. The wide spectrum of cultural events includes regular concerts, theatre performances and internationally acclaimed art exhibitions. Tübingen is an important centre for service industries, technological research and business in the Neckar region.

All Information (including registration form) is available through our web site

<http://www.uni-tuebingen.de/geo/gpi/palaeo/app/app.html>

Conference address:

APP 1999

c/o Angela Bruch, Institute and Museum of Geology and Palaeontology, Sigwartstr. 10, D-72076 Tübingen, GERMANY
Phone: ++49-7071/2977547 or 2972489

Fax: ++49-7071/295727

E-mail: angela.bruch@uni-tuebingen.de

Official web-sites:

<http://www.uni-tuebingen.de/geo/gpi/palaeo/start.html>

LINNEAN SOCIETY

As secretary to the Linnean Society's Palynology Special Interest Group (LSPSG), I will be producing a newsletter to distribute to LSPSG members (c. 150 people and increasing). I am presently searching for material that people would like to include in this newsletter. This focus of this information is quite wide - there are sections on forthcoming meetings, conference reports, information on new books, book reviews, profiles of institutions with a strong palynological research leaning, indeed, anything that should be brought to the attention of the palynological community.

If you know of information you would like to see included, and/or would like to know more about the LSPSG (aims and membership details) please contact me.

- Dr. Robert Marchant - Faculty of Biology, Hugo de Vries Laboratorium, Universiteit van Amsterdam, Kruislaan 318, 1098 SM, Amsterdam, The Netherlands, marchant@bio.uva.nl, TEL: (+31) 205 257 950, FAX: (+31) 205 257 662

X-IPC

Liu Gengwu, Secretary-general for IPC-10, announces that the first circular was mailed September, 1998, to palynologists world wide. The meetings will be held June 24-30, 2000, in Nanjing, China.

If you have not yet received the first circular, you may contact Professor Liu at gwliu@jlonline.com

Alternatively, you may consult the IPC-10 web page at <http://members.spree.com/sip/spore/index.htm>

or mail to:

Secretary of the Organizing Committee for 10th International Palynological Conference, Nanjing Institute of Geology and Palaeontology, Academia Sinica, 39 East Beijing Road, Nanjing, 210008, People's Republic of China

AGENDA

Grazie al CAP website

1999

◆ March 1-3 1999. Thirteenth Annual Conference and Workshops on Applied Geologic Remote Sensing
Vancouver, British Columbia, Canada

Details: EI/Geologic Conference, P.O. Box 134008, Ann Arbor, Michigan, MI 48113-4008, USA, Tel: (734) 994-1200 X3234, Fax: (734) 994-5123, E-mail: wallman@erim-int.com

Website: <http://www.erim-int.com/CONF/GRS.html>

◆ March 11-13 1999. The Western Division, Canadian Association of Geographers will be holding Annual Meeting
Kelowna, British Columbia, Canada.

Details at conference website:

<http://www.geog.ouc.bc.ca/wcag/info.html>

Ian Walker will be organizing a special symposium on Late-Quaternary Palaeoecology and Palaeoclimatology. The symposium will focus principally on palaeoecological evidence of climatic changes in two broad areas: 1) western Canada and the northwestern U.S., and/or 2) arctic and alpine treelines. If you are interested in participating, please send Ian a note together with a tentative title, at your earliest convenience. Details: Ian R. Walker, Department of Biology, North Kelowna Campus, Okanagan University College, 3333 College Way, Kelowna, British Columbia, V1V 1V7, Canada, E-mail: iwalker@okanagan.bc.ca

♦♦ March 28 - April 1 1999. European Union of Geosciences Meeting (EUG 10)

Details from conference website:

<http://eost.u-strasbg.fr/EUG/symposia.html>

Includes Symposium B4 Glacial carbon cycle changes

Convenors: Louis Francois (Liege),

E-mail: francois@astro.ulg.ac.be, Jean-Luc Probst (Strasbourg), Hugues Faure (Marseille)

Quaternary climate fluctuations are thought to be closely linked to changes in CO₂ and CH₄ seen in ice core data. The aim of the symposium is to bring together the full range of perspectives on phase relationships between marine and terrestrial palaeoenvironmental data, and the understanding of the physical processes involved in transferring environmental forcing between diverse aspects of the carbon cycle on anthropogenic, glacial interglacial and geological timescales. Contributions relating to ocean processes, sea level rise, terrestrial ecosystem changes, weathering, fluvial and volcanic fluxes, and ice core data are welcome, and perspectives that integrate these different factors into an Earth-systems science view are particularly encouraged. (Co-sponsored by INQUA Carbon Commission, IGCP 404).

♦♦ May 10-14 1999. AQUA Annual Meeting

University of Ottawa, during the 67e Congrès de l'ACFAS. Details: <http://office.geog.uvic.ca/dept/cgrg/bulletin.htm>

♦♦ May 16-20 1999. 2nd International Mammoth Conference (2nd IMC): "200 Years of Mammoth Research"

Rotterdam, The Netherlands. Details: Dr Jeffrey J. Saunders, Chair, Geology Section, Illinois State Museum, Research and Collections Center 1011 East Ash, Springfield, Illinois, IL 62703, USA, Tel: (217) 524-7909 Fax: (217) 785-2857, E-mail: saunders@museum.state.il.us

♦♦ May 17-22 1999. Mesozoic-Cenozoic Dinoflagellate Cyst Course

- Conducted by Graham L. Williams (AGC), Jonathan P. Bujak (LEXIS) & Henk Brinkhuis (LPP, Utrecht University)

- Local coordinator: Prof Dr Rodolfo Coccioni, Dept. Earth Sciences, University of Urbino

- Venue address: Dept. of Geology, University of Urbino, localita Locchichia, I-61029 Urbino, Italy. Tel./fax +39-0722-304220, email: cron@info-net.it (Coccioni)

- Information and Registration: Henk Brinkhuis, Lab. Palaeobot. & Palynol., Utrecht University, Budapestlaan 4, 3584 CD Utrecht, the Netherlands. Tel. +31-30-2537691, Fax. +31-30-2535096, email H.Brinkhuis@bio.uu.nl

A general course on aspects of Mesozoic-Cenozoic dinoflagellate cyst bio- and eco-stratigraphy will be held at the premises of the University of Urbino, Italy, between May 17 through 22, 1999. Information on morphology, taxonomy and stratigraphic ranges of ca. 600 selected species will be provided, besides presentations on applications of quantitative dinocyst analysis in terms of reconstructions of paleoenvironment and paleoclimate. Case histories of reconstructions of e.g. third order sea level cycles and orbital forcing will be presented. Participants will be provided with a detailed manual, besides a CD-ROM with illustrations of key-taxa. A mid-week excursion is planned, with visits to Jurassic, Cretaceous and Tertiary outcrops, incl. e.g. the Cenomanian/Turonian, Cretaceous/Tertiary, Eocene/Oligocene and Oligocene/Miocene boundaries. Fees include the manual, CD-ROM and excursion, and are set at: industrial staff US\$ 550.-, academic staff US\$ 350.-, and PhD/MSc students US\$ 200.-

Lodging can be arranged in a variety of hotels in the famous medieval city of Urbino, and if budget requires, on the nearby Urbino Campsite for students. Associated lodging and travel costs

are at participant's expense. More information can be obtained via prof. Coccioni.

A few places are still open. If interested, please send queries, and/or your personal information, incl. company or academic institution to Henk Brinkhuis.

