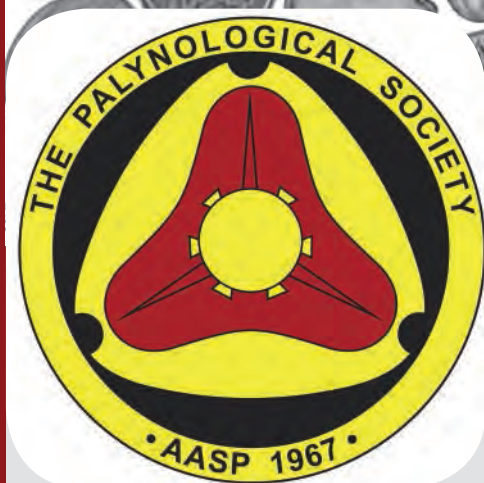
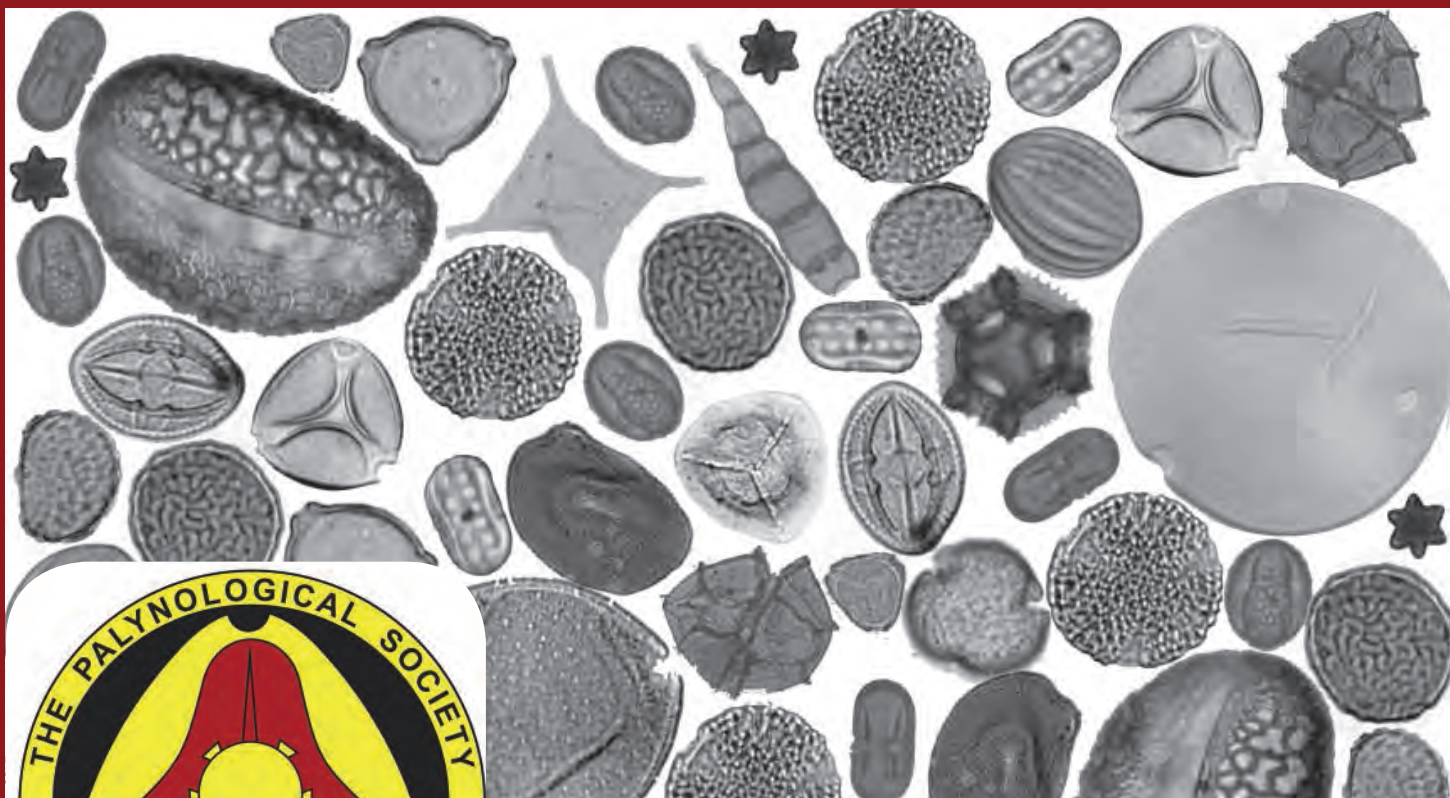


AASP - THE PALYNOLOGICAL SOCIETY

PROMOTING THE SCIENTIFIC UNDERSTANDING OF PALYNOLOGY SINCE 1967



Newsletter

June 2017

Volume 50, Number 2

Published Quarterly by AASP - The Palynological Society



AASP-TPS NEWSLETTER

Published Quarterly by AASP - The Palynological Society

June 2017 Volume 50, Number 2

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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

BOARD OF DIRECTORS

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**POSITION OPEN - PLEASE SEND LETTER OF INTEREST TO
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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.**

A Message From Our President

Well its election time again, and not just the UK general elections or the French Presidential elections; more importantly, it's time to vote on a number of items that effect the running of the society. First of all, we have the vote for new officers. My thanks to all the candidates that volunteered. Please take time to read their bio's and ensure you vote. In addition, I urge you to vote for the change in the by-laws. As previously explained, this change will allow Presidents to be in position for 2 years as opposed to just one. One is not enough to be able to have a positive influence on the society's future; a fringe benefit is that this change reduces the board members by one with a subsequent potential cost savings.

This is also the last newsletter before our Nottingham Conference. This conference will mark the beginning of our 50th Anniversary Year. We've been discussing various ways to celebrate the occasion. At the start of the conference, Thomas Demchuk will give an overview of the society's formation and history. We are also working on getting some 3D silver jewelry made of a small selection of palynomorphs. It is possible to make necklaces, ring or earrings, although necklaces are the most suitable. Current options include *Macrolobium multijugum*, a pollen grain of the Fabaceae. We will have some examples available to examine in Nottingham and these will be available to order. There is still time to add a few additional examples so if you have some 3d image files (stl) of some nice specimens we would be very grateful. Please let us know where these came from as we do not want to infringe copyright. Approximate costs are c. 70-80 euros depending upon the amount of silver required. I've included some images below from the manufacturer (please note these are viruses!). Planning for the conference is proceeding; if you plan on attending the field trip please register asap; places are limited.

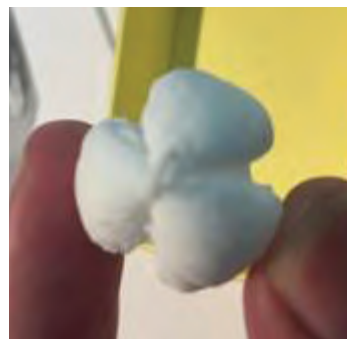
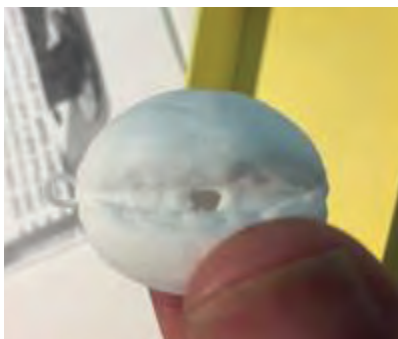


In April, Problem solving with microfossils 4 was held in Houston. This conference was very well attended (over 100) with a good mix of industry and academia. More importantly, a wide demographic distribution was observed which bodes well for the future of micropaleontology. The majority of talks were more foraminifera or nannofossil focused but were in general of a good quality.

At the mid year meeting we spent some time discussing the finances. As previously mentioned our main source of income is through royalties and stipends from Taylor and Francis. This alone is not enough to cover the societies expenses; income from membership is rather small. Whilst I'm happy to report that membership is now over 200 (thanks Steve for efforts following up on unpaid members) I urge individuals to take the pdf copy of palynology as this means that more of the membership fee goes to the society rather than for printing costs. To aid in this transition, the board unanimously agreed to increase membership fees, for the paper copy only, to \$70 per year beginning Jan 1st. 2018. Note, this only affects members receiving the printed copy of palynology; all other membership fees remain the same. Since fees were last raised, we have increased the number of issues of Palynology from 1 to 4 per year. This increase (or equivalent transfer to pdf copies only), together with savings from having one less board member and careful financial management in the future should allow the societies finances to flourish.

To close, please remember to vote in the AASP elections!

Best wishes
Iain



- Teaser -

Here's a preliminary large-scale
mock-ups of the pollen grain
pendant...

MANAGING EDITOR'S REPORT

Part 2 of this year's volume of *Palynology* has been placed online as I write, so all members and subscribers can now access this issue, which is dated May 2017. The contents are reproduced below, and this part comprises thirteen items; these are two obituaries followed by 11 research papers. One of the highlights is a very significant paper on the cyst-theca relationship of the dinoflagellate cyst *Trinovantedinium pallidifulum* by Kenneth Mertens and ten co-authors.

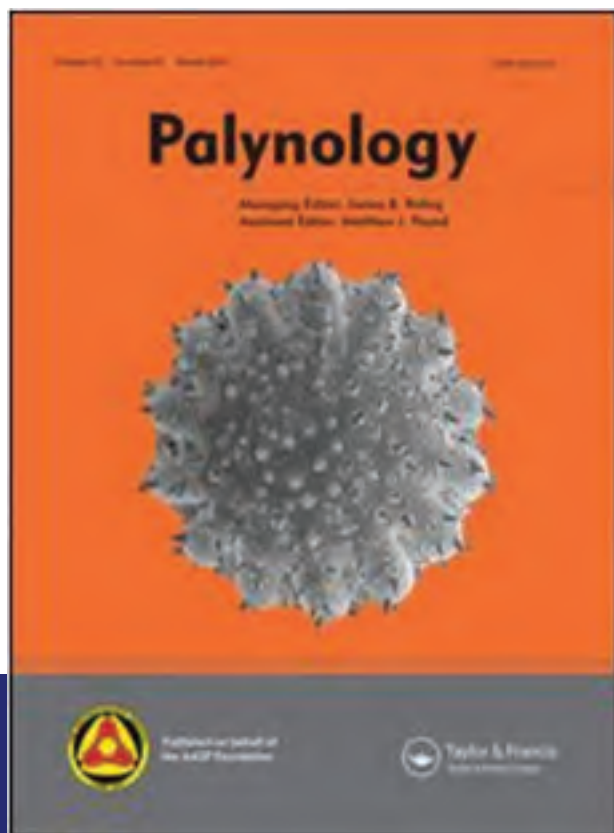
Parts 1 and 2 are being printed and distributed now, and if you receive paper copies, you should receive yours during May. We hope you like the orange cover with a SEM image of a grain of rough buttonweed pollen. Volume 41, Part 2 is the first issue in the new Interact format, which is much better for on screen reading.

