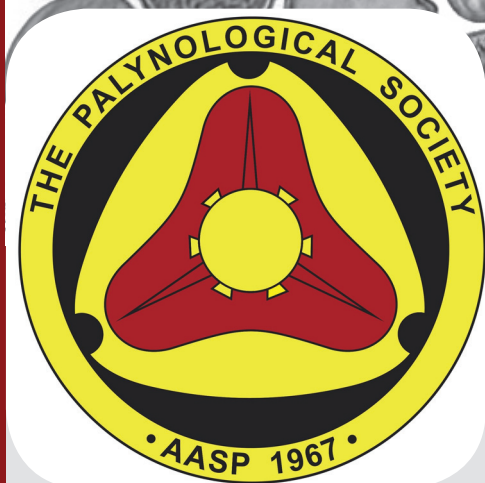
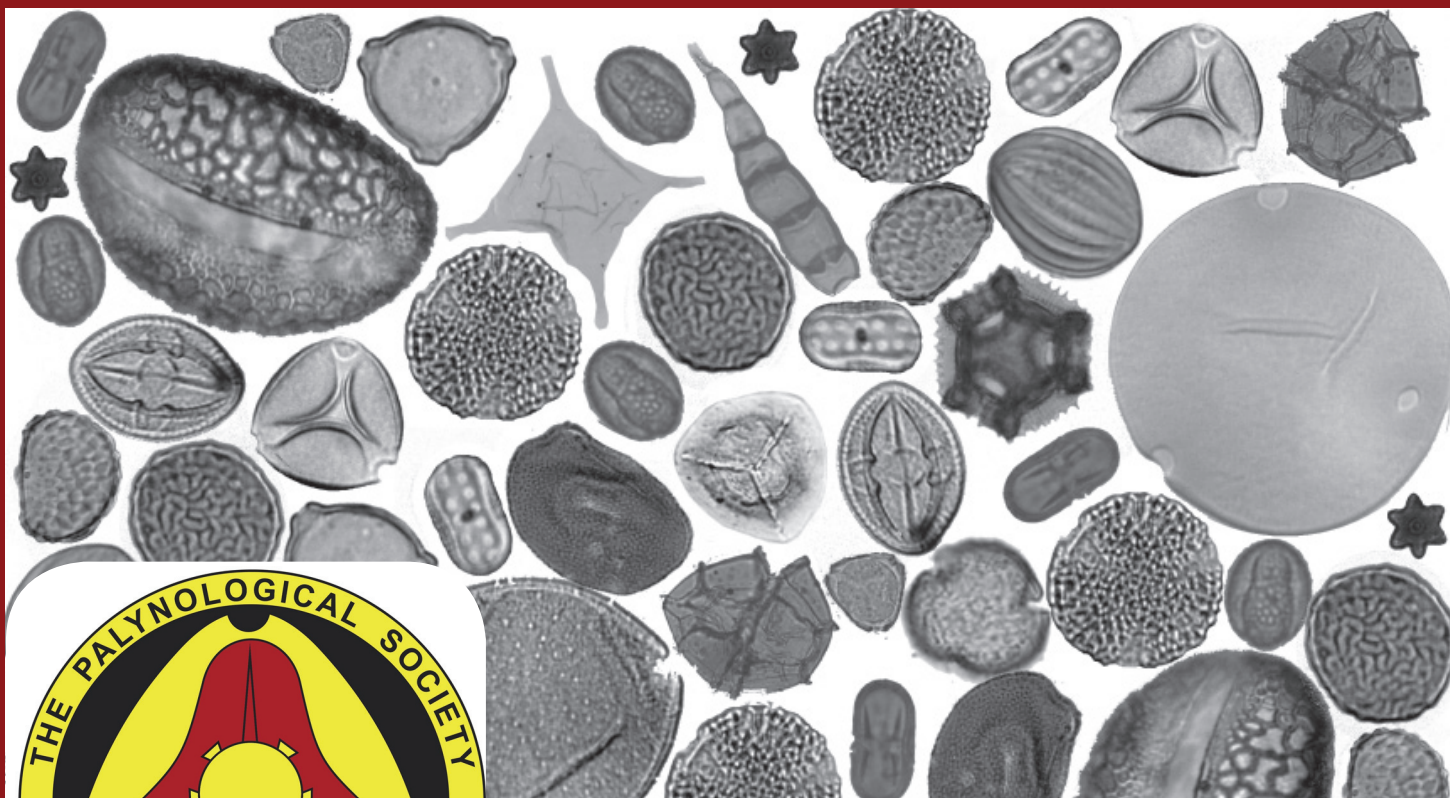


# AASP - THE PALYNOLOGICAL SOCIETY

PROMOTING THE SCIENTIFIC UNDERSTANDING OF PALYNOLOGY SINCE 1967



## Newsletter

March 2018

Volume 51, Number 1

Published Quarterly by AASP - The Palynological Society



# AASP-TPS NEWSLETTER

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Published Quarterly by AASP - The Palynological Society

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## March 2018 Volume 51, Number 1

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# A.A.S.P.

## The Palynological Society

The American Association of Stratigraphic Palynologists, Inc. - AASP-The Palynological Society - was established in 1967 by a group of 31 founding members to promote the science of palynology. Today AASP has a world-wide membership of about 800 and is run by an executive comprising an elected Board of Directors and subsidiary boards and committees. AASP welcomes new members.

The AASP Foundation publishes the journal *Palynology* (triannually), the *AASP Newsletter* (quarterly), and the *AASP Contributions Series* (mostly monographs, issued irregularly), as well as several books and miscellaneous items. AASP organises an Annual Meeting which usually includes a field trip, a business luncheon, social events, and technical sessions where research results are presented on all aspects of palynology.

### 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)  
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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

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Dr. William S. Hoffmeister (elected 1975)  
Professor Leonard R. Wilson (elected 1975)  
Professor Knut Faegri (elected 1977)  
Professor Charles Downie (elected 1982)  
Professor William R. Evitt (elected 1989)  
Professor Lucy M. Cranwell (elected 1989)  
Dr. Tamara F. Vozzhennikova (elected 1990)  
Professor Aureal T. Cross (elected 1991)  
Dr. Robert T. Clarke (awarded 2002)  
Professor Vaughn Bryant (awarded 2005)  
Professor Alfred Traverse (awarded 2005)  
Professor Bernard Owens (awarded 2011)  
Dr. John E. Williams (awarded 2013)  
Mr. Paul W. Nygreen (awarded 2013)  
Professor Norman Norton (awarded 2016)

### AASP Board of Directors Award recipient

Dr. Robert T. Clarke (awarded 1994)  
Dr. Thomas D. Demchuk (awarded 2014)

### Teaching medal recipients

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

### AASP Distinguished Service Award recipients

Dr. Robert T. Clarke (awarded 1978)  
Dr. Norman J. Norton (awarded 1978)  
Dr. Jack D. Burgess (awarded 1982)  
Dr. Richard W. Hedlund (awarded 1982)  
Dr. John A. Clendening (awarded 1987)  
Dr. Kenneth M. Piel (awarded 1990)  
Dr. Gordon D. Wood (awarded 1993)  
Dr. Jan Jansonius (awarded 1995)  
Dr. D. Colin McGregor (awarded 1995)  
Professor John H. Wrenn (awarded 1998)  
Professor Vaughn M. Bryant (awarded 1999)  
Dr. Donald W. Engelhardt (awarded 2000)  
Dr. David T. Pocknall (awarded 2005)  
Dr. David K. Goodman (awarded 2005)  
Professor Owen K. Davis (awarded 2005)  
Dr. Thomas Demchuk (awarded 2009)  
Professor Reed Wicander (awarded 2014)  
Professor Fredrick Rich (awarded 2016)  
Dr. James B. Riding (awarded 2016)



# AASP-TPS NEWSLETTER

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Jen O'Keefe, Editor  
Gilda Lopes, Associate  
Editor

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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 **MAY 15**. All information should be sent by email. If possible, please illustrate your contribution with art, line drawings, eye-catching logos, black & white photos, colour photos, etc. **We DO look forward to contributions from our membership.**

# A Message From Our President

Dear AASP members,

Like my first, my second letter as AASP president is also written from Concepción, Chile, where I have been on sabbatical since September of last year. What a privilege to be able to “dive” into research projects and to have the opportunity to see the world from a very different place and a different perspective! I have learned a lot, especially about geology in general. Living in such an active tectonic setting is interesting, so I have really found it exciting both to climb active volcanos (the picture is from Volcano Villarrica) and to monitor the always “shivering” crust we live on.

A sabbatical also gives time for reflections. One is this: there is no doubt that as a research field, palynology has been down-scaled in most parts of the world, partly as a result of reduced industry needs, but also caused by expansion of other research fields. To some extent, I believe it is related to that non-paleontological correlation methods to a certain extent have rendered biostratigraphy obsolete. However, we need to advocate that despite exciting advances made in non-paleontological correlation methods in recent decades, most require associated fossil control in order to fine-tune geological models, provide accurate age dating, and aid in establishing paleoenvironmental models. We also need to “speak up” for the importance of systematics and taxonomy, which is given very little attention. In some of the projects I have been working on lately, it has been clearly demonstrated that problems in taxonomic classification hampers correlation. Therefore, in addition to continuing to move in new directions and to work on multidisciplinary projects, we must also advocate our discipline as a stand-alone research field. Good palynologists will still be needed!

