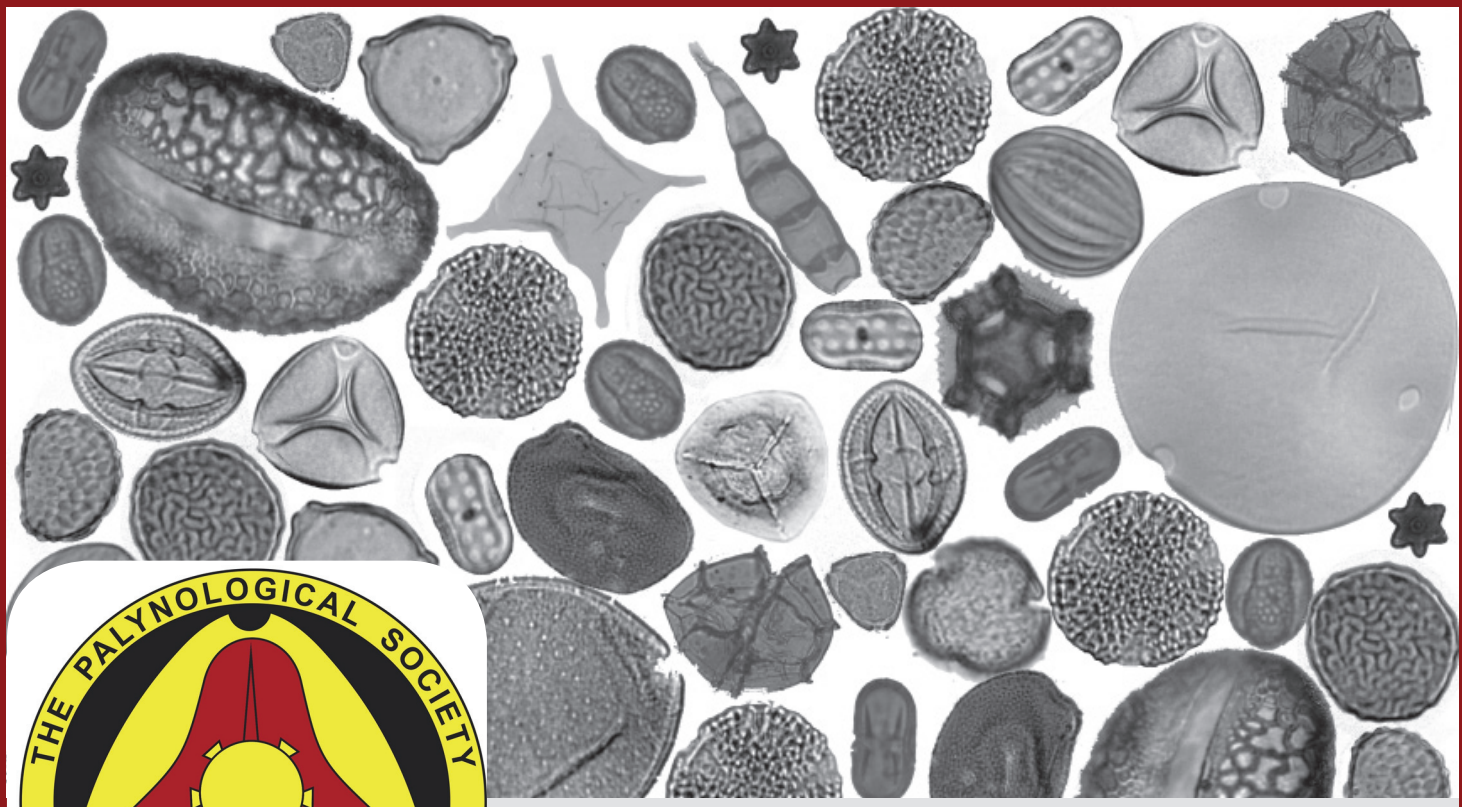
# AASP - The Palynological Society

Promoting the Scientific Understanding of Palynology since 1967



# Newsletter

June 2018
Volume 51, Number 2

Published Quarterly by AASP - The Palynological Society

# AASP-TPS NEWSLETTER

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June 2018
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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.

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)
Professor Svein B. Manum (awarded 2002)
Professor Barrie Dale (awarded 2004)
Dr. David Wall (awarded 2004)
Dr. Robin Helby (awarded 2005)
Dr. Satish K. Srivastava (awarded 2006)
Professor Estella B. Leopold (awarded 2013)
Professor Vaughn M. Bryant (awarded 2016)

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)
Dr. Robert T. Clarke (awarded 2002)
Professor Vaughn Bryant (awarded 2005)
Professor Alfred Traverse (awarded 2005)
Professor Bernard Owens (awarded 2011)
Dr. John E. Williams (awarded 2013)
Mr. Paul W. Nygreen (awarded 2013)
Professor Norman Norton (awarded 2016)

AASP Board of Directors Award recipient
Dr. Robert T. Clarke (awarded 1994)
Dr. Thomas D. Demchuk (awarded 2014)

Teaching medal recipients
Professor Aureal T. Cross (awarded 1999)
Professor Alfred Traverse (awarded 2001)
Professor Bill Evitt (awarded 2006)
Professor Vaughn M. Bryant (awarded 2013)
Professor Geoffrey Clayton (awarded 2016)

AASP Distinguished Service Award recipients
Dr. Robert T. Clarke (awarded 1978)
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)
Professor Fredrick Rich (awarded 2016)
Dr. James B. Riding (awarded 2016)

# AASP-TPS NEWSLETTER

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Jen O'Keefe, Editor
Gilda Lopes, Associate Editor




**To express interest in open correspondent positions, please send an email to: GILDALOPES@GMAIL.COM**


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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 August 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. ****Direct September Contributions to Gilda Lopes****

# A Message From Our President

Dear AASP members,

My third letter as AASP president is written from GEUS in Copenhagen, Denmark, where I am continuing my sabbatical. GEUS has several palynologists and it is a privilege to work in an active group with many colleagues interested in palynology! However, here also, as in most places around the world, there is a struggle to attract enough funding and to argue for the number of palynologists needed for the future. In this sense, AASP's mission is as important as ever, and we need to strengthen both our membership numbers and our message. It is clear that we must attract members from developing nations; we will therefore look into how other organizations handle membership fees as graduated dues for members from these nations.

Since my previous presidential letter, we held the mid-Year Board meeting at the Shell offices on April 16th in Houston, although the majority of participants took part via Skype. Technology sure is time-saving and benefits the climate as well! The agenda focused on the usual business of officer and standing committee reports, which all are important for the smooth functioning of the society. Beyond this were two very important topics: membership growth and engagement of young members.

I can say that, in general, the association is doing fine: the finances are good, mainly due to membership fees and *Palynology*, which you probably noticed, is running smoothly and continues to grow! Speaking of *Palynology*, don't you all like the new, blue cover with the Carboniferous spore *Reinschospora speciose*?

Membership growth and the attraction of new members will be discussed further in the outgoing board meeting in Calgary. A key discussion in April was how to engage younger and additional members in the associations' work. One solution that is being implemented is introducing a gradual replacement of members on the Awards Committee, rather than replacing members in "one go," as has happened in the past. This will help secure transfer of knowledge and experiences. Members of the Awards Committee will, therefore, going forward, serve for three years, beginning at the incoming board meeting at the Annual AASP-TPS meeting in 2018. One current member will be replaced each year (although a past member can be re-nominated). The Board appointed Niall Paterson as the new leader of the Awards Committee with effect at the Incoming Board Meeting in Calgary ,when he will no longer be on the AASP Board as a DAL. Among the four current members of the Awards Committee, Pi Suhr Willumsen will leave the committee (she was notified and thanked), while Martin Farley, Reed Wicander and Fred Rich will continue to serve. To codify this process for the future, some small changes to the by-laws have been proposed by the board; we plan to ratify them at the incoming meeting in Calgary, and post them in the September and December newsletters in advance of a society vote on the changes next summer.

I would like to take this opportunity to, in particular, thank Martin Farley for his superb work in heading the committee for the last 11 years (since 2007!). The Awards Committee is a crucial body within our organization and their work and efforts are important and therefore very much appreciated!

AASP-TPS's next important event is our annual election! Do not forget to vote for new members to our Board. It is a healthy sign for an organization that we take part in engaging members to actively serve in various ways. We should, therefore, enthusiastically take part and vote for our new Board Members! The election will run from June 10th through the 24th this year – you will be receiving a ballot email soon!  After this is our Annual Meeting in Calgary, and I expect to see most of you there! The Organizing committee have done a great job, so sign up for the meeting and the excursions!

~Gunn

# MANAGING EDITOR'S REPORT

As of mid-April 2018, the second part of Volume 42 of *Palynology* was published online, and the contents are reproduced below. This will be printed, together with part 1, later this month. It comprises nine research papers on very diverse topics, from the Neoproterozoic to the Holocene, but largely on modern pollen. I hope you like the light blue cover with its very striking stacked image of the Carboniferous spore *Reinschospora speciosa*. I have also finalised the contents of Part 3 (ten research articles), and the contents of this are reproduced below.

A Supplement to Volume 42 on the dinoflagellate genus *Spiniferites*, guest edited by Kenneth Mertens, will be published online later this year. Please note that this item will not will not be paper-printed.

I hope that you are all getting your copies of the journal and/or online access. If you are missing any copies of *Palynology*, or have lost your online access, please email myself and Secretary Steve Stukins (S.Stukins@nhm.ac.uk). Every paid up member has the right to access all the online content of *Palynology* and *Geoscience and Man*. If you need details of how to register for this, contact Steve and/or myself.

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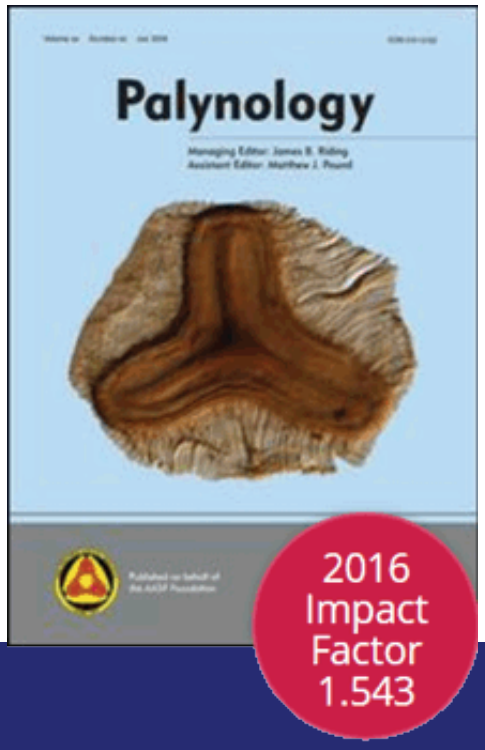
19th April 2018



**The contents of *Palynology* Volume 42, Part 2 (May 2018)**

**Papers to be published in *Palynology* Volume 42, Part 3 (August 2018)**

1. Du, T., Zhao, C. and Liu, J. The pollen of *Solanum* L. and its systematic significance.

2. Guimarães, J.T.F., Carreira, L.M.M., Alves, R., e Souza Filho, P.W.M., Giannini, T.C., Macambira, H.J., da Silva, E.F., Dias, A.C.R., da Silva, C.B., Romeiro, L. de A. and Rodrigues, T.M. Pollen morphology of the Poaceae: implications of the palynological and paleoecological records of the south-eastern Amazon in Brazil.

3. Julier, A.C.M., Jardine, P.E., Adu-Bredu, S., Coe, A.L., Duah-Gyamfi, A., Fraser, W.T., Lomax, B.H., Malhi, Y., Moore, S., Owusu-Afriyie, K. and Gosling, W.D. The modern pollen–vegetation relationships of a tropical forest–savannah mosaic landscape, Ghana, West Africa.

4. Bell, B.A., Bishop, T.H., Fletcher, W.J., Ryan, P. and Ilmen, R. *Cedrus atlantica* pollen morphology and investigation of grain size variability using laser diffraction granulometry.

5. Riding, J.B. and Head, M.J. Preparing photographic plates of palynomorphs in the digital age.

6. Nøhr-Hansen, H., Costa, L.I., Pearce, M.A. and Alsen, P. New Albian to Cenomanian (Cretaceous) dinoflagellate cyst taxa of ovoidinioid affinities from East Greenland, the Barents Sea and England.

7. Freitas, A.S., Vanderborght, B. and Barth, O.M. Pollen resources used by *Melipona quadrifasciata anthidioides* Lepeletier in an urban forest in Rio de Janeiro city, Brazil.

8. Pound, M., Dalgleish, A., McCoy, J. and Partington, J. Melissopalynology of honey from Ponteland, UK, shows the role of *Brassica napus* in supporting honey production in a suburban to rural setting.

9. Tripathi, S., Singh, Y.R., Nautiyal, C.M. and Thakur, B. Vegetation history, monsoonal fluctuations and anthropogenic impact during the last 2330 years from Loktak Lake (Ramsar site), Manipur, north-east India: a pollen based study.

10. Mejia-Velasquez, P.J., Manchester, S.R., Jaramillo, C.A., Quiroz, L. and Fortini, L. Floristic and climatic reconstructions of two Lower Cretaceous successions from Peru.

# 51st Annual Meeting of AASP - The Palynological Society joint with the Canadian Association of Palynologists (CAP) Annual General Meeting

*Calgary, Alberta, Canada*
August 5th - 10th, 2018

*Calgary, Alberta and Canadian Rocky Mountains - Calgary Tourism*

## Fourth Circular

Please join us for the 51st Annual Meeting of AASP -The Palynological Society in Calgary, Alberta, Canada this August. Calgary is ideally located between the Canadian Rocky Mountains and the Alberta Badlands, offering a plethora of potential extra curricular activities pre- and post meeting.

*Calgary Marriott Downtown Hotel*

*Calgary Marriott Downtown Hotel*

**VENUE**

The venue for this meeting is the recently renovated Calgary Marriott Downtown Hotel, boasting exceptional location with a stylish whisky bar (One18 Empire) featuring creative Canadian dining. The hotel is located adjacent to Stephen Avenue; a major pedestrian mall known for its restaurants, pubs, bars, cafes, shopping and entertainment venues. A block of rooms has been secured at the Marriott at a negotiated rate of $199 CAD/night + taxes. For bookings call the Marriott's central reservation number at 1.800.228.9290 or use the link provided on the conference web page (www.palynology.org/51st-annual-meeting-aasp-tps-joint-cap-calgary) under the "Venue" tab.

## TRANSPORTATION

Calgary is easily accessed by the Calgary International Airport (YYC) which is serviced by most major American and International airlines. Transportation to the hotel area from the airport is available via taxi, public transportation or airport shuttle (reservation required).