Please do not forget to obtain your free copy of No. 48 of the AASP Contributions Series; this is the latest 'Lentin and Williams' index of fossil dinoflagellates, authored by Robert A. Fensome, R. Andrew MacRae and Graham L. Williams. This major publication is only available in pdf format, and can be freely downloaded from <http://palynology.org/contribution-series-number-48-the-new-lentin-and-williams-index-2017/>.

The new production editor for *Palynology* is Josie Brown. If you are an author and need to contact us over any production issue, Josie can be contacted on Josie.Brown@informa.com. Taylor and Francis offer backup to anyone who has difficulties with the online submission and reviewing interface. If you are struggling with any aspect of ScholarOne Manuscripts, please email Victoria Kennelly on Victoria.Kennelly@tandf.co.uk, and she will be pleased to help.

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27th April 2017



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1. McKellar, J.L. Obituary. Noel Jack de Jersey (1923–2016). p. 157–159.
2. Jarvie, D. Obituary. Jack Donald Burgess (1924–2016). p. 160–161.
3. Basumatary, S.K., Gogoi, B. and Prasad, V. Characteristic modern pollen assemblages in relation to vegetation types in the East Khasi Hills, northeast India. p. 162–170.
4. Riddick, N.L., Volik, O., McCarthy, F.M.G. and Danesh, D.C. The effect of acetolysis on desmids. p. 171–179.
5. Eble, C.F. The use of glycol ethers to help reduce amorphous organic matter (AOM) in palynological preparations. p. 180–182.
6. Mertens, K.N., Gu, H., Takano, Y., Price, A.M., Pospelova, V., Bogus, K., Versteegh, G.J.M., Marret, F., Turner, R.E., Rabalais, N.N. and Matsuoka, K. The cyst-theca relationship of the dinoflagellate cyst *Trinovantedinium pallidifulum*, with erection of *Protoperidinium lousianensis* sp. nov. and their phylogenetic position within the Conica group. p. 183–202.
7. Mildenhall, D.C. The role of forensic palynology in sourcing the origin of falsified antimalarial pharmaceuticals. p. 203–206.
8. Matos, V.R. and Santos, F.A.R. The pollen spectrum of the propolis of *Apis mellifera* L. (Apidae) from the Atlantic Rainforest of Bahia, Brazil. p. 207–215.
9. Ballard, J.P., Horn, S.P. and Li, Z.-H. A 23,000-year microscopic charcoal record from Anderson Pond, Tennessee, USA. p. 216–229.
10. Paterson, N.W., Mangerud, G. and Mørk, A. Late Triassic (early Carnian) palynology of shallow stratigraphical core 7830/5-U-1, offshore Kong Karls Land, Norwegian Arctic. p. 230–254.
11. Sagun, V.G. and Auer, C. Pollen morphology of selected Camelineae (Brassicaceae). p. 255–266.
12. Nuñez Otaño, N., di Pasquo, M. and Bianchinotti, M.V. The occurrence of *Potamomyces palmarensis* sp. nov. in the Late Holocene of El Palmar National Park (Colón, Entre Ríos, Argentina) and transfer of fossil species of *Mediaverrunites* to *Potamomyces*. p. 267–277.
13. Rodrigues, I.D., Absy, M.L., Silva-Caminha, S.A.F., Gonçalves-Esteves, V., Mendonça, C.B.F., Ferreira, M.G. and Moura, C.O. Pollen morphology of 25 species in the family Apocynaceae from the Adolpho Ducke Forest Reserve, Amazonas, Brazil. p. 277–296.

ANNUAL MEEING UPDATE – JULY 2017

This represents the updated circular as of early July 2017.

1. Please note that we have reserved some hotel rooms with two hotels, namely the St James and Best Western Plus (was Ramada).
2. The St James Hotel is offering a special rate of £60 B&B for a 'crash pad' and £75 B&B for double or twin rooms. This offer expires on the 4th August. You will need to book directly with the hotel by phone or email and quote the reference "BGS" when booking. Contact +44 (0)115 941 1114 or email info@stjames-hotel.com. Their web address is <http://www.stjames-hotel.com> but the special rate is unfortunately not bookable via this site.
3. Best Western Plus are offering a special rate of £68 B&B on 20 rooms. This offer expires on the 2nd August. You will need to book directly with the hotel by phone or email and quote the reference "British Geological Survey" when booking. Contact +44 (0)115 9128000 or email res@bwncc.co.uk. Their web address is www.bwnottinghamcitycentre.co.uk but the special rate is unfortunately not bookable via this site.
4. We now have 72 people registered.
5. Note that the Carboniferous fieldtrip is nearly sold out.
6. We have finalised the scientific programme. We have symposia on Cretaceous palynology and palynofacies in honour of David J. Batten, fungi, Neogene palynology, Palaeozoic palynology sponsored by Saudi Aramco, and a session dedicated to the memory of Gordon Wood. However we have plenty of availability for posters.

Jim Riding
14 July 2017

ANNUAL MEEING UPDATE – APRIL 2017

This represents the updated circular as of April 2017.

1. Please note that, when you register using www.tmsoc.org/aasp-2017 (see below), Jim Riding gets an email alert, and will acknowledge your registration with an e-receipt. Do not worry, we monitor in-payments all the time and will get acknowledgements out as soon as humanly possible. We are having problems with the button for the Bradgate Park fieldtrip; please bear with us while we fix this.
2. The conference facility now has a safety limit of 100. If we exceed 100 delegates, we will work out a remote system of relaying proceedings. Thus far we have 26 delegates registered. Please try to register as early as you can!
3. If you are travelling from North America, Singapore Airlines offer reasonable fares between Houston and Manchester, England, especially if you book at least two months in advance. You can easily take a train to Nottingham from Manchester Airport. Another good route, with reasonable prices, is to fly from Newark, New Jersey to Birmingham (United offer this service for example). Again, there is a great train service between Birmingham Airport and Nottingham. This represents information only. We are not specifically endorsing Singapore Airlines and United; other air travel solutions are available.
4. We are starting to put together the scientific programme. We have proposed symposia on Cretaceous palynology and palynofacies in honour of David Batten, fungi, Neogene palynology, Palaeozoic palynology and a session dedicated to the memory of Gordon Wood. More suggestions are very welcome. Please send us your abstracts; you are not restricted to specific session; there will be plenty of sessions on general palynology. The session on fungal palynomorphs will be on 6th September.
5. We welcome Barry Lomax of the University of Nottingham to the organising committee.

Jim Riding
27 April 2017

THE 50TH ANNUAL MEETING OF AASP – THE PALYNOLOGICAL SOCIETY

~THE GOLDEN ANNIVERSARY MEETING~

HELD JOINTLY WITH CIMP AND THE MICROPALAEONTOLOGICAL
SOCIETY PALYNOLOGY GROUP

NOTTINGHAM, UK

Sunday 3rd–Thursday 7th SEPTEMBER 2017

Organising Committee:

James B. Riding (BGS, representing AASP-TPS)

Jan A.I. Hennissen (BGS, representing AASP-TPS)

Stewart G. Molyneux (BGS, representing AASP-TPS)

Maria Wilson (BGS)

Matthew J. Pound (Northumbria University, representing TMS)

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

Barry Lomax (University of Nottingham)



OFFICIAL SPONSORS:

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FIFTH CIRCULAR – JUNE/JULY 2017

The 50th annual meeting of AASP – The Palynological Society will be held at the British Geological Survey (BGS), Keyworth, Nottingham NG12 5GG between the 3rd and 7th of September 2017. This will be the seventh time our main yearly meeting has been held in Europe, and the third occasion it has taken place in the UK.

This conference is held jointly with CIMP and The Micropalaeontological Society (TMS) Palynology Group. The team of convenors look forward to welcoming you to the headquarters of BGS for this three-day meeting with the opportunity to participate in two one-day field trips to widely geologically contrasting areas of the East Midlands of England. There will also be a workshop on the use of StrataBugs software and another one on “Biostratigraphy: Applications to Petroleum Exploration and Production”. We hope to make this annual meeting extra special because it is the 50th such event! This is the fifth circular, and it will be updated very frequently. We will aim to update it at least every month between now and the meeting.

The conference accommodation will be in several city centre hotels in downtown Nottingham. Delegates will be transported to BGS HQ, and returned back to the city centre each day by bus, and as part of the registration package. BGS is located in the large village of Keyworth which is ca. 9 km south of central Nottingham. Other public transport solutions are available. Morning tea, lunch and afternoon coffee are also all included in the registration package.

If you would like to discuss sponsorship etc., or have any questions whatsoever, please get in touch with Jim Riding (jbri@bgs.ac.uk) or any of the members of the organising committee. We hope to welcome you to Keyworth for the Golden Anniversary meeting in 2017!

Please note that there is a limit on numbers of 100, that being the capacity of the BGS Conference Room where the main sessions will take place. If there are in excess of 100 delegates, we would levy a much reduced registration fee and set up a remote link to the proceedings immediately outside the conference suite. Therefore, the strong message would be to sign up in good time if you wish to guarantee your place. You should register online using the following URL: www.tmsoc.org/aasp-2017. See below for full details.

1. REGISTRATION

CATEGORY	THREE DAY PRICE	SINGLE DAY PRICE
Professional delegate	£120 (post 1st July 2017 = £160; on the door £180)	£60
Student delegate	£50 (post 1st July 2017 = £75; on the door £85)	£25
Retired delegate	£90 (post 1st July 2017 = £110; on the door £120)	£45

Registration comprises:

- Icebreaker at “Fat Cats”, a Nottingham city centre venue on the evening of Sunday, 3rd September (includes two free drinks and some finger food)
- A conference pack including the abstract volume
- Return transport between Nottingham city centre and BGS, Keyworth, Monday through Wednesday
- Morning coffee/tea, lunch and afternoon coffee/tea
- A drinks/nibbles reception at BGS following the first day of the conference, Monday, 4th September

Optional extras:

We are also offering delegates the opportunity to attend two field trips, workshops on StrataBugs and “Biostratigraphy: Applications to Petroleum Exploration and Production”, the conference dinner and the AASP Business “Luncheon” – held at night. These will be charged separately to the core registration package. The costs for these are as follows:

ITEM	PRICE
Field trip to the Carboniferous of the Peak District (3rd September 2017)	£25
Conference dinner (5th September 2017)	£30
AASP Business “Luncheon” held at night (6th September 2017)	£25
Field trip to Bradgate Park, Leicestershire (7th September 2017)	£25
Workshop on the use of StrataBugs software by StrataData Ltd. Held at Keyworth (7th September 2017)	free
Course on <i>Biostratigraphy: Applications to Petroleum Exploration and Production</i> presented by Iain Prince and Katrin Ruckwied, Shell International Exploration & Production. Held at Keyworth (7th September 2017) (up to 12 persons)	free
All of the above	£100

Note that the StrataBugs workshop and the Bradgate Park fieldtrip are both on Thursday 7th September. This clash is, unfortunately, impossible to avoid.