I wish you all a wonderful 2018 palynological year!

Gunn Mangerud  
8 February 2018



# MANAGING EDITOR'S REPORT

As of early February 2018, the first part of volume 42 of *Palynology* has been published online. The contents are reproduced below. This will be printed, together with part 2, during May this year. The contents are listed below. It comprises a short Editorial plus eight research papers. The first one is a fascinating historical tract by Kevin Edwards and Heather Pardoe on how our subject got its name. Then come five articles largely on modern pollen. The final two papers are lengthy articles on the Neogene of Alaska and the Upper Cretaceous to lowermost Paleocene of Alberta, Canada. The proposed contents of Part 2, which also contains nine diverse items, are also included below. I hope you all like the light blue cover with its image of the Carboniferous spore *Reinschospora speciosa*.

I would like to put on record here my sincere thanks to all the reviewers who put in significant work assessing the manuscripts that are submitted to *Palynology*. These people all make a real contribution to the success of the journal.

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

James B. Riding

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5th February 2018



### **The contents of *Palynology* Volume 42, Part 1 (February 2018) (online)**

1. Riding, J.B. Editorial. p. 1–3.
2. Edwards, K.J. and Pardoe, H.S. How palynology could have been paepalology: the naming of a discipline. p. 4–19.
3. Pandey, S. and Holt, K. Modern pollen distribution and its relationship to vegetation from the south-western part of the Ganges-Brahmaputra Delta, India. p. 20–27.
4. Yang, F.C. and Grote, P.J. Variation of fluorescence intensity in Pleistocene pollen and the correlation of fluvial deposits in the Khorat Plateau, Thailand. p. 28–35.
5. Lau, P., Bryant, V. and Rangel, J. Determining the minimum number of pollen grains needed for accurate honey bee (*Apis mellifera*) colony pollen pellet analysis. p. 36–42.
6. Dutra, F.V. and Gasparino, E.C. Pollen morphology of Rutaceae from Brazilian forest fragments. p. 43–54.
7. Quamar, M.F., Nawaz Ali, S., Pandita, S.K. and Singh, Y. Modern pollen rain from Udhampur (Jammu and Kashmir), India: insights into pollen production, dispersal, transport and preservation. p. 55–65.
8. Reinink-Smith, L.M., Zaborac-Reed, S. and Leopold, E.B. Clamgulchian (Miocene–Pliocene) pollen assemblages of the Kenai Lowland, Alaska, and the persistence of the family Podocarpaceae. p. 66–101.
9. Braman, D.R. Terrestrial palynostratigraphy of the Upper Cretaceous (Santonian) to lowermost Paleocene of southern Alberta, Canada. p. 102–147.

## Papers to be published in *Palynology* Volume 42, Part 2 (May 2018)

1. Juncal, M., Diez, J.B., de la Horra, R., Galán-Abellán, B., Borruel-Abadía, V., Barrenechea, J.F., Arche, A. and López-Gómez, J. Palynostratigraphy of the Middle Triassic Eslida formation (Buntsandstein facies), SE Iberian ranges, Spain.
2. Beck, C.W., Bryant, V.M. and Jenkins, D.L. Analysis of Younger Dryas-Early Holocene pollen in sediments of Paisley Cave 2, south-central Oregon, USA.
3. Vieira, M., Mahdi S. and Osterloff, P. New Early Paleocene (Danian) dinoflagellate cyst species from the Ormen Lange Field, Møre Basin, Norwegian Continental Shelf.
4. Ferreira, M.G. and Absy, M.L. Pollen niche of *Melipona* (*Melikerria*) *interrupta* (Apidae: *Meliponini*) bred in a meliponary in a terra-firme forest in the central Amazon.
5. Playford, G. Intraspecific variation and palaeogeographic dispersal of the Mississippian miospore *Reticulatisporites magnidictyus* Playford & Helby, 1968.
6. Loron, C. and Moczyłowska, M. Tonian (Neoproterozoic) eukaryotic and prokaryotic organic-walled microfossils from the upper Visingsö Group, Sweden.
7. Wang, L., Gu, L., Zhao, C. and Liu, J. Pollen morphology of Polygonatae and its systematic significance.
8. Morgado, L.M., Gonçalves-Esteves, V., Resendes, R. and Ventura, M.A.M. A pollen inventory of endemic species from the Azores archipelago, Portugal.
9. Guimarães, J.T.F., Carreira, L.M.M., Alves, R., Martins e Souza Filho, P.W., Giannini, T.C., Macambira, H.J., da Silva, E.F., Dias, A.C.R., da Silva, C.B., Romeiro, L. de A. and Rodrigues, T.M. Pollen morphology of the Poaceae: implications of the palynological and paleoecological records of the southeastern Amazon in Brazil.



**"Happiness [is] only real when shared"**

— Jon Krakauer, *Into the Wild*

John Backhouse and grandson sharing the latest issues of *Palynology*, Australia, January 2018.

Photo source: John & Liz Backhouse

Submitted by: John Backhouse

University of Western Australia

[john.backhouse@uwa.edu.au](mailto:john.backhouse@uwa.edu.au)

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

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



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

## Third Circular

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

### **VENUE**

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



*Stephen Avenue - Calgary Tourism*



*Calgary Marriott Downtown Hotel*

### **TRANSPORTATION**

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

Public transportation, including light rapid transit, is available from the conference venue area. Visit [www.calgarytransit.com](http://www.calgarytransit.com) for additional information.

## FIELD TRIPS

### *Pre-meeting trip:*

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

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

Visit  
<http://palynology.org/51st-annual-meeting-aasp-tps-joint-cap-calgary/>  
for upcoming details



*Alberta Badlands near Drumheller*

### *Post-meeting trips:*

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

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



*Canadian Rocky Mountains, Banff National Park*



### *Post-meeting trips (continued):*

**Burgess Shale & Canadian Rocky Mountains (Banff, Alberta and Field, British Columbia)** **Cost: \$475 CAD (\$400 CAD for students)**

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

## TENTATIVE SCHEDULE

*Sunday, August 5th:*

- One day Alberta Badlands & Royal Tyrrell Museum field trip (Drumheller, Alberta) - [tickets ~\\$125 CAD](#)
- Outgoing board meeting (6pm-9pm, Inglewood Boardroom @ Marriott Hotel)

*Monday, August 6th:*

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

*Tuesday, August 7th:*

- Technical Session (Sunalta Room @ Marriott Hotel)
- CAP AGM (11:30am-1:30pm @ One18 Empire)
- Business & Beer Bash (7pm @ Last Best Brewing & Distilling) - [tickets \\$65 CAD](#)

*Wednesday, August 8th:*

- Technical Session (Sunalta Room @ Marriott Hotel)
- Incoming board meeting (4:30pm-7pm @ One18 Empire)

*Thursday, August 9th:*

- One day Canadian Rocky Mountains field trip (Banff, Alberta) - [tickets ~\\$125 CAD](#)
- First day of Burgess Shale & Canadian Rocky Mountains field trip (Banff, Alberta) - [tickets ~\\$475 CAD](#)

*Friday, August 10th:*

- Second day of Burgess Shale & Canadian Rocky Mountains field trip (Field, British Columbia)

**Visit**

[www.palynology.org](http://www.palynology.org)  
**for upcoming details**

## TECHNICAL SESSIONS

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

- Special session in honour of Leonard (Len) V. Hills and Arthur (Art) R. Sweet on **Western Canadian Palynology and the Cretaceous Western Interior of North America**. Keynote: Dennis Braman.



Len Hills



Art Sweet

- Symposium on **Canadian East Coast biostratigraphy and palynology** (including the Atlantic Margin). Keynote: Rob Fensome and Graham Williams.
- CAP special session: **From land to sea - innovative research by Canadian palynologists**.
- Theme session: **Applications of palynology to environmental science**.

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

### REGISTRATION RATES

(in Canadian dollars)

	<i><b>Early Bird</b></i> (before June 1st)	<i><b>Regular</b></i> (June 1st onward)	<i><b>Single day rates</b></i>
Student member	<b>\$300</b>	\$325	\$110
Student non-member	<b>\$340</b>	\$375	\$130
Professional member	<b>\$400</b>	\$445	\$150
Professional non-member	<b>\$470</b>	\$525	\$180

### Organizing Committee:

Kimberley Bell ([kmball@ucalgary.ca](mailto:kmball@ucalgary.ca))  
Thomas Demchuk ([tdemchuk@swbell.net](mailto:tdemchuk@swbell.net))

# Student Awards For Travel to the Annual Meeting in Calgary

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

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

The application **MUST** include the following:

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

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

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

Martin B. Farley  
[mbfarley@sigmaxi.net](mailto:mbfarley@sigmaxi.net)  
Geology, Old Main 213  
University of North Carolina at Pembroke  
Pembroke, NC 28372

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

## THE MAKING OF CENEX

Nicki Button

LSU College of Science Communications Team

After many years in the making, the renovation of the Center for Excellence in Palynology (CENEX) at Louisiana State University (LSU) is complete! This means that a collection of approximately 25,000 rare palynological reprints and books, the SHELL biostratigraphic collection of dinoflagellate cysts, about 10,000 pollen slides, microscope facility and lab are now accessible to palynologists worldwide, whether students want to come study here or researchers would like to come for a sabbatical or other forms of collaboration.