Public transportation, including light rapid transit, is available from the conference venue area. Visit www.calgarytransit.com for additional information.

**REGISTRATION RATES**
(in Canadian dollars)

| | ***Early Bird*** *(before June 1st)* | ***Regular*** *(June 1st onward)* | ***Single day rates*** |
|---|---|---|---|
| Student member | **$300** | $325 | $110 |
| Student non-member | **$340** | $375 | $130 |
| Professional member | **$400** | $445 | $150 |
| Professional non-member | **$470** | $525 | $180 |

**Abstract Deadline: May 31st, 2018**

**Please follow the template on the website and send submissions to Thomas Demchuk (tdemchuk@swbell.net)**

## TECHNICAL SESSIONS

In addition to offering general technical sessions, we have four proposed sessions/ symposia:

***Len Hills***

***Art Sweet***

- Special session in honour of Leonard (Len) V. Hills and Arthur (Art) R. Sweet on **Western Canadian Palynology and the Cretaceous Western Interior of North America**. Keynote: Dennis Braman.
- Symposium on **Canadian East Coast biostratigraphy and palynology** (including the Atlantic Margin). Keynote: Rob Fensome and Graham Williams.
- CAP special session: **From land to sea - innovative research by Canadian palynologists**.
- Theme session: **Applications of palynology to environmental science.**

**Visit**
**http://palynology.org/51st-annual-meeting-aasp-tps-joint-cap-calgary/**
**for additional details and to register**

## FIELD TRIPS

*Pre-meeting trip:*

**Alberta Badlands & Royal Tyrrell Museum (Drumheller, Alberta):** Cost: **$125 CAD** ($75 CAD for students)

This one day trip (Sunday, August 5th) features the Alberta Badlands, a landscape of coulees and hoodoos famous for rich deposits of fossils, including dinosaur bones which are showcased at the Royal Tyrrell Museum of Paleontology. We will be visiting this world-class museum for a behind the scenes tour and gallery viewing. Lunch at the remote and rustic Last Chance Saloon in Wayne, AB and stops at the Willow Creek Hoodoos and Horseshoe Canyon are scheduled for the afternoon.

Maximum participants: 45

***Alberta Badlands near Drumheller***


***Royal Tyrrell Museum of Paleontology***

*Post-meeting trips:*

**Canadian Rocky Mountains (Banff, Alberta)** Cost: **$150 CAD** ($100 CAD for students)

This one day field trip (Thursday, August 9th) features local geology and paleontology west of Calgary in the Rocky Mountain Front and Main ranges, including Banff National Park. This trip will conclude with a dining experience in Banff before returning to Calgary in the evening.

Maximum participants: 12

***Canadian Rocky Mountains, Banff National Park***

(field trips continued on next page)

**Visit http://palynology.org/51st-annual-meeting-aasp-tps-joint-cap-calgary/ for additional details and to register**

*Post-meeting trips (continued):*

**Burgess Shale & Canadian Rocky Mountains**
**(Banff, Alberta and Field, British Columbia)**

Cost: $**475 CAD** ($400 CAD for students)

We are offering a two day trip (Thursday, August 9th and Friday, August 10th) to visit both the Canadian Rocky Mountains and the Burgess Shale UNESCO World Heritage Site. The first day of the trip will be held in conjunction with the "Canadian Rocky Mountains" field trip (above), however, instead of returning to Calgary at the end of the first day, this trip involves an overnight stay in Field, BC at Truffle Pigs Lodge. The second day of the field trip features a strenuous 22 km (14 mile) round trip guided hike up to Walcott Quarry to see the famous Burgess Shale, containing exquisitely preserved 508 million year old fossils of soft-bodied marine animals.

***Walcott Quarry Hike - Burgess Shale Geoscience Foundation***

Maximum participants: 12

**TENTATIVE SCHEDULE**

*Sunday, August 5th:*
- One day Alberta Badlands & Royal Tyrrell Museum field trip (Drumheller, Alberta)
- Outgoing board meeting (6pm-9pm, Inglewood Boardroom @ Marriott Hotel)

*Monday, August 6th:*
- Technical Session (Sunalta Room @ Marriott Hotel)
- Icebreaker: Paly Patio Party (6pm-8pm @ Marriott's Roof Top Patio)

*Tuesday, August 7th:*
- Technical Session (Sunalta Room @ Marriott Hotel)
- CAP AGM (11:30am-1:30pm @ One18 Empire)
- Business & Beer Bash (7pm @ Last Best Brewing & Distilling) - tickets **$65 CAD** ($30 CAD for students)

*Wednesday, August 8th:*
- Technical Session (Sunalta Room @ Marriott Hotel)
- Incoming board meeting (4:30pm-7pm @ One18 Empire)

*Thursday, August 9th:*
- One day Canadian Rocky Mountains field trip (Banff, Alberta)
- First day of Burgess Shale & Canadian Rocky Mountains field trip (Banff, Alberta) -

*Friday, August 10th:*
- Second day of Burgess Shale & Canadian Rocky Mountains field trip (Field, British Columbia)

**Organizing Committee:**

Kimberley Bell (kmball@ucalgary.ca) and Thomas Demchuk (tdemchuk@swbell.net)

# Student Awards For Travel to the Annual Meeting in Calgary

AASP-TPS will support travel for students presenting at the Annual Meeting in Calgary.

The amount of funding awarded for the travel award is variable based on need. The committee has been allotted $1500 to divide among successful applicants.

The application **MUST** include the following:

1) one paragraph justification for the request plus a description of the research to be presented (plus the abstract submitted for the presentation)
2) outline of the requested amount and how the funds would be used;
3) applicant's email and postal addresses;
4) a photograph of the applicant;
5) all of these to be forwarded by the applicant's advisor who includes a brief explanation of how attendance at the Annual Meeting will benefit the student.

Travel Grant Applications are due on **June 1, 2018.**

Travel Grant Applications should be submitted to the chair of the awards committee who will make recommendations after consultation with the committee:

Martin B. Farley
mbfarley@sigmaxi.net
Geology, Old Main 213
University of North Carolina at Pembroke
Pembroke, NC 28372

The justification for the request plus description of the research and photograph of successful applicants will be forwarded to the Newsletter Editor for inclusion in the September 2018 Newsletter.

# Congratulations to Student Research Grant Award Winners!

## Eva Sirantoine

University of Western Australia, Perth, Australia

Biography:
I started my studies by completing a Bachelor of Science with a major in Geology at the École Normale Supérieure de Lyon, France, in 2013. Wanting to pursue a research career and having a very strong interest in Paleontology, I completed a Research Master in 2015, with a Geology major and a specialization in Paleontology, Sedimentology and Paleoenvironments. During this Master, I conducted research at the Australian National University in Canberra under the supervision of Ass. Prof. Jochen. J. Brocks, focusing on the presence, proportions and thermal maturity of Eukaryotic molecular fossils in the Visingsö Group of Sweden and the Buldya Group of Western Australia, both aged about 750 Ma. This lead to building robust skills and knowledge in organic geochemistry and to a presentation of the results at the International Goldschmidt Conference in August 2015. The following two years were dedicated to preparing and passing the 'agrégation' (a competitive exam for teaching in France) in Biology and Geology and teaching for a year in a senior high school in Lyon. However, teaching was not as exciting as research for me, and I started a PhD under the supervision of Ass. Prof. Martin Saunders, Dr. Daniel Peyrot and Dr. David Wacey at the University of Western Australia in September 2017. This current project focuses on the diversity and preservation of a lacustrine fossil assemblage from the early Neoproterozoic of Scotland.

Research: Diversity and preservation of a Neoproterozoic lacustrine microfossil assemblage.

In an attempt to resolve the question of the origin of Eukaryotes and the colonization of continents, many fossil assemblages have been described in the Proterozoic, but very few are of certain continental origin. This PhD project is therefore a unique opportunity to study Eukaryotic and Prokaryotic diversity and its preservation in a 1 Ga old continental unit: the Torridon Group of North-East Scotland. So far, a very well preserved palynoflora has been reported, but not extensively described. Producing a comprehensive taxonomic inventory by studying palynological slides and thin section slides is the first aim of my thesis. Since the fossils are organic-walled and preserved in three dimensions, I will also investigate their preservation and of the effect of acid maceration on the ultrastructure and content of the fossils. Thin section and palynological slides will be compared and observed at a micrometric scale using optical and electron microscopy. A particular focus will be on intracellular inclusions, their characterization, their preservation through acid maceration and their potential biological significance. Finally, the presence of molecular fossils will be investigated in order to build a picture of the diversity of this past ecosystem that is as comprehensive as possible. This project will bring a better understanding of the impact of micropaleontology techniques (optical and electron microscopy, acid maceration) on preserved fine structures and of the early evolution of Eukaryotes.

## Erica Mariani

University of Exeter, Penryn, UK

Biography:
I was introduced to micropalaeontology and palaeoclimatology during an undergraduate palaeontology class in 2010 at the University of Pavia, Italy. I soon became completely fascinated by these subjects and their applications, hence I nurtured my passion throughout my entire University career. In 2014, under the guidance of Professor Miriam Cobianchi, my deep interest in micropalaeontology eventually developed into a Bachelor's project focused on the palaeoenvironmental significance of Pleistocene planktonic foraminifera. Two years later I was involved in a research project on Cretaceous calcareous nannofossils from the Tethyan carbonate platform basin system, which resulted in an Honours project aimed to reconstruct the evolution of the platform with relation to climatic and sedimentological processes. My first engagement with palynology was in 2017, when I had the pleasure to be trained for four months at the British Geological Survey by Dr. James Riding. During the training, it became clear to me that I was eager to pursue further studies on this subject. I therefore applied to the PhD project I am currently working on under the supervision of Dr. Sev Kender, Dr. Kate Littler, Prof. Stephen Hesselbo, Dr. James Riding, Prof. Melanie Leng, Dr. Karen Dybkjær and Dr. Gunver Pedersen.

Research: Oceanographic and vegetation changes across the Palaeocene–Eocene Thermal Maximum in NW Europe and the Arctic

My research focuses on the Palaeocene-Eocene Thermal Maximum (PETM), which was a period of extreme global warming that occurred around 55.5 million years ago and is considered one of the best analogues for future climate change. The aim of my research is to develop a comprehensive regional reconstruction of vegetation and oceanographic changes across the PETM at high latitudes, particularly in the North Sea and the Arctic. The study is therefore based on a multi proxy approach including, but not limited to, geochemical, isotopic, XRF, SEM and sedimentological analysis. Nevertheless, the main component of the research relies on palynomorphs: the vegetation changes will be inferred through abundance and diversity shifts of pollen and spores, and dinoflagellate cysts will help explore palaeoceanography in terms of salinity, productivity and water stratification. My investigation, by shedding light on the PETM, will ultimately provide high resolution data valuable for future biotic and climatic modelling.

# Southern Africa – a Forgotten El Dorado of Palynology

Southern Africa is rich in energy and mineral resources and mainly associated with mining and hard rock geology. However, palynological research has been done in many countries from the 1970s to 1990s with a focus on coal and oil and gas exploration. Indeed, Karoo-aged basins as well as Mesozoic rift-related basins of southern Africa are treasure chambers of late Palaeozoic–Mesozoic palynology and recently palynologists based in Europe and the US looked again into these basins where current coal and shale gas exploration made new completely cored boreholes available to study. The focus is on basin-wide correlation and palaeoclimate reconstruction, where coals and black shales, but also organic-rich lake deposits open a window to southwestern Gondwana's postglacial climate history.

With a new interest in carbon capture and storage (CCS) in Mesozoic onshore basins, a stratigraphic revision of completely cored boreholes of the SOEKOR hydrocarbon exploration programmes between 1964 and 1978 is urgently required and again palynology is the main stratigraphic tool.

Only a few palynologists were trained in South Africa in the past years and all went to Australia, the US and Europe to continue their professional careers as palynologists although the need of palynologists in southern Africa is very obvious. The Shell-sponsored lecture series in palynology held at Rhodes University and at the University of Pretoria showed the huge interest of undergrad and postgrad students to pursue an academic or industral career as palynologist. However, geology and palaeontology university curricula lack courses in palynology, the focus is on hard rock geology and vertebrate palaeontology.

AASP is the right platform to support universities in countries like Mozambique, Botswana, and Tanzania to educate and train a new generation of palynologists. Short courses of AASP members who are working on southern African palynology can provide a first step to engage with universities and students in these countries. An informal southern African working group within AASP would help to coordinate such activities and establish future collaborations with universities across the southern African continent. I would like to invite those of you interested in supporting this endeavour to have a short meeting over a cup of coffee or a beer at the Calgary annual meeting in August.

See you all there – it is time for southern Africa!

Annette E. Götz, Portsmouth

# News from the Nordic Countries

Image courtesy of the Geological Society of Denmark: https://2dgf.dk/foreningen/33rd-nordic-geological-winter-meeting/

The most recent of the Nordic Geological Winter Meetings took place in January 2018 at the Technical University of Denmark (DTU) in Copenhagen, Denmark. The 33rd edition attracted over 600 researchers from all over the world. There were many interesting presentations dealing with palynology on the agenda. Sofie Lindström gave two talks. One of them was about the biostratigraphy based on ammonites and palynology as well as the organic $\delta^{13}C$-isotope record from the Triassic of the Wandel Sea, North Greenland. The second talk was about the environmental and ecosystems responses to massive volcanism during the end-Triassic mass extinction. Henrik Nøhr-Hansen presented a new biostratigraphic framework for the Cretaceous to Cenozoic strata of the Labrador Sea – Davis Strait – Baffin Bay region and the first broad biostratigraphic correlation of the Canadian and Greenland margins based on dinocyst assemblages. A poster presentation was given by Suzanne Pultz, who presented preliminary results of her Master thesis dealing with the palynology and oxygen isotopes from the Middle Jurassic in Europe.

Last winter was also the time when several studies improving the stratigraphy of the high arctic were published. An interesting article on the Triassic palynology from the southern Barents Sea was published by Niall Paterson and Gunn Mangerud in Marine and Petroleum Geology (https://doi.org/10.1016/j.marpetgeo.2017.05.033). The authors provided eleven informal palynological zones covering the Kobbe, Snadd and Fruholmen formations. New dinocyst data from the Lower Cretaceous from Svalbard and the Barents Sea can be found in a series of publications prepared by a group of researchers involved in the recently completed LoCrA consortium project (http://locra.ux.uis.no/). The three newest papers include work by Grundvåg et al. (2017) (https://doi.org/10.1016/j.marpetgeo.2017.06.036 ), Marin et al. (2018) (https://doi.org/10.1016/j.marpetgeo.2018.04.009) and Kairanow et al. (2018) (https://doi.org/10.1016/j.jog.2018.02.009).