To register, please go to www.tmsoc.org/aasp-2017. Here you will find full details of how to pay using this secure website in GB Pounds Sterling via PayPal. The former URL is on the TMS website (<http://www.tmsoc.org/>). Should you be unable to register via this secure website, please mail a cheque for the registration package and any 'add-ons' you require (make these clear in a covering letter) to Jim Riding (address: BGS, Keyworth, Nottingham NG12 5GG, UK; or: jbri@bgs.ac.uk). Please make cheques payable to THE MICROPALAEONTOLOGICAL SOCIETY. If you wish to pay outwith the TMS website using a credit or debit card, send your card details to the TMS Treasurer, Matt Hampton, at treasurer@tmsoc.org for processing. You can also pay TMS direct using online banking or BACS/SWIFT payments; email the TMS Treasurer, Matt Hampton, for the account details. In all cases, please indicate your name, and precisely what you are ordering. Hopefully we have provided a variety of methods for paying your registration charges.

There is also a dedicated section of the AASP – TPS website for this conference, and this will also include details of how to register and pay. If you have any questions regarding registration, or any aspect of the conference, email Jim Riding on jbri@bgs.ac.uk.

Please note that you should make your payment (its really easy using PayPal!); then your payment will be immediately acknowledged by email by the organising committee.

2. CONFERENCE PLAN

Saturday, 2nd September:

In the afternoon (14.00 h–18.00 h), the outgoing Board of Directors meeting of AASP – TPS will be held at a conference room at Jurys Inn Nottingham, Station Street, Nottingham NG2 3BJ (Tel: +44 115 901 6700; Email: jurysinnnottingham@jurysinns.com). We will select a suitable meeting place for lunch near the conference hotels and Jim will guide attendees to the Jurys Inn, which is a short (~5 minutes) walk away (Jurys Inn is near Nottingham Station). All AASP – TPS members are welcome to attend this meeting as observers.

Sunday, 3rd September:

A one-day fieldtrip to examine key Carboniferous Stage stratotypes in the Peak District of Staffordshire led by Drs Duncan McLean and David Bodman (MB Stratigraphy, Sheffield). Minibuses will depart from the St James Hotel (Rutland Street, Nottingham, NG1 6EB) at 07:30 h. We will be back in Nottingham at ~18:30 h, well in time for the icebreaker. A packed lunch will be supplied. The cost of this excursion is £25, payable with the main registration. There is a maximum number of 27 due to the constraints of the sites we will visit, so please book early for this one.

An icebreaker event will be held between 19:30 h and c. 21:30 h at “The Fat Cat Cafe Bar”, a nearby trendy/funky bar in central Nottingham (<http://fatcatcafebars.com/Nottingham.html>). The address is 11 Chapel Bar, Nottingham NG1 6JQ (tel. 0115 947 5044). Registrants will receive two free drink vouchers, and some finger-food nibbles will be available.

Monday, 4th September:

This will be the first day of the conference. Laid on buses will depart from the St James Hotel at 08:15 h. We plan to include at least one presentation on the history of AASP. Following the scientific sessions, delegates are invited to a drinks reception at BGS. This is included in the registration package and will feature local Nottingham beers (other drink solutions will be available!) and nibbles. Buses will return delegates to Nottingham.

Tuesday, 5th September:

This will be the second day of the conference. Buses will depart from the St James Hotel at 08:15 h. The same vehicles will return delegates to the St James at the end of this event.

In the evening, we will hold the conference dinner. The cost of this will be £30, payable with the main registration. We have booked the “Boundary Edge” restaurant at the legendary Trent Bridge cricket ground immediately south of Nottingham (<http://www.nottinghamshire.gov.uk/celebrate/venues/nottinghamshire-county-cricket-club> or <http://www.trentbridge.co.uk/refined/#index.php>). Trent Bridge is world famous and is widely held to be the most beautiful of all our cricket stadia, and has witnessed many famous tussles between England and our distinguished pantheon of cricketing adversaries from around the world. Do not miss out on the opportunity to visit and dine at a truly iconic sporting venue. We are currently investigating possible guest speaker(s).

Wednesday, 6th September:

This will be the third day of the conference. Buses will depart from the St James Hotel at 08:15 h. The same vehicles will return delegates to Nottingham.

In the evening, we will hold the AASP Business “Luncheon” held at night at (yet) another very funky downtown Nottingham venue. This will be “Cumin”, Nottingham’s leading Indian restaurant (<http://www.thecumin.com/>). “Cumin” is a very short walk from the hotel area at 62–64 Maid Marian Way, Nottingham NG1 6BJ (Phone: 0115 941 9941). The cost of this will be £25, payable with the main registration. This includes a buffet Indian dinner and two drinks. Indian food is the national cuisine of the UK.

Thursday, 7th September:

1. A one-day fieldtrip to examine the Precambrian, Triassic and Quaternary geology of Bradgate Park, Charnwood Forest, Leicestershire led by Jim Riding. There are no restrictions on numbers. You will have the opportunity to hunt for (but not collect!) Ediacaran fossils. You will see the site where the very first representative of this world famous biota was discovered in Precambrian metasediments during the late 1950s. Minibuses will depart the St James Hotel at 08:30 h. We will be back in Nottingham at ~18:00 h. A packed lunch will be supplied. The cost of this excursion is £25, payable with the main registration.
2. Delegates are also invited to a free half-day workshop on the use of StratBugs software run by Paul Britton and John Athersuch of StrataData Limited of Ottershaw, Surrey, UK (<http://www.stratadata.co.uk/>). StratBugs is a very well-established (the industry standard in fact) software package for displaying and manipulating biostratigraphical data of all types. This workshop will be held between 09:00 h and 12:30 h at a conference room at Keyworth and will give novices and beginners the opportunity to get some hands-on experience with StratBugs. It will also be a refresher for those who have used the software before. If you wish to attend this bring your laptop. The workshop will be subject to a maximum of eight persons, so book early!
3. Up to 12 delegates are invited to register for a free course entitled: *Biostratigraphy: Applications to Petroleum Exploration and Production* by Iain Prince and Katrin Ruckwied of Shell International Exploration & Production, Houston, USA. This workshop will be held between 09:00 h and 17:30 h at a conference room at Keyworth. It is a concise introduction of how to maximise micropalaeontological data in an industrial setting. Specifically, the course will give a brief overview of the fossil groups used within the petroleum industry before looking into why we use biostratigraphy and how it can help in the exploration and production process. After a short practical where groups horizontally steer a production well using biostratigraphical data, some case studies will be shown highlighting how biostratigraphy can either reduce drilling costs, drill safer wells or help obtain more accurate data.
4. In the evening, (~20.00 h–21.30 h), the incoming Board of Directors meeting of AASP – TPS will be held at a venue to be announced later. One option is to use the conference room at Jurys Inn Nottingham, Station Street, Nottingham NG2 3BJ (Tel: +44 115 901 6700; Email: jurysinnnottingham@jurysinns.com) (see above). All members are welcome to attend as observers.

3. TRAVELLING TO NOTTINGHAM (AND BACK)

All UK residents will be fully aware that the fair city of Nottingham is one of the most accessible in the country, being situated in the centre of England and slap bang on major road and rail links. See <http://www.experiencenottinghamshire.com/nottingham>.

Overseas visitors can fly to Birmingham, East Midlands, London or Manchester airports. Any of the several London airports are absolutely fine. All these airports allow for efficient rail travel to Nottingham except for the most local one, East Midlands (EMA). If you go to EMA, take a cab/taxi or bus (Nottingham Skylink; see <https://www.trentbarton.co.uk/services/skylinknottingham/welcome>) to Nottingham.

Long haul travellers are most likely to arrive at Heathrow or Gatwick airports in London. In this case, simply take the rail shuttle (Heathrow or Gatwick Express) to central London and head on the metro/underground for St Pancras mainline station (this is at Kings Cross/St Pancras metro/underground station). From St Pancras, frequent and fast trains will whizz you to Nottingham in just a couple of hours. If you have any questions about travel to Nottingham, email Jim Riding (jbri@bgs.ac.uk).

4. ACCOMMODATION

We recommend that you use either the St James Hotel, Rutland Street, Nottingham, NG1 6EB (<http://www.stjames-hotel.com/>) or the Premier Inn Nottingham City (Chapel Bar), 7 Chapel Quarter, Maid Marian Way, Nottingham NG1 6JS (Tel: 0871 527 9658; or see <http://www.premierinn.com/gb/en/hotels/england/nottinghamshire/nottingham/nottingham-city-centre-chapel-bar.html>). These are “nice but not too pricey” city centre hotels very close to great bars, historic sites, restaurants etc. They are both reasonably priced.

We have negotiated a special deal with the St James Hotel. To take advantage of this discount you need to telephone (+44(0)115 941 1114) or fax (+44(0)115 9410014), or email the hotel (info@stjames-hotel.com), and quote GA000471. There are no group rates available at the Premier Inn so the best way to book is online; please do ensure you book their Chapel Bar Hotel – there are two other Premier Inns in Nottingham!

However, other accommodation is of course available; there are many hotels and apartments in the city including representatives of the major well-known chains such as Ibis, Jurys Inn, Park Plaza, Premier Inn, Ramada, Strathdon, Travelodge etc. Check out the respective websites.

5. LOCAL TRAVEL

Travel between central Nottingham to BGS is provided, but we appreciate you might need to go your own way. The village of Keyworth is located around seven miles (~10 km) south of central Nottingham. A cab/taxi will cost around £15 one way. Other public travel solutions are also available. From Nottingham, you can catch a bus to Keyworth, the *Keyworth Connection* (<https://www.trentbarton.co.uk/services/keyworthconnection/maps-and-times>), which runs from the Broadmarsh Bus Station in central Nottingham. This bus route travels via Nottingham railway station, through the suburb of West Bridgford and on to Keyworth. A single journey costs around £3 and takes about 25 minutes, depending on traffic.

6. THE SCIENTIFIC PROGRAMME

Delegates may submit abstracts from now. The deadline is Monday, 10th July 2017. You may submit oral presentations (15–20 minutes) or present a poster. Please email abstracts to jbri@bgs.ac.uk and janh@bgs.ac.uk. Please use Times New Roman 12 point font, single-spaced, left justified, no more than ~1000 words, include keywords, and also provide your affiliation, address and email.



The BGS Rock Walk. Photo courtesy of James Riding.

Pre-Conference field trip to the Carboniferous of the Peak District, South Derbyshire and North Staffordshire

Sunday 3rd September 2017

Led by Drs Duncan McLean and David Bodman
(MB Stratigraphy Limited, Sheffield; email: mbstratigraphy@gmail.com)

Overview:

This is a fantastic opportunity for up to 27 delegates to examine the Carboniferous strata of central England, including the boundary stratotype sections of several European substages. We will visit some localities of outstanding natural beauty in the Peak District National Park, the UK's first such protected area. There will be a little walking involved over relatively rough ground and two of the sections are in streams (see below).

Aims:

- To examine facies representative of the Viséan to Westphalian basin fill on the southern margin of the Pennine Basin and to understand these in terms of the onshore and offshore Carboniferous petroleum systems.
- To visit Substage boundary stratotype sections that are the focus of ongoing palynological work and that provide key locations for the developing British Carboniferous miospore biozonation.

