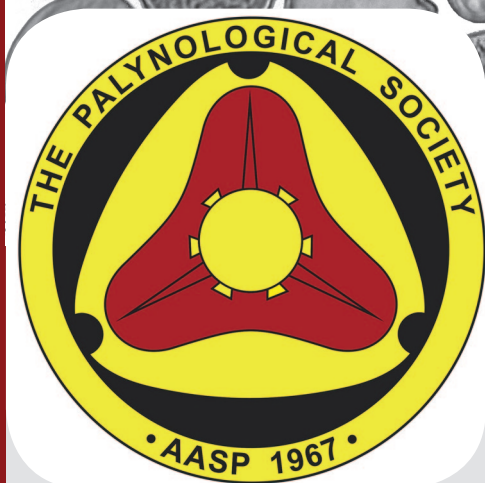
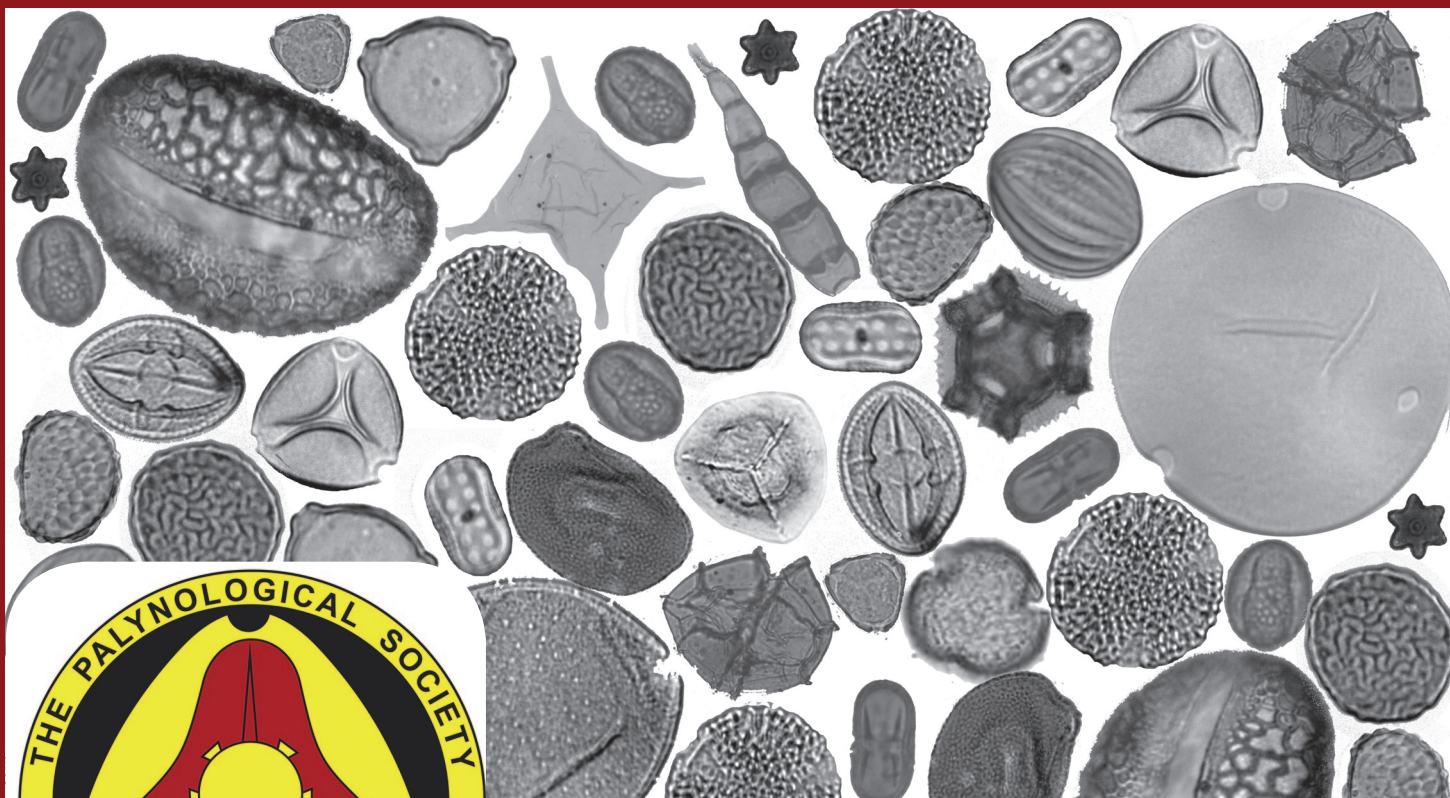


AASP - THE PALYNOLOGICAL SOCIETY

PROMOTING THE SCIENTIFIC UNDERSTANDING OF PALYNOLOGY SINCE 1967



Newsletter

March 2016

Volume 49, Number 1

Published Quarterly by AASP - The Palynological Society



AASP-TPS NEWSLETTER

Published Quarterly by AASP - The Palynological Society

March 2016
Volume 49, Number 1

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A.A.S.P.

The Palynological Society

The American Association of Stratigraphic Palynologists, Inc. - AASP-The Palynological Society - 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* (triannually), 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.

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Professor William R. Evitt (awarded 1982)
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Dr. Graham Lee Williams (awarded 1996)
Dr. Hans Gocht (awarded 1996)
Professor Svein B. Manum (awarded 2002)
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Professor Leonard R. Wilson (elected 1975)
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Professor William R. Evitt (elected 1989)
Professor Lucy M. Cranwell (elected 1989)
Dr. Tamara F. Vozzhennikova (elected 1990)
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Dr. Robert T. Clarke (awarded 2002)
Professor Vaughn M. Bryant (awarded 2005)
Professor Alfred Traverse (awarded 2005)
Professor Bernard Owens (awarded 2011)
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Dr. Robert T. Clarke (awarded 1994)
Dr. Thomas D. Demchuk (awarded 2014)

Teaching medal recipients

Professor Aural T. Cross (awarded 1999)
Professor Alfred Traverse (awarded 2001)
Professor Bill Evitt (awarded 2006)
Professor Vaughn M. Bryant (awarded 2013)

AASP Distinguished Service Award recipients

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Dr. Norman J. Norton (awarded 1978)
Dr. Jack D. Burgess (awarded 1982)
Dr. Richard W. Hedlund (awarded 1982)
Dr. John A. Clendening (awarded 1987)
Dr. Kenneth M. Piel (awarded 1990)
Dr. Gordon D. Wood (awarded 1993)
Dr. Jan Jansonius (awarded 1995)
Dr. D. Colin McGregor (awarded 1995)
Professor John H. Wrenn (awarded 1998)
Professor Vaughn M. Bryant (awarded 1999)
Dr. Donald W. Engelhardt (awarded 2000)
Dr. David T. Pocknall (awarded 2005)
Dr. David K. Goodman (awarded 2005)
Professor Owen K. Davis (awarded 2005)
Dr. Thomas Demchuk (awarded 2009)
Professor Reed Wicander (awarded 2014)



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Jen O'Keefe, Editor

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AASP WEBMASTER

Fabienne Marret, aaspwebmaster@gmail.com, website: <http://www.palynology.org>

AASP NEWSLETTER EDITOR

Jen O'Keefe, palynologylexington@gmail.com, 404-A Lappin Hall, Department of Earth and Space Science, Morehead State University, Morehead, KY 40351.

The AASP-TPS 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. Every effort will be made to publish all information received from our membership. Contributions which include photographs should be submitted two weeks before the deadline.

Deadline for submission for the next issue of the newsletter is **May 15**. All information should be sent by email. 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.**

A Message From Our President



February 15, 2016

My second President's letter is here (and it only feels like last week that I wrote the first!) and it's my great pleasure to write about the new website. It's my one good news story. Until you have served on the board of a professional society, or indeed had the misfortune to organise a large conference, it's possible to not appreciate the work that goes into such endeavours. Content needs updating, editing, removing, replacing, and that's before any new content is forthcoming. We do have new content that hits squarely our purpose of outreach, promotion, and education. That is a fundamental tenet to the role of the society. It's a slow job. It's taken several board members and willing volunteers from the membership many months of hard work. It's an evolving project with content still appearing (yes, the website IS that big. We have a lot of publications). But what I can see so far impresses me greatly. With such a mammoth task it was inevitable for teething problems to creep in long the way. Mostly these, however, were squarely with PayPal and so I'm grateful to my colleagues on the board who professionally handled these issues during the critical time of renewals. My Presidency has indeed been blessed by great board members! I'm hoping that this summer the nominating committee will continue their work in approaching similar people to stand for election for our society. It's my pleasure to thank the webmaster and her team for bringing this together and for my fellow board members who assisted throughout the process.

You won't need reminding about the general direness of the news, especially in connection with oil prices. It's been a relief then, for me anyway, to immerse myself in plenty of palynology. My year so far has consisted of intensive teaching at the University of Birmingham. Maybe that's why my last newsletter item felt like last week. Despite not working now as a tenured faculty member, I'm still undertaking more teaching tasks than some of my former colleagues in the Geography Earth and Environmental Sciences School at UoB! Students on the Master's program in Applied Petroleum and Micropalaeontology have me for 6 weeks on aspects of Palynology. More specifically they have me constantly reminding them that picture-spotting is not acceptable. It's all about morphology. Then it's about lithofacies. The process of teaching is highly informative for me: I can remind myself that morphology is key and that I shouldn't picture-spot when I'm pushed for time. Unlike all those other microfossil groups that really do all look alike (just think planktonic forams, folks), I have to keep reminding students that tricolporate pollen grains really are different. It's a difficult, thankless task. I also get to remind myself that palynology covers a huge array of different fossils and that we have a rich seam of research possibilities that can, and will, be exploited. I'm full of admiration for members of our community who can cover not only several different major time intervals but also across different groups within the field of palynology. I'm fortunate to work with some such individuals. Many of you will know such scientists and some of you will actually be these people.

My year has also been taken with working as an associate editor for *Paleoceanography*. I don't have to do this. There are no categories on my weekly timesheets at work to cover these activities. But I feel

that if you are asked you should say yes: Professional service is its own virtuous circle. This feeds from my comments in the last newsletter that palynology has many different strengths. In this case the invitation was proffered not because it was “my turn” but more because as a palynologist I have used in my academic research the potential of pollen and spores to answer fundamental questions on plant responses to environmental perturbation. As a palynologist I’m also familiar with terrestrial-marine depositional environments. Plus I’m always that reviewer number 3 who finds the problems! Again, I am optimistic about our discipline and the directions that it is taking and can take. I’m realising that I need to advocate more for palynology and finding the right approach is important. But only if we understand morphology. And lithofacies . . :)

By the time this newsletter hits your inbox the deadline for our major awards will have past. Already I can see a great list of candidates being put forward and it will be my privilege as President to award some of these on behalf of the society. We will also be gearing-up in due course for the mid-year board meeting. At this I hope the nominating committee for the upcoming board positions will have assembled a list of candidates for election. It’s my strong desire to encourage new faces onto the board. In my stints working with AASP, first as a Director-at-Large and now as President, we have had a diverse and fresh cohort of members. I hope that this feature will continue for the new President’s board later this year. So if you are approached by the nominating panel, please take time to consider. The success of the Society is due wholly to the driven efforts of volunteers.

