



# AASP – The Palynological Society

Promoting the Scientific Understanding of Palynology since 1967



*Merry Christmas*

HAPPY NEW YEAR!





# AASP – TPS NEWSLETTER

Published Quarterly by AASP – The Palynological Society

December 2019, Volume 52, Number 4

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# AASP

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

## **AASP Scientific Medal recipients**

Professor William R. Evitt (awarded 1982)  
Professor William G. Chaloner (awarded 1984)  
Dr. Lewis E. Stover (awarded 1988)  
Dr. Graham Lee Williams (awarded 1996)  
Dr. Hans Gocht (awarded 1996)  
Professor Svein B. Manum (awarded 2002)  
Professor Barrie Dale (awarded 2004)  
Dr. David Wall (awarded 2004)  
Dr. Robin Helby (awarded 2005)  
Dr. Satish K. Srivastava (awarded 2006)  
Professor Estella B. Leopold (awarded 2013)  
Professor Vaughn M. Bryant (awarded 2016)  
Professor David Batten (awarded 2018)

## **AASP Honorary Members**

Professor Dr. Alfred Eisenack (elected 1975)  
Dr. William S. Hoffmeister (elected 1975)  
Professor Leonard R. Wilson (elected 1975)  
Professor Knut Faegri (elected 1977)  
Professor Charles Downie (elected 1982)  
Professor William R. Evitt (elected 1989)  
Professor Lucy M. Cranwell (elected 1989)  
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Professor Aural 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 Aural T. Cross (awarded 1999)  
Professor Alfred Traverse (awarded 2001)  
Professor Bill Evitt (awarded 2006)  
Professor Vaughn M. Bryant (awarded 2013)  
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## **AASP Distinguished Service Award recipients**

Dr. Robert T. Clarke (awarded 1978)  
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Dr. Richard W. Hedlund (awarded 1982)  
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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)  
Prof. Martin B. Farley (awarded 2019)



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Gilda Lopes, Editor

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## BOARD OF DIRECTORS

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## AASP NEWSLETTER GRAPHIC DESIGN (December 2019 Issue)

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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 FEBRUARY 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



Photo: Katrin Ruckwied, AASP - TPS President

Dear colleagues and friends,

The end of the year is approaching fast and this is usually a good time to reflect on the past and to commit to change for the better with a new year's resolution! AASP had a very good year as an organization with a wonderful meeting in Ghent. The board will gather before Christmas for a very early "mid-year" meeting, due to the early date of the 2020 Annual meeting in Baton Rouge in May.

Obviously, the last year was another not-so-rosy one for the hydrocarbon industry – we

all are aware that these are difficult times for palynology and micropaleontology in general. I met a couple of colleagues at a conference and the discussion quickly evolved from a general complaint about the situation to the question if it would be a wise decision for young people to even consider studying micropaleontology. Many said they wouldn't recommend getting into the subject anymore, due to the lack of employment opportunities in the energy sector and the very aggressive competition for funding in academia. Suddenly I had a déjà-vu! I've heard the same things twenty years ago when I started working on my MSc thesis in palynology. I remember the dean of my faculty looking at me with a quite worried facial expression, asking: "Girl, seriously? You will never find a job!" Quite obviously, I wasn't too impressed with that statement. I never studied palynology because I was banking on a well-paid job, I was studying it because I was passionate about it! I was asked recently if I regret this decision and the simple answer is: No! I am still enjoying what I'm doing.

Palynology is versatile and I see plenty of applications for our field, maybe even more than in the past. In academia, palynology is a key tool for climate research. Climate change is currently a hot topic, and I'm sure the coming years will hold plenty of interesting opportunities in this field of research. The energy industry is changing, but change is not necessarily negative. The rise of unconventional resources was a big missed opportunity for palynology! An entirely new industry evolved around organic-rich shales and it feels to me that only very few of us engaged with those stakeholders. I think this example shows the importance for all of us to recognize the versatility of our methods and to move beyond the old standard applications.

We can always provide stratigraphic ages and sea-level curves, but we can do so much more: Maturity estimation, source-rock characterization, mapping of landing zones for horizontal wells! We can help to reconstruct the history of our planet, there are applications in the fishing and honey industry, and we even help to solve criminal cases. The key is to have a vision!

Would I recommend a student today to consider palynology? Well, it still won't be easy, but with passion, there is no better job in the world!

With passion, we can be positive, creative, and excited about our profession, embrace the change and see the new opportunities it brings! A perfect occasion to fuel this passion will be next year's Annual Meeting in Baton Rouge! I hope to see many of you in May in Louisiana!

I wish you and your families a happy and peaceful holiday season,

Katrin

## Managing Editor's Report



Parts 3 and 4 of Volume 43 of *Palynology* were printed and distributed in late October 2019, comprising 28 research papers and one obituary. The contents of Part 4 are reproduced below. This is the final part of our journal for 2019. The next issue will be Part 1 of Volume 44, and this will be published online during February 2020.

Volume 43 represents a new record for *Palynology* in that it has 805 pages in the four parts plus the one supplement. History tells us that there will not be a supplement every year, but 734 pages for the core journal represents a significant increase on previous years. This is simply a result of ever-increasing levels of scientifically-excellent submissions.

It is hoped that we can get the latest *Lentin and Williams Index of Fossil Dinoflagellates* published by the *Contributions Series* later this year. This edition of this long-running serial publication by Rob Fensome, Graham Williams and Andrew MacRae will, like the last edition, not be printed. The pdf file will be freely

available to download from the AASP website.

I am due to meet with our publishers, Taylor and Francis, in mid-December when they will present their annual report and no doubt we will be discussing the implications for *Palynology* of *Plan S*, and the open access revolution generally.