Itinerary:

1. *Location to be decided.* Exposure of Viséan platform carbonates.
2. *Crowdecote and upper Dovedale.* Views of the Viséan platform margin with scenic reef knolls of Chrome Hill. Nature of the contact with basinal mudstones of Viséan to Namurian age. Development and provenance of Namurian turbidite facies.
3. *Blake Brook.* Alportian stratotype. Chokierian turbidites overlain by Alportian to Kinderscoutian goniatite-bearing hemipelagic mudstones. Nature and significance of Late Carboniferous marine bands. Opportunity to collect goniatites.
4. *Flash.* Lunch stop at the highest village in Britain!
5. *Orchard Farm.* Yeadonian stratotype. Marsdenian to Yeadonian goniatite-bearing hemipelagic mudstones. Opportunity to collect goniatites and bivalves.
6. *Ramshaw Rocks.* Marsdenian sandstones representing deltaic infill of the basin. Sedimentology and provenance. Overview of the Goyt Syncline.
7. *Derbyshire Bridge* (time permitting). Early Langsettian coal measures.
8. *En route.* It will be possible to pass Brassington where dolomitised Viséan limestones and associated pocket deposits of the Miocene Brassington Formation are exposed.

Field trip participants will each be given a field guide and a representative set of palynological slides from the Alportian and Yeadonian stratotype sections.

Logistics:

Transportation will depart from the St James Hotel (Rutland Street, Nottingham, NG1 6EB) at 07:30 h sharp. The distance between central Nottingham and Dovedale is ~33 miles and the journey normally takes around one hour. We will be back in Nottingham at ~18:30 h, well in time for the icebreaker. A packed lunch will be supplied. Flash, where we will take lunch, has a tiny cafe/shop where participants can top-up their packed lunches, or get a hot drink. There is also a pub in the village.

Please note that the two stratotypes are stream sections. It is not possible to get to the Alportian section without some wading in the river. Please can UK-based participants bring wellington boots for this? The organisers can probably provide spare pairs of wellington boots (various sizes) for some of the international visitors.

Cost: £25 including transport, packed lunch, field guide and a set of palynomorph slides from the Alportian and Yeadonian sections visited.



Chrome Hill, Derbyshire (SK 070 673). Apron reef facies in the Bee Low Limestone Formation (Asbian, mid Viséan, mid Mississippian, Carboniferous).



Ramshaw Rocks, Staffordshire (SK 019 622). Delta-top sandstones of the Roaches Grit, Marsden Formation (Marsdenian, Bashkirian, early Pennsylvanian, Carboniferous).



The Alportian Substage stratotype section at Blake Brook, Staffordshire (SK 062 611). This is 12 m of dark, fossiliferous, hemipelagic mudstones of the Morridge Formation. The late Chokierian to early Kinderscoutian succession (Bashkirian, early Pennsylvanian, Carboniferous) is illustrated here.

Post-Conference field trip to Bradgate Park, Charnwood Forest, Leicestershire

Thursday 7rd September 2017

Led by Jim Riding (BGS)

Overview:

This is an excellent introduction to the geology of the Charnwood Forest area of Leicestershire – one of the classic regions of British geology. We will observe Precambrian, Cambrian, Triassic and Quaternary igneous rocks, metasediments and sediments in Bradgate Park. One of the highlights will be the opportunity to see the locality when the famous Neoproterozoic Ediacaran fauna was discovered and understood as fossils in the late 1950s (see below). There is no limit on numbers. The excursion will involve a single circular geological walk of approximately 8 km. The park is a well-known local beauty spot and there is much historical and natural history interest. If you are from outside the UK, do not miss this one!

The coach(es) will park at the Hunts Hill (Old John) car park (Grid. Reference SK 5232 1167). If you wish to travel independently, it can be reached by turning right off the B5330 (assuming you are approaching from the north), just north of Swithland. Or, for those of you with a large-scale map, it is at the south end of Benscliffe Road. From Leicester, at the 'T'-junction in Newton Linford, turn left and drive up Sharpley Hill. Hunts Hill car park is signposted on the right after ca. 1.5 km. This is a pay and display car park and you will have to obtain a valid ticket for the day. The trip will end at the Hunts Hill car park. The relevant Ordnance Survey Explorer map is number 246 (Loughborough, Melton Mowbray and Syston).

We will be examining metamorphic (metasedimentary), sedimentary and igneous rocks. There is no need for hard hats, and geological hammers cannot be used in the park. Please do not bring your geological hammer!

The famous Ediacaran fossil *Charnia masoni* was discovered by Roger Mason, a schoolboy who later became a geologist (professor of metamorphic petrology!). In 1957 Roger and his friends were rock climbing and they noticed this unusual fossil, and took a rubbing of it. Roger Mason took a local geologist, Trevor D. Ford to the site; Ford later described *Charnia masoni* in 1959 ('Pre-Cambrian fossils from Charnwood Forest'. Proceedings of the Yorkshire Geological Society, Volume 31, pp. 211–217, doi: 10.1144/pygs.31.3.211). The holotype is housed at New Walk Museum and Art Gallery, Leicester. After the formalisation of *Charnia masoni*, it transpired that Tina Negus, who was then a 15 year old schoolgirl, had seen this fossil one year before Roger Mason and his friends, but her teacher did not think it was possible that fossils could be present in Precambrian metasediments!

The walk will largely be on established footpaths, but will be relatively rough in places, and involve some moderate slopes. You will require suitable clothing for British Summer conditions, including strong shoes or walking boots, in addition to any personal effects such as suncream, insect repellent and personal first aid items. There will be a lunch break en route. A packed lunch will be provided. Toilets will be available at certain points along the way.

Background reading:

McGrath, A. 2004. *A geological walk around Bradgate Park and Swithland Wood*. British Geological Survey, 31 p.

Ambrose, K., Carney, J.N., Lott, G.K., Weightman, G., and McGrath, A. 2007. *Exploring the landscape of Charnwood Forest and Mountsorrel. A walker's guide showing the rocks and landscape of Charnwood Forest and Mountsorrel*. British Geological Survey, 52 p. plus map.

Student Awards For Travel to the Nottingham Annual Meeting

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

Procedure for Travel Grant Application: Amount of travel award is variable based on need. The committee has been allotted \$1500 to divide among successful applicants.

The application should 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) 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 **AUGUST 1, 2017**.

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

Celebrating the AASP Newsletter's 50th issue!

Issue 50-2 continues to present a middle-aged society struggling with many of the same challenges it did in its first year. Membership is growing, albeit slowly, finances are fairly stable but need shoring up, and we continue to celebrate the accomplishments and lives of our colleagues. We are nicely aged, the fine wine of the palynological community!

The timing of Issue 2 has been a moving target in years past, with its issue ranging from March(1971-1979) to April (1970, 1980-1998), to May (2000), to June (2001-2016), July (1999 & 2017), to August (1968-1969). Sadly, it was delayed this year. For that, my apologies.

As we continue celebrating the 50th issue of the newsletter, some highlights from the first 25 years of Newsletters:

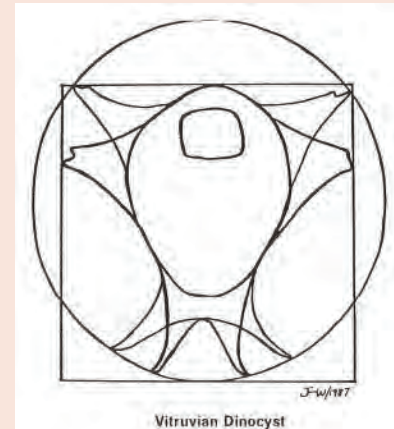
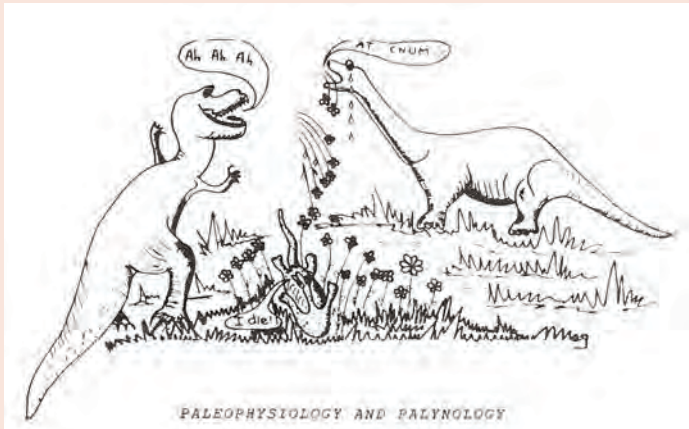
7(1): The President's Letter became a running feature of the first page of the Newsletter. It disappeared after a year, only to reappear in 1987.

13(2): Palynopoetry began with "Stomp Stomp in Snuggedy Swamp."

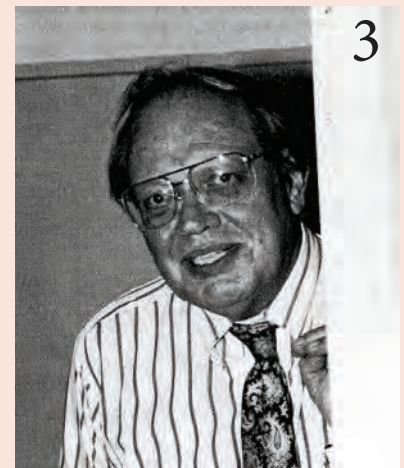
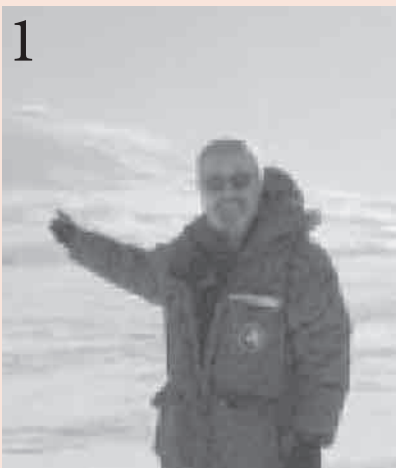
14(2): "Vaughn Bryant Kisses off "Today" Show."

17(2): Satish Strivastava published "A Meeting of Minds."

AASP has always had a fondness for dinos...of the four-legged and the four-armed variety!



How many of you correctly guessed the identity of our previous newsletter editors in NL 50-1? They were: 1) Richard Pierce; 2) Vaughn Bryant; and 3) Lew Stover. Can you name the next trio?



News From CENEX!

CENEX is happy to announce the expansion of its staff. Left is AASP Chair and Associate Professor Sophie Warny, and right is the newly appointed Adjunct Professor Thomas Demchuk. Dr. Demchuk will work together with Dr. Warny to provide industry-linked research projects to CENEX graduate students to promote relationships between CENEX and the oil and gas industry. CENEX is currently undergoing major renovation and expansion, stay tuned for updates and the big reveal in the September newsletter.



In Memoriam...

Arthur (Art) Richard Sweet

1942 - 2017

Dr. Arthur (Art) Sweet passed away peacefully at his home on March 5, 2017 at the age of 74. Art was one of Canada's gifted geologists and palynologists and his death is a loss to the country and the scientific community. He will be missed by all of those whose lives he touched.

Art was born in Lloydminster, Sask. in November, 1942. Berry picking, grouse hunting and fishing during his childhood on the family farm by Gull Lake, Alberta, stimulated his active interest in the natural world. Plowed fields yielded interesting rocks, and traditional farming gave him knowledge that informed his future life in urban Calgary.