Guy Harrington,
Birmingham, UK





AASP

The Palynological Society

Promoting the scientific understanding of palynology since 1967



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Welcome to AASP – The Palynological Society

AASP – The Palynological society (AASP-TPS) was founded to promote the science of palynology for and in behalf of the public interest. It is a non-profit organization, to foster the spirit of scientific research among its members and others engaged in this field of science. It also aims to gather information and data on this subject that is disseminated to its members and to the general public. AASP-TPS was established as the "American Association of Stratigraphic Palynologists" following a survey conducted by Herbert Sullivan in spring of 1967. It held its first meeting on December 8, 1967 in Tulsa, Oklahoma.

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New Website!

Mention the new website to recent AASP-TPS board members and you're sure to hear a deep sigh, followed by sagas of the last few years of its development. The new site is the result of the hard efforts of many people over many years. For most of you, the first you heard about it would have been the last newsletter, or my numerous emails at the beginning of the current year, detailing how the new platform will work for administering memberships.

The website has been designed to make online activities for our Society and its members easier, safer and more informative. It is hoped that the AASP-TPS website will appear at the top of any palynology related web search, whether for someone discovering the subject for the first time, or professionals looking for the latest publications or contacts for specific areas of expertise.

Payments made via the new website are now much more secure. This was one of our highest priorities when the design process started. As secretary, the new membership system, now integrated with the website, is most pleasing. This will help us manage memberships with greater efficiency, and allow members to view details of their membership in the much improved members area of the site.

There is still much work to do, and many sections are a work in progress. However, the website is well on its way to being a much improved web presence for palynology and the AASP-TPS. I'd like to offer my thanks for the patience of all those who experienced the initial teething problems we had with PayPal, which caused widespread issues. The problem has now been resolved and I'd like to reassure members that it isn't necessary to create a PayPal account to pay membership fees via the website, you are able to do so simply using a credit/debit card.

All members are reminded that they will need to sign up to the new website this year, as if they are a new member. Old usernames and passwords from prior to 2016 will not work. Anyone who has previously paid up for the current year and beyond should have received emailed instructions for how to do this.

My final note is the usual reminder about membership renewals, can I please urge everyone who hasn't yet paid to do so as soon as possible. Please send any queries about memberships to me (s.stukins@nhm.ac.uk) and any other queries about the new website to aaspwebmaster@gmail.com.

Steve Stukins
AASP-TPS Secretary

MANAGING EDITOR'S REPORT

MANAGING EDITOR'S REPORT

The March 2016 issue of *Palynology* (Volume 40, Part 1) has now been published, both online and in print. By the time you have this newsletter, all currently paid-up members should have received their paper copies. This part includes seven research articles and a brief editorial; these are all listed below. One of the papers is a fantastic contribution by Pat Wiltshire, a leading forensic palynologist from the UK, on the various protocols used in forensic palynology. For those working in this area, it will prove to be an instant classic; for others it will be a fascinating insight into the work of the relatively small band of palynological crimefighters. There is also an article on the Early Miocene of King George Island, Antarctica by Sophie Warny and her colleagues.

I will shortly finalise the running order for the articles in Volume 40, Part 2, all of which are typeset and published online. This part, which will be printed in July this year, will include an extremely interesting paper by Dafna Langgut and her co-workers on analysing the date of a historical earthquake in central Israel using seasonality in the pollen record. We also hope to be able to include an obituary for Al Traverse in this issue.

I have mentioned previously the possibility of two supplements this year. I am delighted to announce that a supplement on the life and work of Bill Evitt will be mailed out to all members with Part 40/2 in July. This 130-page supplement is by Joyce Lucas-Clark and myself and has been paid for by Bill's ex-employer, Exxon-Mobil. It was written by us following the successful dinoflagellate symposium dedicated to Bill's memory during the 2013 Annual Meeting in San Francisco. The proofs have just been sent out, and so it should be online and open access very soon. Kenneth Mertens and his colleagues are working on another supplement which is a thematic set of papers on the dinoflagellate cyst genus *Spiniferites*. This one is still in production and may be published later this year, or in 2017.

In other news, Taylor and Francis are moving to a new style for our papers. It is called 'Interact' and makes an article somewhat easier to read online. It's a great format and this will represent a real step forward. We have a healthy backlog of papers which have already been typeset, so this change will be made during 2017 in terms of paper-printing. However, authors and readers of copy accepted in the past couple of months will see a change in the format of papers which are published online very soon. Authors do not need to format their manuscripts any differently; it's simply a production thing.

May I remind authors that montages of photomicrographs of palynomorphs etc. are 'Plates' in our format. Please avoid submitting these items as 'Figures,' and remember to include scale bars and number the photomicrographs (i.e. don't use letters). Also we are moving to quoting the full title of journals etc. in the reference listings, so please also don't abbreviate journal titles any more.

I truly hope that you like the red cover for volume 40 with the stunning SEM photograph of *Protoperidinium divergens* on it. The cover image for 2017 is going to be a fabulous SEM photograph of the modern pollen grain of *Diodia teres* (poorjoe or rough buttonweed in normal parlance) kindly supplied by Sophie Warny. I am acutely aware that we have never used a Palaeozoic spore on the cover yet. If any of you would like to share an especially good Devonian or Carboniferous spore image, that would be greatly appreciated. For that matter, do not allow me to set the agenda on this. If anyone would like to submit potential cover images, please get in touch with me at any time.

Finally, if you have any problems with the online system, please contact Kathy Robson (Katherine.Robson@tandf.co.uk) and myself. For any other issues, you can get in touch with our new production editor, Joanna Perry (Joanna.Perry@informa.com) and myself.

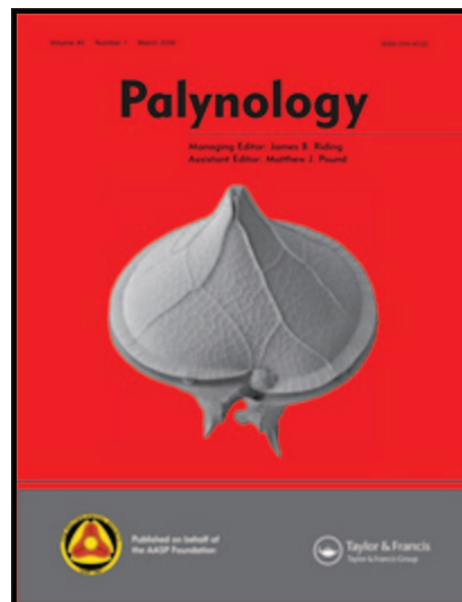
James B. Riding
Managing Editor, AASP – The Palynological Society
British Geological Survey
Keyworth
Nottingham NG12 5GG
United Kingdom
Tel: +44 (0)115 9363447
E-mail: jbri@bgs.ac.uk

10th February 2016

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1. Riding, J.B. Editorial. pp. 1–3.
2. Wiltshire, P.E.J. Protocols for forensic palynology. pp. 4–24.
3. Deaf, A.S., Harding, I.C. and Marshall, J.E.A. Early Cretaceous palynostratigraphy of the Abu Tunis 1x borehole, northern Western Desert, Egypt, with emphasis on the possible palaeoclimatic effect upon the range of *Dicheiropollis etruscus* in North Africa. pp. 25–53.
4. Noor, M.J., Ahmad M., Ashraf, M.A., Zafar, M. and Sultana, S. A review of the pollen analysis of South Asian honey to identify the bee floras of the region. pp. 54–65.
5. Warny, S., Kymes, C.M., Askin, R.A., Krajewski, K.P. and Bart, P.J. Remnants of Antarctic vegetation on King George Island during the early Miocene Melville Glaciation. pp. 66–82.
6. Moczyłowska, M. Algal affinities of Ediacaran and Cambrian organic-walled microfossils with internal reproductive bodies: *Tanarium* and other morphotypes. pp. 83–121.

7. Akyuz, I., Warny, S., Famubode, O. and Bhattacharya, J.P. Palynology of the Upper Cretaceous (Turonian) Ferron Sandstone Member, Utah, USA: identification of marine flooding surfaces and Milankovitch cycles in subtropical, ever-wet, paralic to non-marine palaeoenvironments. pp. 122–136.
8. Williams, G.L. and Fensome, R.A. Fossil dinoflagellates: nomenclatural proposals in anticipation of a revised DINOFLAJ database. pp. 137–143.



Welcome to our new production editor, Joanna Perry! Joanna joined Taylor & Francis in October 2015 and became the production editor for *Palynology* late last fall. We hope to have many good years working with Joanna as we continue to adapt our publication to the 21st century reader!

In Memoriam...

Svein B. Manum: Pioneer in Palynology

Gunn Mangerud

Professor emeritus Svein Bendik Manum was born on October 3rd 1926. He died on September 30th 2015, 89 years old. His long life as a researcher and teacher dedicated to the field of paleobotany and palynology had come to an end. Until the very last months of his life, his passion for the field of palynology was expressed through letters and conversations with former colleagues. The last contact I had with him was a long letter written to me on August 20th 2015, which demonstrates this passion. Svein Manum left behind a legacy in Norwegian and international paleopalynology that will be remembered for a long time. He was certainly one of the pioneers in this field, and had a strong belief in curiosity-driven research, which he stated was the main driving force through his career.