Registration and money-transfer deadline is set at April 1, 1999. Money should be transferred to the account of the LPP Foundation: ABN/AMRO bank 46.50.04.512, indicating Urbino Dinocourse 1999. LPP's VAT/BTW no. is NL 89.58.427.B.01 If so wished for, fees can also be paid on site, but registration should be definite..

Provisional Program:

Daily program: Morning sessions: 09.00-12.30hrs (with coffee/tea break), Afternoon sessions: 15.30-19.00 hrs (with coffee/tea break).

Monday May 17

Morning:

-Introduction to the course

-Morphogroups-1 (Gonyaulacoids; conceptual)

Afternoon:

-Morphogroups-2 (Peridinioids; conceptual)

Tuesday May 18

Morning:

- Brief intro chronostratigraphic concepts

- Stratigraphy-1 Triassic/Jurassic

Afternoon:

- Stratigraphy-2 Lower Cretaceous

- (Brief) Intro Excursion

Wednesday May 19

Excursion: Contessa Valley, Massignano E/O boundary section

Leaders: R. Coccioni, S. Galeotti & H. Brinkhuis

Thursday May 20

Morning:

-Stratigraphy-3 Upper Cretaceous/Paleogene

Afternoon:

-Stratigraphy-4 Paleogene/Neogene

Friday May 21

Morning:

-Paleoecology & Applications-1: Introduction & case-studies

Afternoon:

-Paleoecology & Applications-2: case studies

Saturday May 22

Morning:

-Paleoecology & Applications-3: case studies

Afternoon:

-Paleoecology & Applications-4: case studies

♦♦ May 25-29 1999. Second International Limno-Geology Conference

Brest, France. Details: Jean-Jacques Tiercelin, Directeur de Recherche au CNRS, UMR 6538 "Domaines Oceaniques", CNRS URA 1278, Groupe Riftogenese Est-Afrique, Universite de Bretagne Occidentale, Departement des Sciences de la Terre, 6, Av Le Gorgeu, 29285 Brest - France, Tel: 33 (0)2 98 49 87 59, E-mail: tiercelin@univ-brest.fr, or conference e-mail address: lenn@univ-brest.fr

Website: <http://www.sdt.univ-brest.fr/~lenn>

♦♦ May 26-28 1999. GAC/MAC Meeting

Sudbury, Ontario, Canada. Details: P. Copper, Department of Earth Sciences, Laurentian University, Sudbury, Ontario, P3E 2C6, Canada. Tel: (705) 6675-1151, X2267, Fax: (705) 675-4898, E-mail: gacmac99@nickel.laurentian.ca

Website: <http://www.laurentian.ca/www/geology/gacmac99.htm>

♦♦ June 1-5 1999. Canadian Association of Geographers (CAG) Annual General Meeting

Lethbridge, Alberta, Canada. Details: Dr. Robert Rogerson, Local Arrangements Committee Chair, CAG'99, Department of Geography, University of Lethbridge, 4401 University Drive, Lethbridge, Alberta, T1K 3M4, Tel: (403) 329-5117, E-mail: rogerson@hg.uleth.ca

Conference e-mail: cag99@uleth.ca

Website: <http://home.uleth.ca/~cag99>

♦♦ June 14-18 1999. Canadian Society of Petroleum Geologists (CSPG) and Petroleum Society Joint Convention

Theme: "Digging Deeper: Finding a Better Bottom Line". Calgary, Alberta. Details: John L. Chipperfield, Tel: (403) 294-5540, Fax: (403) 294-5580, E-mail: john.chipperfield@sproule.com Website: <http://www.cspg.org/index.html>

♦♦ August 1-7 1999. International Botanical Congress
St Louis, Missouri, USA.

Website: <http://www.ibt99.org/>

♦♦ August 3-11 1999. XV INQUA Congress.

Durban, South Africa. Theme: "The Environmental Background to Hominid Evolution in Africa". XV INQUA Congress details: Dr. D. M. Avery, Secretary-General, South African Museum, P.O. Box 61, Cape Town 8000, South Africa. Tel: +27-21-243330, Fax: +27-21-246716, E-mail: mavery@samuseum.ca.za

See also <http://inqua.nlh.no/congress/congress.html>

Congress may include the following proposed sessions:

Commission on Palaeoclimate: Working group on Milankovitch and Plio-Pleistocene vegetation succession from 2.6 to 0.9 Ma

The INQUA working group of the Palaeoclimate Commission on "Vegetation successions at the scale of the Milankovitch cycles in between 2.6 and 0.9 Ma" will be represented by a morning symposium with invited speakers and an afternoon poster session on Long Pleistocene Records Friday 6th August 99, Symposium 6.4. Preference will be given to papers and posters with new high resolution data (at the Milankovitch and sub-Milankovitch scale), revising old interpretations and reviewing the recent progresses made in cyclostratigraphy. It is certainly not limited to palynology provided that detailed palaeoenvironmental data from continuous sections (marine or continental) are presented. For more information on this session, write to us: Dr Suzanne A. G. Leroy, Centre for Palaeoecology, School of Geosciences, Queen's University Belfast, Belfast BT7 1NN, N. Ireland. Ph: +44-1232-335 143 and 273 978, Fax: +44-1232-321 280, E-mail: s.leroy@qub.ac.uk

Website: <http://www.qub.ac.uk/geosci/admin/staff/leroy.html>. See also Leroy, S., and Ravazzi C., 1996 - New working group within the INQUA commission on palaeoclimate: Searching for vegetation successions at the scale of Milankovitch cycles in between 2.6 to 0.9 Ma. *Canadian Association of Palynologists Newsletter* 19(1):26-30 and look at the commission of palaeoclimate website: <http://inqua.nlh.no/comm/palclim.html>

Quaternary and Holocene sedimentary records in Central Africa and their palaeoenvironmental interpretation
For approximately the last 20 years most of the data for Quaternary palaeoclimatic and palaeoenvironmental reconstructions for terrestrial sites had been worked out in an indirect way by studying marine cores and cores from northern or southern hemisphere ice deposits. Terrestrial core sites inside the sediment and soil cover of the inner tropics as for example in Central Africa had been mainly believed to contain too less information about our recent past. However, newer research conceptions have now significantly changed by the introduction of so-called "terrestrial transects" which are looking for direct site information in the lower latitudes. Studies with a higher precision of a range of stable isotopes as $^{13}C/^{12}C$, $^{14}CAMS$, ^{10}Be and the progress in palynology and palaeobotany (analyses of phytoliths) have shown that there is evidence for quaternary palaeoenvironmental changes inside the soils and sediments of the inner tropics. The workshop/paper session is focussing especially on recent and former environmental changes in former Zaire (D. R. Congo), Central African Republic, Ruanda, Burundi, Uganda, Cameroon, R. P. Congo (Brazzaville) and Angola up to 40,000 yr B.P. (transition to and back from the Last Glacial Maximum).