Art started his education, to Grade 6, in one-room schoolhouse, later earning a B.Sc. from the University of Alberta, Edmonton, in 1963. He worked as a geological assistant and science teacher until completing his Ph.D. in 1972 at the University of Calgary, majoring in palynology under the guidance of Dr. Len Hills. From 1969 to 1971, he was granted the Izaak Walton Killam Memorial Award for doctoral students of outstanding caliber, while completing his thesis on *Azolla* and *Azollopsis*. In 1972, Art started as a Research Scientist at the Geological Survey of Canada, for a year in Ottawa and then in Calgary at the Institute of Sedimentary and Petroleum Geology (now GSC-Calgary), where he remained throughout his career. Art married his wife, Alberta, in 1966 and they have three children, David, Patrick and Karilynn and seven grandchildren.

At the GSC, Art first worked on Late Jurassic and Early Cretaceous terrestrial palynofloras for the coal group. He was soon drawn to study the incredible diversification of angiosperms in the Cretaceous, and the post 'K-T' boundary flora of the Paleogene. His objective was to understand angiosperm pollen phylogenies and to develop more refined biostratigraphies for western and northern Canada, often with synergistic collaboration from paleomagnetic studies. Art's encyclopedic memory, for both literature and for pollen and spore specimens that he had seen, made him a scientist well suited to explore this diverse and formative interval of angiosperm development. The 'Cretaceous-Tertiary' boundary and contiguous strata particularly fascinated him. Many end-of-hallway coffee conversations dealt with the perturbations of floras around the world-changing Cretaceous-Paleogene boundary event. The iridium anomaly provided a precise correlation, and Art made detailed investigations of many sections in western and northern Canada, including co-leader of a Canadian Continental Drilling Project, while he meticulously documented palynological evidence of floral transitions preceding, and following the boundary. He elucidated both stratigraphic and latitudinal changes in flora and vegetation. In later years, his biostratigraphic knowledge was applied to derive a record of now-eroded sedimentary rock that once covered the Slave Craton, evidence being derived from fossiliferous sedimentary clasts within kimberlites. His most recent focus was the Albian through Paleogene strata of Bylot Island and the Yukon and Northwest Territories. From 2002-2008, he served as GSC's Chief Paleontologist and Paleolab Leader.

A contributor of geologically essential age and environmental information, Art authored or co-authored at least 119 professional publications and 127 abstracts and/or posters at scientific meetings. GSC paleontologists support the research of GSC's stratigraphers and mappers by reporting on referred samples. Art authored 390 GSC internal Paleontology Reports on some 4700 samples. These internal reports are substantial research documents in their own right. Art recorded the slide and microscope coordinates of important specimens from his research, leaving a detailed record of evidence for the future. Art personally collected 12,516 outcrop and well samples between 1967 and 2015. The tally of publications,



reports and samples documents his contribution to Canadian geology, to 'K-T' boundary studies, and to the research and careers of his collaborators and colleagues, inside and outside the GSC.

Art's office was located opposite the palynology laboratory and he was the principal scientist supervising the palynology lab. Working with lab technicians, he always aimed for the optimum preparation of samples; often having samples reprocessed a number of times.

Art Sweet's scientific career is shown by his bibliography, but this misses the personal side of Art. Clearly, he was immensely dedicated to his discipline of palynology and geology. At the start of the working day, it was routine to find Art already in his office, having arrived at 3 or 4 AM; likewise, if chance had one driving by the GSC in the evening, one would regularly see his office light on. Evenings at home we often spent writing papers, or reviews for journals. He seemed to pack two careers of dedicated work into one lifetime. He continued to work past formal retirement age until ill-health began to limit him.

In spite of his scientific accomplishments, Art was self-effacing. He was generous to others with his time and expertise, and invariably kind and thoughtful to colleagues, students, and new-comers. He helped many people start their careers. His open office door was pasted with jokes and a sign, "A clean desk is a sign of absolutely nothing else to do". Hospitality was often extended to out of town visitors. Art wanted to make sure that people were comfortable, had a place to stay, a home-cooked meal, perhaps even a pit roasted pig.

Few days went by when Art did not have a colleague or visitor seeking advice from his extensive knowledge of Mesozoic and Cenozoic stratigraphy and palynology, or an application of his expertise. He was gracious and kind through innumerable interruptions, the best sort of mentor students, or junior colleagues, could have. For students, "Art....created a story with every pollen grain and made even a lack of evidence exciting... every student/casual [employee] over 15 years gain[ed] an appreciation for the science....he did this in such a subtle and humble way." (K. Boyce, 27 March 2017). Art developed particularly long lasting, fruitful relationships in science. He is honoured by the naming of two species: a fungal spore, *Diplodites sweetii*, (Kalgutkar et al., 1993. Review of Palaeobotany and Palynology, v 77, p. 107-118) "in recognition of his outstanding contribution to Tertiary palynology and his significant role in the understanding and interpretation of the K-T boundary"; and the pollen *Parvipollenites sweetii* (White, 2009. Geological Survey of Canada, Bulletin 594), dedicated for his "career-long fascination with triprojectate pollen".

Art loved making 'flower power' posters for scientific meetings, and had a strong artistic aptitude in their creation. And he seemed to thrive on the pre-meeting pressure of poster preparation, still sitting at his microscope mere days before departure, interacting with a student doing the computer graphics. Work and discussions were fueled by frequent cups of instant coffee, his drunk from a blackened melamine mug ("one shake or two" he would ask when preparing a visitor's instant coffee).

Self-sufficiency was a core value derived from Art's childhood, and he brought a prairie pioneer knowledge to his food growing and storage. Alberta, Art and children had a rich, productive garden in Calgary - it was more than a hobby. They understood the need to nourish the soil. In the fall Art often had a truckload of leaves, collected by the landscaper from the GSC grounds, delivered to his driveway. Dug into the garden, the leaves produced a deep, friable, fertile soil. And who but Art would think of leaving potatoes out on the ground for a prairie winter, covered only by a blanket and a pile of leaves; lift the blanket and grab a potato.

Art and Alberta also had a 30 year-long bee keeping business. Coffee conversation often turned to bees, with a hint of competition between Art and John Utting, over whose bees were most productive, and whose honey was best. Art said that he would like to think his as a "life of service and a life of science". His children list values that he instilled in them: 'family first, work hard, be self-sufficient, be kind and humble, sit up straight and smile'.

Arthur R. Sweet, Ph.D. Bibliography

This bibliography has been compiled from Dr. Sweet's own bibliography and from records compiled by Dr. Dennis Braman. Abstracts and poster presentations have been omitted.

THESIS

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23 April 2017

In Memoriam...

Robert James Daly

1984 - 2017

On 13th May 2017, the scientific community lost a unique soul who had far more to give than his 33 years allowed. Dr Robert James Daly was born on 7th February 1984 at University College Hospital, London, UK to Lucy and John. His family soon moved to Kings Lynn, after which he soon became the elder brother to Rebecca and Lewis.

Rob attended Downham Market High School before he left for university and subsequently, his introduction to palynology during his undergraduate M.Biol.Sci in Biology (2002-2006) in the Dept. of Animal & Plant Sciences at the University of Sheffield. Here he became interested in palynology undertaking a Level 3 project on dispersed plant cuticles from the Permian of Nottinghamshire and a Level 4 project on Late Devonian spores from Boulonnais, France (including an epic fieldtrip where continuous rain had transformed the brickpit into a quagmire).



Rob moved to Aberdeen in late 2006 to pursue his PhD under the guidance of Dave Jolley. The project started out with the intention of studying the early Cenozoic of the Boltysh impact crater sediments in the Ukraine, but due to reasons beyond Rob's control, the core hadn't been drilled by the end of his first year of study so he moved onto another project. This new project set out to assess the palynology of an extinct arctic ecosystem from the Paleocene of Northern Alaska and use it to understand the evolution of the Brook Range.

His doctorate work spawned some key research into high latitude Paleocene floras (Daly et al. 2011a; Daly et al. 2011b) but, from 2010, he was back researching the floras from the Boltysh impact crater fill for his post-doctoral position - now that it had finally produced some core (Jolley et al. 2013; Gilmour et al. 2013; Gilmour et al. 2014; Daly & Jolley 2015; Jolley et al. in press).

Away from science, Rob had many other interests and talents. He loved his music, everything from the Rolling Stones to Bach's most intricate compositions to REM. Rob played the violin to a high standard, playing in orchestras and even at friend's weddings on personal request. Sport, in a watching and casual punditry role, was also a big part of his passions. Many an hour would be spent over a pint discussing England cricket's next spin option or why a certain batsmen should be dropped because he didn't look the part! Rob's enthusiastic playing career started and ended in the annual 'Volcanic Ashes' staff/PhD's versus the undergraduates cricket match in the Department of Geology and Petroleum Geology, Aberdeen. Anyone who witnessed these matches in the late 2000's will recall entertainment in its purest form, but not necessarily talent!



Rob at the AASP-TPS Annual Meeting in 2013, San Francisco. Left, at one of the many vineyards on the Napa Valley pre-meeting fieldtrip and right, fulfilling one of his aims of the trip; crustaceans were devoured shortly after this picture was taken.

Rob last attended an AASP-TPS event at the 2013 Annual Meeting in San Francisco where he presented his talk on “Vegetation change through a major hyperthermal event: investigating the palynological record of the Boltysh meteorite crater, Ukraine”. As I recall, the talk stimulated good discussion afterwards in the hotel foyer but, I remember the meeting far more for spending much of the time with Rob sampling the fine grape produce on offer in Napa Valley, hacking crab flesh out of its shell and trying to get the blueberry pancakes in the morning before they’d all gone in the café opposite the hotel!

It wasn’t long after the San Francisco meeting that Rob was diagnosed for the third time with a brain tumour. This horrific illness struck him when he was four years old and again in 2007 (during his PhD). Each of these earlier occurrences, Rob was defiant and was determined to get on with life with minimum fuss, an attitude he still retained in his final illness. He made light of the 2007 occurrence by saying that he was mostly disappointed he was unable to make his scheduled talk at the Palaeontological Association Annual Meeting in Uppsala, Sweden, because he loved meatballs and the organised way of life the Swedes appeared to lead!

Rob will be sorely missed by the many friends that he made an impact on during his life. Rob is survived by his parents John and Lucy and his siblings Lewis and Rebecca.



Daly, R., Jolley, D. & Spicer, R. 2011a. The role of angiosperms in Palaeocene arctic ecosystems: A palynological study from the Alaskan North Slope. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 309, 374-382.

Daly, R. J. & Jolley, D. W. 2015. What was the nature and role of Normapolles angiosperms? A case study from the earliest Cenozoic of Eastern Europe. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 418, 141-149.

Daly, R. J., Jolley, D. W., Spicer, R. A. & Ahlberg, A. 2011b. A palynological study of an extinct arctic ecosystem from the Palaeocene of Northern Alaska. *Review of Palaeobotany and Palynology*, 166, 107-116.