James B. Riding

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5th November 2019



## The contents of *Palynology* Volume 43, Part 4

(November 2019)

1. Sousa, H.C.F., Santos, J.C., Gonçalves-Esteves, V. and Mendonça, C.B.F. Taxonomic significance of pollen morphology in the tribe Helieae (Gentianaceae) from the Atlantic Forest, Brazil. 539–550.
2. Tripathi, S., Farooqui, A., Singh, V., Singh, S. and Roy, R.K. Morphometrical analysis of *Ceiba* Mill. (Bombacoideae, Malvaceae) pollen: a sacred plant of the Mayan (Mesoamerican) civilisation. 551–573.
3. Cui, X., Wang, M., Gu, L. and Liu, J. Pollen morphology of Chinese Caryophylleae and its systematic significance. 574–584.
4. Reis, C.I.C., Coimbra-Dores, M.J. Rebelo, M.T. and Faria, M.S. Palynological analysis of soil in Portugal: potential for forensic science. 585–595.
5. Pound, M.J., O'Keefe, J.M.K., Nuñez Otaño, N.B. and Riding, J.B. Three new Miocene fungal palynomorphs from the Brassington Formation, Derbyshire, UK. 596–607.
6. Warny, S., Jarzen, D.M., Haynes, S.J., MacLeod, K.G. and Huber, B.T. Late Cretaceous (Turonian) angiosperm pollen from Tanzania: a glimpse of past vegetation from a warmer climate. 608–620.
7. Janssens, S.B., Vinckier, S., Bosselaers, K., Smets, E.F. and Huysmans, S. Palynology of African *Impatiens* (Balsaminaceae). 621–630.
8. Lopes, G., Mangerud, G. and Clayton, G. The palynostratigraphy of the Mississippian Birger Jonhsonfjellet section, Spitsbergen, Svalbard. 631–649.
9. Smith, C., Warny, S., Shevenell, A.E., Gulick, S.P.S. and Leventer, A. New species from the Sabrina Flora: an early Paleogene pollen and spore assemblage from the Sabrina Coast, East Antarctica. 650–659.
10. Soliman, A. and Slimani, H. The dinoflagellate cyst *Molassedinium bicornutum* gen. et sp. nov. from the Oligocene of the North Alpine Foreland Basin, Austria. 660–668.
11. MacLachlan, S.M.S., Pospelova, V. and Hebda, R.J. Areoligeracean dinoflagellate cysts from the upper Campanian (Upper Cretaceous) of Hornby Island, British Columbia, Canada. 669–689.
12. Souza, R.R., Abreu, V.H.R. and Novais, J.S. Melissopalynology in Brazil: a map of pollen types and published productions between 2005 and 2017. 690–700.
13. Dodsworth, P. and Eldrett, J.S. A dinoflagellate cyst zonation of the Cenomanian and Turonian (Upper Cretaceous) in the Western Interior, United States. 701–723.
14. Barreto, C.F., Freitas, A.S., Abuchacra, R.C., Fonseca, E.M., Melo, G.V. and Neto, J.A.B. Fluvial pollen deposition in a mangrove ecosystem in south-eastern Brazil. 724–734.

# Candidates to the Board of Directors 2020

Introducing the 2020 candidates for the board of directors in the following positions: President-elect, Secretary, Managing Editor, Treasurer, Director-at-Large, and Student Director-at-Large.



## **Niall Paterson**

President-elect

Niall W. Paterson is employed as a Research Geologist at CASP, Cambridge, UK, and has been an active member of

AASP–The Palynological Society since 2006. Niall is well-acquainted with service to the society, having previously occupied a variety of roles including Director-at-Large (2016–2018), Ballot Committee member (2016–2018), and as an Assistant Editor for *Palynology* (2016–2019). Since 2018, he has served as Chair of the society's Awards Committee.

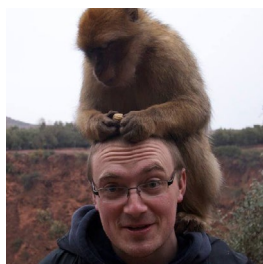
Niall received a BSc. (Hons) from the University of Glasgow, UK, in 2005, and a PhD from Trinity College Dublin, Ireland, in 2009. His doctoral research served as his introduction to the discipline and focused on the palynostratigraphy of Upper Devonian and Mississippian strata in the Appalachian Basin, eastern USA. Following his graduate studies, Niall gained expertise as an industry-based biostratigrapher with ExxonMobil in Houston (2009–2012), where he worked on a range of projects spanning the Ordovician to Oligocene. Niall returned to academia in 2013 and held two consecutive postdoctoral positions at the University of Bergen (UiB), Norway, where his research focused on Triassic palynostratigraphy of Svalbard and the Greater Barents Sea Basin. This work culminated in

the establishment of a refined palynozonation for the Middle–Upper Triassic in the region. His role at UiB also included the training and project supervision of several palynology MSc. students over a six year period.

Earlier this year, Niall joined CASP, a non-profit organisation specialising in field-based research of sedimentary basins in remote regions of the world. His current research interests include the palynology of the Permian and Triassic of Eastern Greenland and the Norwegian Arctic, with emphasis on the palynostratigraphy and geochemistry of the Permian–Triassic boundary.

Through his various roles in the AASP–TPS, academia and industry, Niall has gained an appreciation of the many challenges facing the society, and more broadly our discipline, as we adapt to a changing research landscape in the 21st century. As president-elect, Niall will work with the Board to continue modernising the society as we keep pace with these developments. If elected, Niall will seek to further promote the society in Central and South America, Africa and Asia, to recruit new members from these areas and establish closer ties to regional palynological societies. He also recognises the key role played by the society's Awards Committee in assisting the early career development of our student members. He hopes to increase funding allocated to support student travel to the society's annual meetings, and wishes to establish a new society award recognising palynologists who have made an outstanding contribution to the discipline during their early to mid-career.





## Stephen Stukins

Secretary

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

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

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

I currently teach Applied Biostratigraphy on the Petroleum Geoscience MSc courses at Royal Holloway University and Imperial College London.

In the last few years I have also supervised several students from the University of

Birmingham and Imperial College London who have used the former British Petroleum Collection or the John Williams Index of Palaeopalynology as sources of research material.