It is intended within this INQUA poster and workshop session to bring together new findings from scientists of different nations and

to include the more or less isolated smaller work programmes to get a better and clear synoptic view of the climatic and environmental conditions within the Congo basin and neighbouring regions before and after the LGM (critical discussion of "core-area" conceptions and the evidence for or against it from the geological, geomorphological, pedological and biological point of view). Paper and poster proposals and further information from: Dr Juergen Runge, Physical Geography, University of Paderborn, Germany, E-mail: arung1@hrz.uni-paderborn.de, and Dr Daniel Olago, IGBP-START Office, Nairobi, Kenya, E-mail: pagesnbo@form-net.com

Carbon Cycle Changes: Peak Glacial Versus Interglacial Conditions

Inqua Commission On Carbon/IGCP-404, Tuesday 10th August 1999

This Symposium focuses on Global Carbon Cycle Changes from glacial maximum to peak interglacial, and vice-versa. For each of the main components of the carbon cycle a "state of the art" picture of the main reservoirs and fluxes of carbon in the biosphere will be presented, and case studies in key areas will be proposed on what we know about changes in the carbon cycle which occurred between the LGM and previous interglacial at 125 or the present interglacial at 8 Ky.

Various speakers have already been booked (including reports from the Paleocarbon Commission working groups), but more speakers on any of these topics will be welcome. There are currently 12 presentations for the Carbon Symposium, taking one full morning. Please e-mail Jonathan Adams (jonathan@elvis.esd.ornl.gov) or Hugues Faure (faure@luminy.univ-mrs.fr) if you are interested in speaking at this symposium.

Modern Pollen Records And Their Use In Interpreting Past Tree-Lines And Past Climate

In the INQUA circular this is designated for Tuesday 10th August and given the title "Calibration of pollen to climate above the treeline". In some documentation the alternative title of "The implication of modern pollen influx values for reconstructing Quaternary palaeoclimates" can be found. These are intended to be one and the same thing.

The Symposium co-conveners Sheila Hicks (Oulu, Finland, sheila.hicks@oulu.fi) and Heather Tinsley (Bristol, UK R.C.Tinsley@Bristol.ac.uk) welcome contributions on either theme, particularly any which are able to demonstrate the SIGNIFICANCE of pollen influx (pollen accumulation rates) in investigations involving changing tree-lines and/or changing climate during the Quaternary. The symposium will last for 3 hours and there is space for twelve 15 min presentations. Through these we would like to cover as many different parts of the world as possible. If you are anticipating attending the INQUA congress and have results on this theme which you would like to present do please contact either of the conveners directly. We particularly hope that members of the INQUA Work Group 'European Pollen Monitoring Programme' will also take advantage of this opportunity to present their results to a wider public.

♦♦ August 17-21 1999. 9th Canadian Paleontology Conference
Calgary, Alberta. In association with the International Conference on the Carboniferous and Permian systems and the Pander Society. Details: Charles Henderson, Department of Geology and Geophysics, University of Calgary, Calgary, Alberta, T2N 1N4, Canada. Tel: (403) 220-6170, E-mail: henderson@geo.ucalgary.ca

♦♦ August 17-22 1999. Geological Society of America Penrose Conference: The Marine Eocene-Oligocene Transition
Olympia, Washington, U.S.A. Details: D. Prothero, Department of Geology, Occidental College, Los Angeles, California, CA 90041,

U.S.A. Tel: (213) 259-2557, Fax: (213) 259-2704, Email: prothero@oxy.edu

◆ August 20-29 1999. CANQUA Meeting

Calgary, Alberta, Canada. Technical and poster sessions August 23-26, Field trips August 20-22, and August 27-29.

Details: Dr Derald G. Smith, CANQUA Conference Chair, Department of Geography, University of Calgary, Calgary, Alberta, T2N 1N4, Canada, Tel: (403) 220-6191, Fax: (403) 282-6561, E-mail: dgsmith@acs.ucalgary.ca

Conference website: <http://pc56.ss.ucalgary.ca/>

◆ September 6-10 1999. 9th International Conference on Luminescence and Electron Spin Resonance Dating

Rome, Italy. Details: Scientific Secretariat, Dr. Emanuela Sibilja, Dipartimento di Scienza dei Materiali, Milano, E-mail: sibilja@mater.unimi.it or Organizing Secretariat, PR & Co., Roma, b.fersini@flashnet.it

Web site: <http://www.mater.unimi.it/LED99/>

◆ September 13-17. 8th International Conference On Accelerator Mass Spectrometry

VERA Laboratory, Universitaet Wien, Vienna, Austria. Details: Conference Secretary Gabriele Kratschmann, Tel. +43 1 40480-700, Fax +43 1 4076200, E-mail: gabikra@pap.univie.ac.at

September 26-30 1999. The Society for Organic Petrology (TSOP), 16th Annual Meeting

Salt Lake City (Snowbird Resort), Utah, USA. Details: Jeff Quick, Utah Geological Survey, 1594 West North Temple, Suite 3110, Salt Lake City, Utah 84114-6100 USA, Tel: (801) 537-3372, Fax: (801) 537-3400, E-mail: nrugs.jquick@state.ut.us

Website: <http://www.tsop.org>

◆ October 25-28 1999. Geological Society of America, Annual Meeting.

Denver, Colorado, U.S.A. Theme: "Crossing Divides". Details: General Co-chairs - Mary I. Kraus (Tel: (303) 492-7251, Fax: (303) 492-2606, E-mail: kraus@spot.colorado.edu) and David Budd (Tel: (303) 492-3988, Fax: (303) 492-2606, E-mail: budd@spot.colorado.edu), Department of Geosciences, Campus Box 250, University of Colorado, Boulder, Colorado, CO 80309-0250, USA

◆ November 11-14 1999. 32nd Annual Chacmool Conference.

Calgary, Alberta, Canada. Theme: "Indigenous People and Archaeology: Honouring the Past, Discussing the Present, Building for the Future". Details: 1999 Chacmool Conference, Department of Archaeology, University of Calgary, Calgary, Alberta, T2N 1N4, Canada. Tel: (403) 220-7120, E-mail: chacmool@ucalgary.ca

Website: <http://www.ucalgary.ca/UofC/faculties/SS/ARKY/chacmool.html>

2000
Date: TBA. Canadian Paleontology Conference
Antigonish, Nova Scotia, Canada

◆ May 29 - June 2 2000. GEOCANADA 2000

Joint meeting of Canada's major geoscience societies, including the Geological Association of Canada (GAC), the Mineralogical Association of Canada (MAC), the Canadian Society of Petroleum Geologists (CSPG), the Canadian Society of Exploration Geophysicists (CSEG), the Canadian Well Logging Society (COOLS) and others. University of Calgary, Alberta. Details: Dr Grant Mossop, Geological Survey of Canada, 3303-33rd Street N.W., Calgary, Alberta, T2L 2A7, Canada. Tel: (403) 292-7049, Fax: (403) 292-5377, E-mail: mossop@gsc.nrcan.gc.ca

◆ May 29 - June 3 2000. Canadian Association of Geographers (CAG) Annual Meeting

Brock University, St Catharines, Ontario. Details: Hugh Gayler (hjayler@spartan.ac.brocku.ca)

◆ June 24-30 2000. 10th International Palynological Congress (IPC)

Nanjing, China. Details: Secretary of the Organizing Committee for 10th International Palynological Conference, Nanjing Institute of Geology and Palaeontology, Academia Sinica, 39 East Beijing Road, Nanjing, 210008, People's Republic of China

Electronic version of first circular, with registration form, available at: <http://members.spree.com/sip/spore/index.htm>

Information on International Palynological Congresses is available at <http://geo.arizona.edu/palynology/ifps.html>

◆ July 30 - August 3 2000. Sixth Quadrennial Conference of the International Organization of Paleobotany (IOPC IV - 2000)

Qinhuangdao, Hebei, China. Details: Prof. Lujun Liu, Secretary-General of IOPC-VI Organising Committee, Nanjing Institute of Geology and Palaeontology, Academia Sinica, 39 East Beijing Road, Nanjing 210008, PR China, Tel.: +86-25-6637 208, Fax: +86-25-3357 026 E-mail: paleobot@public1.ptt.js.cn

◆ August 6-17 2000. 31st International Geological Congress

Rio de Janeiro, Brazil. Theme: "Geology and Sustainable Development: Challenges for the Third Millennium". Details: Secretariat Bureau, Av. Pasteur, 404 - Casa Brazil 2000 - Urca, Rio de Janeiro - RJ - Brazil, CEP 22.290-240. Tel: 55 21 295 5847, Fax: 55 21 295 8094, E-mail: 31igc@31igc.org

Website: <http://www.31igc.org>

◆ November 13-16 2000. Geological Society of America, Annual Meeting.