Gilmour, I., Gilmour, M., Jolley, D., Kelley, S., Kemp, D., Daly, R. & Watson, J. 2013. A high-resolution nonmarine record of an early Danian hyperthermal event, Boltysh crater, Ukraine. *Geology*, 41, 783-786.

Gilmour, I., Jolley, D., Kemp, D., Kelley, S., Gilmour, M., Daly, R. & Widdowson, M. 2014. The early Danian hyperthermal event at Boltysh (Ukraine): Relation to Cretaceous-Paleogene boundary events. *Geological Society of America Special Papers*, 505, SPE505-06.

Jolley, D., Daly, R., Gilmour, I. & Kelley, S. 2013. Climatic oscillations stall vegetation recovery from K/Pg event devastation. *Journal of the Geological Society*, 170, 477-482.

Jolley, D. W., Daly, R. J., Ebinghaus, A., Kemp, D., Gilmour, I., Mac Niocaill, C. & Kelley, S. P. in press. Centennial to decadal vegetation community changes linked to orbital and solar forcing during the Dan-C2 hyperthermal event. *Journal of the Geological Society*.

Contributors: Steve Stukins, Dave Jolley and Charlie Wellman.

Undergraduate Student Awards

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

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

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

A faculty member, who is a member in good standing of AASP, and who teaches an appropriate course, may nominate the course using the Registration Format found below. This should be cut-and-pasted into a word document and sent to the awards committee chair at: mbfarley@sigmaxi.net. Upon approval by the Awards Committee, faculty teaching approved courses may nominate a student to receive the award at any time of the year on the basis of their qualifying criteria by sending the name, address, and email address of the recipient to the Awards Committee Chair. Additionally, faculty must send the name of the winner, a paragraph about their achievements, and a photograph to the newsletter editor (palynologylexington@gmail.com) for inclusion in the June newsletter each year.

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

AASP Undergraduate Student Award – Course Registration Form

Nominating faculty member:

University/Higher Education Institution:

Course Name:

Course Description and level:

Average number of students registered in the course annually:

Number of hours of palynological instruction:

Criteria used to determine the winning student:

Date:

Congratulations to Student Research Grant Award Winners!



Vera Korasidis

University of Melbourne, Melbourne, Australia

Biography:

Vera completed a Bachelor of Science, majoring in Geology, at the University of Melbourne in 2013. With a deep interest in paleontology, and in particular palynology, Vera opted to pursue further studies at the University of Melbourne, completing an Honours degree in 2014. Under the guidance and supervision of Dr. Barbara Wagstaff, Vera's Honours project focused on early angiosperm diversification in the Albion of southeast Australia and its implications for flowering plant radiation across eastern Gondwana. Motivated by the results of her Honours dissertation, in 2015 Vera commenced a PhD in the School of Earth Sciences at the University of Melbourne and is currently under the supervision of Dr. Barbara Wagstaff and Associate Professor Malcolm Wallace. Her current PhD project involves reconstructing past vegetation assemblages and palaeoenvironments of the Oligo-Miocene Latrobe Valley brown coals.

Research: The Eocene-Miocene flora and palaeoenvironments of the Latrobe Valley peatlands in the Gippsland Basin, Australia

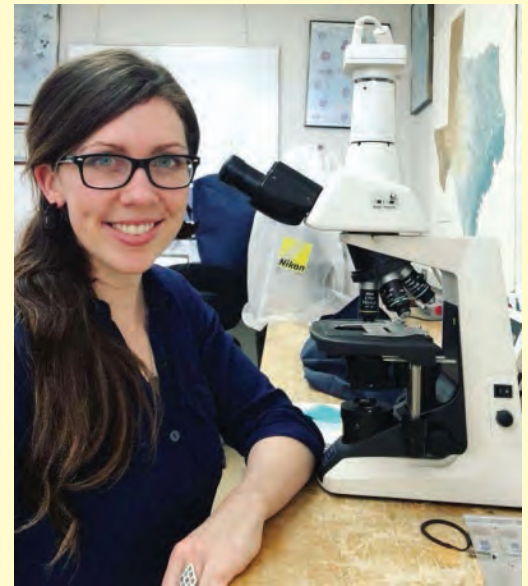
The widespread extent of the Eocene to Mid-Miocene Latrobe Valley brown coals in the Gippsland Basin of Australia provides an unprecedented opportunity to investigate how the coal-forming flora responded to global climatic events (i.e. climatic optimums). To assess this, I aim to refine southeastern Australia's biostratigraphy by recalibrating the originally defined spore-pollen zones to the international timescale. I will compare the spore-pollen zone ranges to previous foraminiferal records and recent strontium studies from the same stratigraphic sections, a task not previously undertaken, to refine the assigned ages of the zone boundaries. I will also compare and correlate the coals palynology to prominent carbon isotope excursions within the coal in addition to long-term $\delta^{18}\text{O}$ records. These comparisons will enhance our understanding on how global sea level fluctuations and climate change influenced coal deposition and the composition of the coal-forming flora. Of particular interest is the increased relative proportion of gymnosperms during supposed warm periods.

Katelyn McDonough

Texas A&M University, College Station, Texas, USA

Biography:

I am a second-year graduate student in the Anthropology Ph.D. program at Texas A&M University (TAMU). Temporally, I am focused on the Late Pleistocene through Middle Holocene, trying to understand when people first arrived in North America and how they interacted with the landscape once they got here. More specifically, I am interested in understanding diet, health, and environment by looking at pollen and plant remains in the archaeological record. Spatially, my work is situated in the Northern Great Basin. I first became enamored with Great Basin archaeology while working on my B.S. at the University of Oregon. I attended field school at the Paisley 5-Mile Point Caves site where some of the earliest evidence of humans in North America was discovered in the form of human DNA extracted from coprolites (paleofeces).



Following this experience, I continued to pursue archaeological research throughout Oregon, working as an archaeology technician for the Eugene District Bureau of Land Management, as an adjunct research assistant for the University of Oregon Museum of Natural and Cultural History, and as a supervisor for archaeological field schools in central Oregon. I have continued to find coprolites particularly intriguing. I view them as highly unique repositories of information, encapsulating a wide breadth of data including pollen, phytolith, macrobotanical, intestinal parasite, chemical signature, and DNA components that provide intimate individual information that is otherwise inaccessible in the archaeological record. Research by my current advisor, Dr. Vaughn Bryant, has demonstrated the utility of both pollen and coprolite analysis in archaeology. At TAMU I have been working to develop the skills necessary to do these types of research.

Research: Diet and Paleoenvironment: What We Can Learn from Coprolites in Connley Caves, Oregon

My current research objective is to employ a holistic pathoecological approach in coprolite analysis, incorporating palynological, macrobotanical, and archaeoparasitological analyses to investigate the diet, health, and human ecology of people inhabiting the Great Basin during the Early and Middle Holocene. Over 70 coprolites have been recovered from Middle Holocene contexts at the Connley Caves site in the Fort Rock Basin of central Oregon. These coprolites come from a 6,000-year-old latrine feature and will provide a unique glimpse into the lives of prehistoric inhabitants. Most important, the pollen record in coprolites provide insightful data on human diets, while accompanied pollen analysis of the sedimentary matrix can contribute to an environmental framework for their subsistence. The Early-Middle Holocene is a critical period in the Great Basin since it signifies the onset of a climatic amelioration and rapid population growth following a period of severe drought and population declines during the Early Holocene. Initial studies conducted at Texas A&M reveal exceptional pollen and macrofossil preservation in the Connley Cave coprolites. My goal is to integrate the pollen studies with coprolite macrofossil, parasitological, faunal, and steroidal data to gain perspective on this critical time period in the Northern Great Basin.

Congratulations to the McNeilly Award for Cenozoic Tropical Research Winner!

Kevin Barrett

University of Wisconsin, Madison, WI,
USA

Biography:

My introduction to paleoecology began in an undergraduate ecology class visit to a nearby *Sphagnum*-tamarack bog in Pennsylvania. I was so taken by the unique vegetation that I begged the professor, a paleoecologist, for opportunities to visit and examine bog ecosystems more closely. After that visit, I started learning how to analyze proxies like testate amoebae, plant macrofossils, and charcoal, which I used in a peatland history analysis of southeastern Alaskan peatlands. After my bachelor's, I still had the itch to study peatlands, and I had a new bag of paleoecological tools, so I began a PhD with Dr. Sara Hotchkiss at the University of Wisconsin-Madison. With Dr. Hotchkiss and colleagues, I have been investigating the ecological history of the *Sphagnum* bogs in Hawaii. The techniques I learned as an undergraduate, especially analysis of testate amoebae, allow us to explore new questions about past environmental and climatic conditions under which Hawaiian montane bogs developed.



Research: Testate amoebae as a proxy for hydrology in Hawaiian peatlands

My research focuses on inferring past hydrologic variability in the bogs of Hawaii by analyzing testate amoebae fossil assemblages in sediments. The composition of testate amoebae communities living in the surface soils of Hawaiian bogs is strongly dictated by wetness of that soil. While this tool is commonly used in northern high latitude peatland research, there is scant research about the ecology and paleoecology of testate amoebae in the tropics. In Hawaii, the only records of testate amoebae distributions are observations from early 20th century natural history expeditions. My work involves developing a detailed survey of modern testate amoebae distribution and ecology in a bog-rich area of Hawaii Island in the Kohala forest. Ultimately, we are using testate amoebae-inferred hydrological reconstructions to address several questions, including (1) the trigger and implications of recent widespread *Sphagnum* moss spread in Kohala that is engulfing the mountain, (2) long-term moisture changes in the forest to pair with local pollen records, and (3) inferring hydroclimatic variability of the Kohala region during the era of ancient Hawaiian intensive agriculture that was sensitive to climate fluctuations.



President-elect: Katrin Ruckweid

I started studying Geology and Palaeontology at Darmstadt University of Technology/Germany in 1997, convinced that I would become a volcanologist. However, during a 2 day course with Susanne Feist-Burkhardt and Annette Goetz I fell in love with palynology. In 2002 I finished my MSc. thesis "Palynofacies and dinoflagellate cyst stratigraphy of the Upper Cretaceous Col de Braus section, Southern France" under the supervision of these two awesome ladies. I then followed Annette to Halle University to start my PhD entitled: "Palynology of Triassic/Jurassic boundary key sections of the NW Tethyan Realm". Since 2007 I work for Shell as Biostratigrapher, where I not only generate and interpret palynological data sets, but also use different micropaleontological fossil groups. Until 2011 I worked for Shell in the Netherlands, working on projects including Kazakhstan, Libya, Tunisia, Algeria and South Africa. The collaboration with the South Africa Exploration Team resulted in the Shell South Africa Lecture Series, where I lectured together with Iain Prince and Annette Goetz a 1 week course on palynology to students and industry at Rhodes University/ SA since 2012. In 2011 I transferred to Shell Oil Houston working a wide variety of hydrocarbon plays from Cretaceous Unconventional Shale prospects to Gulf of Mexico Miocene. I'm currently in the AASP board as Director at Large and I would be very happy to continue my service as President-Elect.