Many palynologists are responsible for the creation of CENEX. David Pocknall, a retired palynologist from HESS, summarized it perfectly when he stated: "So good to see the Center finally reach its stated goal. When I look back starting with my involvement in the early nineties the words that come to mind are struggles, perseverance, and dedication to reach the lofty goals originally laid out by Ken Piel and Harry Leffingwell who first had the vision to create such a training center in the U.S. Timing could not have

been worse for the establishment of CENEX and struggling funding attempts were constantly derailed by successive downturns in the oil and gas business. Funding CENEX was always a challenge. But perseverance paid off thanks in part by the generous individual donation from the estate of Paul Wesendunk. John Wrenn, the first AASP professor and first CENEX director, was a dedicated steward of the center. He would have been proud to see where CENEX is today, thanks in large part to Sophie Warny for her continued belief in CENEX and palynology."

Emeritus LSU Professor George Hart and Texas A&M University Professor Vaughn Bryant recalled that once AASP put forward the

**Below and right: CENEX pollen and dinoflagellate collections**





Left: More than one hundred boxes of rare books and reprints had accumulated over the years.

Below: Thanks to the chair funds, the CENEX library has been created and thousand of palynological papers are now being sorted.

idea of such a center in the late eighties, a number of universities decided to apply to host this center. The main competitors in the final lap were Pennsylvania State University [Al Traverse], Texas A&M University [Vaughn Bryant] and LSU [George Hart]. LSU was selected to host the center in Baton Rouge, and it was officially established by the American Association of Stratigraphic Palynologists (AASP) and LSU in 1993.

James M. Coleman, former Executive Vice Chancellor of LSU, wrote at the time of the inauguration: "A Center for Excellence in Palynology such as envisioned by the American Association of Stratigraphic Palynologists should greatly influence the future development of palynological studies on national and international scales. It is especially significant that AASP should choose LSU's School of Geoscience as the location for its Center for Excellence. LSU has played, and will continue to play, a major role in hydrocarbon development, and placing the Center at LSU simply enhances the School's contributions in the field of energy exploration. Selection of LSU as the site of the Center provides a wonderful opportunity for the University and for the field of palynology."

After the creation of CENEX, AASP pledged to endow a chair. After more than a decade of raising funds, AASP completed the \$600,000 contribution, thanks in part to a donation of approximately \$120,000 from the estate of Paul Wesendunk, a retired Chevron palynologist. The Louisiana Board of Regents provided a matching contribution of \$400,000 by 2009.

From 2008 to 2016, Sophie Warny was the interim director of CENEX. In Fall 2016, she was appointed as the first AASP Chair. Since that time, she has work tirelessly to expand and update CENEX, to create an accessible research center for these rare palynological collections and to provide a state-of-the-art research environment for the graduate students trained at CENEX. Warny also used her startup funds to renovate the student's research space and purchase new research microscopes. Not only did the first renovation pro-



vide great equipment for the students to successfully complete their research, the center also provided unique opportunities for assistantships. In collaboration with the LSU Museum of Natural Science where Warny is a curator, a graduate student is funded as a curator assistant (CA) for CENEX to assist with the daily managing, organization and digitization of the large collection of samples and rare books or reprints. Since her start

at CENEX, Warny has directed 18 graduate students' theses and dissertations on various Cretaceous to Cenozoic sections. Her research focuses on the use of palynomorphs to reconstruct past climate or conduct classic biostratigraphic studies. The CENEX graduate students (<https://sites01.lsu.edu/faculty/swarny/palynology-students/>) have all been instrumental in building the center via their publications and hard work. Shannon Ferguson, one of the longest-serving CAs, was a major help with the organization of the collections until her graduation in Summer 2017. Another former student, Marie Thomas, enabled the funding of the StrataBugs licence through industry-support. Former students are employed in the oil and gas industry (HESS, BP, DEVON, CHEVRON, BHP Billiton Petroleum, and EOG) in the United States and in Europe but also with the U.S. Department of Homeland Security (as forensic palynologist), environmental companies, International Ocean Drill-

ing Program (IODP), or as instructors. Warny has raised \$1,801,000 in funding while at LSU to support the CENEX research program.

Various sponsors and mentors (John Anderson, Rosie Askin, Vaughn Bryant, Paul Cornick, Thomas Demchuk, David Pocknall, or Iain Prince, just to cite a few) also have helped build the research program by either donating their time and expertise or material (sediment cores) for the graduate student research or by hiring CENEX students as biostratigraphers.

Warny hopes she is fulfilling the mission of the center and is thankful for the years of dedication by so many to make the center what it is today. She is grateful for all the initial work done by her predecessor, John Wrenn, who started the center.



Above and left:  
The new CENEX  
processing facility  
is equipped with a new  
hood.  
The main focus was  
the safety of students.



Left: The new CENEX visitor office designed to host collaborators and industry partners.

Below: The new CENEX taxonomic room, with holdings of various species catalogues.

Martin Head, a Professor at Brock University in Canada recalled that John was instrumental in changing the name of the center from “The Center of Excellence in Palynology” to “The Center for Excellence in Palynology” as Wrenn felt that the center had not yet earned this boast. It is sad that Wrenn was not to live long enough to see CENEX really blossom.

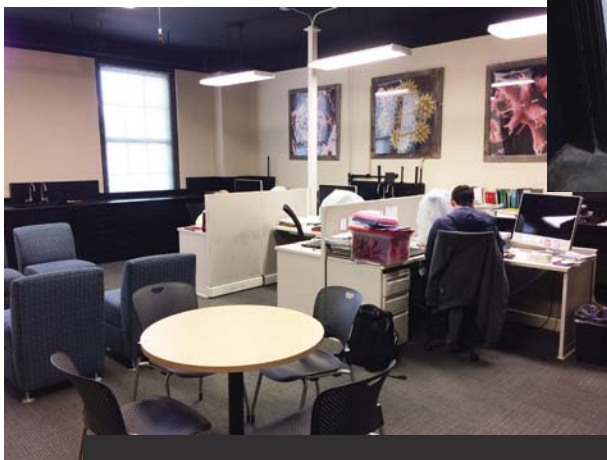
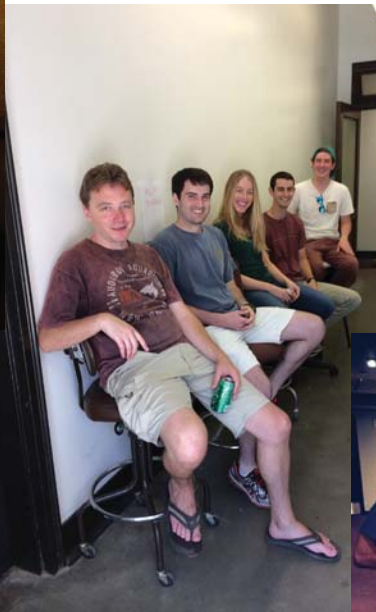
The center also facilitates collaborations amongst researchers around the world and within LSU. Recently, Wrenn began a collaboration with Laura Lagomarsino, a new assistant professor of Biological Sciences and the new Director of the Shirley C. Tucker Herbarium. The collaboration involves combining the Museum of Natural Science’s bird collection, the CENEX pollen collection and the Herbarium collection to understand the co-evolution between birds and the plants that provide their nutrition.



Visitors are welcome at CENEX! A dedicated visitor's workspace was created as part of the renovation to help foster international collaboration. The large collection of pollen and dinoflagellate samples will allow researchers to compare their discoveries for accurate identification. The library collection also houses books and articles that may be inaccessible as most species descriptions were written in the 1900's, before online publishing. For instance, Catherine Smith visited the center for the Spring 2016 semester as a graduate student from the University of South Florida to learn about Antarctic palynology. That collaboration resulted in a paper that made the cover of the journal *Nature* in December 2017. The use of historical reprints at CENEX, mostly unavailable elsewhere, were able to support Smith's research findings.

This rare collection of palynological materials is accessible now with many thanks to the donations to AASP and the LSU Foundation, along with the matching donation from the Louisiana Board of Regents to support an endowed chair at CENEX in the LSU Department of Geology and Geophysics.

Looking ahead to 2020, CENEX will host the AASP annual research conference. The conference will be a joint venture of three LSU labs (Warny, Kam-Biu Liu and Sibel Bargu Ates). It will be a nice opportunity to showcase the renovation to the hundreds of AASP members and share the beautiful State of Louisiana with palynologists from around the world. AASP members will be invited on field trips aimed at discovering the unique Louisiana ecosystems, such as the marsh and swamp environments.