At the end of 2016, the Collegium Palynologicum Scandinavicum (CPS) held elections for board members. Karen Dybkjær, who for over 14 years did a great job as a board member of CPS and as a editorial board member of GRANA, decided not to run for re-election. The new appointed board member was Kasia K. Śliwińska from the Geological Survey of Denmark and Greenland. The September 2017 CPS board meeting took place at the Natural History Museum in Stockholm. One of the important aspects of every board meeting of CPS is to discuss the status of GRANA, an international journal of palynology and aerobiology. The journal is published by Taylor & Francis under the auspices of the CPS in affiliation with the International Association for Aerobiology (IAA). In July 2017, Sam Slater become a new technical editor for the journal. He took over the position after Christian Pott. CPS is happy to announce that the most recent impact factor for GRANA is 1.085, which is the highest in the history of the journal!

CPS will hold it next meeting during the European Palaeobotanical Palynological Conference (EPPC) in Dublin, on Wednesday, August 15, 2018. Earlier this year, after serving faithfully for 16 years as a member of CPS and the editorial board of GRANA, Heikki Tapani Seppä decided to step down from the board. Also, Friðgeir Grímsson withdrew from the position as a CPS board suppleant. Therefore, during the coming member meeting CPS will hold supplementary elections. The candidate for new board member is Dr. Niina Kuosmanen from Czech University of Life Sciences. The CPS board is looking forward to seeing all of the CPS members in Dublin!

Kasia K. Śliwińska
Postdoctoral researcher
Geological Survey of Denmark and Greenland (GEUS)
Copenhagen, Denmark

# Correspondents Wanted!

Not sure that you want to run for office but want to help the society? Become a newsletter correspondent, either formally or informally! We welcome student and professional news, book reviews, reports on meetings, workshops, etc. Submissions are due on November 15, February 15, May 15, and August 15, annually.

Current vacancies include:

- Book Review Editor
- India Correspondent
- East Asia Correspondent
- Australia Correspondent
- South America Correspondent

Our newsletter is only as good as the news we recieve. Please stay in touch!

- Jen O'Keefe & Gilda Lopes

# AASP - The Palynological Society Election Reminder!

Dear colleagues,

Our annual meeting is early this year; therefore, this year's election will also be early. Voting via SURVEYMONKEY will open on 11 June and will be open for three weeks, until 30 June 2018.

If you do not receive an email via SURVEYMONKEY to vote by 13 June 2018, please contact Niall Paterson (Niall.Paterson@uib.no) for a paper ballot.

Newly elected officials will take office at the incoming board meeting on 8 Aug. 2018.

This election cycle you will be voting for a new director-at-large and a new student-director-at large, as well as managing editor, secretary, and treasurer.


See the candidates' biographies below and start choosing your favorite!

- Niall Paterson and Gilda Lopes, 2018 Ballot Committee

## Secretary: Stephen Stukins

After studying a B.Sc. in Geological Sciences at University of Leeds I undertook the M.Sc. in Micropalaeontology at University College London in '05-'06. It was at UCL I first discovered palynology and went on to use it in my final project studying the onset of the Toarcian OAE from the Yorkshire coast under the supervision of Susanne Feist-Burkhardt and Andrew Henderson.

I then ventured on to the University of Aberdeen for my Ph.D., supervised by David Jolley, Duncan McIlroy (Memorial University of Newfoundland) and Adrian Hartley. This research project, funded by Statoil (UK), took me to Argentina where I studied the palynology and sedimentology of the Middle Jurassic of the Neuquén Basin from its stunning outcrops.

Following my doctorate I worked for PetroStrat Ltd in Conwy, North Wales, where I trained and worked on Mesozoic sections from West Africa and various sectors of the North Sea. Then the opportunity arose to join the Natural History Museum, London, where I have been since January 2012. During my time at the NHM I have been able to broaden my involvement in palynology and micropalaeontology, such as: exploring ways to promote and digitise the John Williams Index of Palaeopalynology; hosting The Micropalaeontological Society conference on the past, present and future of the IODP; and instigating new research proposals for working with the museum collections and on material collected during numerous field visits.

I currently teach Applied Biostratigraphy on the Petroleum Geoscience M.Sc. courses at Royal Holloway University and Imperial College London. In the last few years I have also supervised several students from the University of Birmingham and Imperial College London who have used the former British Petroleum Collection or the John Williams Index of Palaeopalynology as sources of research material.

## Treasurer: Rebecca Hackworth

Rebecca Hackworth is currently working within the Energy Technology Center as a biostratigrapher at Chevron Coorporation based in Houston, Texas.

Rebecca received her B.S. degree in Geology (2001) from Louisiana State University in Baton Rouge where she became introduced to foraminifera. This interest in foraminifera sent her to the cold midwest where she received her M.S. degree in Geology (2003) from the University of Wisconsin- Madison. Her research focused on the stable isotopic stratigraphy and foraminiferal biostratigraphy during the latest Miocene Stable Isotope event (~7.7 Ma). After completing M.S. degree, she embarked on a journey into the world of palynology, returning to Louisiana State University to start a Ph.D. with Dr. John Wrenn. John not only introduced her to palynology, but together they explored the fascinating world of silicious plant microfossils, phytoliths. In addition, working with John enabled her to become familiar with the extensive wealth of resources available

at the Center for Excellence in Palynology (CENEX). Her research involved a multidisciplinary approach (i.e. pollen, phytoliths, MS, and stable isotopes) to investigating the latest Holocene vegetational and hydrological changes documented at Catahoula Lake, Louisiana.

During her Ph.D. she interned as a palynomorph biostratigrapher at BP in 2008, where she received training and exposure to gulf coast Cenozoic and Mesozoic dinoflagellates, spores, and pollen. Upon completing her Ph.D. in 2009, under the advisement of Drs. Sophie Warny and Brooks Ellwood, she began her career at BP. She worked for British Petroleum for 5 years within the GoM exploration and production teams before accepting the position at Chevron in 2014.

## Managing Editor: James Riding

James B. Riding is a palynologist with the British Geological Survey (BGS), based in Nottingham, UK, and specializing on the Mesozoic and Cenozoic. After studying geology at the University of Leicester, Jim persued an interest in palynology which developed as an undergraduate. This started with the famous MSc course in palynology at the University of Sheffield directed by Roger Neves and the late Charles Downie. He left Sheffield for BGS, which was then known as the Institute of Geological Sciences, joining the Palaeontological Department run by the legendary Carboniferous palaeontologist and geologist W.H.C. (Bill) Ramsbottom in the Northern England office, based in Leeds, West Yorkshire. Here, he worked closely with Ron Woollam on the Mesozoic palynology of onshore and offshore UK; much of the work in those days was on the North Sea. The Leeds office was closed, and Jim and colleagues relocated to the BGS headquarters at Keyworth, immediately south of Nottingham. He was awarded a PhD by the University of Sheffield for a thesis on the Jurassic dinoflagellate cyst floras of northern and eastern England. His current palynological interests are wide-ranging and include the Mesozoic-Cenozoic palynology of the world (especially Europe, Australasia, Antarctica, west Africa, the Americas, Russia and the Middle East), paleoenvironmental palynology, palynomorph floral provinces, forensic palynology, preparation techniques, the history of palynology 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 for many years, and he visited the Antarctic Peninsula for fieldwork during the Austral Summers of 1989 and 2006. The most recent field season was spent on Seymour Island. The European Union has recently funded two collaborative projects involving Jim on research into the Jurassic palynology of Russia and southern Europe. Jim undertook a one-year secondment in 1999-2000 to the Australian Geological Survey Organisation (now Geoscience Australia), Canberra, Australia where he worked on the taxonomy of Australian Jurassic dinoflagellate cysts with Robin Helby and Clinton Foster. The work emanating from this was published in 2001 as Memoir 24 of the Association of Australasian Palaeontologists. Jim was awarded a DSc by the University of Leicester in 2003. He served as a Director-at-Large of AASP between 1999 and 2001, was President in 2003, and became Managing Editor in 2004. He has previously served as Secretary and Treasurer of The Micropalaeontological Society (TMS). Jim is currently the Secretary-Treasurer of the International Federation of Palynological Societies (IFPS).

## Director-at-Large: Sofie Lindström

I studied Geology at Lund University in Sweden. Originally I had my mind set on becoming a petrologist, but when I was about to embark on my third year studies, that course was postponed to the following year, so I had to study palaeontology and sedimentology, including completion of small research assignments in each discipline. We had just had a brief course in palynology, with Dorothy Guy-Ohlson from the Swedish Natural History Museum; she made palynology fascinating. So, under her supervision, I did a small project on the palynology of the Lower Jurassic in my hometown, Helsingborg. When, I finally got to study mineralogy and petrology, I realized that I really wanted to continue with palynology. Professor Kent Larsson was involved in the Swedish Antarctic Research Programme (SWEDARP), and he had some samples from a poorly constrained Permian locality in Dronning Maud Land in Antarctica, so I did my Master's on that. In 1989 I received a PhD scholarship from the Swedish Natural Science Foundation to continue working on the Permian of Antarctica and started my PhD-studies by going to Antarctica on the 1989/90 SWEDARP expedition to Vestfjella in Dronning Maud Land.

I learnt everything I needed to know about palynological preparation from the late Professor Gonzalo Vidal; together with Dorothy Guy-Ohlson, I had many discussions on palynology and palynofacies, taxonomy and stratigraphy. I soon established contacts with other palynologists working on Gondwana Permian palynology, especially John Backhouse, Clinton Foster, and Stephen McLoughlin. When I finished my PhD in May 1994, I was expecting my first child, and I had no immediate plans other than that I wanted to continue with research. Stephen McLoughlin suggested that I come to Melbourne, Australia, to work with him and Andrew Drinnan on the Permian–Triassic succession of the Prince Charles Mountains, Antarctica. I applied for a post-doc from the Swedish Natural Science Foundation and in 1995, my husband and I and our then 15-month-old son moved to Melbourne for a year. For a geologist, it was challenging, but also very inspiring to work in the School of Botany at the University of Melbourne, and I learnt a lot from my palaeobotanist colleagues.

After my post-doc, we returned to Lund where I had a 6-month return-contract. Through a palynologist colleague, Frøydis Eide, I got a job working as a part-time consultant for Saga petroleum, studying Carboniferous palynology of the Loppa High. I barely had time to finish the project, when our second son was born in 1998. After that I got a research assistant position at the Geology Department, financed by the Swedish Science Council, to continue working on the Permian-Triassic of Antarctica. In 2002, our daughter was born and having three kids is a great way to force yourself to think about things other than research from time to time!

As with many academic positions, my research assistant position was time-limited, but I was fortunate to receive grants from the Swedish Geological Survey for a study on the subsurface Triassic–early Cretaceous of Scania for a couple of years. I also worked part-time as a lecturer in palaeontology and did some consultancy work for Applied Petroleum Technology in Norway, working mainly with the late Haavard Selnes and with Graham Bell.

In 2006, I received the academic title Associate Professor at the Natural Science faculty at Lund University. I was also contacted by Karen Dybkjær who wondered if I wanted to apply for a two-year project research position at GEUS – the Geological Survey of Denmark and Greenland in Copenhagen, which would be an opportunity to work with several of my Danish palynology colleagues: Karen herself, Henrik Nøhr-Hansen, Stefan Piasecki and Niels Poulsen. So, I ended up leaving academia and started working at GEUS where I now hold a position as a senior researcher.

I work mainly with biostratigraphy, palaeoenvironmental and palaeoecological reconstructions of the Carboniferous to lowermost Cretaceous, and the work includes both consultancy projects and more academic research projects. During the last 8 years I have been the PI on two Geocenter Denmark financed projects on the Triassic-Jurassic boundary. The research has focused various aspects of the end-Triassic mass extinction and its relation to massive volcanism during the formation of the Central Atlantic Magmatic Province. I currently co-supervise one PhD student

on biomarkers and isotopes across the Triassic-Jurassic boundary in the Danish Basin, and I co-supervise one Master's student on Middle Jurassic palynology and C-isotopes. I am really passionate about research and love to integrate research from a variety of disciplines, and often venture into topics far from my speciality, palynology. But no matter how far I stray, I always get back to palynology – the most versatile palaeontological discipline ever!

I think it is amazing to think back upon how important various palynologists have been to my career. If I could give any advice to early career scientists it would be to establish networks with colleagues around the world, for inspiration, for exchanging ideas, for collaboration and for support when times are tough. This is where I see AASP has a really important role to play, now and in the future.

## Director-at-Large: Ian Troth

My journey in geoscience started as an enthusiastic amateur, eventually leading me to study geology at the National Oceanography Centre, Southampton (NOCS) in 1998. Studying at NOCS helped me mature a keen interest in biostratigraphy and, after graduating in 2002, I chose to stay in Southampton to complete a Ph.D. on Palaeozoic stratigraphy in South America under the supervision of John Marshall. A major focus of the project was the Devonian palynology of Bolivia with the specific aim of calibrating surface and subsurface sections. The work allowed a refinement of the Devonian palynological framework in the Subandean of Bolivia, a structurally complex region where palynology is often integrated with other datasets to underpin interpretations of the subsurface for hydrocarbon exploration and field development.

After finishing my Ph.D. studies in 2005, I joined BG Group in the UK and my experience of South American geology resulted in me being transferred to Brazil in 2007 where I was involved in several high profile projects in Exploration and Development (Precambrian and Cretaceous). Despite the focus on hydrocarbons and other parts of the stratigraphic column, my Devonian palynology research interests persisted and I regularly returned to the Andes and also the Palaeozoic basins of Brazil to perform fieldwork and sampling.

In 2013 I moved to QGC in Australia to work on the extraction of gas from Jurassic coals. Later in 2017, I was fortunate to be able to take a sabbatical and renew my association with NOCS as a Visiting Researcher. This saw me return to Bolivia where I also expanded my palynological research into the Silurian. A real highlight of 2017 was the opportunity to complete a successful field expedition to East Greenland as part of a palynological investigation into the effects of climate change across the Devonian-Carboniferous boundary. Having returned to industry, I am currently working on Cretaceous lacustrine carbonates with Statoil based in Rio de Janeiro.

## Student Director-at-Large: Morgan Black

I began my career in Geology at Morehead State University in Kentucky, USA. I knew that I wanted to pursue a career in which my intellectual contributions would have a larger impact on the world, but I wasn't sure how I would achieve that goal. I fell in love with palynology as a second-year student, when I found a home-away-from-home in Dr. O'Keefe's palynology lab as an undergraduate research fellow. It was there that I learned how statistical palynology and microfossils can be used to interpret past environments and make important predictions about fragile ecosystems moving forward in to the Anthropocene. I had found my path.