During his early studies, Svein Manum became fascinated by the fossil flora of Svalbard (authored by Hanna Resvoll-Holmsen) and around 1950 he went to see the paleobotanist Ove Arbo Høeg (1898 – 1993) at the University of Oslo, asking for a master thesis topic. He suggested that Svein should go to Svalbard and start work on the Tertiary floras there since no one had ever studied them. After doing fieldwork in Spitsbergen, Manum was sent to visit Robert Potonié in 1952 at the Geologisches Landesamt in Krefeld, Germany. Høeg wasn't a palynologist, and in order to help in training Svein, he saw that international collaboration was needed in order for him to learn more about techniques etc. At the time, Potonié himself was very busy working on his "Die Gattungen der paläozoischen Sporae dispersae." However, during his stay, Svein met researchers like Hilde Grebe, Gerhard Kremp, and Wilhelm Klaus. According to Svein, he was particularly grateful for the help he got from Klaus. In an interview I did in December 2014, he said "I feel I owe Wilhelm Klaus a lot. He was the first person to understand the value of my Spitsbergen work and was actually the one who made me realize I had to publish it." Manum's first publication came in 1954: "Pollen og sporer i tertiære kull fra Vestspitsbergen. - Medd. Norsk Polarinst. 79" (in Norwegian). Svein also visited Gunnar Erdtman, the pioneer in Swedish palynology, in Stockholm in 1954. Svein continued on his doctorate and defended his doctoral thesis "Studies in the Tertiary flora of Spitsbergen, with notes on Tertiary floras of Ellesmere Island, Greenland and Iceland" on November 24th, 1962, which was published in Norsk Polarinstituttets Skrifter 125, and also reviewed in Nature 26, 1963, vol. 197. His opponents were Knut Fægri from the University of Bergen and the Swedish palynologist Brita Lundblad. In the same way Svein Manum became the one to introduce paleopalynology in Norway, Knut Fægri was the true pioneer in Quaternary pollen analysis, which was established in Bergen, Norway in 1947. Although the two fields have strong links, they developed into geologically and botanically dominated directions respectively. However, Svein remembered that Fægri always was truly supportive and also very enthusiastic about his work, as well as being his opponent.



Professor Manum at his microscope, circa 2014. Photo courtesy of Ronny Setsaas.

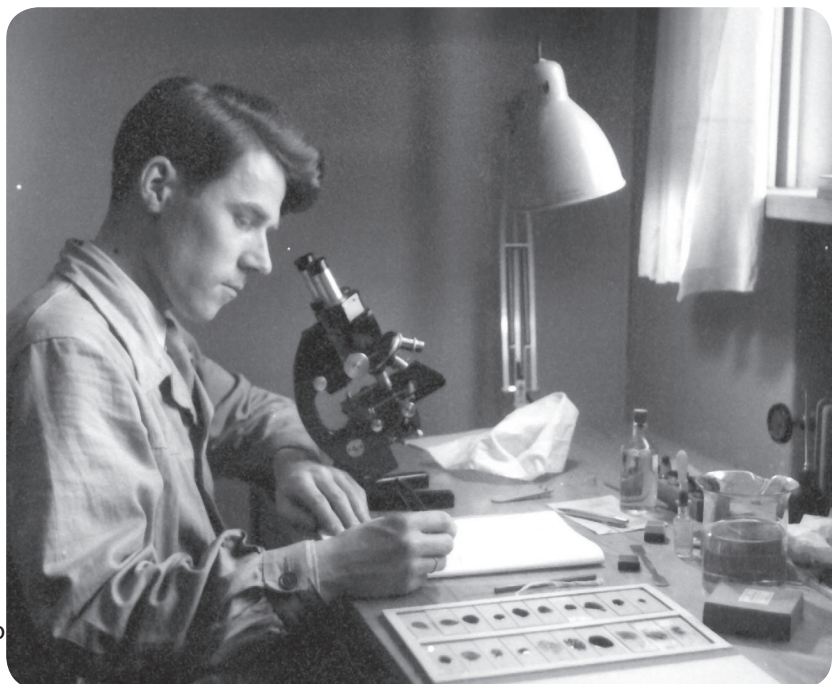
A visitor to the University of Oslo had a great influence on Svein's further career. Both in 1959 and 1963, Isabel Cookson visited from Melbourne, Australia. She was invited by professor Høeg to discuss early land plants, but as she had turned her interest into marine palynology, Svein asked if he could show her some samples from the Tertiary of Spitsbergen. They contained the first dinoflagellate cysts ever seen from Spitsbergen, and after having showed her some material, Svein was fascinated by all these new forms, and recalled in 2014: "I learned tremendously about dinoflagellates from Isabel Cookson. Without Cookson, no marine palynology for me!" One of the species Svein found was named after her: *Svalbardella cooksonia*.

Between 1967 and 1970, Svein moved with his family, including wife Randi and three children, to Uganda, where he worked at the university in Kampala teaching botany. He always described these as fantastic years and he was lucky to travel extensively around in this beautiful country.

When returning to Norway, a new era had started back home: the first oil field had been found (Ekofisk) and the petroleum industry needed his expertise. In addition, Svein got involved in the IODP (DSDP leg 38/1974) and analyzed about 1000 palynological samples from these borings. One of the results from this work is the first palynological zonation for offshore Norway, with 85 dinoflagellate taxa covering the Eocene to Miocene. Many students got involved with this work and Svein later described it as "the best that ever happened to me, scientifically speaking." He collaborated internationally with great colleagues like Graham Williams and Bill Evitt, and in 1976, Svein was awarded a scholarship and spent several months with Bill Evitt at Stanford, where he also met people like Lewis Stover. Evitt returned the visit and came to Oslo in 1976 to give a course on dinoflagellates. In 1979, Svein named a new dinoflagellate to honor Bill Evitt: *Evittosphaerula*.

It is also important to note Svein Manum's productive career both in research and education and that his wide interest lay within many fields of paleopalynology and paleobotany, not only including pollen, spores and dinoflagellates, but also, for example, Clitellate cocoons, Ginkgoes, and Mesozoic "*Sciadopitys*-like" leaves in mass accumulations! He also had various interest fields outside palynology including photography and art, particularly the graphic arts.

Svein Manum will be remembered as a pioneer in palynology by many colleagues, not only in Norway, but all around the world.



Professor Manum at his microscope, circa 1950's. Photo source is private.

In Memoriam...

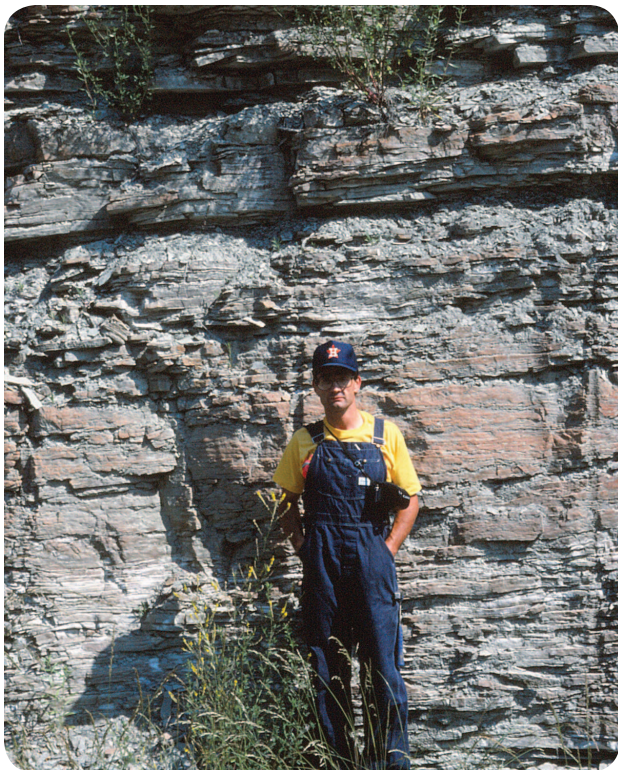
Gordon Daniel Wood, II: World Class Scientist and Valued Colleague

Merrell A. Miller, Don Benson, and David K. Goodman

The palynological community has lost a world class scientist and valued colleague, Dr. Gordon Daniel Wood II, who passed away at his home December 8, 2015. Gordon was born August 4, 1949, in Detroit, Michigan. His parents, Gordon D. and Arpene Taman (Mooshoinan), encouraged their children to enjoy nature. Gordon spent summers exploring the forests and collecting fossils on the shores of Lake Huron. These early experiences started his interest in natural science and led to his choice of academic study and scientific career.

We all know Gordon for his scientific contributions and sense of humor. However, what is less well-known is that in high school he was an accomplished athlete. In track and field, he repeatedly set records in sprints and the long jump. He also played football. Gordon received a track scholarship at Eastern Michigan University, where he competed until injuries curtailed his participation. Gordon's interest in sports continued throughout his life; he enjoyed swimming, tennis and cycling. He continued his involvement in sports for more than 20 years, volunteering as a coach and manager for youth baseball, soccer and basketball teams. He was certified as an F.I.F.A. soccer referee and college level baseball umpire. Many of us remember his amusing stories of the games and hearing about the antics of young athletes.

Gordon attended Lutheran High West where he met his future wife, Cathy Lynn Jeffery. Following two years at Eastern Michigan University, Gordon transferred to the University of Miami (Coral Gables, Florida) where Cathy was enrolled. He completed a BSc in Geology with a minor in Marine Biology. He continued his education at the University of Michigan under the direction of Dr. James Doyle. His MSc thesis was entitled: "Chitinozoa of the Silica Formation (Middle Devonian, Ohio): Vesicle ornamentation and paleoecology." He remained in his home state and enrolled in Michigan State University, where he continued his palynology/paleobotany education with Professor Aureal T. Cross. Gordon expanded his studies with a dissertation on the Upper Devonian: "Palynology and Paleobotany of the Java and lowermost Canadaway Formations, Upper Devonian (Senecan and Chautauquan), New York State." During this time he was a summer employee at Amoco's Tulsa Research Center where he worked with another Michigan State palynologist, Dr. Leonard E. Eames. Gordon taught at Lansing Community College for a half year prior to accepting a position with Amoco Production Company.



Gordon's industrial career began at Amoco's Houston Region. He continued to work on the Upper Devonian palynology of eastern North America. He produced operational biostratigraphy for Amoco and published papers on Devonian acritarchs, chitinozoans and spores. Gordon expanded his Lower Paleozoic interests studying Cambrian acritarchs from the Appalachians and the subsurface Reelfoot Rift area. Gordon, emulating his mentor, Professor Cross, actively pursued opportunities for geological field work (Photo 1) and took every opportunity to collect rocks and visit sections to

Photo 1: Gordon at a Cambrian Outcrop in Missouri.

see new and interesting geology. His participation in the famed Houston Region "Unconformity Seminar" introduced him to the excellently preserved Llandovery acritarchs and chitinozoans from the US Midcontinent. Many of us can recall the wonderful illustrations of these assemblages in presentations and posters at AASP and CIMP meetings over the years. Publication of these collections was one of Gordon's retirement goals, among other interesting projects.

Amoco's international exploration focus brought work from all over the world to Houston and Gordon was enthralled by the variety of material, some of which was wonderfully preserved. He examined material from China, Baltic, Mideast, various South American countries. A more detailed summary of his research, with a publication list, will be included in a Palynology Special Issue honoring him. Following a short employment with British Petroleum, Gordon retired.