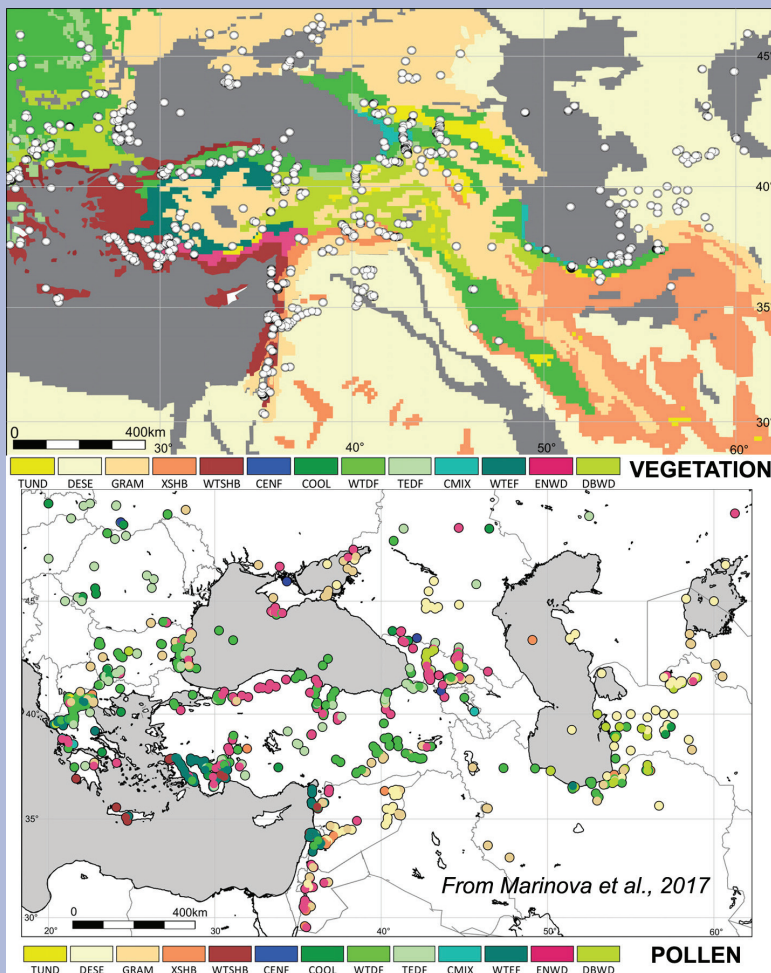


LSU thanks AASP-TPS and all the CENEX founders, supporters, faculty members and students over the years, a few of which are pictured here!

Learn More  
[www.palynology.org/cenex](http://www.palynology.org/cenex)

# Palynology of the Caspian - Black Sea Region: An Update

Check out the new Atlas of Dinoflagellate Cysts in Surface sediments of the Black Sea Corridor by Mudie, Marret, Mertens, Shumilovskikh and Leroy, in *Marine Micropaleontology* v. 136, Oct. 2017. The paper includes the region from Marmara to the Aral Seas, including the Black, Azov and Caspian Seas. It provides descriptions and photoplates of 71 species from 185 sites that are mapped to show distributions and relative abundances, with accompanying graphs of seasonal and annual sea surface temperature and salinity, and with phosphate, nitrate, and bottom oxygen values; some chlorophyll-a data are also shown. These data provide a new basis for transfer functions that can be applied to cores of Holocene sediment in this region of low salinity seas. First Occurrence Data from well-constrained radiocarbon-dated cores are also given to provide a baseline for evaluating the history of invasive dinoflagellate species that have entered these now highly polluted, epicontinental seas.



A companion article is published in *J. Biogeography* Dec. 2017 in a paper led by Elena Marinova and Sandy Harrison (with 23 co-authors) which evaluates the biomisation technique for reconstructing past vegetation in this Aegean-Black Sea-Caspian Corridor using an extensive modern pollen dataset and comparing reconstructions to potential vegetation and observed land-cover data. The biomisation technique is applied to 1387 modern pollen samples, representing 1107 entities, to reconstruct the distribution of 13 broad vegetation categories (biomes) and show that the biomisation scheme successfully predicts the broadscale patterns of vegetation across the region, including elevational changes. However, quantitative assessment of the reconstructions show that caution is needed for biome prediction for samples outside of small basins (<1 sq. km). Also, open vegetation is less successfully predicted (33%) than forest types (73%), reflecting the under-representation of herbaceous taxa in pollen assemblages and the impact of long-distance pollen transport into open lacustrine or marine environments. However, the low confidence of the quantitative comparisons should

not be over-emphasised because the target maps themselves are not accurate representations of vegetation patterns in this region of diverse topography. Overall, the biomisation scheme yields reasonable reconstructions of the broad-scale vegetation patterns in the Mediterranean-Black Sea-Caspian Corridor and it indicates that biomisation could be used to reconstruct changing patterns of vegetation in response to past climate changes within this region.

From the northern Caspian Sea, there are new palynological data from the Emba Delta in a paper by Keith Richards, Peta Mudie, André Rochon, Nataliya Bolikhovskaya and other geologists, published in *Palaeogeography, Palaeoclimatology, Palaeoecology* 468 (2017) 427–452. Well-preserved pollen include *Engelhardia*, *Carya* and frequent Taxodiaceae pollen of *Glyptostrobus pensilis*, a seasonal freshwater swamp tree, now found naturally only in isolated relict stands in East Asia. This suggests that the northeastern Caspian region was a ‘refugium’ supporting *Glyptostrobus* swamp vegetation until the end of marine isotope stage MIS 3. The dinocysts *Pterocysta cruciformis* and *Impagidinium inaequalis* formerly known only from the Black Sea late glacial lacustrine phase are reported as commonly present in the Caspian Sea, for the first time, while the Holocene interval contains frequent foraminifera and dinoflagellate cysts of restricted ‘marine’ affinity, such as *Lingulodinium machaerophorum*. Another paper led by Shannon Ferguson at LSU is published in *Quaternary International*, 465: 117-129 (2018) and documents the distribution of the dinoflagellates *Galeacysta etrusca* and *Spiniferites cruciformis* in the southwestern Black Sea (DSDP Site 380) from MIS 5 to MIS 1. This study includes a morphometrical evaluation of 1139 specimens of these two Paratethyan relict species that are sometimes grouped as the *Galeacysta etrusca*-complex. Discriminant analysis shows that in the Black Sea they are distinct taxa (based on endocyst:ectocyst ratios and gross morphology), and they are indicative of brackish water within a salinity range of c. 12 to 22 psu. A third paper led by Arjen Grothe at Utrecht University, published in *Newsletters on Stratigraphy* 51 (1) 73-91 (2018), documents the Late Miocene migration of *Galeacysta etrusca* from the northwestern Central Paratethys eastwards towards the Caspian Sea and south to the Mediterranean. Using the First Occurrence of the species, this team documents the rapid migration of *Galeacysta etrusca* from the Pannonian Basin eastwards into the Dacian, Black Sea and Caspian basins after the Pontian flooding at ~ 6.1 Ma, and it notes that the species appears briefly in the Mediterranean during the Late Messinian Lago Mare event, indicating a single phase of Paratethyan water overspill at about 5.5 Ma.

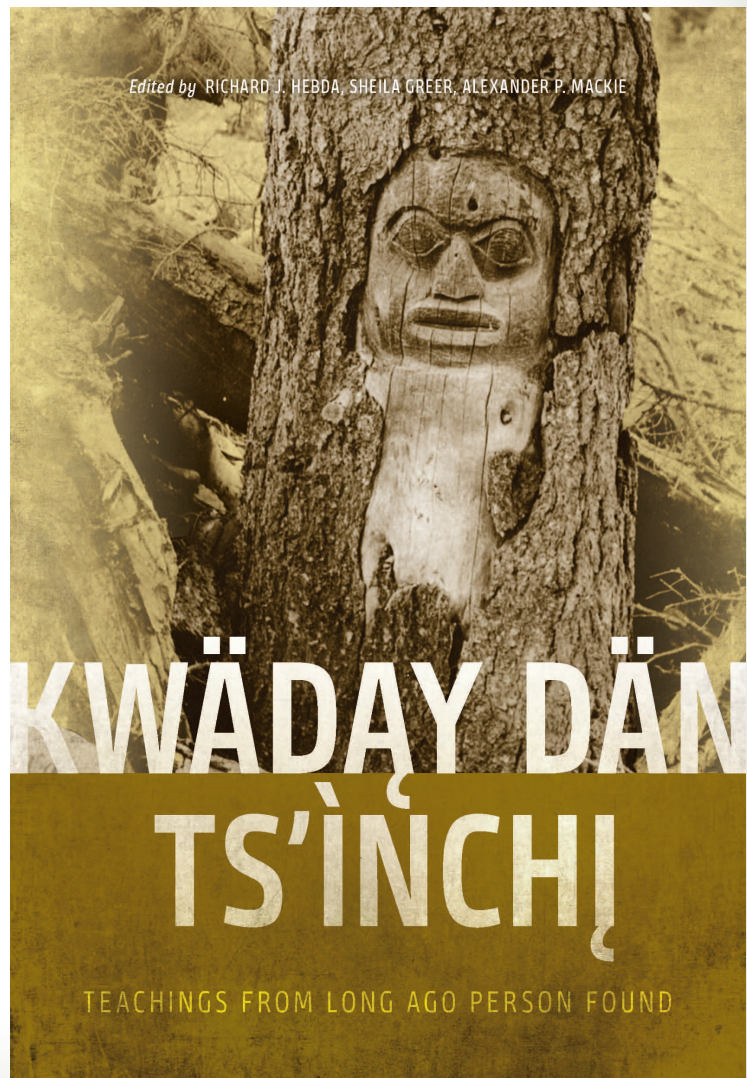
Submitted by: Petra Mudie  
 Emeritus Scientist  
 Geological Survey of Canada (Atlantic)  
 Bedford Institute of Oceanography  
 Dartmouth, Nova Scotia, Canada

# Forensic Archaeobotany in Canada sheds light on Kwäday Dän Ts'ınchi

There are three papers on forensic archaeobotany in a new book on the British Columbian Ice-man Kwäday Dän Ts'ınchi, Dec. 2017. The frozen body of this prehistorical aboriginal man was found in 1999, on a melting glacier in the mountains between northern British Columbia and the Yukon, and there was keen interest in identifying the origin of the young man. Palynological studies made by collaboration of James Dickson, Peta Mudie and Richard Hebda managed to identify the types of food consumed prior to his death. Analysis of Kwäday Dän Ts'ınchi's digestive tract showed that he had consumed shellfish, salmon and 'beach asparagus'. Other paleo-forensic palynology studies traced the pollen and diatoms on his squirrel-skin fur robe to a coastal setting. Based on these pieces of evidence, it has been suggested that his last trip had started somewhere near a tidal saltwater shoreline in Southeast Alaska although his robe must have been made in the inland region.