I was introduced to AASP – The Palynological Society in 2015, at the annual meeting in Baltimore, where I gave my first research presentation and attended my first board meeting. Imagine my shock in winning L.R. Wilson Award for Best Student Paper for my undergraduate research in Holocene palynology. Since, I have had a great desire to give back to the society.

My early palynology research experience led to two meaningful internships, one at the American Museum of Natural History in New York City and another at John Day Fossil Beds National Monument in Kimberly, Oregon. Both experiences taught me the importance of conservation of knowledge, both through data generation and storage and through effective communication. I see communication, both among scientists, but more importantly, with the general public, a key feature in generating continued interest in and support for the paleontological sciences.

I have continued to follow my passion as a graduate student at University of Kentucky. My interests have taken me to Dr. Michael McGlue's paleolimnology lab, where I am conducting a high-resolution palynological and stable isotope geochemical study of a long core from Convict Lake. My goal is to reconstruct the palaeovegetation and palaeohydrology in the Sierras from the latest Pleistocene to present. This will allow me to determine the effects of the Intertropical Convergence Zone on High Sierra climate and predict both how this fragile ecosystem may respond to continued changes and how those changes may impact water availability in the region.

As a student director-at-large for AASP-TPS, I hope to serve as an effective link between students in all stages of their education and the Board of Directors. I started doing this at the 2016 meeting in Houston and am eager to continue effective communication among members at all levels and with the public. I hope to work with the newsletter editor and webmaster to promote awareness of both internal and external student opportunities to ensure that our student members are being served to the best of the organization's ability.

## Student Director-at-Large: Julia Gravendyck

I am at the end of my first year of PhD study, conducted at the Botanical Institute, situated in the Botanical Garden at the Freie Universität Berlin. I am investigating the occurrence, distribution and development of Mesozoic conifer pollen.

Prior to beginning my doctoral studies, I have worked as a botany teaching assistant since my third BA-semester. I have had a passion for pollen ever since I first set eyes on them during a flower morphology class. In the end, I wrote my Master thesis in paleopalynology. As part of the pilot project 'CO2SINK', joint project by the GFZ (German Research Centre for Geoscienes) and the Natural History Museum in Berlin, I conducted a palynofloral reconstruction (Carnian, German Triassic).

When I started my assistant position as a doctoral student at the Structural and Functional Plant Diversity group, I was given the chance to study 'what I was passionate about.' My ready answer was: palynology. Now I commute between Berlin and Oslo to combine the expertise of botany of extant plants, represented by Prof. Bachelier in Berlin, and paleopalynology represented by my supervisor Prof. Kürschner in Oslo.

As all these projects exemplify, that I have always fulfilled a connecting role, which is true even for my private life. I am German, my parents live in the US, my partner is Belgian, I have gone to school in England, lived in New Zealand, and study in Germany and Norway.

Sitting on an outcrop of the P/T boundary during fieldwork in Armenia in 2017

It is a challenge, but also a blessing, to be always in-between; to cross-over different institutions, disciplines and countries. As a Student Director-at-Large, I feel I can turn this into an asset to represent more than one group of young scientists; scientists that grow into a world that demands ever more interdisciplinary approaches and (cultural) flexibility on our way from PhD to wherever it leads us. I would be honored to voice our needs, views and new ideas and to discuss and connect them with the experienced and established world of palynologists, represented by the AASP. If chosen, I would like to - if the society approves - share insights into my work as Student Director-at-Large along with the other impressions of (paleo-)botany I give in the Blog on my website: http://berlinbotany.wordpress.com.

# 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 2016 "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, 2018.**

## 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.

## 2018 AASP Foundation Century Club Contribution Form

**Name:** _____

**Address:** _____

_____

_____

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

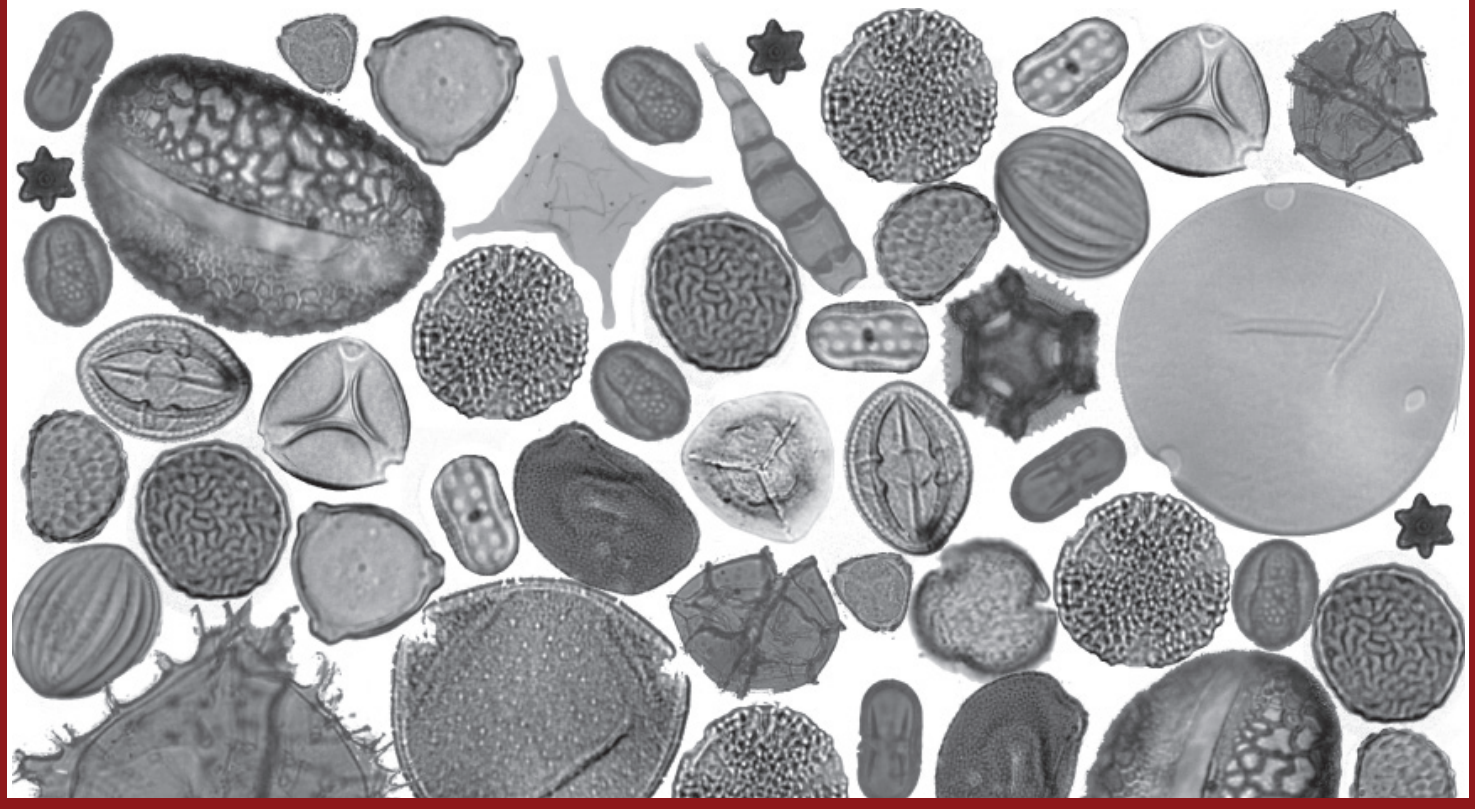
**Contribution Enclosed: $**_____ **I wish to pledge: $**_____

# Future Meetings of AASP - The Palynological Society

2018 - 51st Annual Meeting
Calgary, Alberta, Canada
Organizers: Kimberley Bell & Thomas Demchuk

2019 - 52nd Annual Meeting
Ghent, Belgium
Organizers: Stephen Louwye & Thijs Vanderbrocke

2020 - 53rd Annual Meeting
Baton Rouge, Lousiana, USA
Organizer: Sophie Warny



# MVP-PPMB 2018

The next meeting of the NFSR Working Group: “Micropaléontologie végétale et Palynologie” and Palynologists and Plant Micropalaeontologists of Belgium (MVP-PPMB) will be held in the Pal3 Research Unit of the Geology Department of the University of Liège, Belgium, in Fall 2018.

It will be focused on palynology and palaeobotany from the Precambrian up to the modern periods. All related aspects, such as biogeochemistry, etc., are welcome.

If you are interested in attending, please participate in the Doodle Poll to help determine a meeting date between early September and mid-November!

https://doodle.com/poll/8mi593zbgc96huk8

The poll closes at the end of June, so please voice your opinion by that time. We will announce the chosen date in early July.

The meeting is the perfect venue for students to participate and present talks, even if data are still in their infancy. As the ambiance is always convivial, it is the right place to learn how to make presentations! Of course, experienced colleagues are strongly encouraged to present their latest discoveries and newest projects.

The meeting is typically a one-day event and will begin at around 09:30 and will finish at around 18:00. The talks last 15 minutes + 5 minutes of questions. Should we have enough interest, we may expand the conference to two days. We will have a lunch at the university or close to it. For those who have time to spend in a pleasant atmosphere, we may also organize a diner after the meeting.

There will be a small fee this year - 10€ - to offset the costs of coffee breaks, dinner, etc.

We will have some funding (500€) to invite a speaker from a foreign country. If you would like to invite a colleague, let Dr. Steemans know who and he will do what is necessary to invite them.

To organize this meeting, we need to know: 1) which days are free for you (see the Doodle); 2) if you will do or not a presentation; and 3) a provisional title for your presentation.

Participants, please send me your abstract as soon as possible. It may be as long as you want, and you may include several figures, pictures and so on. Format your abstract using the style in the previous abstract book:

http://hdl.handle.net/2268/216708.

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REDUCED INDUSTRY FEES

# Second ANNOUNCEMENT

# ADVANCED COURSE in Jurassic - Cretaceous - Cenozoic ORGANIC-WALLED DINOFLAGELLATE CYSTS

## Morphology - Stratigraphy - Palaeoecology

**When: July 1st to July 6th, 2018**

**Where: Nottingham, United Kingdom**

**Costs: Academic €400; regular €750**

**Registration includes a license to the new PALSYS.org dinocyst taxonomic and stratigraphic database**

**Registration: email info@lpp-foundation.nl to receive a registration form. registration is confirmed after payment of the fee.**

Nottingham Dinocourse 2018

**The course takes place at the British Geological Survey at Keyworth: very close to the city of Nottingham, and close to Birmingham Airport.**

**There will be a midweek field excursion to sites of geological interest in the nearby Peak District National Park.**

**Proposals for adjacent workshops will be considered.**

**More info: info@lpp-foundation.nl; www.lpp-foundation.nl**

## Presented by

**Peter Bijl, Appy Sluijs (Utrecht University, NL); Martin J. Head (Brock University, Canada); Jörg Pross (Heidelberg University, Germany); James Riding (BGS, UK); Poul Schiøler (Goodall Palaeo PTY LTD, Aus)**

**With contributions from:**

**Rob Fensome, Graham Williams (GSC Atlantic, Canada); Martin Pearce (Evolution Applied, UK); Roel Verreussel, Dirk Munsterman, Alexander Houben (TNO, NL); Henk Brinkhuis, Francesca Sangiorgi (Utrecht University, NL)**

**Local coordinator: J.B. Riding (Nottingham, UK)**

BGS 1835

Brock University

UNIVERSITÄT HEIDELBERG ZUKUNFT SEIT 1386

MORGAN GOODALL PALAEO PTY LTD

LPP Laboratory of Palaeobotany & Palynology Foundation

Universiteit Utrecht

PALSYS


**AASP-TPS will have a booth in "PaleoAlley."**
**Please contact the GSA Liaison, Francisca Oboh-Ikuenobe (ikuenobe@mst.edu) to volunteer your time at the booth. We especially welcome student volunteers!**

**Abstract Deadline: 14 August 2018 (11:59 p.m., Pacific Time)**.
**International Travel Grant Application Deadline: 5 July 2018.**

**AASP-TPS Co-sponsored Sessions:**

***T110. Lakes through Space and Time***
Session Chairs: Scott W. Starratt, Michelle F. Goman
Sponsors: GSA Limnogeology Division; GSA Sedimentary Geology Division; GSA Quaternary Geology and Geomorphology Division; AASP - The Palynological Society; American Quaternary Association; Association for the Sciences of Limnology and Oceanography; International Association of Limnogeology; SEPM (Society for Sedimentary Geology); GSA Continental Scientific Drilling Interdisciplinary Interest Group
Description: This session celebrates lacustrine research around the world. Lakes are important fresh water reservoirs, and their sediments serve as archives of global change, local human impact, and ecological succession.
Disciplines: Limnogeology | Paleoclimatology/Paleoceanography | Stratigraphy |

***T121. Insights from Microfossils, Palynology, and Their Modern Analogs: From Traditional to Emerging Techniques***
Session Chairs: Miriam E. Katz, Peter P. McLaughlin Jr., Caitlin Keating-Bitonti, Ingrid Romero, David K. Watkins
Sponsors: Cushman Foundation; AASP - The Palynological Society; Geochemical Society; Paleontological Society; Paleontological Research Institution; GSA Limnogeology Division; GSA Sedimentary Geology Division
Description: Traditional applications of microfossils/palynology are central to many studies, while novel approaches (especially geochemistry) utilizing microfossils have expanded recently. This session highlights traditional and innovative microfossil/palynology applications in terrestrial and marine environments, including modern analogs.
Discipline: Paleoclimatology/Paleoceanography | Geochemistry | Paleontology, Biogeography/Biostratigraphy

***T126. Earth and Life Co-Evolution in the Early to Middle Neoproterozoic (1000 to ca. 635 Ma)***
Session Chairs: Qing Tang, Heda Agic, Leigh Anne Riedman
Sponsors: GSA Geobiology & Geomicrobiology Division; AASP - The Palynological Society; Paleontological Society; Paleontological Research Institution; GSA Sedimentary Geology Division
This session is focused on gaining a better understanding of the coevolution of Earth and life in the early to middle Neoproterozoic. We welcome inputs from paleontologists, geochemists, sedimentologists, earth system modelers, and more.
Disciplines: Paleontology, Diversity, Extinction, Origination | Geochemistry | Precambrian Geology

**Field Trips Incorporating Palynology:**

***422. Lower and Middle Pennsylvanian Coal Geology of the Illinois Basin.***

Leaders: Cortland Eble and Stephen Greb, Kentucky Geological Survey

Cost: $180

When: Thursday, November 8th

Description: Typical Pennsylvanian coal-bearing facies of the Caseyville, Tradewater, and Mansfield Formations are exposed along the eastern margin of the Illinois Basin in western Kentucky and southwestern Indiana. This trip will examine (1) a lowstand to transgressive Caseyville sandstone paleovalley with a vertical transition to estuarine facies; (2) slumped coastal-estuarine facies with tidal rhythmites; (3) a variety of different coal beds in the Tradewater and Mansfield Formations, highlighting different coal facies; (4) coarsening-upward highstand regressive deposits; (5) and a variety of channel facies. Petrographic and palynological analyses of coals and shales will be shown from outcrops to illustrate how these can be used for depositional interpretation. Sedimentological and sequence stratigraphic interpretations of typical coal-bearing clastic facies will also be discussed.