## Vladimir Torres

Treasurer

Vladimir Torres is a geologist with a deep interest in micropaleontology, paleoecology,

biostratigraphy, sequence stratigraphy, seismic stratigraphy, and source rock prediction. Vladimir studied geology at the Universidad Nacional de Colombia in Bogotá, where he began his training in palynology and graduated in 1996. He worked as a field geologist between 1996 and 2000, and followed his Ph.D. in The Netherlands (University of Amsterdam) between 2001 and 2006.

In 2005 he joined the biostratigraphy team of the Colombian National Oil Company, Ecopetrol, where he worked in collaboration with the Smithsonian Tropical Research Institute to develop the Cenozoic palynostratigraphy of the Llanos Basin in eastern Colombia. In addition, he collaborated with the Universidad de Salamanca, to create the first integrated biostratigraphy project to understand the marine sequences of the Colombian Caribbean. In 2009, Vladimir joined in the Biostratigraphy Team of ExxonMobil as a specialist, where he has broadened his palynology skills.

During the first 6 years of his career at ExxonMobil, he has conducted palynological analysis and integrated biostratigraphic data from different sedimentary basins around the World.

Currently, he is working as an interpreter and stratigrapher in the Americas New Opportunities Team. Other interests and passions are music, bicycle riding, hiking, gardening, and botany.



## **James Riding**

Managing Editor

James B. Riding is a palynologist with the British Geological Survey (BGS), based in Nottingham, UK, and specializing on the Mesozoic and Cenozoic. After studying geology at the University of Leicester, Jim pursued an interest in palynology which developed as an undergraduate. This started with the famous MSc course in palynology at the University of Sheffield directed by Roger Neves and the late Charles Downie. He left Sheffield for BGS, which was then known as the Institute of Geological Sciences, joining the Palaeontological Department run by the legendary Carboniferous palaeontologist and geologist W.H.C. (Bill) Ramsbottom in the Northern England office, based in Leeds, West Yorkshire. Here, he worked closely with Ron Woollam on the Mesozoic palynology of onshore and offshore UK; much of the work in those days was on the North Sea. The Leeds office was closed, and Jim and colleagues relocated to the BGS headquarters at Keyworth, immediately south of Nottingham. He was awarded a PhD by the University of Sheffield for a thesis on the Jurassic dinoflagellate cyst floras of northern and eastern England. His current palynological interests are wide-ranging and include the Mesozoic-Cenozoic palynology of the world (especially Europe, Australasia, Antarctica, west Africa, the Americas, Russia and the Middle East), paleoenvironmental palynology, palynomorph floral provinces, forensic palynology, preparation techniques, the history of

palynology and the morphology, systematics and taxonomy of dinoflagellate cysts. The British Antarctic Survey, a sister organisation to BGS, have used Jim as a consultant palynologist for many years, and he visited the Antarctic Peninsula for fieldwork during the Austral Summers of 1989 and 2006.

The most recent field season was spent on Seymour Island. The European Union has recently funded two collaborative projects involving Jim on research into the Jurassic palynology of Russia and southern Europe. Jim undertook a one-year secondment in 1999-2000 to the Australian Geological Survey Organisation (now Geoscience Australia), Canberra, Australia where he worked on the taxonomy of Australian Jurassic dinoflagellate cysts with Robin Helby and Clinton Foster. The work emanating from this was published in 2001 as Memoir 24 of the Association of Australasian Palaeontologists. Jim was awarded a DSc by the University of Leicester in 2003. He served as a Director-at-Large of AASP between 1999 and 2001, was President in 2003, and became Managing Editor in 2004. He has previously served as Secretary and Treasurer of The Micropalaeontological Society (TMS). Jim is currently the Secretary-Treasurer of the International Federation of Palynological Societies (IFPS).



## **Vera Korasidis**

Director-at-Large

I was introduced to palynology in 2012 as a second year (geology major) undergraduate student at the University of Melbourne. I was so impressed that I commenced a 12-week research project, on pollen produced by the oldest (i.e., Early Cretaceous) flowering plants in Australia, under the supervision of palynologist Dr

Barbara Wagstaff during the last semester of my Bachelor of Science. Encouraged and excited by the results I was generating I continued pursuing the project as an Honors Degree. In 2015 I commenced my PhD at the University of Melbourne, under the advisement of sedimentologist A/Prof Malcolm Wallace and palynologist Dr Barbara Wagstaff, on the Cenozoic floral and climate record from brown coals of southeastern Australia. After graduating in April 2019, I commenced a Postdoctoral Fellowship in the Department of Paleobiology at the Smithsonian Institution with Dr Scott Wing and am currently working on the terrestrial pollen carbon isotope record and ecology across the Paleocene-Eocene Thermal Maximum.

I attended three AASP meetings throughout the tenure of my PhD, thanks to the generosity of the society and their student awards, benefiting greatly from the interactions I had with world's leading palynologists. As a student from Australia it was invaluable to have one week a year dedicated to interacting with numerous palynologists, from the earliest to latest stages of their careers, to discuss my research and career-related opportunities. I am extremely appreciative of the support of the AASP and would be honoured to serve a society that has been so incredibly supportive of me.



### **Damián Cardenas**

Student Director-at-Large

I am currently a PhD candidate at Missouri University of Science and Technology (Missouri S&T), USA. I earned

my bachelor degree in geology from the Universidad Nacional de Colombia in 2012. During my senior year as an undergraduate student, I was introduced to paleopalynology

during an intensive one-week workshop about the applications of palynology in both academia and the oil industry, which stimulated me to study palynology further. My first steps into this field were under the guidance of Felipe de la Parra, who supervised my undergraduate research and thesis on the application of quantitative morphologic analyses of closely related pollen morphospecies to improve the taxonomic resolution of biostratigraphic data. On completion of my bachelors, I joined Felipe's biostratigraphy team at the Colombian Petroleum Institute and worked for two and a half years as a junior paleopalynologist analyzing Cretaceous pollen, spores and dinocysts from several sedimentary basins in northwestern South America. Afterward, I headed to the Smithsonian Tropical Research Institute in Panama to intern at Carlos Jaramillo's lab for two years, where I primarily analyzed Late Cretaceous dinocyst assemblages from Colombia. Now at Missouri S&T, under the supervision of Francisca Oboh-Ikuenobe and Carlos Jaramillo, I am investigating the Neogene marine palynological record in the tropical Americas to improve the paleoenvironmental and biostratigraphical knowledge of the region and reduce the current latitudinal bias in Neogene marine palynology.