Submitted by:

Petra Mudie  
Emeritus Scientist  
Geological Survey of Canada (Atlantic)  
Bedford Institute of Oceanography  
Dartmouth, Nova Scotia, Canada



# Reminder, Membership Rates have gone up beginning with the 2018 renewals.

Retired - No access to Palynology

Paid for the current year, receive the quarterly newsletter, a biannual membership directory (published electronically), no access to our journal Palynology. Use the menu to pay for up to three years membership.

1 Year: \$15.00 (2018)

2 Years: \$30.00 (2018 and 2019)

3 Years: \$45.00 (2018 and 2019 and 2020)

Student - On-line only access to Palynology

Receive full benefits (except the print access to Palynology), must provide annual documentation of enrollment. Use the menu to pay for up to three years membership.

1 Year: \$30.00 (2018)

2 Years: \$60.00 (2018 and 2019)

3 Years: \$90.00 (2018 and 2019 and 2020)

Student - On-line and print access to Palynology

Receive full benefits (including the print access to Palynology), must provide annual documentation of enrollment. Use the menu to pay for up to three years membership.

1 Year: \$35.00 (2018)

2 Years: \$70.00 (2018 and 2019)

3 Years: \$105.00 (2018 and 2019 and 2020)

Member - Only on-line access to Palynology

Receive full benefits (except the print access to Palynology). Use the menu to pay for up to three years membership.

1 Year: \$50.00 (2018)

2 Years: \$100.00 (2018 and 2019)

3 Years: \$150.00 (2018 and 2019 and 2020)

Member - On-line and print access to Palynology

Receive full benefits (including the print access to Palynology). Use the menu to pay for up to three years membership.

1 Year: \$70.00 (2018)

2 Years: \$140.00 (2018 and 2019)

3 Years: \$210.00 (2018 and 2019 and 2020)



## Correspondents Wanted!

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

Current vacancies include:

Book Review Editor

India Correspondent

South Africa Correspondent

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

- Jen O'Keefe & Gilda Lopes

## Call to Serve!

**This year we will be electing individuals to serve on the Board of Directors in the following capacities:**

Managing Editor

Secretary

Treasurer

Director-at-Large

Student Director-at-Large

Candidates must provide a photograph, Bio, and a signed agreement to serve (available from our secretary) prior to the mid-yearly meeting of the board of directors (Monday, 16 April 2018). Nominations were due at the end of February.

**Not on the ballot? Run via the nomination process! See the by-laws for details.**

# *SOCIETY AWARDS*

Martin Farley, Awards Committee Chairman

AASP-TPS has a number of awards that recognize accomplishments of palynologists. Here I deal only with awards not directly associated with society officers or students (other than the Undergraduate Awards) or awards at the Annual Meeting.

The deadline is March 1 of each year for submission of nominations to the Awards Committee. The basic nomination procedure is similar for most awards (main letter of nomination accompanied by letters of support, these to include documentation of accomplishment). Details on the procedures for each award can be found at <http://www.palynology.org/content/awardproced.html>, while a complete list of the people who have received these awards in the past can be found on the third page of this newsletter.



## **Distinguished Service Award**

This award recognizes individuals who have generously supported the Society with their work and resources over a number of years and whose efforts have advanced the Society. Typically, recipients have held society office, participated in committees, or dealt with publications or meetings. There have been 19 recipients of this award, most recently Fred Rich and Jim Riding in 2016.

## **Honorary Life Membership**

This is actually the oldest AASP award with the first awards dating to 1975. This award is given either to people making fundamental contributions to the science of palynology or people who have given the AASP devoted service or both. Honorary Life Membership has been awarded to 16 individuals, most recently to Norm Norton in 2016.

## **Medal for Excellence in Education**

This medal recognizes leaders in palynological instruction. Nominees are expected to have considerable experience and accomplishment in all aspects of academic education involving palynology, including training of new scientists for the field. The medal has been awarded four times, most recently to Geoff Clayton in 2016.

## **Medal for Scientific Excellence**

The Society's highest award for achievement in the science of palynology is the Medal for Scientific Excellence. The official description lists "fundamental contributions to the development of the science of palynology" as the main criterion. Recipients should have a substantial research history in the field. The medal has been awarded 11 times in the history of the Society, most recently to Vaughn Bryant in 2016.

## 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](mailto: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 and Secretary ([s.stukins@nhm.ac.uk](mailto:s.stukins@nhm.ac.uk)). Additionally, faculty must send the name of the winner, a paragraph about their achievements, and a photograph to the newsletter editor ([palynologylexington@gmail.com](mailto:palynologylexington@gmail.com)) or associate editor ([gildalopes@gmail.com](mailto:gildalopes@gmail.com)) for inclusion in the March newsletter (for awards made between July and December) or June newsletter (for awards made between January and June) each year.

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

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### 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:

# **2018 AASP STUDENT RESEARCH GRANTS**

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

**March 31, 2018**

This year there will be two Student Research grants of US\$3000 each.

These Student Research Grants support research in any area of palynology. Ordinarily, the grants will be offered to beginning graduate students, but advanced undergraduates may also apply. Student Research Grants are to be used for costs directly connected to carrying out research, such as fieldwork and laboratory expenses. The qualification of the student, the originality and imagination evident in the proposed project, and the likelihood of significant contribution to the science of palynology are factors that will be weighed in the selection of award winners. Previous winners of this award are eligible only if they are pursuing a different degree than the one they were pursuing when they received the previous award.

AASP Student Research Grants are available to all students of palynology in all countries; applicants must be members of AASP.

Application forms can be downloaded from <http://palynology.org/student-research-grants/>.

Inquiries and completed application materials should be sent electronically to the Chair of the AASP Awards Committee:

Martin Farley  
Dept. of Geology & Geography, University of North Carolina at Pembroke  
[mbfarley@sigmaxi.net](mailto:mbfarley@sigmaxi.net)

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

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

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

# *Congratulations to the Undergraduate Award Winners!*

**Harry Mesnard, University of Southampton, Southampton, Hampshire, UK.**  
**Advisor: Ian Harding**

I earned an undergraduate award from AASP-TPS for achieving the best mark in a Petroleum Consultancy Exercise during the Fall Term 2017. In this exercise, I had to analyse bore hole data in order to identify potential source rocks from palynofacies and thermal maturity data, as well as to identify reservoir rocks in the borehole. I plan on doing a Geoscience MSc at University College London before going into the petroleum or mineral exploration industry. Many thanks for this honour!



**Anthony Collins, University of Southampton, Southampton, Hampshire, UK.**  
**Advisor: Ian Harding**



I am in my 3rd year of Msci Geology degree at the University of Southampton. In the fall of 2017, I completed the module "Microfossils, Environments and Time." A mock petroleum consultancy exercise was part of its assessment, and I achieved the highest mark for the associated report. The exercise provided a set of an incomplete borehole data drilled from the North Sea. Using total organic carbon content, palynofacies, thermal maturity indices and lithological characteristics, I had to identify the most favourable hydrocarbon producing source rocks and the reservoir rocks in which hydrocarbons would accumulate. In the future, I plan to build a career in either the petroleum or mining industry. Thank you for this prestigious award, I am honoured to receive it.