Reno, Nevada, U.S.A. Conference theme: "Crossing Divides". Details: GSA HQ, Box 9140, 3300 Penrose Place, Boulder, Colorado 80301, U.S.A. Tel: (303) 447-2020, X133, E-mail: meetings@geosociety.org

2001
Date: TBA. GAC Meeting

St John's

◆ Date: TBA. CANQUA Meeting

Whitehorse, Yukon Territory, Canada (proposed).

◆ May 29 - June 2 2001. Canadian Association of Geographers (CAG) Annual Meeting

McGill University, Concordia University and Université de Montréal, Montreal, Canada. A joint event arranged by the three Montreal universities in celebration of the 50th anniversary of the founding of the CAG. Details:

Tim Moore (moore@felix.geog.mcgill.ca),

Patricia Thornton (thorpat@vax2.concordia.ca),

André Roy (royandre@ere.umontreal.ca)

◆ November 5-8 2001. Geological Society of America, Annual Meeting.

Boston, Massachusetts, U.S.A. Details: GSA HQ, Box 9140, 3300 Penrose Place, Boulder, Colorado 80301, U.S.A. Tel: (303) 447-2020, X133, E-mail: meetings@geosociety.org

2002
Date: TBA. GAC Meeting

Saskatoon, Saskatchewan

October 28-31 2002. Geological Society of America, Annual Meeting.

Denver, Colorado, U.S.A. Details: GSA HQ, Box 9140, 3300 Penrose Place, Boulder, Colorado 80301, U.S.A. Tel: (303) 447-2020, X133, E-mail: meetings@geosociety.org

◆ Date: TBA. CANQUA Meeting

Halifax, Nova Scotia, Canada (proposed).

◆ November 2-5 2003. Geological Society of America, Annual Meeting.

Seattle, Washington, U.S.A. Details: GSA HQ, Box 9140, 3300 Penrose Place, Boulder, Colorado 80301, U.S.A. Tel: (303) 447-2020, X133, E-mail: meetings@geosociety.org

MISCELLANEOUS ANNOUNCEMENTS

In addition to the article of "The Lab goes Milankovitch" by M.L. van Hove (august 1998, volume 31, nr 3) the following two new references:

- N. van Vugt, J. Steenbrink, C.G. Langereis, F.J. Hilgen, J.E. Meulenkamp, "Magnetostratigraphy-based astronomical tuning of the early Pliocene lacustrine sediments of Ptolemais (NW Greece) and bed-to-bed correlation with the marine record"; *Earth And Planetary Science Letters* (164)3-4 (1998) pp. 535-551

- Steenbrink, J. et al (1999), Sedimentary cycles and volcanic ash beds in the lower Pliocene lacustrine succession of Ptolemais (NW Greece): Discrepancy between $^{40}\text{Ar}/^{39}\text{Ar}$ and astronomical ages, *Palaeogeography, Palaeoclimatology, Palaeoecology*, in press.

M.L. van Hove, Utrecht University, LPP, Budapestlaan 4, 3584 CD Utrecht, NL
tel: 31.30.2539318, email: M.L.vanHove@bio.uu.nl
homepage: <http://www.bio.uu.nl/~palaeo/Personnel/Maroesvh.htm>

Prof. Miklos Kedves, Head of The Cell Biological and Evolutionary Micropalaeontological Laboratory of The Department of Botany of the J.A. University, has announced a Commemorative Medal and Diploma to be given to Palynologists. This year the recipients are John Rowley of Stockholm University and Siwert Nilsson of Palynological Laboratory, Stockholm. Gamal El-Ghazaly Director, Palynological Laboratory, Swedish Museum of Natural History, SE-104 05 Stockholm; Sweden
<http://www.nrm.se/pl/welcome.html.en>

A correction to page 13 of the AASP Newsletter 31-4 of December 1998: The photo of Helen Tappan attributed to Reed Wicander was taken by Satish Srivastava (Reed wrote the article, Satish took the picture).

The research project 'automatic pollen analysis' by the German weather service (DWD) and the Swiss Meteorological Institute (SMI) is now online on the Web.

<http://www.informatik.uni-freiburg.de/~ronneber/pollen.html>

Those to whom it may be of interest to add this link to palaeontological pages.

The palaeontological journal *Palaeontographia Italica* is still alive after 114 years! The volume 86 (1999) is in preparation.

Unfortunately, last year (1998) I had no time for updating our web page, since I was organizing the CIMP (Commission Internationale de la Microflore Paléozoïque) Symposium Pisa '98. Now I'm editing (with Geoff Playford, Brisbane) the Proceeding Volume ("Palaeozoic Palynology") which will be issued by the Italian Palaeontological Soc., as a special volume of the *Bollettino della Soc. Paleontol. Ital.* Nevertheless, I updated (today) the web pages of *Palaeontographia Italica*. The addresses of each page of our site follow

Palaeontographia Italica Home page (in English)

<http://www.dst.unipi.it/dst/pal/index.html>

History of *Palaeontographia Italica* (in Italian)

<http://www.dst.unipi.it/dst/pal/storia.html>

Index 1985-1998

http://www.dst.unipi.it/dst/pal/indice_86-96.html

General Index 1895-1998

http://www.dst.unipi.it/dst/pal/indice_gen.html

Abstracts 1995-1998 (in English)

<http://www.dst.unipi.it/dst/pal/abstract.html>

Instructions for the Authors (in English)

<http://www.dst.unipi.it/dst/pal/istruzioni.html>

- prof. Marco Tongiorgi -

Università di Pisa, Via S. Maria 53 - 56126 PISA - Italia

tel. +39 50 847268 - Fax +39 50 500932

E-Mail tong@dst.unipi.it

Address and connections:

Glenn Fechner

Freie Universität Berlin, Institut für Paläontologie, Malteserstrasse 74-100, Haus D, D-12249 Berlin, Germany

Tel 030.779.22.95 - Fax 030.776.20.70

I am looking for an English translation of the following paper:

V. I. Ilkina (or Ilyina). 1985. Jurassic palynology of Siberia. Moscow Academy of Sciences, NAUK (Siberian Branch), Transaction no. 638, 232 pp., 25 pls.. If anyone has an English translation of this paper please contact me.