I am honored to be nominated as Student Director-at-Large for AASP – The Palynological Society and look forward to contributing to the success of our society by serving the future leaders in palynology. I hope to meet you at Baton Rouge, Manizales or any of the several annual meetings to come!



### **Scott Cocker**

Student Director-at-Large

In 2018, I received my BSc (Hons) in Geology and Physical Geography from the

University of Edinburgh, Scotland, from where I hail. It was here that I was first introduced to Quaternary research by palaeoecologist and archaeoentomologist Dr Eva Panagiotakopulu. I subsequently completed an undergraduate thesis under her supervision focusing on the subdiscipline of Quaternary entomology with an emphasis on the British lateglacial. However, understanding terrestrial proxies quickly led my interests towards the palynological research of my MSc thesis that I am currently pursuing at Brock University, Canada, under the close supervision of Drs. Michael Pisaric and Francine McCarthy. My research concerns the end Pleistocene extirpation of megaherbivores from the central Yukon with a focus on the application of coprophilous fungal spores as a proxy for megaherbivores presence/absence. It quickly became evident that NPP research would remain a substantial component of my thesis research, and with a considerable introduction from Dr. Francine McCarthy, I'm certainly in good hands. My research interests have leaned towards understanding the floral response associated with the loss of megaherbivore populations at the Pleistocene-Holocene transition in NW Canada and testing the palaeoecological reliability of coprophilous fungal spores.

After moving to Canada, Drs. Pisaric and McCarthy quickly introduced me to the Quaternary community here at Brock University and with student held conferences such as PALS occurring annually (Paleolimnological Symposium), good connections to fellow research groups around Ontario and Québec have also been made. However, there is a distinctive lack of 'palynological comradery'. As the Student Director-at-Large, it would be of the utmost importance to simply connect students, both online and in person. Academia, as I have gathered, solely thrives on these connections and being a facilitator of such would be an exceptionally poignant duty for this role. A large portion of this require further encouragement of attendance to annual conferences such

as the upcoming AASP-TPS Annual Meeting in Baton Rouge. Therefore, it would be of the utmost pleasure to serve on the AASP-TPS board as the Student Director-at-Large in hope to promote my passion for palynological studies and to help secure the continued success of the society as a whole.



## **Aaron Quigley**

Student Director-at-Large

I am currently undertaking an MRes (Science) course at the University of Portsmouth, England.

This is my fourth year at the institution, following on from graduating in July 2019 with a BSc (Hons) in Palaeontology. It was in my third-year project that my admiration for palynology really took hold and made me realise, that all the body fossils in the world couldn't begin to tell the story of our planet like a small palynological sample could.

Throughout my time at university I have always been fascinated with palynology, my most recent assignment involved locating the Anisian – Ladinian boundary and generating a corresponding report, based on a series of palynological samples and stratigraphically important taxa, for which I received the AASP Undergraduate Student Award in 2019. This would in turn, become a foreshadowing to my final year dissertation.

I studied the Triassic – Jurassic Extinction Event and the corresponding palaeobiodiversity and palaeoenvironmental changes at Larne in Northern Ireland, coming to my own conclusions as to what occurred in the marine realm at this time. The resulting palynological study led to a complete palaeoenvironmental reconstruction of the area extending through the boundary, as well as documenting 'fern



spikes', marine transgressions, regressions and the presence of a possible extinction horizon in the Rhaetian which agrees with the disappearance of a series of marine animal taxa comparable across England.

As a Student Director-at-Large I would not hesitate to seize this opportunity and strive head on to tackle the needs of the society and the potential student base alike. I have already gathered several new ideas that I would like to put forward in order to establish a firm connection with students, the society and beyond. Made possible with my position as a volunteer STEM Ambassador, I not only can influence

upcoming undergraduates but also students of all ages in schools around the South of England. My connections similarly extend to my resident country of Northern Ireland, where I maintain a very strong connection with the Ulster Museum. I believe it will be my undeniable love for the field of palynology, coupled with my invaluable determination to succeed that will be my greatest asset to the role, should the AASP – The Palynological Society choose to bestow me with such an honourable position of responsibility.

Many thanks again for your consideration.



## AASP – The Palynological Society Awards

### Niall W. Paterson

Awards Committee Chairman

AASP–The Palynological Society has several awards that recognize outstanding service to the Society or to the discipline of palynology.

The basic nomination procedure is similar for most awards (main letter of nomination accompanied by letters of support, which include documentation of the accomplishment).

Details of the procedures for each award can be found at <https://palynology.org/award-procedures/>. The deadline for submission of society awards nominations is **March 1** of each year.

A complete list of previous winners 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 20 recipients of this award, most recently Martin B. Farley in 2019.

### Honorary Life Membership

This is the oldest AASP–TPS award, with the first awards dating to 1975. This award is either bestowed upon individuals who have made a fundamental contribution to the discipline of palynology, or to people who have given devoted service to the AASP–TPS (or both). Honorary Life Membership has been awarded to sixteen individuals, most recently to Norm Norton in 2016.

## Medal for Excellence in Education

This medal recognizes leaders in palynological education. Nominees are expected to have considerable experience and accomplishment in aspects of academic education involving palynology. The medal has been awarded five 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 thirteen times in the history of the Society, most recently to David Batten in 2018.

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## 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 Undergraduate Student Award. Each award consists of one year's free membership to the Society, which includes 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.

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 have approved courses from which undergraduate students

may be selected: University of Southampton, Louisiana State University, University of Tennessee-Knoxville, University of Portsmouth and Morehead State University.