# CONSIDER HELPING OUR MISSION

## AASP FOUNDATION CENTURY CLUB

### What?

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

### Why?

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

### How?

Your tax-deductible contribution of \$100 or more to the AASP Foundation entitles you to belong to the Century Club. The 2016 "membership" drive is on now. Your contribution may be made by personal check or by a pledge which is ***payable on or before December 31, 2018.***

### Join!

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

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

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## 2018 AASP Foundation Century Club Contribution Form

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

Contribution Enclosed: \$ \_\_\_\_\_

I wish to pledge: \$ \_\_\_\_\_

# FUTURE MEETINGS OF AASP - THE PALYNOLOGICAL SOCIETY

2018 - 51st Annual Meeting

Calgary, Alberta, Canada

Organizers: Kimberley Bell & Thomas Demchuk

2019 - 52nd Annual Meeting

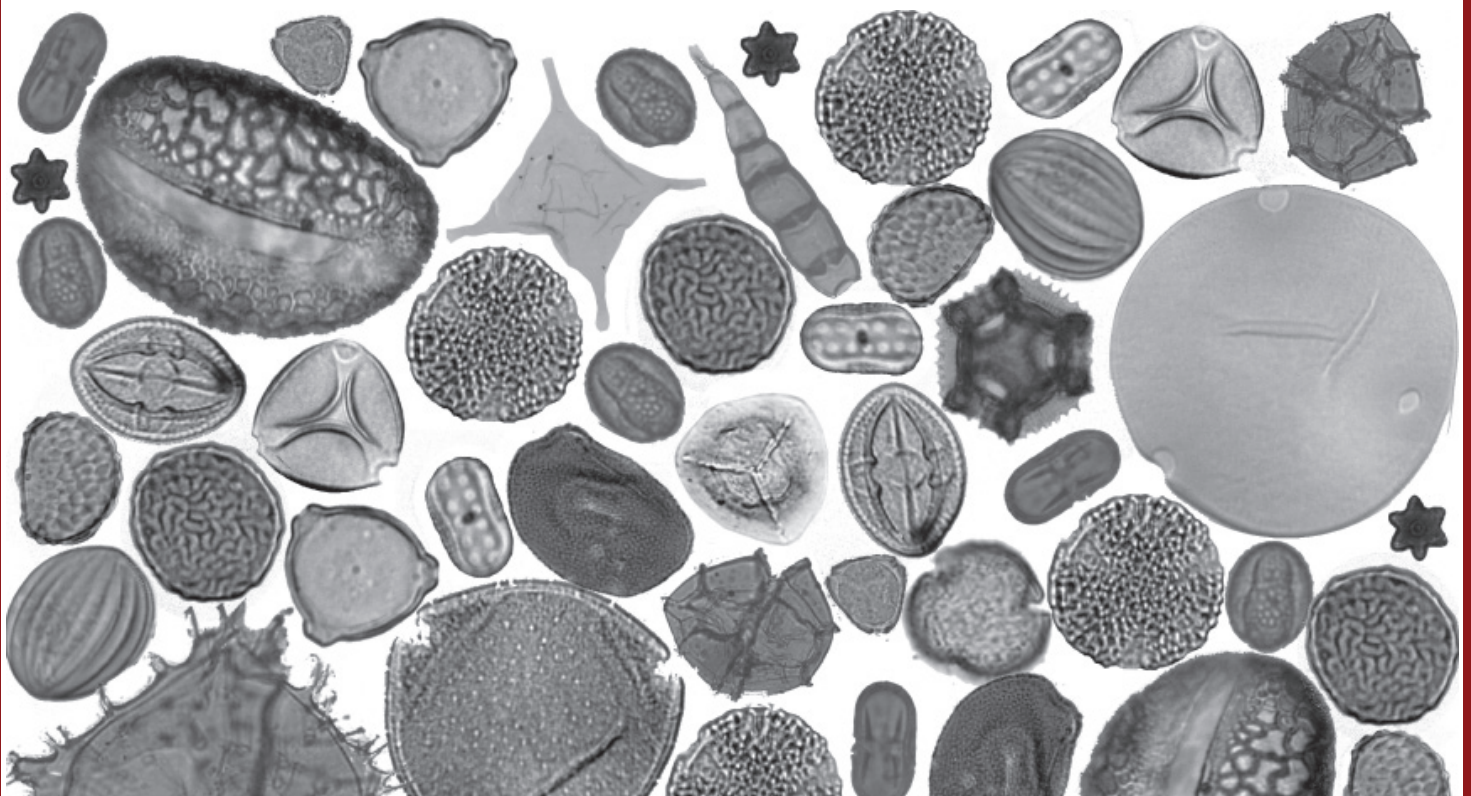
Ghent, Belgium

Organizers: Stephen Louwye & Thijs Vanderbrocke

2020 - 53rd Annual Meeting

Baton Rouge, Louisiana, USA

Organizer: Sophie Warny





# MASTER CLASS

**“Terrestrially-Derived Fossil Palynoflora:  
Subsurface Application to Stratigraphy and Modeling”  
July 16-20, 2018 Florence, Italy**

## Course Instructors:

**Adele Bertini, Timme Donders, Guy Harrington,  
Carlos Jaramillo, Robert Morley, David Pocknall,  
Mercedes Pramparo, Mike Stephenson, Jim Riding,  
Paul Strother, Roel Verreusel**

## Course Organizers:

**Adele Bertini, Peter Bijl, Thomas Demchuk, Timme Donders**

## Course Outline:

- General Pollen/Spore Morphology and Taxonomy, Concepts and Applications
- Paleozoic-Mesozoic-Cenozoic Spore Chronostratigraphy and Paleoecology  
Special focus on Middle East, Southern Hemisphere, N.W. Europe, West Africa, Southeast Asia, North and South America
- Quaternary and Holocene Palynostratigraphy and Paleoecology

## The Aims and Deliverables of the Class will be:

- To provide instruction on basic pollen/spore/algal taxonomy as an aid in identifying and classifying varied terrestrially-derived palynoflora
- To provide a general background into terrestrial palynomorph morphology, taxonomy, chronostratigraphy, paleoecology and paleoclimate through the Phanerozoic
- To provide case studies of standard and innovative industrial applications of terrestrially-derived pollen/spore/algae to subsurface problem solving, including calibration to sequence stratigraphic modeling  
Middle East-Paleozoic: Southeast Asia-Cenozoic: West Africa-Neogene
- Each topic and lectures will be accompanied by microscope workshops
- A fieldtrip is being planned but is not yet finalized
- Anticipated Course Fees: Students €300, Consultant/Industry €600

For additional information and interest in attending this Class please contact:  
Thomas Demchuk at [tdemchuk@swbell.net](mailto:tdemchuk@swbell.net)

# FIRST ANNOUNCEMENT

## ADVANCED COURSE in

### Jurassic - Cretaceous - Cenozoic

# ORGANIC-WALLED DINOFLAGELLATE CYSTS

**Morphology - Stratigraphy - Palaeoecology**

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

**Where:** Nottingham, United Kingdom

**Costs:** Academic €400; Consultant €800;  
Industry €1200

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

Pre-registration: email your name and  
affiliation to [info@lpp-foundation.nl](mailto:info@lpp-foundation.nl)



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

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

Proposals for adjacent workshops will be  
considered.

More info: [info@lpp-foundation.nl](mailto:info@lpp-foundation.nl);  
[www.lpp-foundation.nl](http://www.lpp-foundation.nl)



**Presented by**

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

**With contributions from:**

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

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



MORGAN GOODALL PALAEO PTY LTD



Universiteit Utrecht





## ***XVII Argentine Symposium of Paleobotany and Palynology***

**TOWARDS NEW CHALLENGES**

**Paraná – Entre Ríos, July 30th to August 5th 2018**

[sapp2018@palino.com.ar](mailto:sapp2018@palino.com.ar)

<http://fcyt.uader.edu.ar/web/sapp2018>



We are pleased to invite you to participate in the *XVII Argentine Symposium of Paleobotany and Palynology* (SAPP 2018), **TOWARDS NEW CHALLENGES**. This prestigious scientific event brings together the most recognized specialists both locally and worldwide, and its importance is reflected in the significant number of participants who have attended each one, which has risen in the last two symposia, 150 in Corrientes 2012 to 180 in La Plata 2015.

In this edition it will be held for the first time in the city of Paraná, Entre Ríos province, between July 30 and August 5, co-organized by the Latin American Association of Paleobotany and Palynology and the Universidad Autónoma de Entre Ríos, declared of Institutional Interest (CS Res. N ° 121/17).

We thank you for the diffusion of this invitation and we hope to have your valuable contribution.

## VENUE OF THE EVENT – CITY OF PARANÁ

**Paraná** is the capital city of the Entre Ríos province, Argentina. It is located in the center-east of the country, on the left bank of the Paraná River.



It has 137 km<sup>2</sup> and a population of 247 863 inhabitants, being the most populous city of the province and the fourteenth at the national level. In addition, it is the main component of the agglomerate called Gran Paran . Next to the Gran Santa Fe they form an urban area of more than 1 000 000 inhabitants, united by the subfluvial tunnel Ra l Uranga – Carlos Sylvestre Bagnis.

The parkland, such as the Parque Urquiza, are one of the unique characteristics of Paran , which has a close relationship with the river that gives its name.



It has a pampean climate, with an average temperature of 18 ° C (annual) and a total annual precipitation that does not exceed 1,250 mm. In the summer the average temperature of the city is 23 ° C, while in winter it is between 18 ° C and 5 ° C, with low rainfall.