- Aural T. Cross, Department of Geology, Michigan State University, East Lansing, MI, 48824, USA; Phone 517-355-4630, email cross1@pilot.msu.edu

Monsieur Eugène Boltenhagen passed away on last Wednesday, February 10th, aged 92, in his home, in Paris. As you know, he was a prominent petroleum geologist and palynologist. In the fifties, sixties and seventies he mapped Gabon (during long and harsh field work in remote swampy forests) and then became a pioneer in the Cretaceous biostratigraphy of Western Africa, studying dinocysts, spores and pollen grains. He also dealt with other countries, as Congo, Cameroon and Madagascar. When retired, in the eighties and even up to the beginning of the nineties (while he became very old) Monsieur Boltenhagen still worked every day at the microscope, his sight being yet very accurate and his remembrance of African geology still remaining intact. He then continued publishing his renowned papers and taught in the Muséum national d'Histoire naturelle, where I had the honour and invaluable opportunity to be his student along several years. The death of Dr Boltenhagen is a great loss for the whole palynological community and especially for me, as I knew him very well and admired his rigorous and opinionative work.

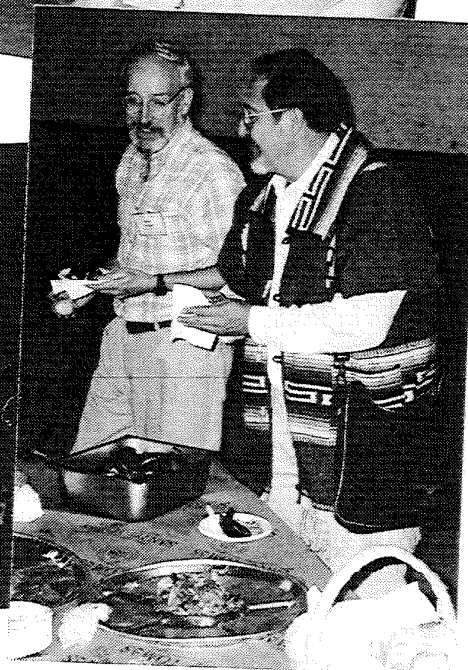
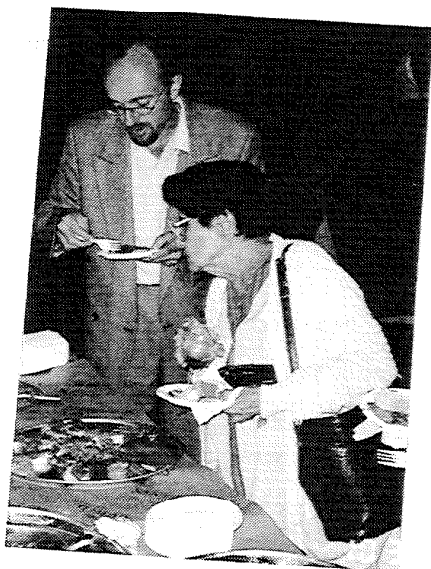
Jean Dejax, Muséum national d'Histoire naturelle, Laboratoire de Paléontologie, 8 rue BUFFON, 75005 PARIS, FRANCE

Téléphone : (33) 01 40 79 34 48, Télécopie (Fax) : (33) 01 40 79 35 80, dejax@mnhn.fr

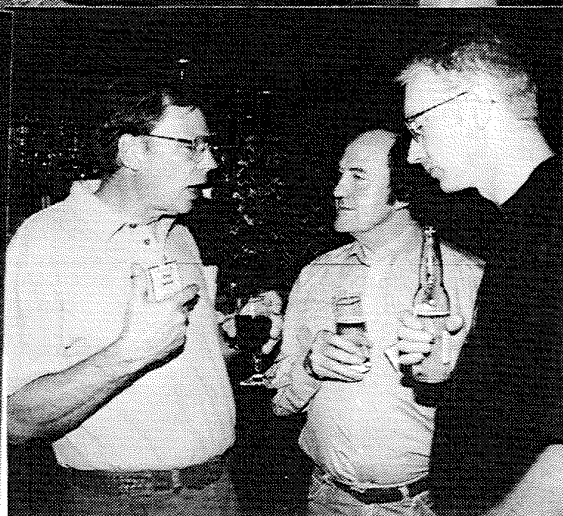
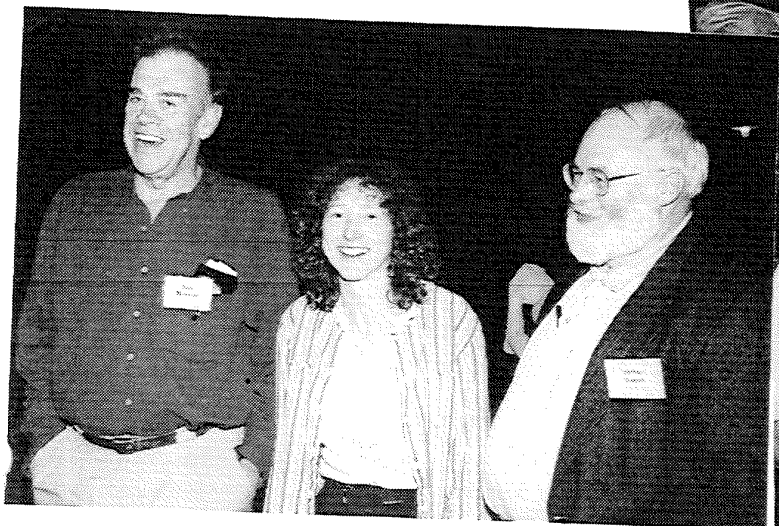
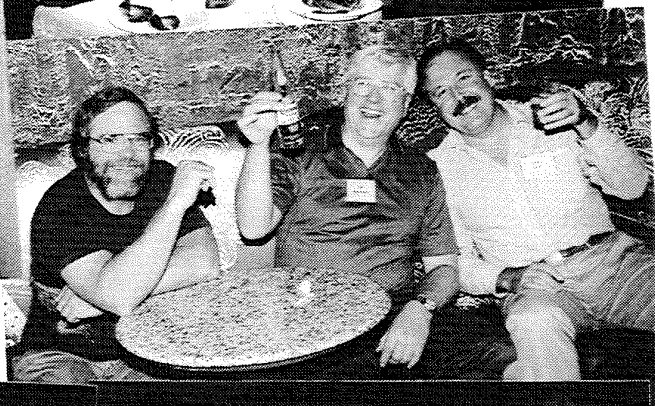
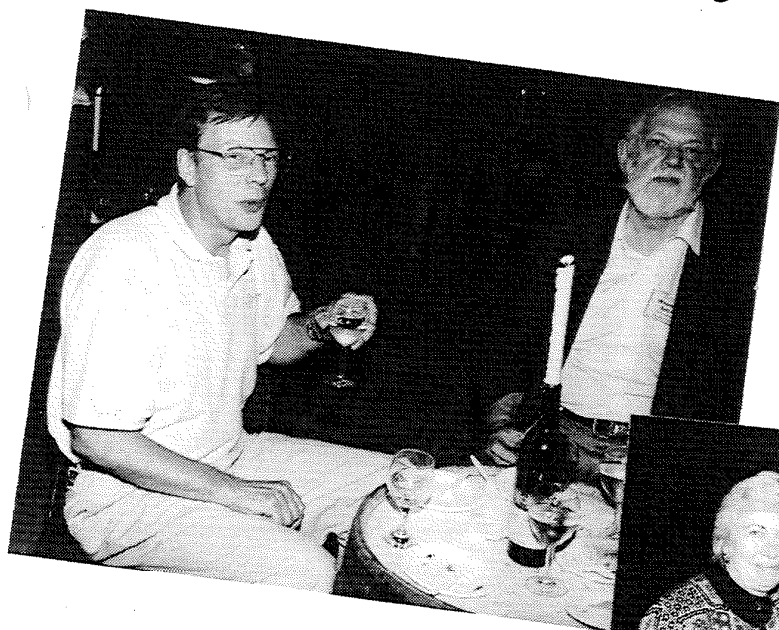
<http://www.mnhn.fr>