Following his retirement from BP and after a short stint teaching introductory geology courses at Houston Community College, Gordon became a Senior Associate consulting with the irf group (i'd rather fish), Anchorage, Alaska. He also was a Technical Communication and Knowledge Management Consultant at ExxonMobil. He edited and compiled reports.

Gordon enjoyed sharing his enthusiasm for science and particularly paleontology. He was a member of the Amoco Science Enrichment Program and a frequent guest at local pre-schools through high schools where he showed students fossils and lectured about geology and paleontology (Photo 2). A favorite collection of fossils he used in this endeavor were the shale slab of fossil shark vomit, various coprolites and fossil owl vomit. Students were always shocked when they found out the specimen they looked and handled was paleopoo! Gordon's favorite non-palynological paper was "Coprolite, Urolite and "Vomite," published in Maledicta IV. His scatological interests are evidenced by his membership in the Coprolite Research Association of Paleoscatologists (photo 3) and it even extended to his choice of attire (photo 4). His unique approach for introducing students to paleontology always proved attention grabbing and very popular.

AASP benefited from Gordon's dedication to the society. He was Secretary/Treasurer for nine years (photo 3). He often commented that it was a wonderful opportunity to communicate with friends and colleagues from all over the world. Many of us received his offbeat observations on science, sports and the world in general. For his work he received the AASP Distinguished Service Award in 1993. In 1996, Gordon was elected AASP president.

Gordon is survived by his three children, Eric, Adam and Kevin, and his sisters Kristie Hissong and Arleen Wood of East Tawas Michigan. He was predeceased by his wife of 33 years – Cathy – in 2006



Photo 2: Gordon showing fossils to Village School students. Houston, 1993. Please note the Oligocene owl vomit in the two containers bottom right.

Coprolite Research Association of Paleoscatologists

Geology Club
Department of Geology
University of Colorado
Boulder, Colorado 80302

This is to certify that

Gordon D Wood II

has become a life member of this solemn and noble conglomeration on this ..18th... day ofSeptember,.....1972..... and is hereby privy to all rights, pre-rogatives and fetishes thereof. Membership constitutes a pledge to fervently ferret for fine feral fossil feces facies in a fully feckful fashion wherever they are likely to be found. The Coprolite Research Association of Paleoscatologists has been excremental in the formation of two related societies, the Fecal Administration for Research and Technology and the Scatological Higher Institute of Technology. The three organizations together form the famed Triumvirate for Universal Research in Defecation.

W. Jack Squat
.....
Exalted Keeper of the Stool

Photo 3: Gordon's lifetime membership certificate for CRAP.



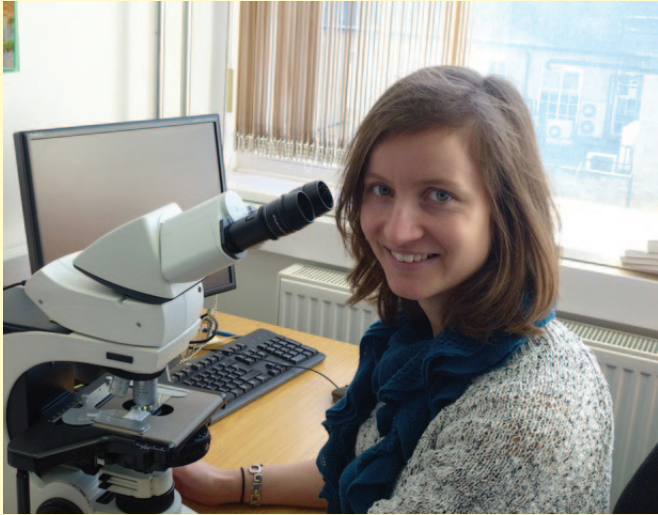
Photo 4: AASP-The Palynological Society Secretary/Treasurers. Left to Right: David Pocknall, Gordon Wood and Thomas Demchuk. Note Gordon's T-shirt. Undated photo.

As members of the palynological community we all knew Gordon from his publications, presentations at meetings, humorous dinners and drinking sessions (Photo 5). His mailings of humorous and/or odd items he extracted from newspapers and magazines were one of his hallmarks. He will be greatly missed as a scientist, mentor, colleague and friend. Our lives and conferences will be less fun without Gordon.



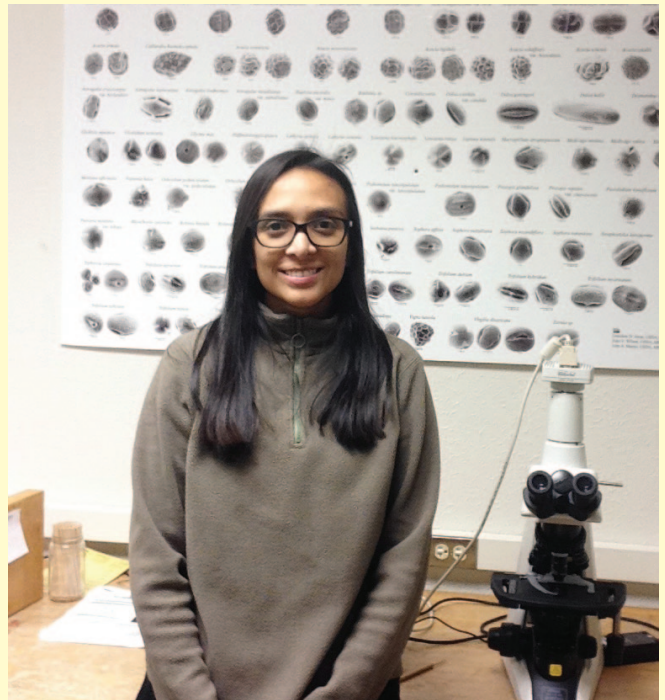
Photo 5. Gordon enjoying dinner at the September, 2015, CIMP Meeting, Bergen, Norway. Photo by Ahmed Al Shawareb (ARAMCO).

Congratulations to Students Awarded Funding for Travel to Meetings other than the Annual Meeting!

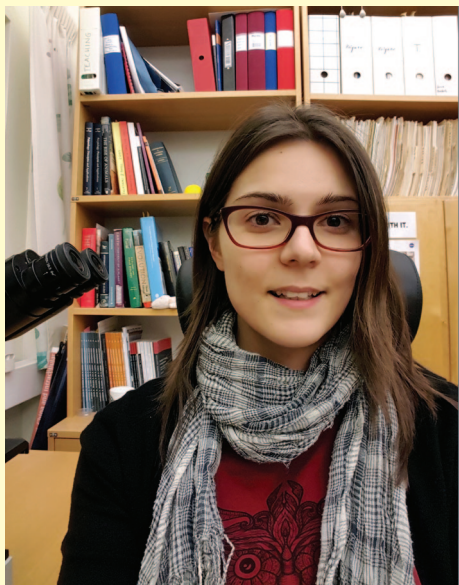


Sina Panitz of Northumbria University has been awarded support for her travel to the IPC in Brazil. Sina, who is supervised by Professor Ulrich Salzmann, will be presenting her work entitled, "Pliocene vegetation and climate of Arctic Norway and variability of the Norwegian Atlantic Current."

Rossana Salcedo of Texas A&M University has been awarded support for her travel to the IPC in Brazil. Rossana, who is supervised by Professor Vaughn Bryant, will be presenting her work entitled, "Paly-nology and Paleoenvironmental Reconstrucción of the Early Initial Period of Gramalote, Northern Peru"



Heda Agic of Uppsala University has been awarded support for her travel to the 35th International Geological Congress in South Africa. Heda, who is co-supervised by Professor Małgorzata Moczyłowska-Vidal and Dr. Sebastian Willman, will be presenting her work entitled "Evolutionary trends of the earliest eukaryotic palynomorphs: evidence from the 1.8 Ga Changcheng Group and the 1.7-1.4 Ga Ruyang Group, North China Craton".



Undergraduate Student Awards

In order to support the teaching of palynology at the undergraduate level, and to encourage and reward student achievement, AASP-The Palynological Society announces the AASP Undergraduate Student Award.

The awards are made annually to students nominated by faculty members teaching courses with significant palynological content. One student recipient, with meritorious achievement in some aspect of the course, can be nominated per year per institution.

The following institutions already have approved courses from which undergraduate students may be selected: University of Southampton, Louisiana State University, University of Tennessee-Knoxville, University of Portsmouth, Morehead State University.

A faculty member, who is a member in good standing of AASP, and who teaches an appropriate course, may nominate the course using the Registration Format found below. This should be cut-and-pasted into a word document and sent to the awards committee chair at: mbfarley@sigmaxi.net. Upon approval by the Awards Committee, faculty teaching approved courses may nominate a student to receive the award at any time of the year on the basis of their qualifying criteria by reporting the name and address of the recipient to the Awards Committee Chair. The Chair will collate a list of recipients each year for presentation at the Society's Annual Meeting, in the Newsletter, and on the website.

Each award consists of one year's free membership in the Society to include two issues of the Society's publications, the journal Palynology and the quarterly newsletter, discounts on other AASP publications, discounted registration fees at Society meetings, and eligibility for Society awards.



AASP Undergraduate Student Award – Course Registration Form

Nominating faculty member:

University/Higher Education Institution:

Course Name:

Course Description and level:

Average number of students registered in the course annually:

Number of hours of palynological instruction:

Criteria used to determine the winning student:

Date:

2016 AASP STUDENT RESEARCH GRANTS

The Society will entertain applications for Student Research Grants with a deadline of:

March 31, 2016

This year there will be three grants of US\$3000 each, two regular Student Research Grants and the McNeilly Student Research Grant.

AASP is pleased to announce that through the generosity of a donation by Juanita McNeilly to honor the memory of her late husband, Roy McNeilly, there will be a McNeilly Research Grant to support student research in Cenozoic tropical palynology. For the purposes of this Grant, Cenozoic tropical palynology covers student projects that address any scientific question using terrestrial palynomorphs or terrestrial with marine palynomorphs.

In addition, AASP offers two Student Research Grants to support research in any area of palynology. Ordinarily, the grants will be offered to beginning graduate students, but advanced undergraduates may also apply. Student Research Grants are to be used for costs directly connected to carrying out research, such as fieldwork and laboratory expenses. 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 the 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 Student Research Grants are available to all students of palynology in all countries and these students need not be members of AASP.

Application forms can be downloaded from our website at <http://www.palynology.org/student-support>. Inquiries and completed application materials should be sent electronically to the Chair of the AASP Awards Committee:

Martin Farley

Dept. of Geology & Geography, University of North Carolina at Pembroke

mbfarley@sigmaxi.net

ADVICE ON PREPARING AN EFFECTIVE APPLICATION FOR AN AASP STUDENT RESEARCH GRANT

The single most valuable piece of advice is “know and write to your audience.”