### Venue of the SAPP

**Escuela Normal José María Torres de Paraná** – Facultad de Humanidades, Artes y Ciencias Sociales - Universidad Autónoma de Entre Ríos

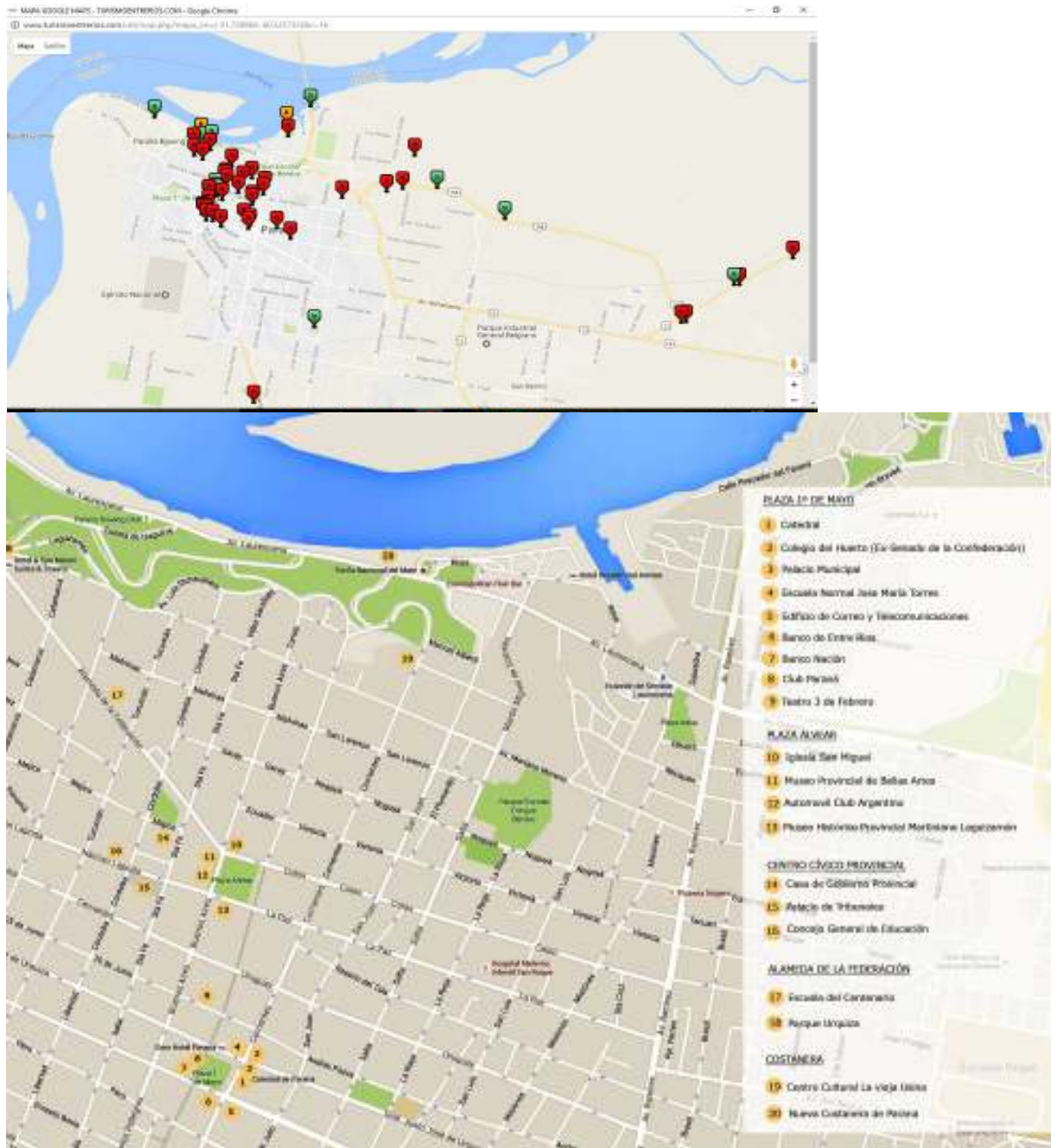
The **headquarters of the SAPP** is located near the **Plaza 1° de Mayo**, in the block bounded by the streets: Urquiza, San Martín (pedestrian), Montecaseros and 25 de Mayo. Around it are numerous buildings of importance: the cathedral, the municipal palace, the mail building, the Banco de Entre Ríos headquarters, the **José María Torres normal school**, the Orchard school as well as businesses, dining rooms and hotels.



For more information contact:

[https://es.wikipedia.org/wiki/Paran%C3%A1\\_\(Argentina\)](https://es.wikipedia.org/wiki/Paran%C3%A1_(Argentina))

<http://www.turismoentrerios.com/parana/>



## INSCRIPTION

	Professionals Partners ALPP	Professionals Partners APA/SAB	Professionals	Degree students+
<b>Early Registration 30/01/2018</b>	USD 100	USD 120	USD 140	USD 40
Onwards*	USD 120	USD 140	USD 160	USD 50
COURSES #	USD 15	USD 30	USD 40	NO FEE

\* Registration costs will be maintained until the date of the Symposium. Accreditations can be made every day.

### # Registration fee for the following courses:

**Forensic Palynology  
Palynofacies**

## PAYMENT METHODS

See in the website <http://fcyt.uader.edu.ar/web/sapp2018> under *Inscripción*.

If not, please, contact Mercedes di Pasquo and Paola Soñez [sapp2018@palino.com.ar](mailto:sapp2018@palino.com.ar)

## ABSTRACTS

**Deadline for submission of abstracts: January 31, 2018.**

The registration form you must complete is attached [here](#).

**Abstracts must be submitted to the electronic addresses in the link here.**

You must fill it out and then send it to the following address [sapp2018@palino.com.ar](mailto:sapp2018@palino.com.ar) with the following file name: **Inscripcion SAPP 2018** (Name and Surname).

All abstracts will be refereed by the Scientific Committee of the Symposium (see instructions for format in attached file). **At least one of the authors** must pay the registration at the closing date of receipt of the abstracts.

The Organizing Committee has foreseen that the number of communications **can not be greater than 2 (two) by first author**. Each author must indicate in the registration form (see attached file), in the case of submitting two communications, which one of them suggests to be presented orally. The Scientific Committee may modify this proposal.

Abstracts will be published in the volume 2017 of the digital magazine of the ALPP, which will be available on the symposium page as well as on the Association's blog and through the UADER website, and will be distributed to other associations and National and international entities.

#### INSTRUCTIONS TO FORMAT THE SUMMARY

Name the file with the surname of the first author followed by "et al" in the corresponding case. Add numbering in the file name in the case of sending more than one.

**EX.** "Perez et al\_1"

#### GUIDE FOR AUTHORS

Authors are required to make maximum effort to have the summaries presented in a clear and concise manner, in order to take advantage of the available publication space. Contributions will be the result of original works.

- Abstracts should be made in Word with Times New Roman 12.
- They should not exceed 250 words and consist of a single paragraph.
- Bibliographical references as well as nomenclatural novelties will not be included in the abstract.
- The title will be concise and representative of the content of the article and should be written in capital letters (bold), centered and without underlining.
- Below, leaving two interlines, in bold and lowercase, the names of the authors and below the Institution to which they belong and email address.
- The text should be in an interlining space, without indentation (either tabulator or spaces) and without double spacing between paragraphs, respecting a margin of 2 centimeters in the upper, left and right edges and 1 cm in the lower edge.
- Illustrations will not be included.
- Abstracts must contain, without exception, the conclusions or results of the work done.
- Can be presented in Spanish, Portuguese or English.

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

The ALPP and IOP associations kindly offer awards for PhD students and young postdocs (up to 5 years after defending their doctorate), at the SAPP conference in July 30-August 5, 2018. The IOP will award three participants who present best talks as

first author in the field of Paleobotany and the same will do the ALPP to four participants in the fields of Paleobotany and Palynology.

Participants do need to indicate if they apply for one or both awards in the registration form (see in the website of SAPP, and see IOP newsletter) and to which category (PhD student or young postdoc) they belong. They must be current members of IOP and ALPP at the time of registration, or become a member by the first day during registration at the meeting. The members of the Directive Committee will select the jury that will evaluate the participants during the event.

Winners will receive their prizes at the ALPP Assembly at the end of the event, which consists of a certificate and 100 USD. For inquiries about the award or the means to partner with IOP or ALPP please contact Dr. Mercedes Di Pasquo ([medipa@cicytp.org.ar](mailto:medipa@cicytp.org.ar)).

ALPP - <http://alpaleobotanicapalinologia.blogspot.com.ar>

IOP- <http://palaeobotany.org/page/forthcoming-meetings>

## ORGANIZATION

**A tribute** will be made to **Dr. Mirta Quattrocchio**, who through her great trajectory as CONICET researcher and Professor of the South National University (Universidad Nacional del Sur) has a wide contribution to Palynology, and will give the first inaugural plenary lecture. At the end of the event a welcome lunch will be offered.

The event is organized in in parallel rooms of **General Sessions (SG)** and **Thematic Sessions (ST)**, and will offer one plenary lecture per day, and courses and other activities of interest.

### Plenary lectures

**Mirta Quattrocchio** (UNS, Bahía Blanca) – **conferencia como homenajead**  
**(apertura)**

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

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

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

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

## General Sessions

Paleozoic Paleobotany and Palynology  
Mesozoic Paleobotany and Palynology  
Paleogene-Neogene Paleobotany and Palynology  
Quaternary Paleobotany and Palynology.