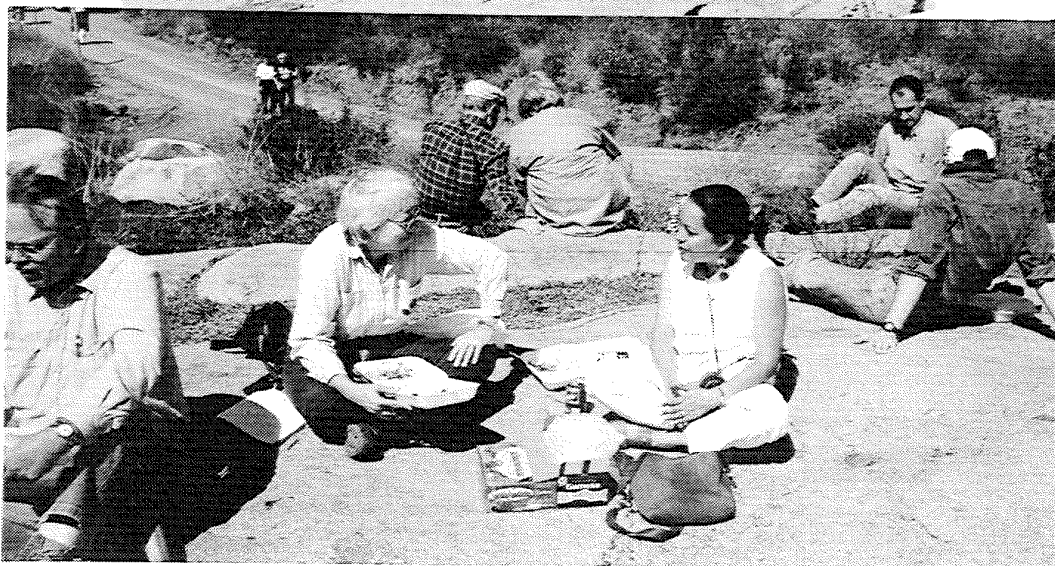
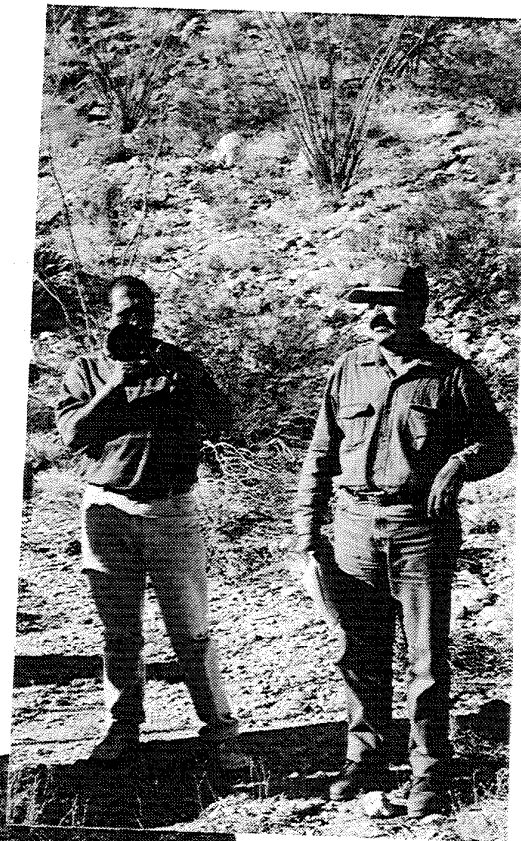
Photos from the AASP Meeting in Ensenada, October, 1998



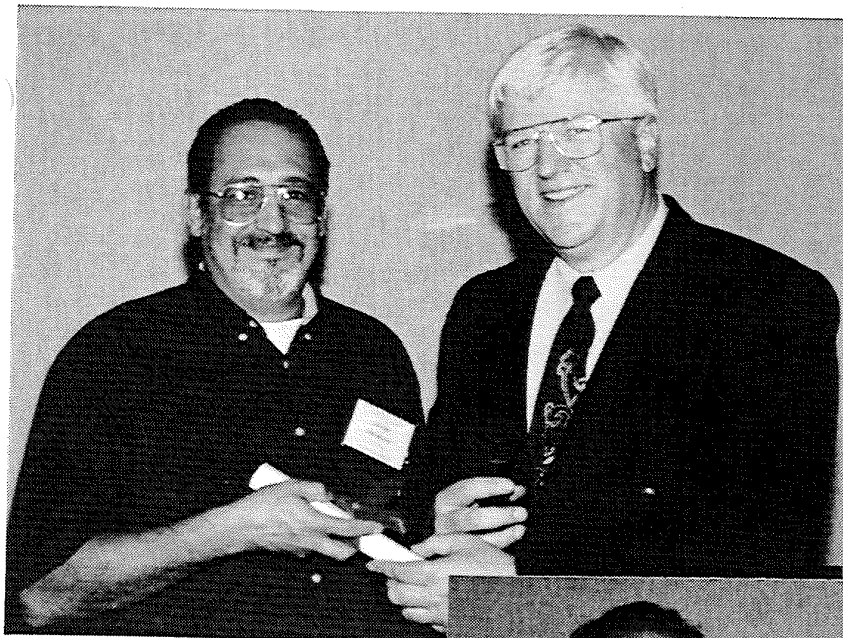
Photos from the AASP Meeting in Ensenada, October, 1998



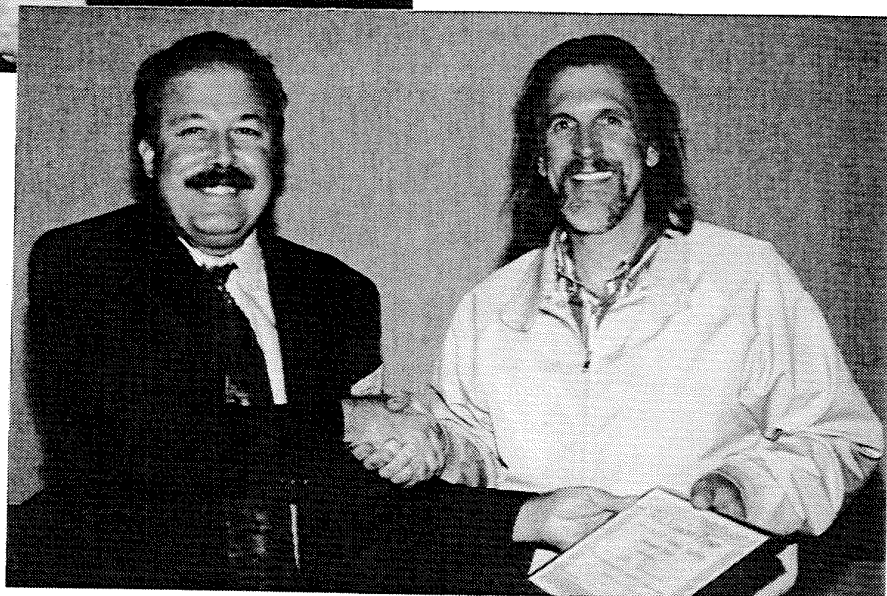
Photos from the AASP Meeting in Ensenada, October, 1998



Photos from the AASP Meeting in Ensenada, October, 1998



President Rolf Mathewes (right) presenting Javier Helenes with a token of appreciation for all his work organizing the meeting.