You have only a very limited space to describe your project, so use the words wisely. Writing briefly is more difficult than writing at length, but is worth the effort. Literature review should be at a minimum. Keep in mind that the Awards Committee does not know all the context for your project, and may not even have a closely related specialty in palynology. Thus it is important to write for this broader audience. It can be a good idea to show your text to someone who is not a palynologist or involved in the project to see if they understand your description well. It is fine to have a project that integrates palynology with other data, but be sure to make clear what palynological work you will be performing. If there is prior palynological work, explain how your approach is new or different.



Image altered from: Peter Mather / Yukon News

“There be pollen (and gold) in them thar hills!”

said Dr. Matthew Pound in his blog, back in spring of 2015. Pound was referring to his recent paper in *Palynology*, “Palynological evidence for a warmer boreal climate in the Late Pliocene of the Yukon Territory, Canada;” little did he know just how much attention this work was going to receive! Achieving an altimetric of 7 so far, it is in the top 25% of papers to be cited from *Palynology* since its publication online in late 2014 and official release in the June 2015 issue. Beyond fellow scientists, Pound’s work has caught the attention of the general public through social and traditional media coverage, most recently an article in “Your Yukon” from Yukon College in Canada (Friis-Basta d, 2016).

In recent weeks, the Pliocene has been the topic of several publications, both scientific and for the lay public. Of the latter, Fernanda Castaño’s (2016) blog post and The Atlantic’s work on the PaleON project (Anderson, 2016) are receiving a lot of attention. **Study of the Pliocene, primarily through palynology, is being called “The World’s Most Urgent Science Project.”** Why? Because it is generally accepted that warm periods in the Pliocene are potential analogs for modern climate change (Ballantyne et al., 2010; Pound et al., 2015), as Pliocene paleogeography, ocean bathymetry, and paleobiology are largely the same as today’s. Studies of the Pliocene suggest that the latitudinal temperature gradient was significantly reduced, especially in the northern hemisphere (Ballantyne et al., 2010); the Pliocene arctic, much like the arctic today, appears to have been very sensitive to warming events, with most regions remaining unglaciated until atmospheric CO₂ levels fell below 280 ppmv, around 2.75 Ma (Ballantyne et al., 2010). Pliocene estimates of atmospheric CO₂ ~390 ppmv (Pagani et al., 2010) are only a little higher than those of today, which begs the question, what did the terrestrial arctic in the Pliocene look like?

We know that the boreal forest in Alaska was likely similar to modern temperate forests (Ager, 1994), and that Ellesmere Island contained peat-producing wetlands similar to those in New England and Temperate east-central Canada (Ballantyne et al., 2010). What about in-between in the Yukon? Pound shows that there were also wetlands within a pine-dominated forested region, with angiosperms, such as *Betula* (Birch), *Populus* (Poplar), *Ostrya* (hop-hornbeam), and *Corylus* (Hazel), occurring where conditions were favorable, likely on warmer slopes (Pound, 2015). A clearer picture is starting to emerge of temperate forests extending well into the arctic during the Pliocene, concurrent with much warmer mean annual temperatures (~6°C), and overall shorter, milder winters and longer, warmer summers (Pound, 2015). This northward extension of is in agreement with findings generated for much further south by the PaleON project, which has, to date, concentrated their efforts in Northeastern North America (Anderson, 2016).



The implications of these findings are startling. An ice-free future may be in store, with forests similar to those in Maine, Quebec, and Ontario extending to the Arctic Circle, and commensurate drying in the southern and central United States as climate zones shift northward and those near the equator expand. Sea-level rise of 20 meters or more (Miller et al., 2012) flooding the coastlines. How much like the Pliocene will the future be? What can we expect? What is at the forefront of modelling these scenarios? **Palynological records from Pliocene sediments, our “gold” in the sediments.**

Selaginella sp. from Yukon Territory palynology samples. Photo Courtesy M. Pound.

- Jen O’Keefe, Newsletter Editor

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CONSIDER HELPING OUR MISSION

AASP FOUNDATION CENTURY CLUB

What?

The Century Club of the American Association of Stratigraphic Palynologists Foundation is an organization founded by the Trustees of the Foundation in order to provide persons with the opportunity to support activities of the AASP Foundation.

Why?

1. To develop an established level of giving that will continue to provide a solid financial base for the Foundation.
2. To provide unrestricted funds to support the various publishing activities of the Foundation.
3. To provide a meaningful organization and method of recognition of dedicated "friends" of the AASP Foundation.

How?

Your tax-deductible contribution of \$100 or more to the AASP Foundation entitles you to belong to the Century Club. The 2015 "membership" drive is on now. Your contribution may be made by personal check or by a pledge which is **payable on or before December 31, 2015**.

Join!

To join the Century Club, simply complete the attached Contribution/Pledge Form and mail to the address listed below.

The AASP Foundation is a 501 (c)(3) not-for-profit, public organization registered in the United States. This means that contributions to the AASP Foundation are fully deductible on your U.S. Federal Income Tax return. Also, many employers have a matching gift program whereby they match your personal gift to not-for-profit organizations. It is well worth the effort to explore this possibility concerning your gift to the AASP Foundation.

2015 AASP Foundation Century Club Contribution Form

Name: _____

Address: _____

Mail to: Robert T. Clarke, Treas.
AASP Foundation
3011 Friendswood Dr.
Arlington, TX 76013-2033

Contribution Enclosed: \$ _____

I wish to pledge: \$ _____



JOINT MEETING TSOP - AASP - ICCP

The Society for Organic Petrology, AASP-The Palynological Society
and the International Committee for Coal and Organic Petrology

September 18 – 23, 2016

Houston, Texas USA

FOURTH CIRCULAR

We are pleased to present the fourth circular regarding this first historic joint meeting of these three related geological, geochemical and biological scientific societies. We have finalized our schedules of technical sessions including the Symposia and Theme Sessions, and further finalized the pre-meeting Short Course, and the two fieldtrips. The purpose of this joint meeting is to bring together a diverse group of scientists to discuss the close relationships between organic petrology and palynology, to foster thoughtful discussion and address issues that may be of benefit to furthering the respective sciences. Key themes to be addressed during joint activities include source rock/source-rock reservoir resource assessment, microscope methods of characterizing microporosity, coal characterization, and palynofacies/kerogen.

The venue for this meeting will be the historic Magnolia Hotel in downtown Houston. The Magnolia was built in 1926 as the former Post-Dispatch Building. It was re-purposed in 2003 as The Magnolia Hotel, and further underwent a significant upgrade in 2009. The hotel is centrally located in downtown within walking distance of excellent restaurants and pubs. Over the past several years downtown Houston has undergone a major revitalization with many new office buildings, exciting arts and entertainment venues, and several world-class restaurants. We believe the downtown will provide exciting possibilities for every need and want.

REGISTRATION FEES

The following registration fees have been finalized for the meeting:

1.	Full 5-day Registration:	Early Bird (before Aug. 1st)	US\$300	After Aug 1st US\$350
2.	3-day Registration:	Early Bird	US\$225	After Aug 1st US\$275
3.	1-day Registration:	Early Bird	US\$100	After Aug 1st US\$150

At this moment, the Organizing Committee is working with the TSOP webmaster to set up a registration and payment website. When this is completed, a notification to all associated members will be sent out. Please note that this registration fee is exclusive of the respective Society Business Luncheons, Wednesday Evening Conference Dinner, Saturday Short Course, and Fieldtrips.

SHORT COURSE

Saturday All-day Short Course: It is the pleasure of the Organizing Committee to present an all-day pre-meeting short course entitled, "Integration of microscopy and geochemistry in petroleum source rock evaluation". The course will be taught by Dr. Richard Tyson (Getech, UK). The course will be presented in a classroom setting, and will emphasize the integration of microscopy and geochemistry to better understand and characterize source rocks in both conventional and unconventional exploration. The interpretation of both palynofacies and organic petrological data will be discussed. Additional details of the short course are being finalized and will be published in upcoming announcements.

The costs for this full-day Short Course will be US\$250 for professionals, and US\$200 for students. This will include all class materials, lunch and coffee breaks through the day. At this time the class is limited to 40 people and a percentage of attendance will be reserved for students. Attendance will be based on a first-come, first-served basis.

SYMPOSIA/THEME SESSIONS

After considerable discussion, a number of integrated Symposia and Theme Sessions have been finalized.

These will include:

1. Microscope Methodologies in Recognizing and Characterizing Organic Microporosity (Joint TSOP/ICCP Theme Session: Monday PM)
2. Palynofacies and Kerogen (Joint TSOP/ICCP/AASP Theme Session: Tuesday PM)
3. Multi-modal Characterization of Source Rocks, including Source-Rock Reservoirs (Joint TSOP/ICCP/AASP Symposium: Wednesday All-Day)
4. Palynofloral Contributions to Source Rocks (AASP/TSOP/ICCP Theme Session: Thursday AM)
5. Additional AASP-sponsored sessions will include:
 - a. Alfred Traverse Symposium (Thursday PM)
 - b. Guest Lecture on Forensic Palynology to open the Friday AM general session.

A list of Invited/Keynote Speakers has been finalized, invitations have been sent and accepted, and the format for these technical sessions is being finalized. For many of the proposed joint sessions, at least one organic petrography/geochemistry and one palynology Keynote Speaker will be invited. All interested scientists will be strongly encouraged to contact us and propose to submit their abstract(s) for one or more of these Sessions and the all-day Wednesday Symposium. Details regarding these sessions will be forthcoming in the next respective Newsletters, and will appear on respective websites very soon.

ABSTRACT SUBMISSIONS

All scientists of organic petrography and palynology are strongly encouraged to submit their abstract(s) to one or more of the Symposia, Theme and General Sessions. A call for Abstracts will be going out shortly: all abstract submissions will be strictly formatted. Abstract submissions will open on Sunday, May 1st, and the closing date for submissions will be Sunday, August 1st.

FIELD TRIPS

Friday-Sunday Pre-Meeting Field Trip: This 2+ day field trip will visit Eagle Ford Formation outcrops in west Texas, and will be led by Barry Wawak (Manager of Reservoir Geology, Core Laboratories Houston). The field trip will depart on the afternoon of the Friday prior to the meeting, and return by Sunday late afternoon or early evening. The Eagle Ford Formation is a world-class source-rock reservoir resource in the subsurface of south Texas, and the accompanying strata have been researched extensively in stratigraphic, geochemical and biostratigraphic studies.

The cost for this fieldtrip will be US\$550 and will include the field guide, transportation by vans, two nights of accommodation, and two lunches. Dinners for the two evenings will be at the expense of the individual. The fieldtrip is not strenuous as most outcrops are along the highway, or a short distance from well-kept roads. Hiking boots and proper field equipment will be required. Safety equipment (hard hats, safety vests) will be provided.