**AASP-TPS Co-sponsored Short Course:**

***505. A User's Guide to Micropaleontology and Biostratigraphy: Applications in Research and Industry.***

Cost: US$65. Limit: 40. CEU: 0.8.

When: Sat., 3 Nov., 8 a.m.–5 p.m.

Instructors: Thomas Demchuk, Louisiana State University/RPS Group Inc.; Ryan Weber, PaleoData Inc.

Sponsors: AASP - The Palynological Society; SEPM (Society for Sedimentary Geology); The Cushman Foundation; Paleontological Research Institute; Chevron Corp.

Description: This short course will introduce the concepts of micropaleontology, biostratigraphy, biofacies analysis, and chronostratigraphy to those who may need to work with biostratigraphic data but may not have the background to competently work with it and utilize it to its full potential. This course is designed for students, other academics, consultants, and industry professionals to gain a full appreciation of how these topics contribute to and are integrated in stratigraphic research and petroleum exploration. The basic concepts will be developed together with the essential vocabulary necessary to understand and communicate with specialists in those fields.

## Full GSA 2018 Meeting information:

## http://community.geosociety.org/gsa2018/home

*The IPC is organised every four years under the auspices of the International Palaeontological Association (www.ipa-assoc.org). After Sydney (Australia) in 2002, Beijing (China) in 2006, London (United Kingdom) in 2010 and Mendoza (Argentina) in 2014, it will convene in Paris (France) in 2018.*

IPC5

# THE 5TH INTERNATIONAL PALAEONTOLOGICAL CONGRESS

July 9th - 13th, 2018
FRANCE

# THE FOSSIL WEEK

## INVITATION

On behalf of the Organising Committee, we are particularly pleased to invite you to France for **the fifth edition of the International Palaeontological Congress, the IPC5.**

Under the auspices of the International Palaeontological Association (IPA) and with the participation of the whole French Palaeontological community, "the Fossil week" will be organized **in 2018 in Paris, July 9th-13th.**

This event is a unique opportunity for our community to present its new results and discuss all aspects of our discipline.

We propose here some possible symposia and sessions. Of course, the list is provisional and it is still completely open. We are waiting for your proposals.

Fieldtrips are planned before and after the congress throughout France, Belgium and Italy. They will give you the opportunity to discover our palaeontological, geological and gastronomic heritages.

**We hope to welcome many of you in France in 2018.**

View of the Seine River and the Notre-Dame Cathedral

# VENUE

The meeting will take place in the Pierre & Marie Curie University and in the National Museum of Natural History, both located in the 5th arrondissement, in the center of Paris, along the left bank of the Seine River. This district is commonly known as the *Quartier Latin* because it is where the first great Parisian university, the Sorbonne, was founded, and because Latin was the language of scholars at the time. The 5th arrondissement was also the core of Lutetia, the antique city of Paris, as revealed in a number of archaeological sites.


© Google maps

Map of 5th arrondissement

The most famous building of the 5th arrondissement is probably **the Pantheon**, where graves of influential French personalities are clustered, but there are many other noteworthy sights, such as the magnificent **Val-de-Grâce Church**, the intriguing **St-Etienne-du-Mont Church**, **the Cluny Museum**, **the Roman Arènes de Lutèce** and the city's botanical garden, **the Jardin des Plantes**, surrounding buildings of the National Museum of Natural History. This institution housed one of **the largest collections of natural objects of the world** with more than **68 million specimens**. The palaeontology collection itself contains between 5 and 6 million specimens.

Jardin des Plantes

© Lilian Cazes

Pantheon

© Paris Tourist Office

The opening plenary session will take place in "La Maison de la Mutualité". During its 80 years of existence, this building has hosted many historical events and welcomed prominent personalities: it is where Charlie Chaplin recorded the music for some of his movies; among world-class singers, Edith Piaf, Jacques Brel and Léo Ferré performed there.

The Fossil Week meeting will take place from the 9th to the 13th July of 2018. This will allow conveners to extend their stay to enjoy the festivities relating to the French National Day, July 14th. The weather is pleasant during summer time, with an average of 25°C (77°F).

## TRANSPORTATION


Paris has daily connections with more than 526 cities in more than 136 countries via its international airports, namely Paris - Charles-de-Gaulle (23 km northwards; commuting time 45-60 minutes by city train) and Paris - Orly (14 km southwards, commuting time 30-40 min by city train).

With seven train stations in Paris itself, the city is at the heart of an exceptionally comprehensive and high-performance rail network. On a daily basis, 425 high-speed trains connect various destinations across Europe with the French capital.
French regions (Alsace, Burgundy, Brittany, Champagne, etc.) can be reached in a few hours from Paris, thanks to this well-developed transportation network and its central position in France.

Paris is equipped with top-class infrastructures and, in particular, a dense and versatile transportation network, in which the subway, bus, tramways, taxis, "vélib" (the city's bike sharing scheme), and now the "autolib", are interlinked.

Participants who require a support letter for visa application are invited to contact the organizing committee (congress-ipc5-contact@mnhn.fr). This letter does not imply any financial obligation on the part of the Congress organizers.

## ACCOMODATION

With more than 2,000 hotels, Paris provides visitors with stylish options at all price ranges. Bed & Breakfasts, youth hostels and furnished apartment rentals complete the wide accommodation offer. Conference participants have to make their own accommodation arrangements.

## RESTAURATION

Paris, known as the Capital of Gastronomy, invites travellers from all over the world to have a feast! The art of French cooking owes its success to the mastery of classic basics updated by today's chefs. The city has the second highest number of Michelin-recommended restaurants in the world. Besides notorious haute-cuisine temples, Paris is replete with informal cafés, eccentric wine bars, vintage bistros, and the new bistronomiques, serving affordable modern cuisine in a casual setting. Finding baguettes of unrivalled crispness is no challenge here. All sorts of world cuisines are also well represented.

## ORGANIZATION

The organizing structure is the CR2P (Centre of Research on Palaeobiodiversity and Palaeoenvironments - paleo.mnhn.fr). This laboratory is composed of lecturers and professors from the MNHN (National Museum of Natural History) and the UPMC (Pierre & Marie Curie University – Paris 6) and of researchers from the CNRS (National Scientific Research Center). Altogether, the CR2P includes 41 tenured scientists, 27 postdocs and PhD students, and 27 engineers, technicians and administrative staff. This makes it one of the largest research laboratories in the world exclusively devoted to Palaeontology. The French Geological Society (SGF) will support the congress organization.

**General chair**
Sylvie Crasquin

**Secretary general**
Angelina Bastos and Stéphane Peigné

**General management**
Gaël Clément, Michel Laurin, Isabelle Rouget and Brigitte Senut

**Communication**
Sophie Fernandez, Damien Germain, Florent Goussard and Adeline Kerner

**Field trips**
Ronan Allain and Patrick De Wever

**Scientific chairs**
Olivier Béthoux, Sylvain Charbonnier, Emmanuel Gheerbrant, Didier Merle and Annachiara Bartolini

Palaeontologists from other institutions in France (Universities of Bordeaux, Brest, Burgundy, Lille, Lyon, Montpellier, Nantes, Poitiers, Rennes, Toulouse and the regional Natural History Museums) are involved with the organization of both fieldtrips and symposia.

# SCIENTIFIC COMMITTEE

### Honorary scientists

| | |
|---|---|
| Philippe Taquet | French Academy of Sciences |
| Philippe Janvier | French Academy of Sciences |
| Yves Coppens | French Academy of Sciences |
| Armand de Ricqlès | Pierre & Marie Curie University |

### International representatives

| | |
|---|---|
| Lucia Angiolini | Milano, Italy |
| Marion Bamford | Johannesburg, South Africa |
| Spela Gorican | Ljubljana, Slovenia |
| David A.T. Harper | Durham, UK |
| Dieter Korn | Berlin, Germany |
| John Long | Adelaide, Australia |
| Rossana Martini | Geneva, Switzerland |
| Harufumi Nishida | Tokyo, Japan |
| Guntupalli V. R. Prasad | Delhi, India |
| Claudia V. Rubinstein | Mendoza, Argentina |
| Paul Sereno | Chicago, USA |
| Blaire Van Valkenburgh | California, Los Angeles, USA |
| Zhonghe Zhou | Nanjing, China |

### French region scientists

| | |
|---|---|
| Pierre-Olivier Antoine | Montpellier University |
| Loïc Bertrand | IPANEMA, SOLEIL, Saclay |
| Eric Buffetaut | CNRS, ENS Paris |
| Bruno Maureille | CNRS, Bordeaux University |
| Brigitte Meyer-Berthaud | CNRS, Montpellier University |
| Pascal Neige | University of Burgundy |
| Didier Néraudeau | Rennes University |
| Olga Otero | Poitiers University |
| Thomas Servais | CNRS, Lille University |
| Jean Vannier | CNRS, Lyon University |

### Local representatives

| | |
|---|---|
| Sylvie Crasquin | CR2P, Paris, France |
| Stéphane Peigné | CR2P, Paris, France |

# PRESENTATIONS AND LANGUAGE OF THE CONGRESS

Detailed instructions for duration of regular talks and for preparation of posters and talks will be given in the second circular.
English will be the official language of the meeting and excursions.
Abstracts: collected abstracts will be published on-line and made available on memory sticks to all participants. It is also planned to publish symposium proceedings in reputable journals.

# SYMPOSIA

The Plenary opening session ceremony will take place at the Mutualité; it will include some invited talks. The scientific sessions will be organized in parallel on Pierre & Marie Curie University Campus and in the Jardin des Plantes amphitheatres. All these places are separated by less than 500 m.

| Saturday July 8th | Monday July 9th | Tuesday July 10th | Wednesday July 11th | Thursday July 12th | Friday July 13th | Saturday July 14th |
|---|---|---|---|---|---|---|
| | Registrations<br><br>Plenary opening session | Scientific sessions | Free day or Workshops; Mid-congress fieldtrips | Scientific sessions | Scientific sessions | French National Day |
| Registrations | Scientific sessions | Scientific sessions | Free day or Workshops; Mid-congress fieldtrips | Scientific sessions | Plenary dosing ceremony and IPA session | |
| | | IPC5 cocktail dinatoire | | Gala dinner | | |

Some scientific sessions have already been proposed by the French palaeontologists and are listed below. We call here for other proposals.
All the palaeontological groups have their own meetings, so please do not propose session too much focused on taxa. **The IPC is the opportunity to mix the different group approaches.**

- African Vertebrate Palaeontology
- Angiosperms, from the beginning to their diversification
- Back to the sea: from Late Palaeozoic to Cenozoic, the marine tetrapod adventure
- Biodiversity changes through times: crisis and radiations
- Biomineralisation and life
- Bird evolution
- Data, dispersals and interchanges through time: a land mammal perspective
- Databases in palaeontology: sharing knowledge for leveraging research options
- Early Life: origin, triggers and diversification
- Evolution of Indo-Pakistan biotas from the break-up of Gondwanaland (Late Jurassic) to the initiation of the collision with Eurasia (Eocene): between vicariance and dispersals
- Evolution of trees and forests
- Fossil 2D/3D imagery: approaches, advances, management
- Fossils & Recent, Molecules & Morphology: dialogs between the approaches
- Fossils and stratigraphy: an old but still dynamic symbiosis
- Intimate interactions
- Konservat-Lagerstätten
- Macroecology and the fossil record
- Microorganism evolution and interaction with biogeochemical cycles and climate
- Neogene environments
- Palaeontology and geological heritage
- Palaeozoic seas: from deep to shallow
- Practical micropalaeontology (including palynology)
- Timetrees
- XXIst Century palaeohistology of mineralized tissue.

**Send your proposal to congress-ipc5-contact@mnhn.fr before May 31st, 2017.**

A proposal should include
- Name of conveners
- Symposium title
- Paragraph explaining the scope and importance of the symposium

## SHORT COURSES & WORKSHOPS

Some short courses and workshops will be organized during the congress.
Additional information will be available in the second circular.

## MID-CONGRESS EXCURSIONS

- Survey of the MNHN Collections (only through early request).
- Field trip to underground quarries at Meudon
- Guided geological walks inside Paris
- One-day visit at IPANEMA, SOLEIL synchrotron, Saint Aubin, Paris Region
- The Cenozoic of the Southern Paris Basin
- Visit of the "Centre de Recherche pour la Conservation des Collections" (MNHN)

## FIELD EXCURSIONS

Paris will allow all participants to enjoy ***the French art de vivre***. In addition to Paris and its vicinity, field excursions will offer the opportunity to (re)discover many aspects of **France** and of **Belgium** and **Italy**.

France is unique for the outstanding richness and importance of its fossil localities, all easily accessible, with all periods of the Phanerozoic geological time represented. Some of the earliest geological maps were produced here by Cuvier and Brongniart, and many stratotypes (Cenomanian, Givetian, Lutetian, Turonian, etc.) are located here.

Among the most famous Konservat-Lagerstätten are those of **Montceau-les-Mines** (Late Carboniferous), **La Voulte-sur-Rhône** (Middle Jurassic), and the Cenozoic sites of **Coiron** and **Sansan**. The best European Palaeocene terrestrial fossil localities are found near **Reims**. Cretaceous sites in **Charentes** provides dinosaurs as well as fossils in amber. Recently, geological reserves or geological parks were created, sometimes associated with stratotypes. Among them are **Saucats-La Brède** (Aquitanian), **Digne-les-Bains** (Barremian, Aptian), **Hettange-Grande** (Hettangian), **Pointe de Givet** (Givetian), Sainte Victoire mountain, etc. These constitute a number of attractive spots for geologists and palaeontologists.

We propose here pre- and post-congress fieldtrips.

Participants will enjoy a unique experience in palaeontological journeys that will be exquisitely combined with gastronomical, artistic or historical adventures!