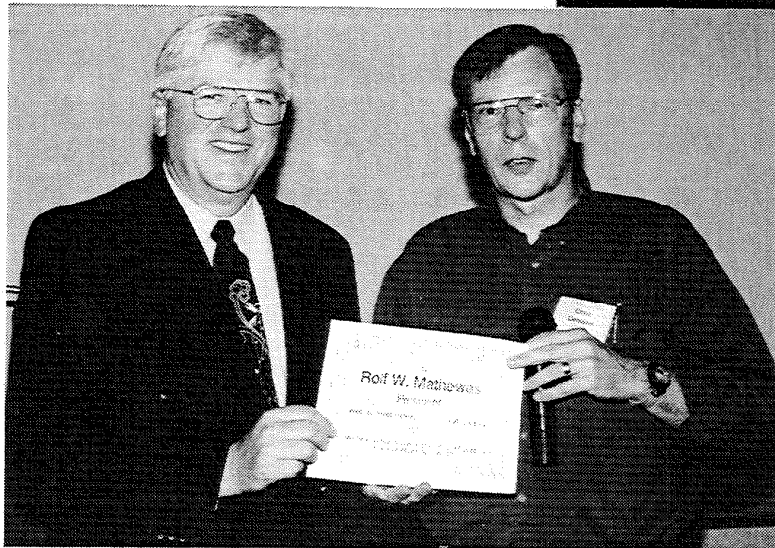
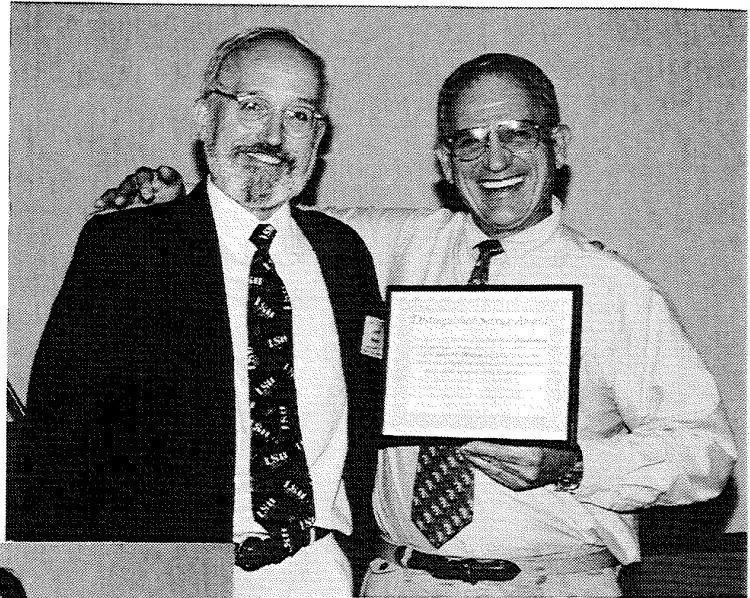
Owen Davis (left) presenting Eugene Wahl with the Best Student Paper Award. The L. R. Wilson Award, includes a monetary prize plus a two-year membership in AASP.



Owen Davis (left) presenting David Pocknall with the Best Poster Award.

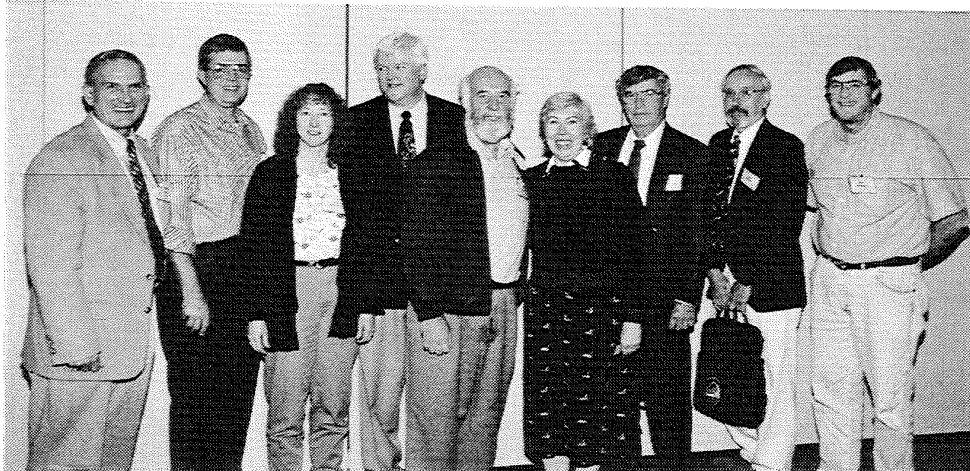
Photos from the AASP Meeting in Ensenada, October, 1998

John Wrenn (left) receiving the AASP Distinguished Service Award from Vaughn Bryant.



Rolf Mathewes (left), outgoing President, receives a certificate of appreciation from incoming President, Chris Denison.

Past Presidents in attendance at the Ensenada meeting. Left to right, they are: Vaughn Bryant, Bob Clarke, Lucy Edwards, Rolf Mathewes, Geoff Norris, Barbara Whitney, Harry Leffingwell, John Wrenn, and Don Benson. We won't list the years they served, but there's a couple from the early 70s!



American Association of Stratigraphic Palynologists
Student Scholarship

The American Association of Stratigraphic Palynologists is pleased to announce its program of Student Scholarships to support studies in palynology. Currently, two scholarships for \$1000 (US) each may be awarded annually, and a third award of \$1000 may be given through the Lucy Cranwell Fund. Ordinarily, the scholarships will be awarded to beginning graduate students, but advanced undergraduate students may also apply.

Basis of Awards - The qualification 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 weighed in selection of award winners.

To Apply - Part A of this form is to be filled out by the student and Part B by the student's faculty supervisor. The faculty supervisor will send both forms together to the address given at the end of Part B. A total of four pages, including forms A and B will be accepted. Additional material will not be considered. Receipt of the packet will be acknowledged to the student's email address. Scholarship applications must be postmarked no later than **March 31, 1999** and awards will be announced by May 3, 1999.

Part A - Application for A.A.S.P. Student Scholarship

Student's name: _____

Address: _____

Email address: _____

Three most recent universities or other institutions attended (earliest listed first). Include the institution that you will be attending during tenure of the scholarship, the degree you will be seeking, and the anticipated completion date:

Institution	Degree	Beginning Date	Completion Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Current Academic Supervisor: _____

Background in palynology: Palynology classes, seminars and short-courses:*

Date	Instructor	Title
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Palynological experience: Research and publications*

Date	# Samples Counted	Citation or description
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Awards, honors and funding (include Institutional support):*

Date	Amount	Agency (source of award)	Title
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Title of proposed investigation: _____

*Use additional sheets as needed, but a total of only 4 sheets, including forms A and B will be accepted.

(OVER)

Summary of the investigation (250 words or less); include objectives, why you selected this problem, its significance, and how you plan to approach and carry out the investigation.

I agree that the recommendation I am requesting from my faculty supervisor will be held in confidence by officials of my institution, and I hereby waive any rights I may have to examine it.

yes _____ no _____

Date: _____

Applicant's signature _____

Part B - Endorsement by Faculty Supervisor

1. Ranking of the applicant versus other students you have known who are pursuing the same degree:
lower 50% _____ upper 50% _____ upper 25% _____ upper 10% _____ upper 5% _____
2. Did the idea for the project originate from student? yes _____ no _____
3. Can you verify the student's statements as to other awards, honors, or financial aid received or applied for? yes _____ no _____

Comments: _____

4. Please provide a brief summary (100 words or less on an attached sheet) or your assessment of the applicant's project and his or her potential to attain the objectives. Among other traits, please comment on the student's native intellectual ability, ability to express him (her)self, perseverance, imagination and the probable creativity, and the value of the project.