Additionally, course instructors who are members in good standing of AASP–TPS, and who teach an appropriate course, may nominate their 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: [aaspawards@gmail.com](mailto:aaspawards@gmail.com)

Upon course approval, instructors may nominate a student to receive the award (at any time of the year) by sending the name, institutional address, and email address of the recipient to the Awards Committee Chair and Society 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 ([aaspnews@gmail.com](mailto:aaspnews@gmail.com)) for inclusion in the March (awards between July and December) or June newsletter (awards between January and June) each year.

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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:

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## Student Travel Award - Baton Rouge, Louisiana, 2020

AASP–The Palynological Society is pleased to announce its Student Travel Awards program for 2020. These awards are designed to support travel for student members who intend to present a talk or poster at the annual meeting in Baton Rouge, Louisiana, USA, 27–29 May 2020. <https://palynology.org/aasp-annual-meeting-2020/>

### Application procedure:

Please download the application form: <https://palynology.org/student-travel-awards/>

**Part A** of this form is to be completed by the student, and **Part B** by the student's faculty supervisor. Applications must be accompanied by a photograph of the student (.jpeg format) for publication in the society's newsletter.

**The applicant's supervisor must submit both parts A and B** of the form to the Awards Committee Chair, either as Word document or as a PDF:

Dr. Niall W. Paterson  
AASP–TPS Awards Committee Chair  
aaspawards@gmail.com

Please ensure that you have completed both parts A and B of the application form.

The deadline for applications is **February 15th, 2020**. Late or incomplete applications will not be considered. As per society awards policy, only students who are registered AASP–TPS members are eligible to apply (<https://palynology.org/join/#join>). **Applications from non-members will not be accepted.**

## AASP–TPS Student Research Awards, 2020

AASP–The Palynological Society is pleased to announce its program of Student Research Awards. For 2020, there will be two awards of \$3000 (US) each, to support research in any area of palynology. Student Research Awards are to be used for costs directly connected to carrying out research, such as fieldwork and laboratory expenses, but not for travel expenses to attend a meeting. Typically, these awards are provided to students in the preliminary stages of their doctoral research, but MSc. and advanced undergraduate students may also apply.

Basis of awards: The qualification of the student, the novelty and imagination of the proposed project, and the likelihood of significant contribution to the science of palynology are factors that will be weighed in the selection process.

### Application procedure:

Please download the application form: <https://palynology.org/student-travel-awards/>

**Part A** of this form is to be completed by the student, and **Part B** by the student's faculty supervisor. Applications must be accompanied by a photograph of the student (.jpeg format) for publication in the society's newsletter.

**The applicant's supervisor must submit both parts A and B** of the form to the Awards Committee Chair, either as Word document or as a PDF:

Dr. Niall W. Paterson  
AASP–TPS Awards Committee Chair  
aaspawards@gmail.com

Please ensure that you have completed both parts A and B of the application form.

The deadline for applications is **March 31st, 2020**. Late or incomplete applications, as well as those that exceed the stated word limits in sections A or B will be disqualified. As per society awards policy only students who are registered AASP-TPS members are eligible to apply (<https://palynology.org/join/#join>). *Applications from non-members will not be accepted.*

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## 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. Any literature review should be at a minimum, and the problem you aim to solve through your study should be emphasized. Please remember that the Awards Committee does not know context for your project and may not even have closely expertise 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. The committee encourages projects that integrate palynology with other data; however, it should be clear what palynological work you will be performing. If there is prior palynological work, please explain how your approach is new or different.

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## News from...

### Australia

By Alex Wheeler



Photo 1. Permian-Triassic exposures at Snapper Point, New South Wales, section 1.

2019 has been an exciting year in Australia for those of us working on the Permian-Triassic Boundary. This year alone marks the publication of four papers examining the boundary at several localities in the Sydney Basin (Fielding et al., 2019; Mishra et al., 2019; Mays et al., 2019; Vajda et al., 2020). Palynology has always played a crucial role in the study of stratigraphic boundaries and extinction events in Australia, and now proves its utility as a part of multi-proxy datasets both for biostratigraphy and palaeoenvironmental reconstruction. We are now able to examine the unstable post-extinction environment and subsequent floral recovery at a high resolution in the high latitude basins of Gondwana. The best boundary exposures form as cliffs and platforms along the coastline of New South Wales and make for exciting and scenic fieldwork. Those of us working in the Bowen and Galilee basins of Queensland can't offer views quite as good but we hope to have more



interesting data to show next year at the 2020 Bowen Basin Symposium.



Photo 2. Permian-Triassic exposures at Snapper Point, New South Wales, section 2.

## Asia: New AASP – TPS Newsletter Correspondent

It is my pleasure to introduce you the new Asia AASP–TPS Newsletter Correspondent, Tuba Aydin Ozbek, who is taking her PhD at Middle East Technical University/ Ankara-Turkey.



Tuba Aydin Ozbek, new AASP–TPS Asia Correspondent

My name is Tuba. I'm a senior biostratigrapher/palynologist at Turkish Petroleum Corporation, Research and Development Center. My master's thesis focused on K-Pg boundary dinoflagellate cysts biostratigraphy. My PhD thesis focuses on Devonian-Mississippian palynostratigraphy in Central and Eastern Taurides.

## Meetings Reports

### 2019 GSA Annual Meeting

22-25 September, 2019

By Francisca Oboh-Ikuenobe, GSA Liaison

The 2019 annual Geological Society of America (GSA) meeting in Phoenix, Arizona has come and gone! The meeting organizers officially welcomed delegates the evening of Saturday, 21 September during a well-attended ice breaker at the Phoenix Convention Center.

The technical program started the next day with hundreds of technical sections, symposia, lunch time public lectures, and posters. There were a handful of palynology talks during the conference, including an AAPG Distinguished Lecturer keynote presentation by Sophie Warny, Director of CENEX at Louisiana State University.

Representatives of GSA Associated Societies met for more than 3 hours on Monday morning.

Thank you to the following volunteers who helped out at the AASP Booth - Manuel Bringué, Erdoo Mongol, Pete McLaughlin, Martin Farley, Sophie Warny, and Heda Agic. A few photos from Phoenix are attached.

Hope to see a couple of AASP-TPS members in Montréal, Quebec, Canada 25-28 October, 2020 for next year's annual meeting.