© Fabrice Redois
The castle of Angers


© Marne Tourist Office - S. Millot
Marne vineyard


© Creative Commons BY-SA
The city of Givet


© Global Geoparks network
Geopark Haute Provence

- Anjou noir, Anjou blanc, Anjou rouge: paleontology and geology of **the Loire Valley**
*4 days*

- Excavations at the Early Cretaceous Dinosaur Bonebed of **Angeac-Charente**
*5 days*

- Geology, wine and culture: **Jura, Bourgogne and Champagne**
*6 days*

- Jurassic from **Normandy**
*2 days*

- Jurassic from **Northern Burgundy to Lyon** area: fossils, wine and patrimonial aspects
*4 days*

- **Le Regourdou (Dordogne)** : "the cave of the Neandertal Man who saw the bear"
2 days

- **Luberon & Haute-Provence** palaeontological sites **(Southeast France)**
*5 days*

- Mid-Late Palaeozoic of **western Europe : the Belgian Classics**
*3 days*

- **Montceau-les-Mines Lagerstätte** (Carboniferous) and **Autunian Stratotype** (Permian)
*2 days*

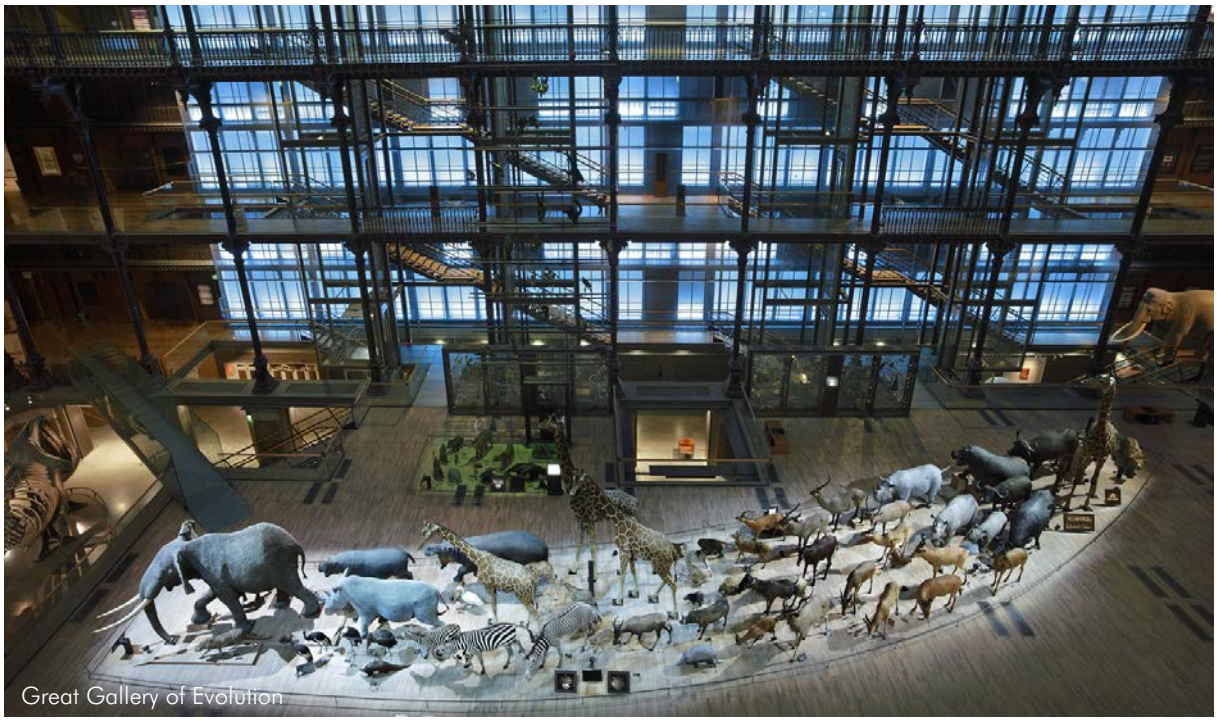
- Permian and Mesozoic environments in **southern France**
*5 days*

- The end-Permian mass extinction and the Early Triassic biotic recovery in the Dolomites **(Southern Alps, Italy)**
*4 days*

- The Late Jurassic dinosaur trackways from **Jura**
*5 days*

## SOCIAL PROGRAM

IPC5 "cocktail dinatoire" will be organized on Tuesday 10th evening in **the Great Gallery of Evolution in the National Museum of Natural History.** The Gala diner will take place on Thursday 12th evening.



Great Gallery of Evolution



## REGISTRATION

The registration fees will include the Tuesday evening cocktail, the coffee breaks and the conference documents. The Gala Diner is optional; additional information and price will be in the second circular.

Refund of registrations fees will be subject to conditions. Details will be given in the next circular.

| | Full registration | Students |
|---|---|---|
| September 1st to December 31st, 2017 | 360 € | 200 € |
| From January 1st to March 31st, 2018 | 460 € | 290 € |
| From April 1st, 2018 to June 30th, 2018 | 560 € | 380 € |

## TRAVEL GRANTS

The organising Committee is looking for corporate and governmental sponsorships in order to get travel grants for students. Additional information to apply will be in the next circular.

Our delegates are advised to take out their **own private medical and personal insurance for the duration of the Congress and field excursions.**

## IMPORTANT DATES

- Second circular: Spring 2017
- Call for symposium topics before May 31st, 2017
- Opening of registration: September 1st, 2017

**contact : congress-ipc5-contact@mnhn.fr**

Organisers

Administrative supervision

Partners

# Third Circular (abril 2018)


The Organizing Committee of the XVII Argentine Symposium on Paleobotany and Palynology is pleased to invite you to participate in this meeting to be held in the city of Paraná (Entre Ríos, Argentina), between July 30th to August 5th, 2018.

We already appreciate the dissemination of this invitation and we hope to have your valuable contribution.

## ENTIDADES AUSPICIANTES

Secretaría de MODERNIZACIÓN DEL ESTADO, CIENCIA Y TECNOLOGÍA
Gobierno de Entre Ríos

entreríos
Turismo y Cultura

JENCK

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BAYER

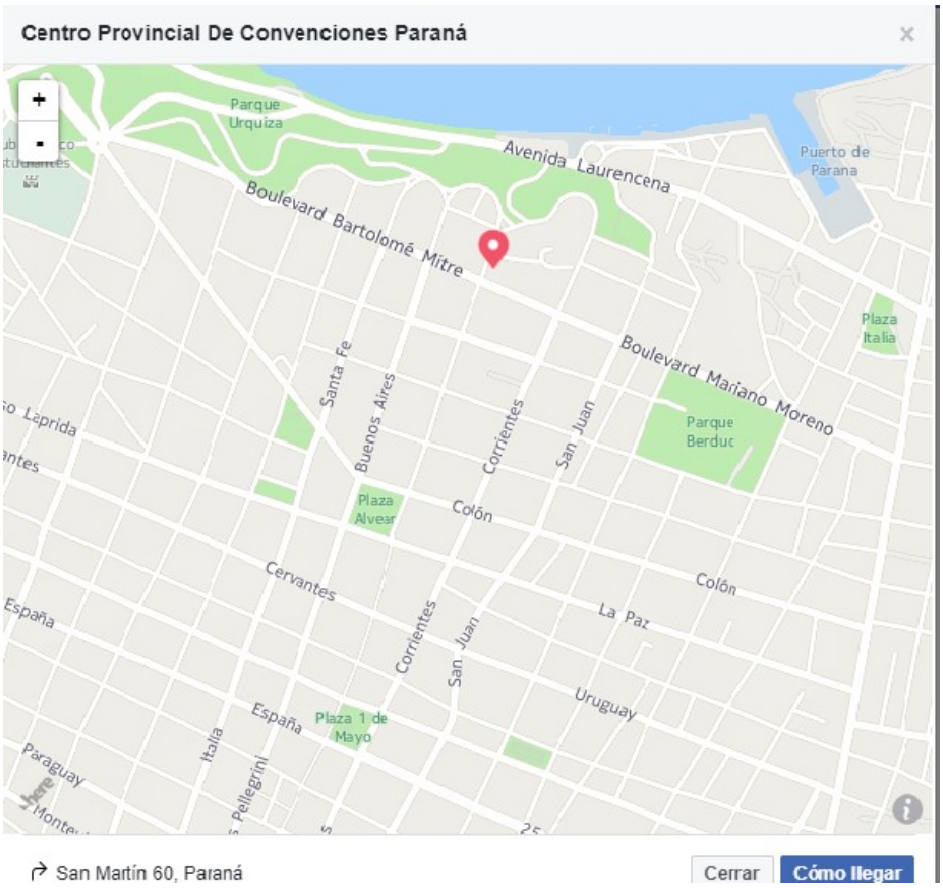
BETA
RADIOCARBON DATING
Consistent accuracy
Delivered on time
Beta Analytic

## INSTITUCIONALES

## PLACE OF THE EVENT – PARANÁ CITY (ENTRE RÍOS PROVINCE)

**THE CHANGE OF THE HEADQUARTERS OF THE EVENT IS NOTIFIED, REGARDING THE INFORMATION INFORMED IN THE FIRST CIRCULAR.**

The XVII SAPP will be developed in the Provincial Convention Center (CPC). This convention center, recently opened (October 2017) is the most modern in the Mesopotamia and Central Region, has the latest technology, has a total capacity for 2,500 people. It is located in Urquiza Park, on San Martin Street 60, with a natural environment and an impressive view of the Paraná River.




## ABSTRACTS

**The deadline for submission of abstracts was extended to April 30, 2018.**

| |
|---|
| The number of communications per person cannot be greater than 2 (two) as the first author, there being no limit to the presentation as co-author. |

Likewise, at least the first author must have paid the registration at the closing date of the receipt of abstracts.

Abstracts must be sent to the email address indicated for the corresponding session (see web: http://fcyt.uader.edu.ar/web/sapp2018), indicating the chosen presentation modality (oral / poster). The scientific committee can modify this proposal.

The abstracts will be published in volume 2018 of the ALPP digital magazine, and will be available both on the Symposium page and on the association's Blog.

## Instructions for preparing the abstract

Los resúmenes se recibirán únicamente por correo electrónico.

Nombrar al archivo con el apellido del primer autor seguido por "*et al.*" en el caso que corresponda. Agregar numeración en el nombre del archivo en el caso de enviar más de uno.
**Ex.** "Perez et al_1"

In the following link you will find the instructions to prepare the abstract to be submitted to the Symposium:
https://docs.google.com/document/d/1j37z3kMrx8lXLjFltys2KhBGEpThsgmmO7O-NW386Ro/edit

## INSCRIPTION

**Registration form**

It is requested to complete the online registration form that can be found at the following link:
http://eventos.uader.edu.ar/aplicacion.php?ah=st5a42429d2e1d9&ai=eventos||30000092&id=4&lang=

If you can not access the online form, you can complete the file that is attached to the Symposium website (http://fcyt.uader.edu.ar/web/sapp2018/inscripcion) and send it to the following address: sapp2018@palino.com.ar
with the following file name: SAPP 2018 registration (name and surname).

**Registration fee**

| | **Profesionales Socios ALPP** | **Profesionales Socios APA/SAB** | **Profesionales** | **Estudiantes de grado** |
|---|---|---|---|---|
| **Inscripción temprana 30/04/2018** | USD 100 | USD 120 | USD 140 | USD 40 |
| En adelante* | USD 120 | USD 150 | USD 180 | USD 50 |
| CURSOS # | USD 15 | USD 30 | USD 40 | **SIN CARGO** |

* The registration values will be maintained until the date of the Symposium. Registrations can be made every day.

# Registration Fee for the following courses. Payment can be achieved upto the last week before the start of the event, through a transfer to the aforementioned account (see below). Questions about other options can be sent to the following address: sapp2018@palino.com.ar

- **Palinología Forense**
- **Palinofacies**
- **El microscopio electrónico de escritorio en Paleobotánica y Palinología**

## Payment of fee

**• ARGENTINA**

The registration fee for Argentines must be made by bank transfer since it has no transaction costs to the following account:

| |
|---|
| **Caja de Ahorro Banco Nación, sucursal Diamante (Entre Ríos) 241**<br>**Cuenta N° 16702410000834**<br>**CBU: 0110241530024100008347**<br>**Titular: Fagúndez, Guillermina Andrea**<br>**CUIL: 27-23459011-7** |

Send the proof of transfer to the Treasurer mail: sapp2018tesoreria@gmail.com.

The value of the inscription in the local currency (Argentine pesos) will be taken according to the quotation of the US dollar "sale" of the day you wish to pay. The source will be in ARGENTINA, Banco de la Nación Argentina.

**• BRASIL, CHILE, PERU, COLOMBIA, MEXICO, PANAMÁ**

Participants from these countries can pay through the PAY-U platform (consult website: http://fcyt.uader.edu.ar/web/sapp2018/inscripcion).

**• OTHER COUNTRIES**

Participants from other countries please, consult about other options of payment to Mercedes di Pasquo sapp2018@palino.com.ar

# ORGANIZATION

## Plenary Conferences

- **Mirta Quattrocchio** (UNS, Bahía Blanca) **– Complejidad y nuevos paradigmas: una mirada personal de la Palinología.**

- **Roberto Iannuzzi** (UFRGS, POA, Brasil) **– Rescate de fósiles – experiencias y recomendaciones**

- **Jennifer O´Keefe** (Universidad de Morehead, USA) **– Palinomicología y Técnicas de procesamiento modernas**

- **Sonia Fontana** (Goettingen Alemania) **– Análisis de datos paleoecológicos con "R"**

- **Claudia Silva** (USP, Brasil) **–Palinoecología y conservación de abejas**.

## General Sessions (SG)

- **Paleobotánica y Palinología del Paleozoico**
- **Paleobotánica y Palinología del Mesozoico**
- **Paleobotánica y Palinología del Paleógeno-Neógeno**
- **Paleobotánica y Palinología del Cuaternario**

## Thematic Sessions (ST)

- **Paleoxilología**
- **Briofitas, helechos y licofitas**
- **Palinofacies**
- **Palinología Forense**
- **Nuevas metodologías en Paleobotánica y Palinología**
- **Los microrrestos vegetales como herramienta para la reconstrucción paleoambiental y arqueológica (Fitolitos, Diatomeas, Polen, Almidones)**
- **Melisopalinología y Palinología asociada con agentes bióticos dispersores de polen**. (Sesión especial: Palinología en Abejas sin Aguijón: desde la identidad de los granos de polen al uso sustentable y conservación de abejas meliponas)
- **Palinomicología y Técnicas de procesamiento modernas**

## Courses

**Paraná (4 - 5 de august)**

**Palinofacies** – Dres. Marcelo Martínez, Daniela Olivera (Universidad Nacional del Sur) – 4th full day.

**Palinología Forense** – Dra. Leticia Povilauskas (Universidad Nacional de La Plata) – 5th full day.

**Taller de Red de Catálogos Polínicos** – Dra. Claudia da Silva (Universidad de Sao Paulo, Brasil)- 4-5 full days. See also **http://rcpol.org.br/en/homepage/**

**Diamante (6 to 10 th august)**

**Análisis de datos paleoecológicos en R-** Thomas Giesecke, Sonia Fontana (Univ. de Göttingen) y Marcos Echeverría (Univ. de Mar del Plata) – 5 full days.