Saturday Post-Meeting Field Trip: This will be a one-day excursion to Cretaceous through Eocene strata of east-central Texas. These strata are equivalent to the important Wilcox Formation that forms major reservoirs in the subsurface of the deepwater Gulf of Mexico. The field trip will leave early Saturday morning from the Hotel, and return early evening back to Houston. Final details of both field trips will be presented in upcoming Newsletters and on the respective Society websites.

The cost for this fieldtrip is still being finalized but will include the field guide, transportation by vans, and lunch. The fieldtrip is not strenuous as most outcrops are a short distance from well-kept roads. Hiking boots and proper field equipment will be required. Safety equipment (hard hats, safety vests) will be provided.

SOCIAL EVENTS

Multiple social activities of interest to all participants are being discussed and should be finalized in the very near future with the hotel and off-site venues.

Monday PM Icebreaker: The Monday evening Icebreaker will take place on the rooftop patio of The Magnolia Hotel (weather permitting). The patio offers a great view of the Houston downtown skyline and sunset.

Tuesday PM Happy Hour (TSOP/ICCP): On the Tuesday late afternoon, a Happy Hour will accompany an opportunity to view the posters that will be part of the technical aspect of the meeting. Drinks and finger food will be served and there will be sufficient opportunity to chat with authors about their poster displays.

Conference Dinner: A conference dinner has been finalized at the nearby Sambuca Café, a couple blocks walk from The Magnolia Hotel, located in the historic Rice Hotel. The Sambuca Café is well-known for its vibrant music scene and excellent food. The evening will include two free drinks, appetizers, and a three-course meal in a designer atmosphere, with live music for your listening enjoyment. Our special events area will allow access to an outdoor patio to allow for quiet conversation. The conference dinner will be US\$75 per person.

Thursday PM Happy Hour (AASP/ICCP): A Thursday late afternoon Happy Hour will allow folks to enjoy the AASP poster sessions as part of the technical aspect of the meeting. Drinks and finger food will be served and folks will be encouraged to mingle with the authors and discuss their poster displays.

In addition to all these events, attendees will have sufficient opportunity to enjoy the Houston downtown with its numerous world-class restaurants, and abundant drinking establishments.

SOCIETY BOARD MEETINGS

Along with the technical and social activities, the respective Societies will have their necessary Board of Directors meetings, and Business Luncheons. The current schedule includes:

ICCP Council Meeting:	Sunday	September 18th	16:00-21:00
TSOP Council Meeting:	Sunday	September 18th	17:30-21:00
TSOP/ICCP Business Luncheon:	Tuesday	September 20th	12:00-14:00
TSOP Council Meeting:	Tuesday	September 20th	19:00-21:00
AASP-TPS Outgoing Board Meeting:	Tuesday	September 20th	19:00-22:00
ICCP Council Meeting:	Thursday	September 22nd	18:00-21:00
AASP-TPS Business Luncheon:	Friday	September 23rd	11:30-13:30
AASP-TPS Incoming Board Meeting:	Friday	September 23rd	17:00-18:30

TRANSPORTATION AND ACCOMMODATIONS

Houston is a significant transportation hub and the Intercontinental Airport (IAH) is serviced by all major airlines from Europe and Asia. Both airports (IAH and HOU) are serviced by the major US-based airlines: IAH is a major hub for United Airlines, and HOU is a major hub for Southwest Airlines. All the major American airlines (e.g. Delta and American) fly into IAH numerous times through the day. All major European, Asian and Middle East airlines (e.g. KLM, British Airways, Air France, Lufthansa, Singapore, Korean Air, JAL, Emirates, and Qatar Airways) fly once a day in and out of IAH. Transportation to and from the downtown area from both airports is available via taxi, shuttle, and MetroBus. Further information on fares and routes from the two airports will be distributed in later circulars.

The Magnolia Hotel: Our current negotiated room rate at The Magnolia hotel is US\$179/night (single occupancy). Double- and triple- occupancy will be priced accordingly. This room-rate includes:

- a. FREE in-hotel/in-room Wifi
- b. Complimentary hot breakfast
- c. Late afternoon happy hour (complimentary beer/wine)
- d. Complimentary evening cookie buffet
- e. Reduced valet parking fees

We will be setting website registration with The Magnolia Hotel in the very near future. Further details on hotel accommodations can be found at the hotel website, <http://magnoliahotels.com/houston/magnolia-hotel-houston.php>. We will alert everyone when the accommodations website is ready.

Alternative Accommodation: A listing of alternative hotels in the downtown area will be made available upon request.

ORGANIZING COMMITTEE

The local Organizing Committee consists of Thomas Demchuk (RPS), Jen O'Keefe (Morehead State U.), Thomas Gentzis (Core Laboratories) and Joe Curiale (Independent). Over the next several months as the technical and social programs are finalized, we will do our best to keep the societies and membership informed of new events, the associated costs, and deadlines. We look forward to a great joint meeting in September of 2016.

If you should have any questions regarding the meeting, you may send an e-mail to tdemchuk@swbell.net

**THE 50TH ANNUAL MEETING OF
AASP – THE PALYNOLOGICAL SOCIETY
~THE GOLDEN ANNIVERSARY MEETING~
HELD JOINTLY WITH CIMP AND THE MICROPALAEONTOLOGICAL
SOCIETY PALYNOLOGY GROUP
NOTTINGHAM, UK – 3rd–7th SEPTEMBER 2017**

Convenors:

James B. Riding (BGS)

Jan A.I. Hennissen (BGS)

Maria Wilson (BGS)

Matthew J. Pound (Northumbria University, representing TMS)

Reed Wicander (CMU, Mount Pleasant, USA, representing CIMP)



**AASP-THE PALYNOLOGICAL SOCIETY
50th ANNUAL MEETING**

Nottingham 2017

FIRST CIRCULAR

The 50th annual meeting of AASP – The Palynological Society will be held at the British Geological Survey (BGS), Keyworth, Nottingham NG12 5GG between the 3rd and 7th of September 2017. This will be the seventh time our yearly meeting has been held in Europe, and only the third occasion it has been in the UK. This conference is to be held jointly with CIMP and The Micropalaeontological Society (TMS) Palynology Group. The team of convenors look forward to welcoming you to the headquarters of BGS for this three-day meeting with the opportunity to participate in two one-day field trips to widely geologically contrasting areas of the East Midlands of England. We hope to make this annual meeting extra special because it is the 50th such event! This announcement is the first one, and the convenors will begin planning in earnest during early 2016. The basic plan is detailed below; the fine details will be fleshed out during the months to come. We intend to offer participants a designated conference hotel in central Nottingham. Other accommodation, of course, will be in plentiful supply. BGS HQ is located at Keyworth which is ca. 7 km south of downtown so we will run a return bus service each day so that delegates can travel easily between the conference hotel and the BGS office. Other public transport solutions are also available! Morning tea, lunch and afternoon coffee will be all included in the registration package.

Delegates have the opportunity of going on a one-day pre-conference field excursion to the stunning Peak District of Derbyshire to examine Carboniferous carbonate and siliciclastic sedimentary rocks on Sunday 3rd September. The icebreaker will be held on that evening. We intend to hold the now-traditional AASP-TPS business evening at a suitable venue in central Nottingham on Monday 4th September. The conference dinner will be on Tuesday 5th September, and we hope to book the Long Room at the legendary Trent Bridge cricket ground immediately south of downtown Nottingham. Trent Bridge is widely held to be the most beautiful of all our cricket stadia, and has witnessed many famous tussles between England and our distinguished pantheon of cricketing adversaries from around the world.

No specific social event is (at this stage) planned for the evening of Wednesday 6th September, which is when the conference proper closes. There will be a post-conference field trip to Bradgate Park in Leicestershire on Thursday 7th September where you will have the opportunity to hunt for (but not collect!) Ediacaran fossils. You will see the site where the very first representative of this world famous biota was discovered in the early 1960s.

Please put September 3rd–7th September 2017 in your calendars for AASP 2017. Subsequent circulars will provide details of the conference hotel, registration, scientific programme etc. If you would like to offer any workshops, offer sponsorship etc., please get in touch.

We hope to welcome you to Keyworth for the golden anniversary meeting in 2017!

Jim Riding (on behalf of the organising committee)

Conference plan:

Saturday 2nd September 2017 – arrival in the Nottingham area

Sunday 3rd September 2017 – pre-conference field trip to the Peak District of Derbyshire (Carboniferous sedimentary and igneous) rocks]/arrival/icebreaker at the conference hotel

Monday 4th September 2017 – Day 1 of conference – evening activity = AASP-TPS informal business evening; venue to be decided

Tuesday 5th September 2017 – Day 2 of conference – evening activity = conference dinner (planned to be) at Trent Bridge Cricket Ground possibly with guest speaker(s)

Wednesday 6th September 2017 – Day 3 of conference followed by a free evening in Nottingham’s glittering downtown area

Thursday 7th September 2017 - post-conference fieldtrip to Bradgate Park, Charnwood Forest, Leicestershire [Precambrian metasediments, Ediacaran fossils, and some younger rocks]/departure

Friday 8th September 2017 - departure



The BGS Rock Walk. Photo courtesy of James Riding.



The Congress (<http://icpsg.com/>) is organized jointly by the **Department of Physics and Geology (University of Perugia, Italy)** and **Arianzamin Pars Geological Center of Teheran, Iran**. It will be addressed to promote interdisciplinary approaches, to make the state-of-the-art and to expand the knowledge on the Palaeozoic Gondwana realm. The Congress aims to provide an opportunity for constructive interactions between academia and industry in exchanging ideas, perspectives and challenges.

Venue

Perugia is a charming and historically important city in central Italy with an international vocation as venue for major meetings. It is a cultural center known from many centuries and home to many creative spirits in the fields of science, music and art. Attendants to the Congress will enjoy the beauty of Italian architecture during early spring days, and have a taste of the large variety of the excellent food and wines the region is famous for.

Perugia amalgamates all the advantages of a small city with the facilities and services usually found in much larger cities! It provides a unique environment to meet colleagues in a relaxing atmosphere.

On behalf of the Organizing Committee, we look forward to introduce you to Perugia. We are sure the city will offer the ideal place to discuss cutting-edge geology, stratigraphy and oil exploration, as well as to explore new scientific frontiers that are relevant to the various societal challenges facing the 21st century.



courtesy of Christian Brenci

The conference will host the:

International Workshop on PALAEOZOIC SMALLER FORAMINIFERA

Organizers: Daniel Vachard (President; University of Lille, France), Demir Altiner (Middle East Technical University, Ankara, Turkey); Roberto Rettori (University of Perugia, Italy).