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 Corporation 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 mid-west 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 pursued 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: Annette E. Götz

Annette received her MSc and PhD in carbonate sedimentology and micropalaeontology from Technische Universität Darmstadt, Germany. She continued her research on the application of palynofacies to sequence stratigraphy of Mesozoic carbonate systems as PostDoc at TU Darmstadt and Assistant Professor at Halle University, Germany. Her interest in energy resources led to the initiation of projects in the field of geothermal energy, oil, gas and coal. She left Germany in 2011 and worked as Associate Professor in Sedimentology and Palaeontology at Rhodes University, South Africa and then became Head of the Geology Department at the University of Pretoria as Professor of Sedimentology and Energy Resources. In 2015 she accepted the position as Chair of Geology at Keele University and in 2017 she joined the University of Portsmouth. Her main research interest is late Palaeozoic and Mesozoic palynology with a focus on palaeoenvironment and palaeoclimate reconstruction.

Director-at-Large: María Antonieta Lorente

María Antonieta is a palynologist, biostratigrapher and a certified petroleum geologist. She received her Geological Engineering and MSc in Sedimentary Geology degrees from the Central University in Venezuela and her PhD from the University of Amsterdam, The Netherlands.

During the late 80's and early 90's, she did pioneering work in quantitative palynofacies with the application of digital image analysis, and in the identification and automated quantification of palynological organic matter.

Her expertise in exploration, with a specialization in biostratigraphy and multidisciplinary team management, was developed through a 39-year career that began in Caracas at Maraven S.A. with her role as a Palynologist, later becoming the Head of Geological Laboratories and Stratigraphy Leader. She was also the Exploration Planning and Strategy Manager at PDVSA Exploration. In a career shift when she moved to Spain, she worked in the environmental area of wine making. After few years, she was back to biostratigraphy as a consultant through Schlumberger. In the last four years, she moved to the US, and has been leading the stratigraphic services team at Ellington and Associates, later ALS Reservoir Laboratories.



She was President of the Venezuelan Geological Society, International Councilor at SEPM Board of Directors and Vice President of the International Liaison and the International Regions AAPG Committees. Currently she is a member of AASP, SEPM, AAPG and HGS. She is a published author, with over 40 papers and more than 1050 references to her publications.

The election will open 15 July 2017.

If you do not receive an email via SURVEYMONKEY to vote by 18 July 2017, please contact Niall Paterson (Niall.Paterson@uib.no) for a paper ballot. The election will close on 15 August 2017.

Newly elected officials will take office at the incoming board meeting on 7 September 2017.

This election cycle you will be voting for a by-law change to extend the presidency OR a president-elect; secretary; treasurer, managing editor, and (1) director-at-large.

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
South Africa

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

- Jen O'Keefe

Call to Serve!

Immediate Opening: GSA Liason

Responsibilities:

- 1) Exhibit the AASP-The Palynological Society Booth (display, books, handouts, etc.) at the Annual Meeting of the Geological Society of America (GSA) Meeting. You are responsible for:
 - seeing that the booth is "manned" during the exhibit hall opening & high-traffic times of day;
 - reserving booth space & accoutrements (chairs, table, skirt);
 - obtaining up-to-date display materials from the AASP Foundation and the society;
 - transport & maintain the display ("the booth").
- 2) Attend the Associated Societies Meeting at the Annual Meeting of GSA in person.
- 3) Attend the GSA Associated Societies Midyear Meeting (via internet or in person).
- 4) Exhibit at additional venues as requested by the AASP-TPS Board of Directors.

Opening Fall 2018: Newsletter Editor

Responsibilities:

- 1) Produce the AASP-TPS Newsletter Quarterly.

Interested? Contact President Iain Prince!

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, 2016.***

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.

2017 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

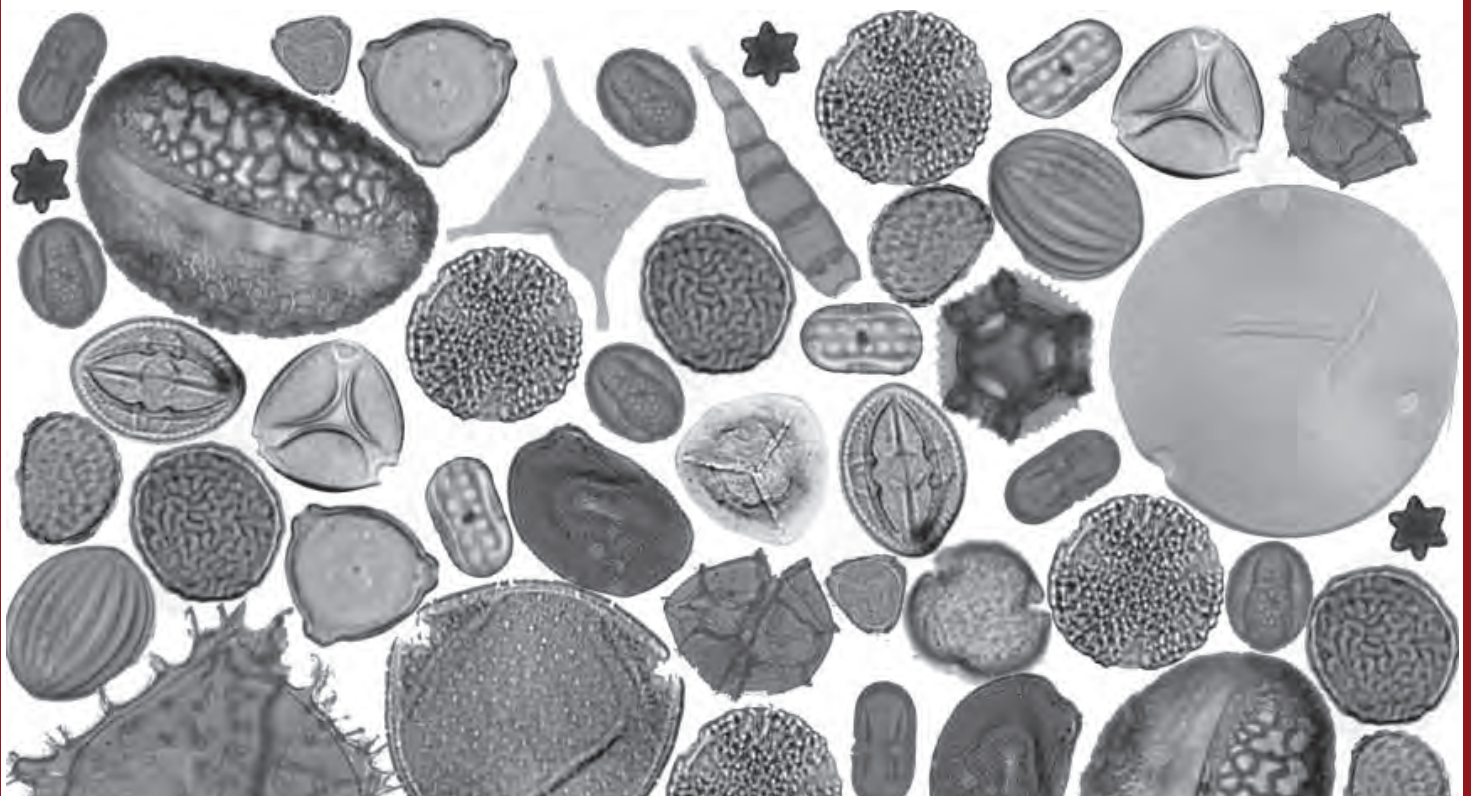
Calgary, Alberta, Canada

Organizers: Kimberley Bell & Thomas Demchuk

2019 - 52nd Annual Meeting

Ghent, Belgium

Organizers: Stephen Louwye & Thijs Vanderbrocke



51st Annual Meeting of AASP- The Palynological Society

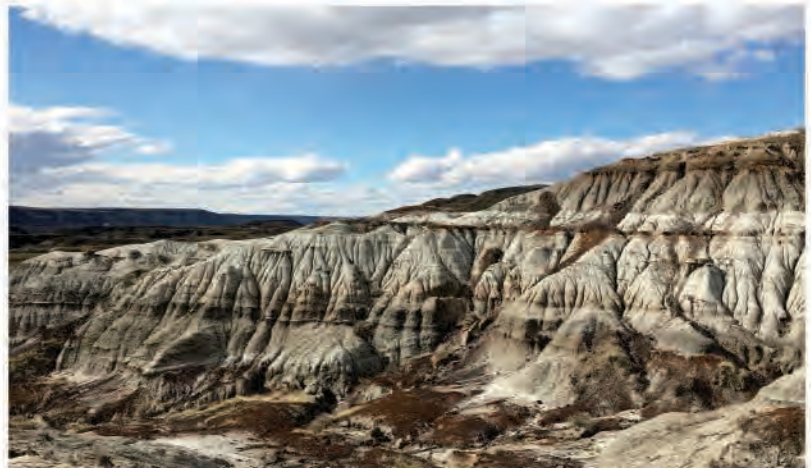
Calgary, Alberta, Canada
August 5th - 9th, 2018



Calgary, Alberta and Canadian Rocky Mountains - Calgary Tourism -

First Circular

We are pleased to announce that the 51st Annual Meeting of AASP-The Palynological Society will be held in Calgary, Alberta, Canada. Calgary is ideally located between the Canadian Rocky Mountains and the Alberta Badlands and is easily accessed by the Calgary International Airport (YYC) featuring a new state-of-the-art international terminal. Exciting field trips featuring local geology and paleontology will be offered before and after the technical program held Monday, August 6th through Wednesday, August 8th.



Badlands near Drumheller, Alberta



Stephen Avenue - Calgary Tourism

Organizing Committee:

Kimberley Bell (kmball@ucalgary.ca)

Thomas Demchuk (tdemchuk@swbell.net)

The venue for this meeting is the recently renovated Calgary Marriott Downtown Hotel boasting exceptional location, creative Canadian dining and a stylish whisky bar. The hotel is located adjacent to Stephen Avenue; a major pedestrian mall known for its restaurants, pubs, bars, cafes, shopping and entertainment venues. Public transportation, including light rapid transit, is easily accessed from the conference venue. Transportation to the hotel area from the airport is available via taxi, public transportation or airport shuttle (reservation required). A block of rooms has been secured at the Marriott at a negotiated rate of \$199 CAD/night.

We would like to announce following events

I. Workshop “Towards quantitative vegetation reconstruction from pollen – data handling and applications”

Vojtěch Abraham, Anneli Poska and Martin Theuerkauf

28–29th August 2017 (Monday, morning – Tuesday, evening) - **Toruń, Poland**

The first course is focused on the pollen-vegetation relationship and pollen trap data.

The following aspects will be discussed:

1. pollen dispersal and deposition
2. calculating distance weighted plant abundances
3. calculating relative pollen productivity from pollen percentage data (ERV-model)
4. pollen influx and absolute pollen productivity from trap data
5. quantitative reconstruction methods – a short overview.