**El microscopio electrónico de escritorio en Paleobotánica y Palinología -** MSc. Ing. José Félix Vilá (CICYTTP) – 6th full day.

**Introducción al uso de citometría en plantas** - Ing. Agr. Florencia Galdeano (IBONE-CONICET y UNNE) – 7-8 full days (to be **CONFIRMED**).

**We invite you to pre-register for the courses that will be taught within the framework of the Paleobotanical and Palynology Symposium in Argentina 2018 SENDING YOUR LIST ACCORDING TO YOUR ELECTION TO MAIL sapp2018@palino.com.ar**

**Detailed information about each course and its requirements should be consulted on the website: http://fcyt.uader.edu.ar/web/sapp2018/cursos**

## The Latin American Association of Paleobotany and Palynology (ALPP) and the International Organisation of Palaeobotany (IOP) Awards

The ALPP and IOP associations kindly offer awards for PhD students and young postdocs (up to 5 years after defending their doctorate), at the SAPP conference in July 30-August 5, 2018.

The IOP will award three participants who present best talks as first author in the field of Paleobotany.

The ALPP will award four participants who present best talks as first author in the field of Paleobotany and Palynology.

Participants do need to indicate if they apply for one or both awards in the registration form (see in the website of SAPP, and see IOP newsletter) and to which category (PhD student or young postdoc) they belong.

They must be current members of IOP and ALPP at the time of registration, or become a member by the first day during registration at the meeting. The members of the Directive Committee will select the jury that will evaluate the participants during the event.

Winners will receive their prizes at the ALPP Assembly at the end of the event, which consists of a certificate and 100 USD. For inquiries about the award or the means to partner with IOP or ALPP please contact Dr. Mercedes Di Pasquo (medipa@cicyttp.org.ar).
ALPP - http://alpaleobotanicapalinologia.blogspot.com.ar
IOP- http://palaeobotany.org/page/forthcoming-meetings

## WEBSITE INFORMATION

All the information related to this symposium will be channeled through the web: http://fcyt.uader.edu.ar/web/sapp2018

Soon, information related to the program and schedule will be provided, as well as accommodation, transportation (how to get there) and tourism.

**We invite you to visit it frequently to have updated the information of all the aspects related to the symposium**

## ORGANIZING COMMITTEE XVII SAPP

**President**

Dra. Mercedes di Pasquo (CICYTTP)

**Vicepresident**

Dra. Guillermina Fagúndez (CICYTTP)

**Secretaries**

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Dra. Josefina Bodnar (FCNyM –UNLP)

Dra. Marcela Quetglas (FCNyM –UNLP)

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Ing. Agr. Daniela Chemez (CICYTTP)

Dra. Sol Noetinger (MACN)

Dra. Leticia Povilauskas (FCNyM –UNLP)

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## Registration

**Abstract submission is now closed for the CANQUA/AMQUA 2018 conference**. Registration will re-open shortly for those Government scientists awaiting travel approval. The conference registration fee includes all conference sessions, opening reception on Tuesday, August 7th, 2018; all lunches (August 8-10th); Mid-Conference field trip on Thursday August 9th, 2018; Banquet on Friday August 10th, 2018; and refreshment breaks. Registration will be done through the online payment form below using a Visa or MasterCard, there will be no onsite registration available. All fees are quoted in Canadian dollars, and exclude HST (13%), which will be added on the subsequent payment page.

**Registration fees:**

Professional: $525
Early Career: $325

**For More Information: https://www.quaternary2018.com/**

EPPC DUBLIN 2018

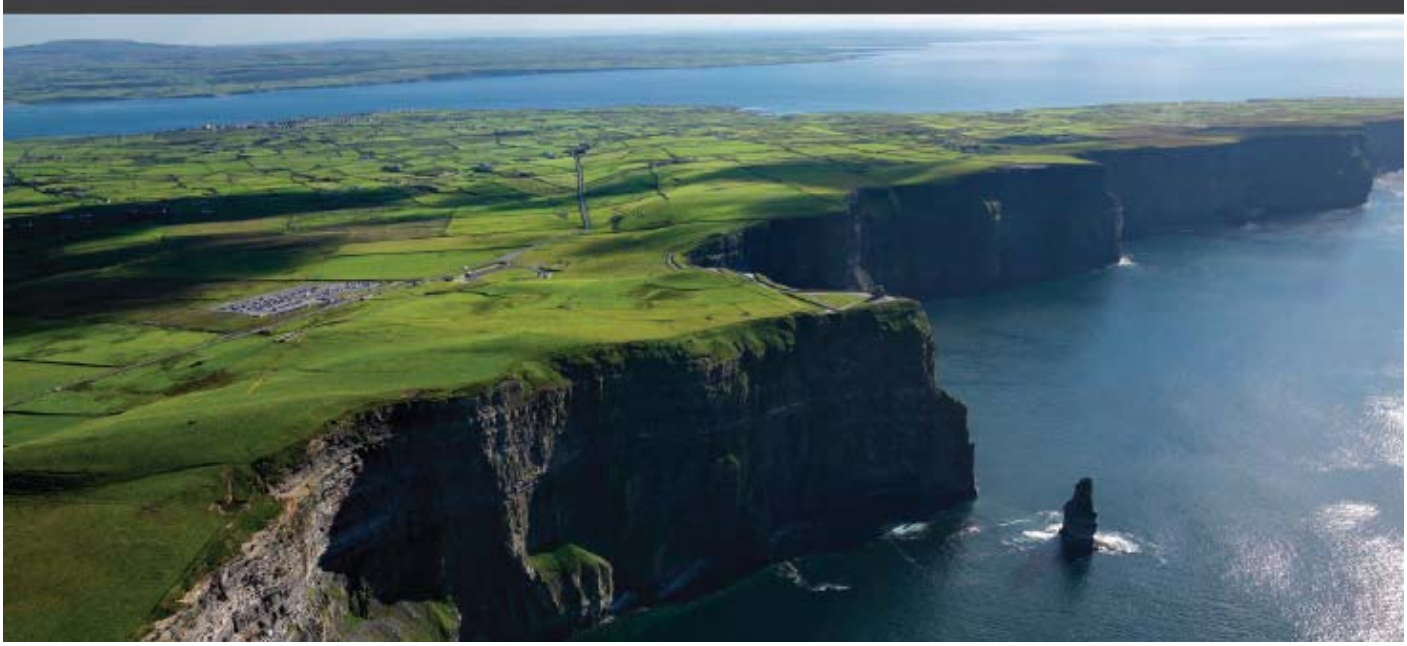
10TH EUROPEAN PALAEOBOTANY & PALYNOLOGY CONFERENCE

University College Dublin, Ireland

12th-17th August 2018

Welcome Reception: Guinness Storehouse Sunday 12th
Conference Dinner: The Banking Hall, Westin Dublin Hotel Thursday 16th
Scientific Sessions: O'Brien Centre for Science, UCD 13th-17th
Partners: Trinity College Dublin; National Museum of Ireland; National Botanic Gardens of Ireland

EPPC2018@ucd.ie



# 10TH EUROPEAN PALAEOBOTANY & PALYNOLOGY CONFERENCE, DUBLIN 2018.

**First Circular**

## The Micropalaeonological Society

# 6th Silicofossil and Palynology Meeting

## Plymouth University, UK

## September 5th – September 8th 2018

This 6th meeting of the Silicofossil and Palynology Groups will be hosted by the School of Geography, Earth & Environmental Sciences, Plymouth University. The university is one of the so-called post-1992 universities, having been Plymouth Polytechnic since 1971. Geosciences has been taught here since 1966, although the roots of the present university can be traced back to a School of Navigation that was founded in 1862. This foundation was both promoted, and assisted, by Captain Fitzroy who donated some of his navigational equipment to the new school. Fitzroy was, of course, the Master of the HMS *Beagle*, which carried Charles Darwin on his epic voyage that began in Plymouth in 1831. A plaque marks the area opposite Barn Pool where the HMS *Beagle* was anchored, awaiting a favourable tide to depart just after Christmas. Sadly, Fitzroy committed suicide after the publication of 'Origin of Species' as he was a devout Christian: ironic that the geologists and palaeontologists in the university are housed in the Fitzroy Building.

Plymouth University has a strong marine presence, with the Marine Institute forming a cross-university collection of staff, students and research groups. The Marine Institute is our 'formal' link with the other marine centres in the city, including the Marine Biological Association of the U.K., Plymouth Marine Laboratory, Sir Alastair Hardy Foundation for Ocean Science, National Marine Aquarium and the Diving Diseases Centre. There are, spread throughout all these research centres, more marine scientists in Plymouth than any other location in the United Kingdom.

Micropalaeontology forms a key part of the undergraduate teaching programme and, since 1973, there has been a near-continuous stream of PhD students being trained for work on foraminifera, dinoflagellates cysts, diatoms, *etc*. Many undergraduate students elect to study microfossils as a part of the research projects, and many of these students have subsequently studied for MSc, MRes and PhD degrees elsewhere in the UK and abroad. At present, we have a growing presence in the 'molluscan world' with on-going research on pteropods, heteropods and statoliths (squid ear bones).

Prof. Kevin Jones (Dean of Faculty of Science and the Environment), Dr Mark Anderson (Head of School), and the staff extend a welcome to all those planning to attend this annual meeting that brings together those with interests in silicofossils and palynology.

The meeting will follow previous (successful) formats, with both oral presentations and posters. A limited number of key-note lecturers will be selected from the abstracts submitted by potential participants. Those intending to attend are asked to submit their abstracts for both oral presentations and posters (as Word doc. files) – by e-mail attachment – to Prof. Malcolm Hart [mhart@plymouth.ac.uk] as soon as possible, and preferably by mid-March 2018. This will allow us to assemble the programme and inform all participants as early as possible of the potential content of the meeting. An example of the style of abstract required is given with this Circular.

## Getting to Plymouth

Plymouth is a city of 275,000 souls, but sits in a generally rural area, located between the moors (Varsican granites) of Dartmoor and Bodmin Moor and the coastline of South-west England. The city is fairly remote from other centres of population in the United Kingdom, but there are reasonable transport links. There are rail services from London (First Great Western), Southern England (South West Trains) and the rest of the UK (Cross Country Trains) direct to Plymouth, with many trains extending onwards to Penzance in Cornwall. Sadly, the UK pricing system for its rail services is complex and one can buy cheaper tickets in advance from websites, or at least ask for less expensive tickets (off-peak, saver, etc.) at stations. Air flights to Exeter International Airport are operated (mainly) by Flybe, with tickets available from their website. On arrival into Exeter Airport, there are buses or taxis to Paris Street Bus Station (then use X38 bus to Plymouth) or St David's Railway Station, from where Plymouth is one hour by train. Bristol International Airport is served by a much greater number of airlines (KLM, Easyjet, Ryanair, Flybe, British Midland, Lufthansa, Helvetic, etc.) and from the airport one can either rent a car or take the express coach direct to Bristol Temple Meads Station. Plymouth is 2 hours by train from Bristol. A more convenient route (and less expensive) is to take the 'Falcon' bus from Bristol Airport (outside terminal) direct to Plymouth Coach Station. This takes ~2 hours and runs every hour. For those arriving into London Heathrow Airport (or London City), travel to Plymouth can be via train or coach. Trains to Plymouth depart from Paddington Station (taking 3.5 to 4 hours), while National Express Coaches depart direct from Heathrow Central Bus Station, taking approximately 4 hours. If arriving at London City Airport, the coaches depart from Victoria Coach Station in Central London and take slightly longer (4.5 to 5 hours).

In the summer months there are also ferries operating between Santander (Spain) and Roscoff (Brittany). These boats arrive just to the west of – but still within – the city centre and provide a relaxing way of travelling to the conference for those in Spain or France. For those in the UK, and who may be contemplating travel by car, there will be **no parking available on campus** as the university has a parking allocation and charging system in place all year. Anyone wishing to travel by car may want to consider accommodation at one of the hotels outside the immediate city centre (Premier Inn, Travelodge, Future Inn, *etc*.) and use public transport to/from the university. As the university is located in the centre of the city, most bus services into the city come near to the campus. Some of the larger hotels in the city (Copthorne, Jury's Inn, Duke of Cornwall, Holiday Inn) have underground car parks for residents, and all are within walking distance of the campus. Please contact the conference organisation if you have any specific queries about travel. We will make lists of hotels, guest houses and b/b locations available shortly.

## Plymouth City Centre

Despite the population size, the city centre is quite small and walking times between accommodation and the university will normally be 15–20 minutes at most. The E–W ridge of Middle Devonian limestone forms the southern end of the city, facing out from the Hoe towards Plymouth Sound. The city was formed by the merger of Plymouth, Devonport and Stonehouse: the so-called three towns. Close to the centre of the city is the area known as the Barbican, an old Elizabethan quarter that is now host to a range of eating (and drinking) locations. This is the home of the famous Plymouth Gin Distillery, from which you can buy a range of gin, including the local delicacy sloe gin! The university is right in the centre, close to the railway station, bus and coach station, and the main shopping centre. This is largely the reason for the university having to restrict parking; we are located just 5 minutes walk from Drake Circus Shopping Centre and would by overwhelmed by shoppers trying to park their cars.

## The University Campus

The university campus is quite small, though new, and walking distances are small. The meeting will be in the Portland Square Building, with poster spaces, lecture theatre and coffee/food area all within the same area (on one floor). There is disabled access to this facility. Maps of the campus can be downloaded from the university website (www.plymouth.ac.uk).

## Draft Schedule for the Meeting

This draft schedule gives a brief summary of the meeting, although timings and locations may change as numbers of talks being offered, and the posters, will dictate the final programme. **Please regard this as a guide to the events.**

While there will soon be a formal registration (and payment) process in operation, we are trying to keep costs to a minimum especially for students. We will be operating a ***no-frills*** conference, so do not expect to receive gifts, ornaments, rucksacks, expensive pens, hats, *etc*., and this will allow the costs to be controlled. We presently estimate registration, which includes coffees, teas, lunches, evening meal on Friday ('Fish and Chips' supper on campus), conference bag, badge and abstract volume will be approximately £100, with students slightly less. The conference dinner, and field excursion will involve an extra charge that will be clear at time of registration. Any participants not registered (and paid in advance) will be assumed to be non-attendees and removed from the programme, unless some special arrangements are in place and agreed by the organisers.