Photo 1. Native American dancers at the ice-breaker.

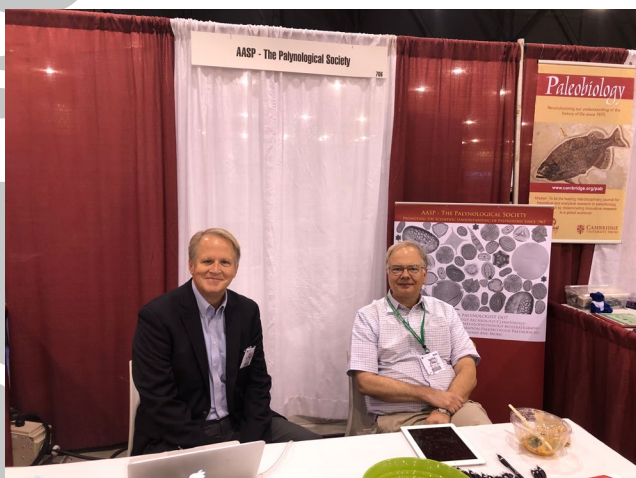


Photo 2. Peter McLaughlin and Martin Farley at the AASP-TPS Booth.



Photo 3. Francisca Oboh-Ikuenobe and Sophie Warny Bart at the AASP-TPS Booth.



Photo 4. Manuel Bringué presenting on dinoflagellate cysts.

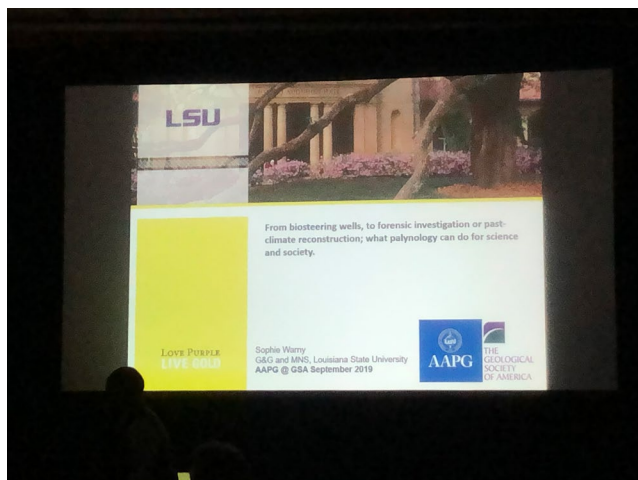


Photo 5. Sophie Warny' opening slide.

# Call to Serve Newsletter open positions

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
- UNITED KINGDOM CORRESPONDENT



The AASP - The Palynological Society Newsletter is a publication with an ISSN number (ISSN 0732-6041), which **helps your CV!**

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

Gilda Lopes  
Newsletter Editor



# Consider Helping our Mission

## AASP FOUNDATION CENTURY CLUB



### What?

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

### Why?

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

### How?

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

### Join!

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

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

## 2018 AASP Foundation Century Club Contribution Form

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

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

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

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



# Upcoming AASP – TPS Meetings



May 26-30, 2020

## **53rd Annual Meeting of the AASP - The Palynological Society**

Baton Rouge, Louisiana, USA

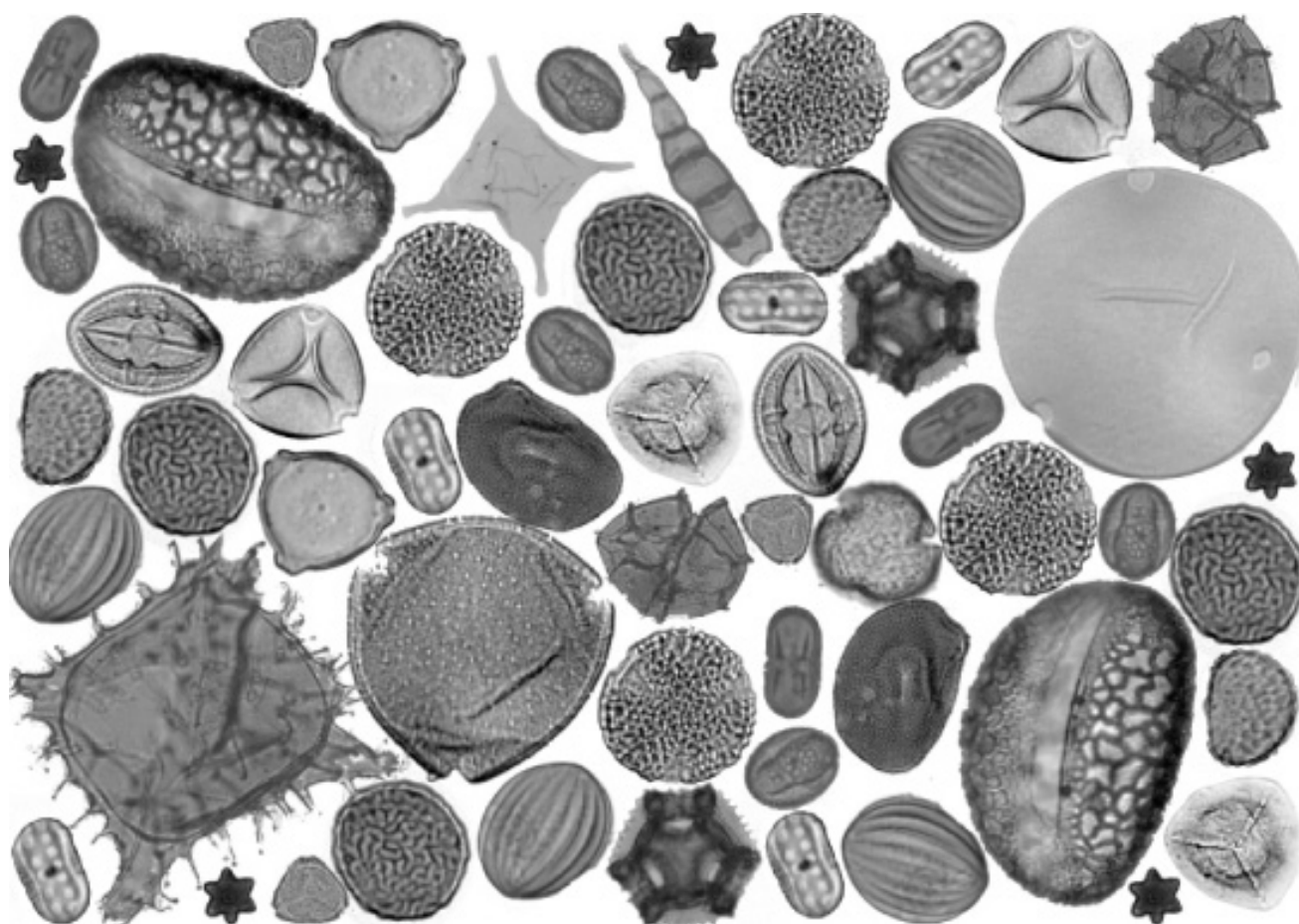
Organizer: Sophie Warny, Kam-Biu Liu & Sibel Bargu