The workshop will be held on April 13rd in a pre-Congress session. Topics will focus on taxonomy, biostratigraphy, evolution and palaeobiogeography of Palaeozoic Smaller Foraminifera. The contributions will be published in the “Rivista Italiana di Paleontologia e Stratigrafia” (ISSN:0035-6883; IF: 0.93) after peer review.

CIMP “Commission Internationale Microflore Paléozoïque” Special Session

Organizer: Amalia Spina (Department of Physics and Geology, University of Perugia).

This session will be held on April 15th. Topics will focus on taxonomy, biostratigraphy and palaeogeographic distribution of Palaeozoic Palynomorphs.

Preliminary schedule

April 13 rd 2016	
From 16:00	Registration
From 18:00	Icebreaker Party at Hotel Giò
April 14 th 2016	
09.00-10.00	Opening session
10.00-10.45	Keynote lecture
11.00-11.30	Coffee break
11.30-13.00	Scientific session
13.00-14.00	Lunch
14.00-16.00	Scientific session
16.00-16.30	Coffee break
16.30-18.00	Scientific session
April 15 th 2016	
09.00-11.00	Scientific session
11.00-11.30	Coffee break
11.30-13.00	Scientific session
13.00-14.00	Lunch
14.00-16.00	Scientific session
16.00-16.30	Coffee break
16.30-18.00	Scientific session
20:00	Social dinner
April 16 th 2016	
09.00-11.00	Scientific session
11.00-11.30	Coffee break
11.30-13.00	Scientific session
13.00-14.00	Lunch
14.00-16.00	Scientific session
16.00-16.30	Coffee break
16.30-17.00	Closing ceremony

The program will be constantly updated. The final schedule will be published on the Conference website in early March 2016.

Congress Location

The Congress will be held at **Hotel Giò – Perugia Congress Centre**. With its 206 rooms, 26 meeting rooms and Auditorium seating for up to 700 places, Hotel Giò proposes itself as a functional structure, reference point for the entire central part of Italy. Two halls with areas expressly devoted to informal meeting, living bar for aperitif and coffee break and comfortable working and reading corners will be available.

Language of the Congress

English will be the official language of the meeting. No translation facilities will be available.

Access

Perugia is not far from Rome, Pisa and Florence and can be easily reached from these three cities by train, bus or car.

- The major international gateway is Rome's Airport "Leonardo da Vinci", known as Fiumicino (FCO) (30 km/19 mi southwest of Rome, phone: (+39)0665951; www.adr.it).
- Pisa's Airport "Galileo Galilei" (PSA) (12 km/7 mi south of Pisa and 80 km/50 mi west of Florence, phone: (+39)050500707; www.pisa-airport.com) has flights from London, Amsterdam, Brussels, Paris and other European cities, as well as connections to Rome and Milan.
- Florence's Airport "A. Vespucci", known as Peretola (FLR) (10 km/6 mi northwest of Florence, phone: (+39)0553061700; www.aeroporto.firenze.it), has connections to Brussels, Paris, London, Rome, and Milan.

Flying time is approximately 9 hours from New York, 11 hours from Chicago, 12 hours from Dallas (via New York), 12 hours from Los Angeles, 2 hours from London (to Milan), and 24 hours from Sydney.

The solution that we suggest to you to reach Perugia by air is to land to Rome and to continue for Perugia with bus or by train.

Daily bus connections (www.sulga.it) are from Roma Fiumicino Airport (International Departure Terminal "C") and Perugia (Ple Partigiani).

Several trains daily connect Perugia with both Florence (via Terontola) and Rome (via Foligno or via Terontola). For the timetable and information please visit the website www.trenitalia.com.

Local Airport

Perugia's Airport "Sant'Egidio" (PEG) (phone: (+39)075592141) has flights to and from Rome, Munich, London, Bruxelles, Barcelona and other European cities. For information about Perugia's Airport Sant'Egidio please visit the Airport website (www.airport.umbria.it).

Accommodation

Hotel Giò is a unique building with 206 rooms, divided into two thematic areas. These areas are linked by a musical arcade with secluded listening points and peculiar Business Cellar with Internet Positions. Free Wi-Fi is available in the whole Hotel. Parking and Garage are free for the Guests. Moreover, Perugia and its vicinity have over 5000 rooms in more than 90 hotels. Many hotel rooms at different levels have been already blocked in order to secure the best rates. Lodging in student housing of the University can also be available.

Registration Fees

The registration fees which includes opening ice-breaker, coffee breaks and lunch packages are as follows:

	Until November 30 th	Until February 28 th	On site
Regular participant	300 €	400 €	550 €
Student participant	200 €	250 €	300 €
Accompanying person	150 €	200 €	250 €

Key Dates

November 30th 2015 – Deadline for an ‘early-bird’ (low) registration fee

November 30th 2015 – Deadline for abstract submission (talks and posters)

February 1st 2016 – acceptance of abstracts for oral or poster presentation

March 31st 2016 – deadline for regular (full) registration fee

March 2016 – distribution of the 3rd Circular with final programme

Scientific and Organizing Coordinators

Roberto Rettori

Mansour Ghorbani

e-mail: comitato.gondwana@unipg.it

Organizing Committee

Roberto Rettori (University of Perugia, Italy)

Simonetta Cirilli (University of Perugia, Italy)

Caterina Petrillo (University of Perugia, Italy)

Mansour Ghorbani (Arianzamin, Iran)

Enrico Capezzuoli (University of Perugia, Italy)

Marco Cherin (University of Perugia, Italy)

Amalia Spina (University of Perugia, Italy)

Lucia Angiolini (University of Milano, Italy)

Anoshiravan Kani (Arianzamin, Iran)

Scientific Committee

Demir Altiner (Middle East Technical University, Ankara, Turkey)

Marco Balini (University of Milano, Italy)

Sveva Corrado (University of Roma Tre, Italy)

Jalil Ghalamghash (Geological Survey of Iran)

Hormoz Ghalavand (NIOC, Iran)

Bahaeddin Hamdi (Arianzamin, Iran)

Rossana Martini (University of Geneva, Switzerland)

Shuzhong Shen (Nanjing Institute of Geology and Paleontology, China)

Bahman Soleimani (NIOC, Iran)

Michael Stephenson (British Geological Survey)

Alireza Tahmasebi (NIOC, Iran)

Andrea Zanchi (University of Milano Bicocca, Italy)

More information are available in the Congress website (<http://icpsg.com/>).

Looking forward to seeing you in Perugia!



Dino11 FIRST CIRCULAR

11th INTERNATIONAL CONFERENCE ON MODERN
AND FOSSIL DINOFLAGELLATES

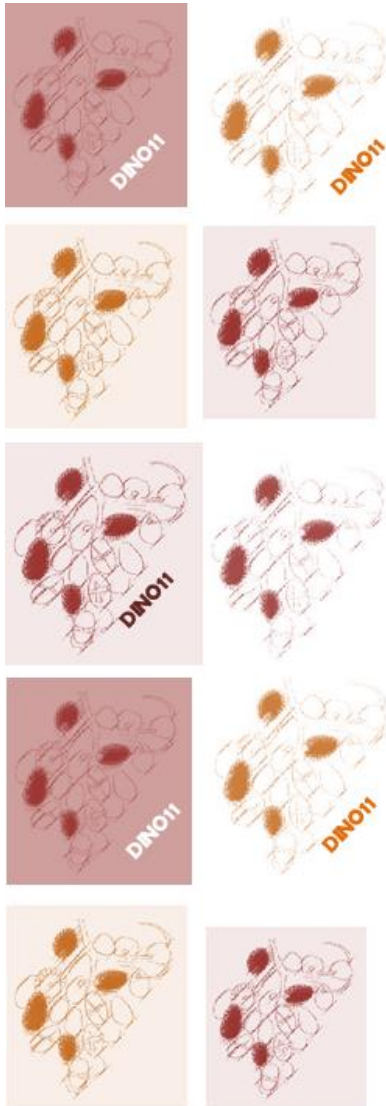
17 to 21 July 2017, Bordeaux (France)



Visit our web page: <http://laplf.org/dino11/news.htm>

E-mail: dino11@mail.epoc.u-bordeaux1.fr

Organization Committee



Local organization (Laboratoire EPOC, Université de Bordeaux, <http://www.epoc.u-bordeaux.fr>):

Frédérique Eynaud, Laurent Londeix (paleoclimatology team/ biostratigraphy and paleobiodiversity), **Yolanda Del Amo** (Ecology and Biogeochemistry of Coastal Systems), with assistance from **Marie-Hélène Castera, Linda Rossignol** and **Ludovic Devaux**

Honorary president: Jean-Louis Turon

French partners:

- **Nicolas Chomerat** (IFREMER, Station de Biologie Marine de Concarneau, BP 40537, F-29185 Concarneau Cedex)
- **Mohamed Laabir** (Center for Marine Biodiversity, Exploitation and Conservation (MARBEC), Université de Montpellier, 34095 Montpellier Cedex 5)
- **Rodolphe Lemée** (Observatoire Océanologique de Villefranche sur mer, Université Pierre et Marie Curie, Laboratoire d'Océanographie de Villefranche, CNRS UMR 7093 -BP 28, 06234 Villefranche-sur-mer)
- **Edwige Masure** (UMR CNRS/MNHN/UPMC 7207 Centre de recherche sur la paléobiodiversité et les paléoenvironnements, Université Pierre et Marie Curie)
- **Kenneth Neil Mertens** (IFREMER, Station de Biologie Marine de Concarneau, BP 40537, F-29185 Concarneau Cedex)
- **Daniel Michoux** (Centre Scientifique et Technique Jean-Féger, TOTAL, Pau)
- **Aurélie Penaud** (Laboratoire Domaines Océaniques (LDO), IUEM, Place Nicolas Copernic, Technopôle Brest-Iroise, Université de Bretagne Occidentale, 29280 Plouzané)
- **Thomas Servais** (UMR 8198 Evo-Eco-Paleo, Université de Lille)
- **Raffaele Siano** (IFREMER - Centre de BREST - Dyneco-Pelagos BP70 CS29280 Plouzané)

Preliminary program / Scientific committee

Six sessions are planned equally for **Modern dinoflagellate** and **Fossil dinoflagellate** themes (see below).

Sessions will be led by scientific committee teams gathering members from the local organization, French partners and international specialists.