## Outline Programme (for planning purposes)

**Wednesday 5th September 2018**

1600 Registration opens

1700 – 1900 Icebreaker, with buffet/nibbles, *etc*.

**Thursday 6th September 2018**

0830 Registration opens

0900 – 0915 Welcome & Introduction

0915 – 1230 Talks of 15 minutes or 20 minutes, with coffee break

1230 Buffet lunch, including a poster session

1400 –1730 Talks of 15 minutes or 20 minutes, with coffee/tea break

1730 Discussion

1800 End of sessions

**1930 (for 2000) Conference Dinner**

**Friday 7th September 2018**

0830 Registration opens

0900 – 1230 Talks of 15 minutes or 20 minutes, with coffee break

1230 Buffet lunch, including a poster session

1400 Talks of 15 minutes or 20 minutes, with coffee/tea break

1730 Discussion, choice of venue for 2020 meeting and close

1800 End of sessions, removal of posters from boards, etc.

1830 Fish' n' Chip supper in Drake's Café (on universitycampus)

**Saturday 8th September**

Optional field excursion to the Jurassic Coast, including Budleigh Salterton, Beer area, and – if time – Lyme Regis. A packed lunch will be provided for participants with departures at 0900 from campus.

## Preliminary Registration Form

Please return this pro-forma as an e-mail attachment (or by Fax to +441752584766), *as soon as possible*, to Professor Malcolm Hart [mhart@plymouth.ac.uk]. The **Final Registration Form** will require further details and payment to be made in advance of the meeting. Anyone with difficulties over advance payment will have to contact the organisers. Please provide the information requested below.

**Name:**

**Preferred Title (Prof., Dr, etc.):**

**Full Address (including postcode, country, etc.):**

**Telephone Number (including national code):**

**Fax Number (including national code):**

**E-mail address:**

**Title of proposed oral presentation or poster:**

**List of authors involved, but please underline the person giving the oral presentation or responsible for attending with the poster:**

**Do you wish this to be ORAL (Yes/No), a POSTER (Yes/No) or EITHER (Yes/No)**

**Are you considering attending the field excursion: Yes/No**

**Are you considering attending any of the Thursday workshops: Yes/No**

**Do you have any special dietary issues (e.g., vegetarian, vegan, gluten-free diet, or other):**

**The name badges we will use will be simple, with bold – readable – printing. Please indicate here the name (given and family) and location (e.g., Bristol University), that you wish to have on the badge:**

**Are you intending to bring someone with you who will not be attending the meeting, but who may wish to be involved with some aspects of the social events?**

## Abstract Submission

Abstracts for both talks and posters should be sent as Microsoft Word (doc., not docx.) files using the following format. Please send to mhart@plymouth.ac.uk

Title (14 pt Arial, bold, centred)

< blank line >

Authors (12pt, bold, centred, presenting author underlined, using given name, initial, family name for all authors; use superscript numbers to identify addresses)

< blank line >

Addresses (11pt, centred, identified by superscript numbers, in the order department, institution, address, city, post-code, country)

Presenting author E-mail (centred)

Abstract (12pt, no indentation, right and left justified, fossil names italic, references may be included, written in full in 11pt at the end of the written abstract). If you wish to substitute a ***simple*** diagram (black/white) within the abstract this can be done provided that the total length stated below is not exceeded.

**NOTE THAT THE TOTAL LENGTH MUST NOT EXCEED ONE PAGE A4 PAPER, BUT MAY BE LESS THAN THIS. NOTE THAT THE FOLLOWING IS AN EXAMPLE OF THE STYLE AND SIZE OF LETTERING.**

# The Holocene separation of Jersey from mainland Europe

**Malcolm B. Hart[1], Paul Chambers[2], Graham Evans[2], Ralph Nichols[2] & Christopher W. Smart[1]**

[1]School of Geography, Earth & Environmental Sciences, Plymouth University, Drake Circus, Plymouth PL4 8AA, U.K.

[2]Société Jersiaise, 7 Pier Road, St Helier, Jersey JE2 4XW, U.K.

E-mail: mhart@plymouth.ac.uk

The island of Jersey receives most of its electrical power from France by way of two submarine cables. These are now nearing a time when replacement must be considered and a new cable is now planned. More than fifty marine boreholes have been drilled into the seabed between France and the east coast of Jersey and these are being used to plan the route of the new cable by consultants. Aside from rare, mainly terrestrial, Pleistocene and Holocene sediments, Jersey is formed of Precambrian to Devonian 'basement' and the off-shore area, at low tide, is dominated by E–W trending rock platforms including, to the north, Les Ecréhou and, to the south, Les Minquiers and the Isles Chausey. The Baie du Mont-St-Michel, in which Jersey sits, is macrotidal with an exceptionally large tidal range and the planned cable must be buried within the very limited sediment cover. The sediment succession of the post–Last Glacial Maximum is only present between Grouville, on the east coast of Jersey, and the immediately adjacent coastline of France.

The cores, which are now stored on Jersey, provide a complete record of this Holocene sedimentary record and core OVC-18 is being used as a reference because it contains a near-complete record of the transition from woodland, with peats and plant beds, to inter-tidal mud flats and, eventually, marine sediments with abundant marine fossils and highly significant occurrences of the calcareous alga *Phymatolithon calcareum* (known locally as maerl). This core, therefore, contains a record of Holocene sea level rise through to the invasion of the slipper limpet *Crepidula* in 1962. Many of the samples contain well-preserved assemblages of foraminifera and ostracods that allow the reconstruction of a range of sub-environments through to fully marine. Below the terrestrial sediments in core OVC-18 is a thickness of carbonate-rich, marine sands that may be of Eocene age or derived from pre-existing Eocene sediments.

# ICA2018

## 11th International Congress on Aerobiology

**3 - 7 September 2018, Parma, Italy**

### ADVANCES IN AEROBIOLOGY FOR THE PRESERVATION OF HUMAN AND ENVIRONMENTAL HEALTH: A MULTIDISCIPLINARY APPROACH

The Congress is promoted by the IAA (International Association for Aerobiology) and AIA (Italian Association of Aerobiology). MV Congressi is in charge of the Organising Secretariat.

The Congress will take place in Parma from 3rd to 7th September 2018. For Italian aerobiologists it is a major achievement and a welcome return (after Perugia 1998); Italy has, in fact, a long tradition of Aerobiology.

The challenge of ICA2018 will be to ensure a multidisciplinary approach to improve a recognition of aerobiology in society and amongst public authorities and politicians to spread and to support information on regional, national and international levels of aerobiological monitoring networks. It will be important to consider that pollen, fungal spores and allergens can be biological pollutants and all knowledge about this as a fundamental aspect of the assessment of every aspect of air quality. It is very important a close collaboration between aerobiologists and clinicians with botanists, hygienists, environmentalists, nurserymen, urban designers, public authorities, associations of patients to collaborate in order to broaden our horizon to improve the health and life quality of patient with allergic respiratory diseases reducing direct and indirect sanitary costs. Advances in aerobiology researches have not only led to improvements in allergology, but have also had important impact in other fields, such as agriculture, environmental hygiene, forensics, global changes, management of indoor air quality, phytopathology, preservation of cultural heritage, urban planning etc.

The themes of the Congress will explore the following main topics:

| |
|---|
| Agricultural applications |
| Allergens, Organic, Organisms, |
| Cultural heritage |
| Environmental |
| Forensics |
| Fundamental mechanisms |
| General aerobiology |
| Health impact |
| Indoor |

| Monitoring, Networks |
| --- |
| Palynology |
| Ragweed and news invasive allergenic plants |

Parma – of about 180,000 inhabitants - is an elegant city full of charm, where you feel the lovely atmosphere of a little capital. Parma offers the guests a rich cultural heritage, the surrounding countryside, a lyrical music tradition and food excellences. The airport of Parma has direct connections with London. Parma is also conveniently located with respect to the airports of Milan, Bergamo Orio al Serio, Bologna and Verona. There are direct connections by high speed trains to Rome. The strategic position of Parma allows you to reach in short time several cities (Venice, Florence, Ferrara, Verona, Mantua, Turin, Rome and Naples as well as the Ligurian and Adriatic coastlines, Garda Lake,) to prolong your stay in Italy.

Looking forward to seeing you in Parma in September 2018 for the 11th International Congress on Aerobiology.

Bernard Clot
IAA President

Roberto Albertini
Congress Chairperson, ICA2018

PROMOTED BY:

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ORGANISING SECRETARIAT:

MV CONGRESSI
Meeting & Association Management

Via Marchesi 26 D, 43126 PARMA – Italy Tel. +39-0521 290191 Fax. +39-0521 291314
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**STAY TUNED:**

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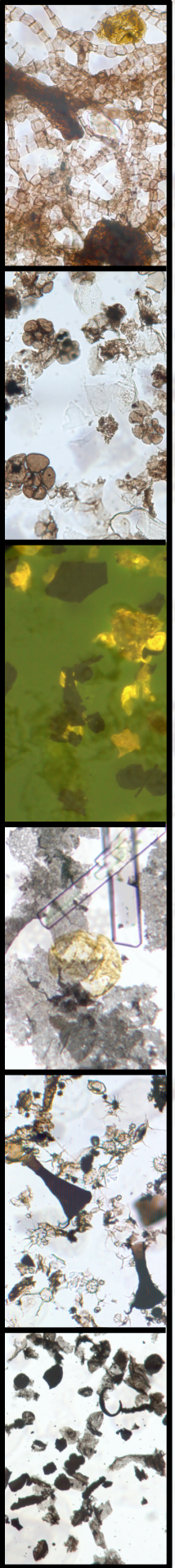

**CIMP sponsored**

# International Course on Organofacies Analysis

# Sedimentary Organic Matter
# Principles & Applications

## September 24-28, 2018
## University of Erlangen

**5 days of lectures and practical microscope exercises.**
Participants can bring their own slides to discuss in the last day

**Course language is English**

General principles of palynology in its widest sense and its applications in facies analysis, sequence stratigraphy and hydrocarbon generation. Basic knowledge in palaeontology, facies analysis or hydrocarbon systems is useful, but not mandatory.

**Course outline**

- **Principles of sedimentary organic matter**
  *Production, distribution and preservation of sedimentary organic matter*
- **Groups of organic matter** (Palynomorphs and more)
  *Marine and terrestrial derived sedimentary organic matter*
- **Application for facies & sequence stratigraphical analysis**
  *General introduction to facies development and sequence stratigraphy*
  *Composition & preservation of sedimentary organic matter related to palaeo-environmental analysis (Palynofacies analysis)*
  *Palynofacies analysis applied to sequence stratigraphy*
- **Application for basin analysis & hydrocarbon generation**
  *Thermal alteration of sedimentary organic matter (maturation)*
  *Classification of organic matter in Hydrocarbon systems (kerogen types)*
  *Hydrocarbon potential based on optical kerogen analysis & organic maturation*

**For more information contact:**
**Dr. Hartmut Jäger** (jaeger@georesources.de)
GeoResources STC, Leimen, Germany
www.georesources.de

SECTOR ENERGÍA Y MINAS
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*Weichselia* (Planta)
Ancash
Cretácico inferior

*Hoekaspis* (Trilobite)
Cusco
Ordovícico medio

Clupeomorpho (pez)
Ancash
Jurásico - Cretácico

# II SIMPOSIO INTERNACIONAL DE PALEONTOLOGÍA DEL PERÚ

## TENDENCIAS MODERNAS DE LA PALEONTOLOGÍA APLICADAS A LA GEOLOGÍA

**27 - 30 noviembre, 2018**

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ST2. Bioestratigrafía y Tiempo Geológico
ST3. Paleoclimatología y Paleogeografía
ST4. Paleontología económica de Yacimientos
ST5. Patrimonio paleontológico y Geoparques
ST6. Geoética paleontológica, Educación y Sociedad.

INQUA 2019 DUBLIN IRELAND


XX INQUA Congress 2019

25th – 31st July 2019

Dublin, Ireland

Meet in Ireland
Connect with Excellence

www.inqua2019.org

# Quaternary Research in Ireland and the Irish Quaternary Association (IQUA)

Ireland's famously beautiful landscape contains a wealth of evidence for a dynamic Quaternary history. With dramatic glacial landforms, varied coastlines, extensive peatlands, innumerable lakes, and a rich archaeological heritage, the island has long fascinated Quaternary scientists. Indeed, Ireland has a history of Quaternary research dating back to the nineteenth century, including famous visits by Agassiz in 1840 and Carvill Lewis in 1885, and its diverse Quaternary archives continue to provide fruitful avenues for research.

The Royal Irish Academy (RIA) 'Committee for Quaternary Research in Ireland' was established in 1934, providing a key stimulus for the study of Ireland's Quaternary history. In the 1970s, the Irish Quaternary Association (IQUA) was founded with a view to co-ordinating and energising all aspects of Quaternary research in Ireland and passing on existing expertise through conferences and especially field excursions. Notable contributors over the lifetime of the Association include Frank Mitchell, Francis Synge, Alan Smith, Bill Watts, Marshall McCabe and Willie Warren. The INQUA Congress held in Birmingham in 1977, which included excursions to Ireland led by Watts and Synge, gave a further impetus to Quaternary studies in Ireland. Frank Mitchell, as President of INQUA for the intercongress period 1969–1973, and later through his classic book, Reading the Irish Landscape, also greatly helped in highlighting the multi-dimensional character of the Quaternary record in Ireland.

Currently, IQUA is a thriving organisation with well over 100 members, and disseminates information about its activities through its webpage (www.iqua.ie) and email list. The link between the RIA and INQUA continues to be positively fostered by active Quaternary scientists represented via the RIA's Geoscience Committee (formerly the National Committee for Geology), and by funding IQUA's national delegates to attend INQUA congresses. Furthermore, the recipient of IQUA's inaugural Frank Mitchell Award for Distinguished Service to Quaternary Research and Teaching, Pete Coxon, has served as both IQUA President (2008-2012) and as Secretary-General of INQUA (2003-2011), thus strengthening the link between IQUA and INQUA.

**The following links will give you a sample of the Congress facilities and Ireland's Quaternary science community and landscape:**

The Irish Quaternary Association (IQUA): **http://www.iqua.ie**

IQUA Field Excursions: **http://www.iqua.ie/publications.html**

The Convention Centre Dublin (the Congress Venue): **http://www.theccd.ie**

Wild Atlantic Way (Ireland's scenery): **http://www.wildatlanticway.com/home/**

Sign up for Congress Newsletters: **www.inqua2019.org**