## Thematic Sessions (ST)

Paleoecology  
Embryophytes  
Palynofacies  
Evolution  
Vegetable microremains as a tool for paleoenvironmental and  
archaeological reconstruction (phytolites, Diatoms, Pollen, Starches)  
Melissopalynology - Entomopalynology  
Forensic Palynology  
Palynomycology and Modern Processing Techniques  
New methodologies in Paleobotany and Palynology

## Courses

**Red of Pollen Catalogs- RCPol** – Dra. Claudia da Silva (Universidade de São Paulo, Brasil)- 1 full day – **More information of this online database is in the website <http://rcpol.org.br/en/homepage/>**

**Palynofacies** – Drs. Marcelo Martínez, Daniela Olivera (Universidad Nacional del Sur)- 1 full day - Paraná

**Forensic Palynology** – Dra. Leticia Povilauskas (Universidad Nacional de La Plata) - 1 full day - Paraná

**Analysis of paleoecological data with "R"**– Drs. Thomas Giesecke, Sonia Fontana (Goettingen Germany), Marcos Echeverría (Universidad de Mar del Plata) - 5 days – CICYTTP in Diamante

## ORGANIZING COMMITTEE XVII SAPP

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<b>Josefina Bodnar</b> – FCNyM	
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Elena Cornou UNS (Instituto Geológico del Sur), Bahía Blanca  
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Cecilia Macluf – UNLP, Museo de La Plata  
Gonzalo Marquez – UNLP, Museo de La Plata  
Leticia Povilauskas - UNLP, Museo de La Plata  
Ignacio Escapa - Museo Paleontológico “Egidio Feruglio”, Trelew



# ICA2018



## 11th International Congress on Aerobiology

3 - 7 September 2018, Parma, Italy

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

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

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

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

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

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

Monitoring, Networks
Palynology
Ragweed and news invasive allergenic plants



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

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

Bernard Clot  
IAA President

Roberto Albertini  
Congress Chairperson, ICA2018

PROMOTED BY:



WITH THE SUPPORT OF:



ORGANISING SECRETARIAT:



Via Marchesi 26 D, 43126 PARMA – Italy Tel. +39-0521 290191 Fax. +39-0521 291314  
[info@mvcongressi.it](mailto:info@mvcongressi.it) - [www.mvcongressi.com](http://www.mvcongressi.com)

**STAY TUNED:**

[www.ica2018.eu](http://www.ica2018.eu)

[ica2018@mvcongressi.it](mailto:ica2018@mvcongressi.it)



## **First Circular**

### **The Micropalaeontological Society 6<sup>th</sup> Silicofossil and Palynology Meeting**

**Plymouth University, UK**

**September 5<sup>th</sup> – September 8<sup>th</sup>  
2018**

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

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

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

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

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

### **Getting to Plymouth**

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

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

### **Plymouth City Centre**

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

### **The University Campus**

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

## **Draft Schedule for the Meeting**

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

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

## **Outline Programme (for planning purposes)**

### **Wednesday 5<sup>th</sup> September 2018**

1600 Registration opens

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

### **Thursday 6<sup>th</sup> September 2018**

0830 Registration opens

0900 – 0915 Welcome & Introduction

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

1230 Buffet lunch, including a poster session

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

1730 Discussion

1800 End of sessions

**1930 (for 2000) Conference Dinner**

### **Friday 7<sup>th</sup> September 2018**

0830 Registration opens

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

- 1230 Buffet lunch, including a poster session
- 1400 Talks of 15 minutes or 20 minutes, with coffee/tea break
- 1730 Discussion, choice of venue for 2020 meeting and close
- 1800 End of sessions, removal of posters from boards, etc.
- 1830 Fish' n' Chip supper in Drake's Café (on university campus)

**Saturday 8<sup>th</sup> September**

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

## **Preliminary Registration Form**

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

**Name:**

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

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

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

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

**E-mail address:**

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

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

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

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

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

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

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

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

## Abstract Submission

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

Title (14 pt Arial, bold, centred)

< blank line >

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

< blank line >

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

Presenting author E-mail (centred)

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

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

# The Holocene separation of Jersey from mainland Europe

**Malcolm B. Hart<sup>1</sup>, Paul Chambers<sup>2</sup>, Graham Evans<sup>2</sup>, Ralph Nichols<sup>2</sup> & Christopher W. Smart<sup>1</sup>**

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<sup>2</sup>Société Jersiaise, 7 Pier Road, St Helier, Jersey JE2 4XW, U.K.

E-mail: mhart@plymouth.ac.uk

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

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

The IPC is organised every four years under the auspices of the International Palaeontological Association ([www.ipa-assoc.org](http://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 5<sup>TH</sup> INTERNATIONAL PALAEONTOLOGICAL CONGRESS

July 9<sup>th</sup> - 13<sup>th</sup>, 2018  
FRANCE

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# THE FOSSIL WEEK

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## 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 9<sup>th</sup>-13<sup>th</sup>.**

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.**



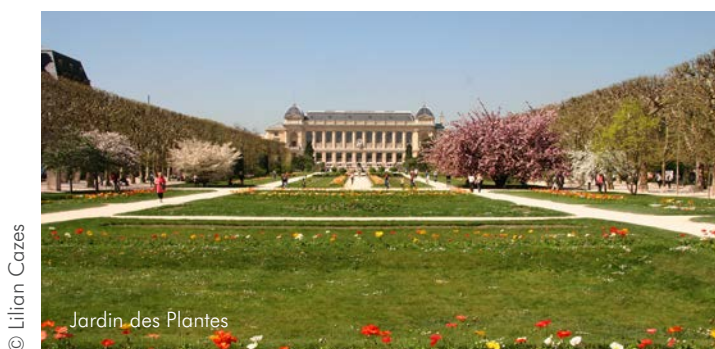
View of the Seine River and the Notre-Dame Cathedral

## 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](mailto: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](http://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 dinatoire		Gala dinner		

Some scientific sessions have already been proposed by the French palaeontologists and are listed below. We call here for other proposals.

All the palaeontological groups have their own meetings, so please do not propose session too much focused on taxa. **The IPC is the opportunity to mix the different group approaches.**

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

Send your proposal to [congress-ipc5-contact@mnhn.fr](mailto: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

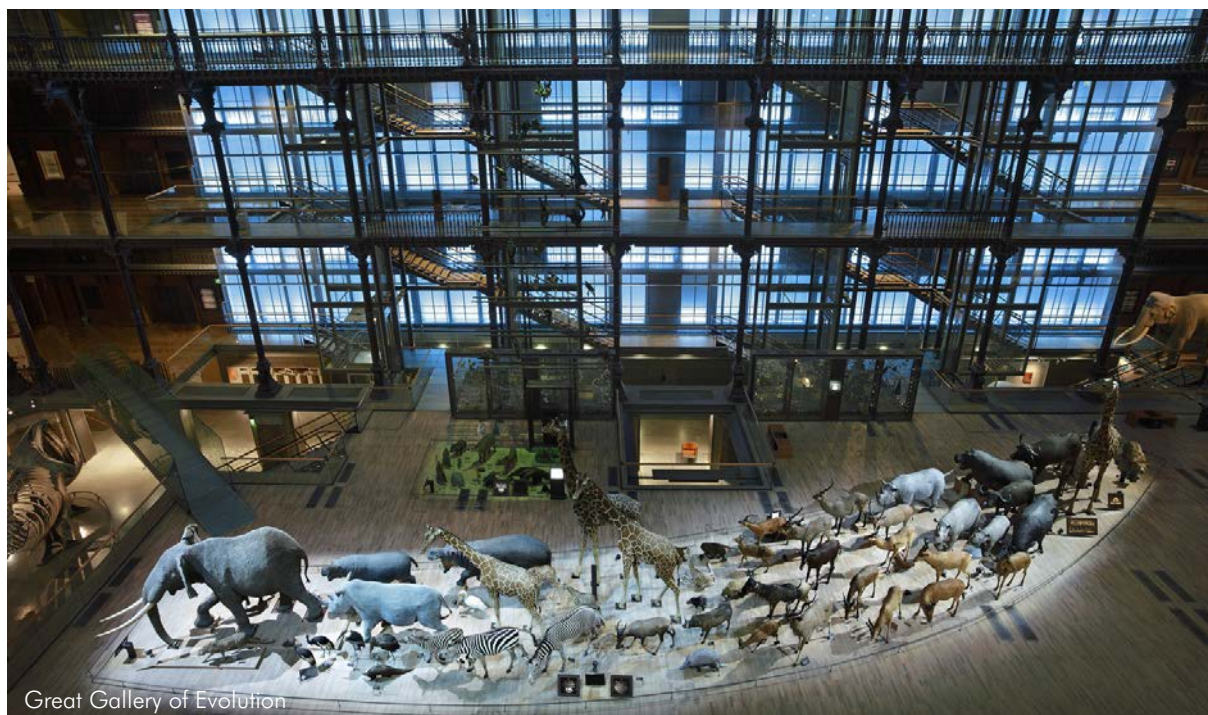
- The end-Permian mass extinction and the Early Triassic biotic recovery in the Dolomites (**Southern Alps, Italy**)  
4 days

- 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](mailto:congress-ipc5-contact@mnhn.fr)

### Organisers



### Administrative supervision



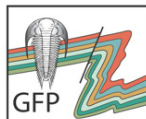
**MUSÉUM**  
NATIONAL D'HISTOIRE NATURELLE



**UPMC**  
SORBONNE UNIVERSITÉS

**SORBONNE**  
UNIVERSITÉS

### Partners



**MUSÉUM D'HISTOIRE NATURELLE**  
de Toulon et du Var





# 10<sup>TH</sup> 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](http://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 Synge, Alan Smith, Bill Watts, Marshall McCabe and Willie Warren. The INQUA Congress held in Birmingham in 1977, which included excursions to Ireland led by Watts and Synge, gave a further impetus to Quaternary studies in Ireland. Frank Mitchell, as President of INQUA for the intercongress period 1969–1973, and later through his classic book, *Reading the Irish Landscape*, also greatly helped in highlighting the multi-dimensional character of the Quaternary record in Ireland.

Currently, IQUA is a thriving organisation with well over 100 members, and disseminates information about its activities through its webpage ([www.inqua.ie](http://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](http://www.inqua2019.org)