2021

## **54th Annual Meeting of the AASP - The Palynological Society**

Manizales, Colombia

Organizers: Ingrid Romero, Angelo Plata & Andres Pardo





## 53<sup>rd</sup> AASP – TPS ANNUAL MEETING at LSU, Baton Rouge, Louisiana (May 26-30 2020)



# LSU

**Louisiana State University**

The 53<sup>rd</sup> annual meeting of the AASP – The Palynological Society will be held on the beautiful campus of Louisiana State University, in Baton Rouge, Louisiana between Tuesday, May 26<sup>th</sup> and Saturday, May 30<sup>th</sup> 2019.

Note that this is unusually early for our society's annual meeting, but this is a necessary decision to avoid holding the meeting during hurricane season.

The meeting will be convened by Sophie Warny from CENEX (LSU Department of Geology and Geophysics) along with Kam-Biu Liu and Sibel Bargu Ates from the LSU College of the Coast & Environment.

We are looking forward to welcoming you to our beautiful campus and the unique ecosystems of the great state of Louisiana.





## **The tentative agenda for the meeting is as follows:**

Tuesday, May 26 2020

**Pre-conference field trip** to Mississippi delta and marshes thanks to a partnership with LUMCON, in Cocodrie, Louisiana (see picture above). We reserved the 58 feet R/V Acadiana and will take participants to Terrebonne Bay.

### **Ice breaker**

Wednesday, May 27 2020

### **Technical meeting**

**Tour of CENEX facilities** and LSU MNS collections

Thursday, May 28 2020

### **Technical meeting**

### **Conference dinner at Nottoway Plantation.**

The dinner will include a 5-course menu designed to share Louisiana's unique cuisine with our international guests.

Friday, May 29 2020

### **Technical meeting**

Saturday, May 30 2020

**Post-conference field trip** to Louisiana swamps and visit of the Tabasco plantation, located on a salt dome.



Nottoway Plantation is a magnificent 1850's sugarcane estate, and is the home of the South's largest existing antebellum mansion, now stunningly restored to its original architectural design.

Nottoway's Mansion Restaurant offers classic Louisiana cuisine, Creole-inspired, with outstanding service and stunning views of century-old oak trees.

### **The 3-day sessions will include various palynological topics such as:**

- a) Paleo-climate and paleo-environmental reconstruction.
- b) Phytoplankton as indicator of water quality from past to present (HABs, etc.).
- c) Holocene coastal palynology and paleotempestology
- d) A Paleozoic Palynology session in memory of Gordon Wood, with a focus on Permian to honor Dr. George Hart, LSU Alumni Professor and one of the founding fathers of AASP.
- e) The importance of palynology for biostratigraphy and biosteering.
- f) Forensic palynology and melissopalynology.

### **Airports:**

Our campus is located in Baton Rouge, Louisiana. The most convenient airport (located about 15 to 20 minutes from campus by car) is the Baton Rouge airport.

The New Orleans airport often has lower fare flights, but this airport is located about 1.5 hours from our campus, and public transportation is not adequate at the moment. Renting a car would be necessary to travel to Baton Rouge.

### **Hotels:**

We will not be signing a contract with a specific hotel as there are many lodging opportunities on and around campus. We highly recommend the LSU campus hotel: The Lod Cook (see image below).

It has free on campus parking, a gym, swimming pool, complementary breakfast and wifi, and it is about a 20-minute walk to the auditorium where the conference will take place. The hotel is also on the free LSU bus route (we will need to confirm whether or not the bus operates in May).

**Space is limited at that hotel, so we encourage you to book immediately.**

<http://www.thecookhotel.com/>







### **Details on post-conference fieldtrip:**

The post-conference field trip will take the participants about two hours west of our campus, towards Lafayette, Louisiana.

We will first visit the world famous Tabasco plantation and factory on Avery Island. This will include a visit of their garden with a botanist. He will share with us the many Louisiana native species. The Tabasco plantation is located on a salt dome amongst the marshes

- thus the site name of Avery "island". Salt is actively being mined at that location.

We will then have lunch at the Tabasco restaurant, well known for its cajun meals.

We will finish the day by immersing guests into Louisiana's beautiful, vast, and mysterious Atchafalaya swamp where guests will view alligators, diverse populations of birds, and navigate in the middle of Louisiana's swamp cypress.



### **MARK YOUR AGENDA!**

**The 53<sup>rd</sup> AASP CONFERENCE WILL BE HELD MAY 26-30, 2020  
ON THE BEAUTIFUL LSU CAMPUS, IN BATON ROUGE, LOUISIANA**

The campus is located about one hour west of New Orleans.