Faculty supervisor's name _____

Position: _____

Institution: _____

Address: _____

Signature: _____

Date: _____

Please return Parts A and B to: Owen K. Davis
Department of Geosciences
University of Arizona
Tucson, AZ 85721-0077
U.S.A.

Phone 520 621 7953
FAX 520 621 2672
palynolo@geo.arizona.edu
<http://www.geo.arizona.edu/palynology>
<http://www.geo.arizona.edu/Antevs/>

A total of only 4 sheets, including forms A and B will be accepted

(Form B)

UPDATED LIST OF AASP PUBLICATIONS

(many with reduced prices)

The 3-vol. *Palynology: Principles and Applications* is SOLD OUT

Orders for publications should be sent to: Vaughn M. Bryant, Jr., Secretary AASP Foundation, c/o Palynology Laboratory, Texas A&M University, College Station, Texas 77843-4352. (E-mail: vbryant@tamu.edu). Payment should be in U.S. currency and checks made payable to: AASP Foundation. Payment may be made with VISA, AMERICAN EXPRESS or MASTERCARD.

AASP FOUNDATION BOOKS

Sporopollenin Dinoflagellate Cysts — Their Morphology and Interpretation. WILLIAM R. EVITT. 349 pages, 90+ text figures, 1985. ISBN 0-931871-00-X. Hard cover only. (reduced price \$10.00).

Pollen records of Late-Quaternary North American Sediments. Edited by VAUGHN M. BRYANT, JR., and RICHARD G. HOLLOWAY. Fifteen articles, 440 pages, 1985. ISBN 0-931871-01-8. Hard cover only. (reduced price \$10.00).

Neogene and Quaternary Dinoflagellate Cysts and Acritarchs. Edited by MARTIN J. HEAD and JOHN H. WRENN. Eighteen articles, 448 pages, 72 photographic plates, 1992, ISBN 0-931871-02-6. Hard cover only. (reduced price \$10.00).

Palynology: Principles and Applications. Edited by JAN JANSONIUS and D. COLIN MCGREGOR. Three-volume set, 1286 pages + index, 125 photographic plates, 14 in color, 1996, ISBN 0-931871-03-4. Hard cover. (OUT OF PRINT... A FEW INDIVIDUAL COPIES OF VOLUME 3 REMAIN. Price for volume 3 only is \$40 post paid).

GEOSCIENCE AND MAN

Proceedings from the first seven Annual Meetings of the Association were published by the School of Geoscience, Louisiana State University, in their Geoscience and Man series. Only the first three proceedings volumes are still available. Proceedings volumes for the fourth, fifth, sixth, and seventh annual meetings are OUT OF PRINT.

1. Proceedings First Annual Meeting — Baton Rouge (October, 1968). Issued October, 1970. Eight articles, 18 photographic plates, 152 pages. (\$5.00).
2. Proceedings Second Annual Meeting — Penn State (October, 1969). Issued October, 1971. Nine articles, 12 photographic plates, 104 pages. (\$5.00).
3. Proceedings Third Annual Meeting — Toronto (October, 1970). Issued October, 1972. Twelve articles, 16 photographic plates, 142 pages. (\$5.00).

PALYNOLOGY (ISSN 0191-6122)

Volume 1. Including the Proceedings of the Eighth Annual Meeting — Houston, Texas (October, 1975). Fourteen articles, 188 pages, 20 photographic plates, one in color. 1977. (reduced price \$6.00).

Volume 2. Including the Proceedings of the Ninth Annual Meeting — Halifax, Nova Scotia (October, 1976). Sixteen articles, 242 pages, 23 photographic plates. 1978. (reduced price \$6.00).

Palynology volumes 3 through 6 are OUT OF PRINT.

Volume 7. Including the Proceedings of the Fifteenth Annual Meeting — Dublin, Ireland (October, 1982). Fourteen articles, 265 pages, 34 photographic plates. 1983. (reduced price \$9.00).

Volume 8. Including the Proceedings of the Sixteenth Annual Meeting — San Francisco (October, 1983). Twelve articles, 268 pages, 50 photographic plates. 1984. (reduced price \$9.00).

Volume 9. Including the Proceedings of the Seventeenth Annual Meeting — Arlington, Virginia (October, 1984). Twelve articles, 268 pages, 46 photographic plates. 1985. (reduced price \$9.00).

Volume 10. Including the Proceedings of the Eighteenth Annual Meeting — El Paso, Texas (October, 1985). Twelve articles, 268 pages, 48 photographic plates. 1986. (reduced price \$9.00).

Volume 11. Including the Proceedings of the Nineteenth Annual Meeting — New York, New York (October, 1986). Fourteen articles, 268 pages, 43 photographic plates. 1987. (reduced price \$9.00).

Volume 12. Including the Proceedings of the Twentieth Annual Meeting — Halifax, Nova Scotia (October, 1987). Fourteen articles, 260 pages, 47 photographic plates. 1988. (reduced price \$9.00).

Volume 13. Including the Proceedings of the Twenty-First Annual Meeting — Houston, Texas (November, 1988). Eleven articles, 299 pages, 57 photographic plates. 1989. (reduced price \$9.00).

- Volume 14. Including the Proceedings of the Twenty-Second Annual Meeting – Tulsa, Oklahoma (October, 1989). Fourteen articles, 230 pages, 50 photographic plates. 1990. (reduced price \$12.00).
- Volume 15. Including the Proceedings of the Twenty-Third Annual Meeting – Banff, Alberta (October, 1990). Twelve articles, 267 pages, 36 photographic plates. 1991. (reduced price \$12.00).
- Volume 16. Including the Proceedings of the Twenty-Fourth Annual Meeting – San Diego, California (October, 1991). Ten articles, 248 pages, 30 photographic plates. 1992. (reduced price \$12.00).
- Volume 17. Fourteen articles, 274 pages, 59 photographic plates. 1993. (reduced price \$12.00).
- Volume 18. Including the Proceedings of the Twenty-Sixth Annual Meeting – Baton Rouge, Louisiana (October, 1993). Thirteen articles, 286 pages, 43 photographic plates. 1994. (reduced price \$15.00).
- Volume 19. Including the Proceedings of the Twenty-Seventh Annual Meeting – College Station, Texas (November, 1994). Thirteen articles, 270 pages, 39 photographic plates. 1995. (reduced price \$15.00).
- Volume 20. Including the Proceedings of the Twenty-Eighth Annual Meeting – Ottawa, Ontario (October, 1995). Thirteen articles, 270 pages, 39 photographic plates. 1996. (reduced price \$15.00).
- Volume 21. Sixteen articles, 262 pages, 39 photographic plates. 1997. (\$20.00).
- Volume 22. Including the Proceedings of the 30th Annual Meeting – Woods Hole, Massachusetts (September, 1997). Ten articles, 270 pages, 42 photographic plates. 1998. (\$20.00).

CONTRIBUTIONS SERIES (ISSN 0160-8843)

- Number 1. A Bibliographic File for Computer Analysis of Permian Palynological Data (1933-1969). GEORGE F. HART. 40 pages. 1970. (\$2.50).
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