1. MODERN DINOFLAGELLATES

1.1. Biodiversity and systematics

SC : *Lemée Rodolphe & Raffaele Siano* (from the organization committee)

Mona Hoppenrath (German Centre for Marine Biodiversity Research, Wilhelmshaven, Germany)

Jane Lewis (School of Life Sciences, University of Westminster, UK)

Antonella Penna (Lab. of Environmental Biology, University of Urbino, Italy)

1.2. Dinoflagellate life cycles and nutritional strategies

SC : *Don Anderson* (Woods Hole Oceanographic Institution, Woods Hole, MA, USA)

Charles Delwiche (Department of Biology, University of Maryland, USA)

1.3. Dinoflagellate ecology

SC : *Yolanda del Amo* (from the organization committee)

Elisa Berdalet (Institut de Ciències del Mar (CSIC) de Barcelona, Spain)

Kazumi Matsuoka (Institute for East China Sea Research, Nagasaki University, Japan)

Don Anderson (Woods Hole Oceanographic Institution, Woods Hole, MA, USA)

Sofia Ribeiro (Geological Survey of Denmark and Greenland – GEUS, Denmark)

1.4. Toxic dinoflagellates: from cells to cysts

SC : *Mohamed Laabir* (from the organization committee)

Marianne Ellegaard (Department of Biology, University of Copenhagen, Denmark)

Kazumi Matsuoka (Institute for East China Sea Research, Nagasaki University, Japan)

André Rochon (Institut des sciences de la mer de Rimouski - ISMER, Université du Québec à Rimouski, Canada)

1.5. Marine to freshwater transition and gradient in the dino world

SC : *Martin J. Head* (Department of Earth Sciences, Brock University, Canada),

Susan Carty (Heidelberg University in Tiffin, Ohio, USA)

1.6. From theca to cyst: modern dinoflagellates as a sedimentary component

SC : *Kenneth Neil Mertens* (from the organization committee)

Vera Pospelova (School of Earth and Ocean Sciences, University of Victoria, Canada)

2. FOSSIL DINOFLAGELLATES

2.1 Neogene to modern dinocysts in palaeoceanographic studies

SC : *Aurélie Penaud* (from the organization committee)

Stijn De Schepper (Uni Research Climate and Bjerknes Centre for Climate Research, Bergen, Norway)

Fabienne Marret-Davies (School of Environmental Sciences, University of Liverpool, UK)

2.2. Mesozoic and Cenozoic dinocyst stratigraphies

SC : **Edwige Masure & Daniel Michoux** (from the organization committee)

James B. Riding (British Geological Survey, Keyworth, UK)

2.3. Phanerozoic and deep time scales

SC : **Thomas Servais** (from the organization committee)

Jörg Pross (Paleoenvironmental Dynamics Group, Institute of Earth Sciences, Heidelberg University, Germany)

Appy Sluijs (Marine Palynology and Paleoceanography, Laboratory of Palaeobotany and Palynology, Dept. of Earth Sciences, Faculty Geosciences, Utrecht University, Netherlands)

2.4. Dinocyst systematics

SC : **Martin J. Head** (Department of Earth Sciences, Brock University, Canada)

Marianne Ellegaard (Department of Biology, University of Copenhagen, Denmark)

2.5. Dinocyst chemistry and preservation / carbon cycles

SC : **Gerard Versteegh** (Alfred Wegener Institute, Bremerhaven, Germany; MARUM, Bremen University, Germany)

Kara Bogus (International Ocean Discovery Program, Texas A&M University, USA)

Stephen Louwye (Ghent University, Belgium)

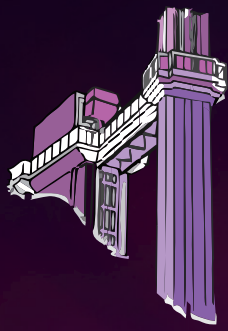
2.6. Integrated studies derived from dinos: recent past to modern scales

SC : **Anne de Vernal**, (GEOTOP, Université du Québec à Montréal, Canada)

Marit-Solveig Seidenkrantz (Aarhus University, Denmark)

Karin Zonneveld (Department of Historical Geology/Palaeontology, University of Bremen/MARUM, Germany)

Additional workshops will be organized in parallel to the meeting: any proposals are welcome (send an e-mail to dino11@mail.epoc.u-bordeaux1.fr)



XIV IPC
X IOPC

*Palaeobotany and Palynology:
towards new frontiers*

*XIV International Palynological Congress
X International Organisation of Palaeobotany Conference*

SALVADOR - BAHIA - BRAZIL

OCTOBER | 23 - 28 | 2016

FIRST CIRCULAR

Every four years the world community of palynologists and palaeobotanists are gathered to discuss the latest advances in their researches, and exchange technical developments. Hence, the meeting of these two communities will take place in Salvador de Bahia, Brazil. This will be the first time that both the XIV International Palynological Congress (IPC) and the X International Organisation of Palaeobotany Conference (IOPC) will gather together in a joint congress in the southern hemisphere. The joint event will be on 23-28 October 2016. It will be an excellent opportunity for Brazil, a country rich in plant fossil sites and boasts a highly diverse flora in the world, to host the leading experts in various disciplines and promote scientific innovations.

VENUE

Founded in 1549 by Portuguese navigators, Salvador is now the third largest city in Brazil, famous for its Carnival and its afro-Brazilian culture. Salvador is also the biggest black city out of Africa. It is rich in historical sites, which includes it to the UNESCO World Heritage List, especially the “Baía de Todos os Santos”.

The Elevator Lacerda was the first urban elevator in the world. It was built to connect two cities that existed (and exist) within the city of Salvador: the Lower Town and the Upper Town. Its choice is a reference to the theme of the event “Palaeobotany and Palynology: towards new frontiers” that is allusive to the role of Paleobotany and Palynology at the interface with new areas of knowledge. In addition, it is also a way to mark the presence of the two events together in a new land: Salvador, which has the Elevator Lacerda one of its main symbols.

The venue is situated in the beautiful beach of Salvador, and offers exceptional transport links by bus, which takes you to the city centre in just 15 minutes.

The congress sessions will be held in:

Bahia Othon Palace

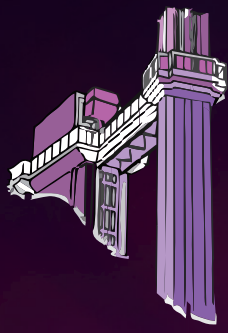
Av. Oceânica, 2294 – Ondina | Salvador - BA, 40170-010.

Phone: + 55 71 2103-7100



SYMPOSIA

A great diversity of palaeobotanical and palynological topics will be presented in symposia and poster sessions at the congress. The Organizing committee will accept symposium proposal (up to 31 October 2015), and after evaluation of Scientific Committee, the selected symposia will be presented for subscriptions. Fill in the form attached for proposing a symposium. Besides symposia, some general sections will be scheduled on many areas of Palaeobotany and Palynology (Morphology, Technique, Taxonomy, Applied Subjects and others).



XIV IPC X IOPC

Palaeobotany and Palynology:
towards new frontiers

XIV International Palynological Congress
X International Organisation of Palaeobotany Conference

SALVADOR - BAHIA - BRAZIL

OCTOBER | 23 - 28 | 2016

FIRST CIRCULAR

PROPOSED SCHEDULE

Timetable	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 to 10:30	Pre-Congress Courses	Registrations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations
10:30 to 11:00			Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00 to 13:00			Symposia and general presentations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations
13:00 to 14:30	Lunch		Lunch	Lunch	Lunch	Lunch	Lunch
14:30 to 16:30	Pre-Congress Courses	Registrations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations	Symposia and general presentations
16:30 to 17:00			Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
17:00 to 19:00			XIV IPC XIOPC Opening Ceremony	Oral and poster presentations	Oral and poster presentations	Oral and poster presentations	Oral and poster presentations
19:00 to 21:00			Cultural activities	Cultural activities	Cultural activities	Cultural activities	

FIELD TRIPS (POST CONGRESS):

- Baía de Todos os Santos (Bahia State) – one day
- Chapada Diamantina (Bahia State) – four days
- Chapada do Araripe (Bahia State) - five days
- Natural Monument of the fossilized Tocantins trees (Bielândia / Filadélfia, Tocantins State) – five days



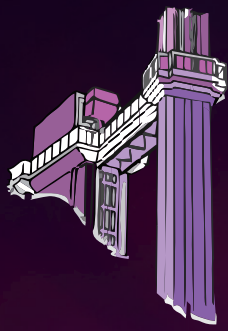
Baía de Todos os Santos



Chapada Diamantina



Natural Monument of the fossilized Tocantins trees



XIV IOPC X IOPC

Palaeobotany and Palynology:
towards new frontiers

XIV International Palynological Congress
X International Organisation of Palaeobotany Conference

SALVADOR - BAHIA - BRAZIL

OCTOBER | 23 - 28 | 2016

FIRST CIRCULAR

REGISTRATION FEES

The registration fee includes:

- Access to all congress sessions and the exhibition areas.
- Ice Breaker (Welcome reception).
- Congress documentation and abstracts volume.

Periods	Professional	Student*
Up to DEC.2015	R\$ 600,00	R\$ 450,00
JAN-MAR.2016	R\$ 800,00	R\$ 550,00
APR-SEP.2016	R\$ 1.000,00	R\$ 650,00
OCT.2016	R\$ 1.200,00	R\$ 750,00
Course fee – R\$ 100,00		

*Students must be enrolled in an educational (or scientific) institution (Please send an official proof of student status by email: inscricoes@gt5.com.br)

The Congress fee is mandatory for all attendees including speakers, presenters (oral and poster) and those chairing or attending a session.

There will be grants from IFPS and IOP for those professionals and student who will attend the congress. As soon as possible rules and directions will be released.

COMMITTEES

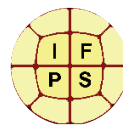
ORGANIZING COMMITTEE

- Francisco de Assis Ribeiro dos Santos, UEFS, President
- Cláudia Elena Carneiro, UEFS
- Francisco Hilder Magalhães e Silva, UNEB
- Jaílson Santos de Novais, UFSB
- Luciene Cristina Lima e Lima, UNEB
- Marileide Dias Saba, UNEB
- Paulino Pereira Oliveira, UEFS
- Ricardo Landim Bormann de Borges, UNEB
- Rita de Cássia Matos dos Santos Araújo, UNEB

SCIENTIFIC COMMITTEE

- Luciene Cristina Lima e Lima, UNEB, Coordinator
- Luciano Maurício Esteves, IBt/SP
- Paulo Eduardo de Oliveira, USP
- Roberto Ianuzzi, UFRGS
- Tânia Lindner Dutra, UNISINOS
- Vânia Gonçalves Lourenço Esteves, UFRJ/MN

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EXECUTIVE SECRETARY



+55 71 2102.6600
anapaulacarvalho@gt5.com.br
www.gt5.com.br