The first workshop will be followed by

Conference “Pollen Monitoring Programme 11th Meeting”

Agnieszka Noryśkiewicz - chair of the Organizing Committee

29th -30th August - (Tuesday, evening- Wednesday, evening) - **Toruń, Poland**

Costs: Participation in the Workshop and 1st day of the Meeting, meals and 3 nights 27-30.08. included **160 EUR** (reduced fee for young participants) / **200 EUR** (normal fee)

The conference will continue in the Brodnica Landscape Park and post conference trip to Belovezha National Park. For all fee options and more detail programme please check the webpage :

www.pollentrapping.org

contact: agnieszka.noryskiewicz@umk.pl

II. Workshop “R-package DISCOVER”

Martin Theuerkauf, Almut Mrotzek and John Couwenberg

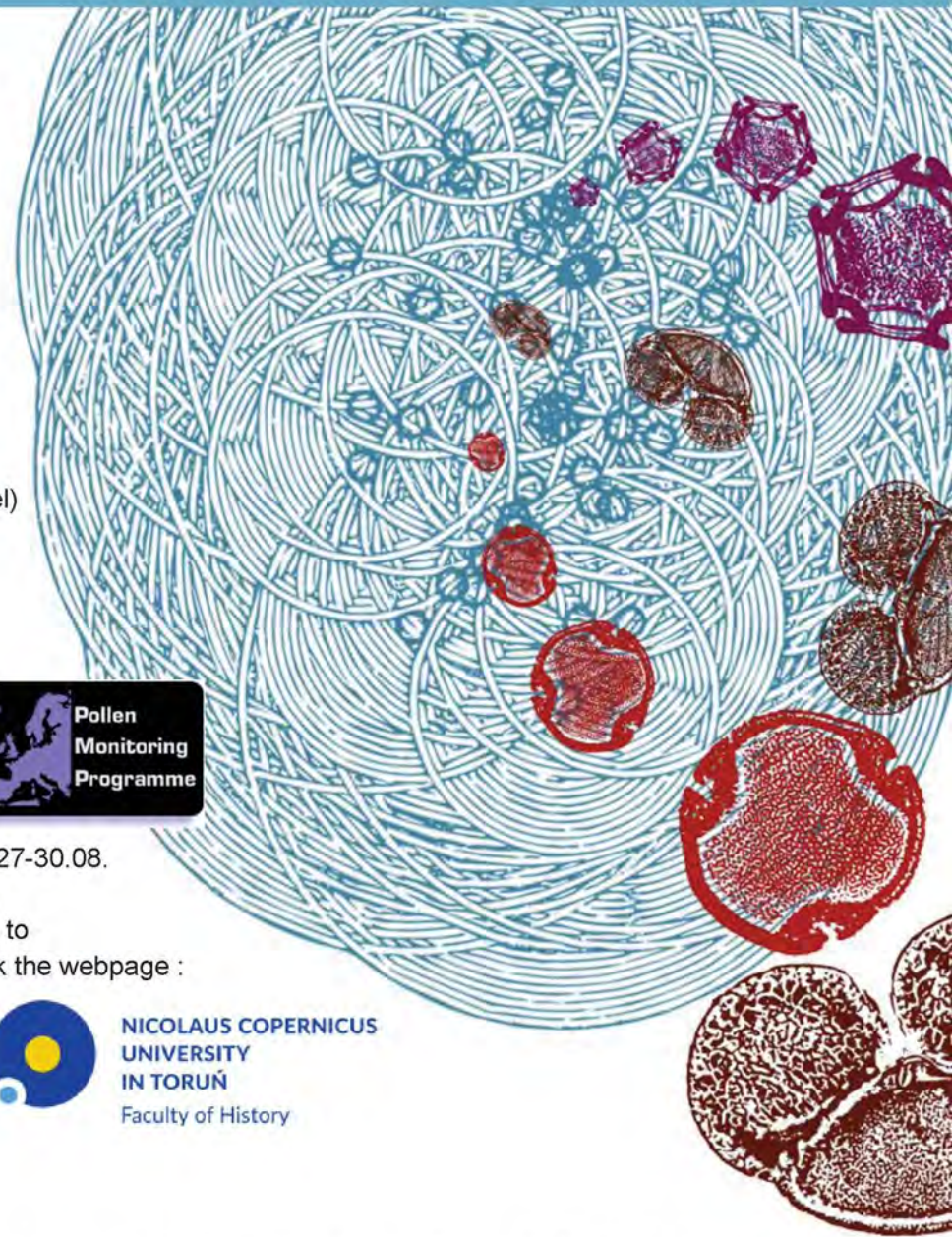
September 2017 - Greifswald, Germany.

The second workshop will deal more in depth with the quantitative reconstruction methods, primarily using the implementations in R. The workshop will first introduce the approaches available so far. Then, the capabilities and critical parameters of each method will be explored using various examples.

For more information and contact, please consult <http://discover.botanik.uni-greifswald.de/workshop-2017/>



NICOLAUS COPERNICUS
UNIVERSITY
IN TORUŃ
Faculty of History



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.



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.**

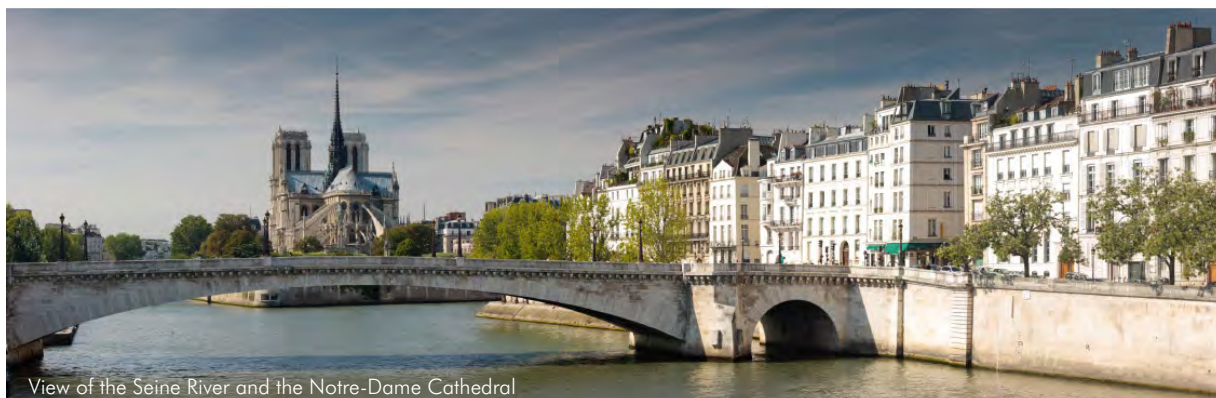
Under the auspices of the International Palaeontological Association (IPA) and with the participation of the whole French Palaeontological community, "the Fossil week" will be organized **in 2018 in Paris, July 9th-13th.**

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.



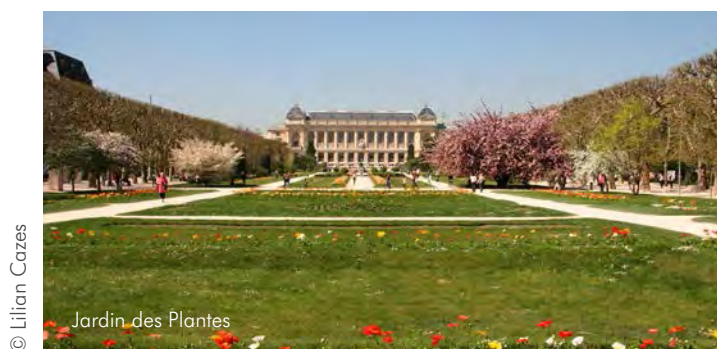
View of the Seine River and the Notre-Dame Cathedral

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.



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.



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 bistronomies, 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 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 dînatoire		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

- 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

© Marne Tourist Office - S. Millot



Marne vineyard

- 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

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The city of Givet

- 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

© Global Geoparks network



Geopark Haute Provence

- 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.



© MNHN - Jacques Vekemans

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





10TH EUROPEAN PALAEOBOTANY & PALYNOLOGY CONFERENCE



University College Dublin, Ireland
12th-17th August 2018

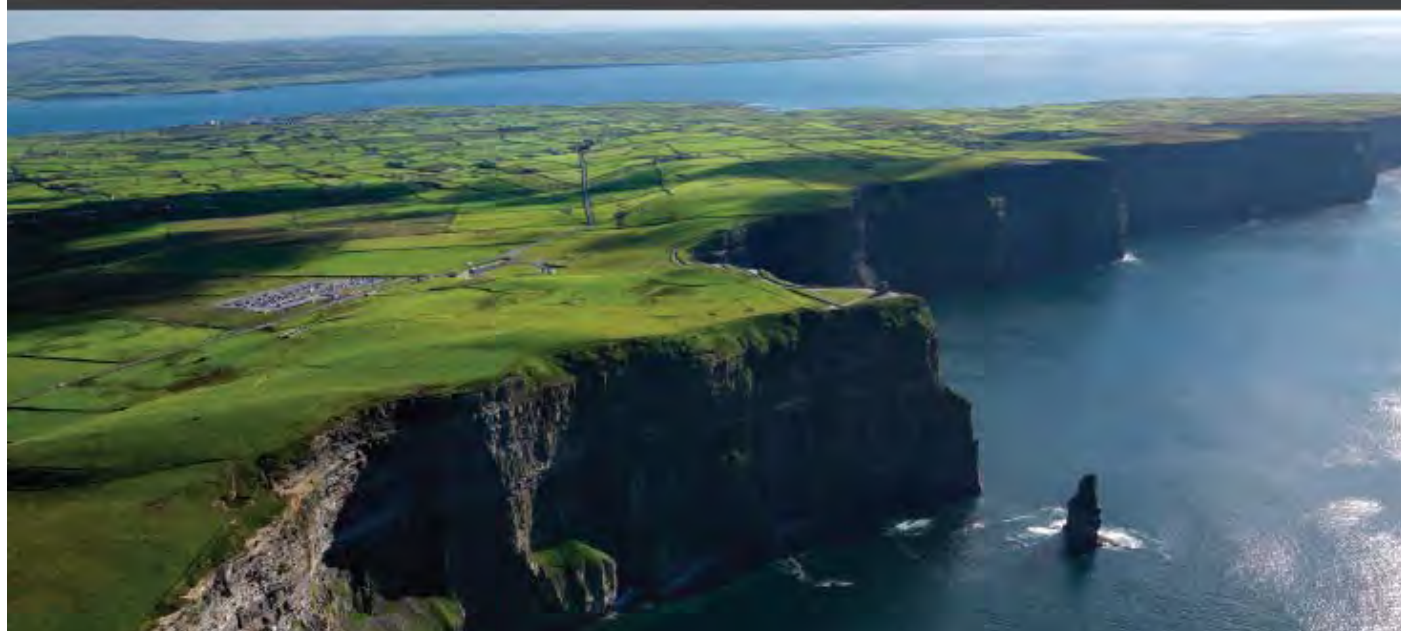
Welcome Reception: Guinness Storehouse Sunday 12th

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.



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.

Life on the Edge

XX INQUA Congress 2019

25th – 31st July 2019
Dublin, Ireland



Meet in
Ireland
Connect with Excellence

www.inqua2019.org

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 Sygne, 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 Sygne, 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.inqua.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.inqua.ie>

IQUA Field Excursions: <http://www.inqua.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