The conference will be hosted by  
the Center for Excellence in Palynology (CENEX) and  
the Center for Energy and Environment at Louisiana State University

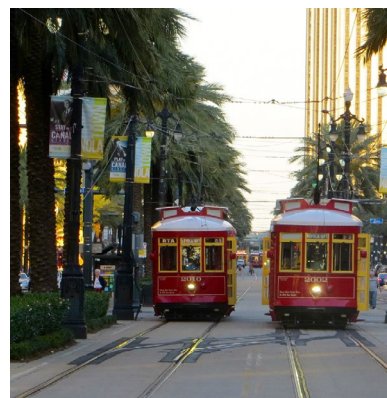
If you have any questions, contact:

Sophie Warny at [swarny@lsu.edu](mailto:swarny@lsu.edu)  
Sibel Bargu Ates at [sbargu@lsu.edu](mailto:sbargu@lsu.edu)  
Kam-Biu Liu at [kliu1@lsu.edu](mailto:kliu1@lsu.edu)



# **LSU**

**Louisiana State University**





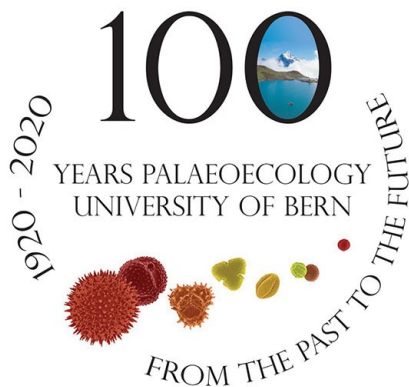
Other Meetings and  
Workshops of Interest

Oeschger Centre for Climate Change Research (OCCR)

Centenary Palaeoecology Symposium

**From the past to the future:  
100 years of Palaeoecology in Bern**

**8 – 9 June 2020, University of Bern, Switzerland  
10 June 2020 optional post-conference excursions**





Walter Rytz's habilitation thesis in 1911 on the "Floristic History of the Bernese hills between the Alps and the Jura mountains" studied the postglacial relationship between climate and vegetation changes. When Walter Rytz became professor in 1920, palaeoecology was introduced at University of Bern. In 2020 the palaeoecology section at University of Bern wants to celebrate this centenary with a two-day international symposium.

The symposium will take place at University of Bern, Switzerland, between June 8th and 9th 2020 and will be followed on June 10th by a choice of optional one-day excursions to the Swiss Plateau and the Alps.

## Scope

The symposium aims at providing an overview on the state-of-the-art in palaeoecology, with an outlook on the direction the field may take in the coming years. Renowned speakers will present their research (see [program](#)). Their sessions are grouped by topics relevant for palaeoecology. Moreover, two poster sessions will give participants the opportunity to present their own research.

In its [sessions](#) the symposium will focus on the following topics:

### 1. Session: Scales & Proxies

Key words: Spatial and temporal scales, indicators, multi-proxy, environmental archives, disturbance and biotic response



Records of past environmental changes have been assembled from a variety of different palaeoenvironmental proxies from different archives worldwide. They all show that climate and vegetation on Earth have changed continuously on decadal and longer time-scales, resulting in today's landscapes. In this session the role of major ecological stressors such as climate, disturbances, or human impact are discussed with regard to vegetation and ecosystem changes.



## 2. Session: Quantification, Modelling and Theory of Palaeoecology

Keywords: data-model comparison, numerical techniques, dynamic vegetation models, resilience, hypothesis testing, big data

During the past century palaeoecology has moved from a rather descriptive science to a discipline focusing on testing fundamental ecological hypotheses and quantifying changes over time. Considering different spatio-temporal scales of environmental change is essential to understand the underlying mechanisms of such changes and to gain process-based assessments of past, present, and future ecosystem dynamics.



In this session the theoretical framework behind palaeoecological studies is outlined and examples in which palaeoecology has been combined with numerical models to address current ecological questions are presented.

## 3. Session: Palaeoecology's Human and Societal Dimension

Keywords: environmental archaeology, human impact, farming, pollution, anthropogenic indicators

Palaeoecology has long been devoted to ascertain the relationships between human societies and their environment, addressing a broad array of questions such as the time-transgressive nature of Neolithic farming and its regional impact as well as more recent impacts like acidification and pollution of freshwater ecosystems.



In this session developments in the study of the interactions between humans and the environment

alongside the future developments in the field will be discussed.

#### **4. Session: Implications of Palaeoecology for Biodiversity and Conservation**

Keywords: biodiversity, nature conservation



Palaeoecology can provide vital information about biodiversity and biosphere variability that may help overcoming static concepts and unsustainable conservation goals under global change conditions. Despite this high potential of palaeoecology, finding a common language and reciprocal understanding with neo-ecology and conservation biology is often a challenge. In this session examples and ways that may permit transferring palaeoecological insights and knowledge to improve biodiversity and conservation strategies in a rapidly changing world will be discussed.

#### **Registration and Abstract Submission**

The registration fee of CHF 300 for Regular Participants or CHF 200 for MSc and PhD students includes the conference registration, coffee breaks, lunches (8-9 June 2020) and the conference reception (Monday 8 June 2020, see [program](#)).

Only posters (portrait not landscape; maximum size: A0) that refer to one of the symposium's topics will be accepted.

Due to space limitations we have to limit the number of participants to 180 and the number of posters to 150.

The [post-conference excursions](#) on Wednesday 10 June 2020 are optional.

PhD and MSc students will need to show proof of their status at the registration desk at the beginning of

the conference.

## **Deadlines**

Deadline for poster abstract submission: 15 January 2020

Notification for acceptance of posters: 1 February 2020

Opening of registration (payment): 7 February 2020

Deadline for registration: 1 May 2020

# 12th International Conference on Modern and Fossil Dinoflagellates



## GENERAL INFORMATION

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### DATES

13TH - 17TH JULY  
2020

### VENUE

AUDITORIO ALFREDO KRAUS

# PRESENTATION

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The Canarian observatory of HABs (OCH) organise the 12th edition of the International Conference on Modern and Fossil Dinoflagellates (DINO12), that will be held from 13th to 17th July 2020 at the Alfredo Kraus Auditory, placed at Las Canteras beach of Las Palmas de Gran Canaria, Spain. **The International Conference on Modern and Fossil Dinoflagellates (DINO)** has been held on a continuous basis at different places of the world since 1978.

On this edition, DINO12 will be framed within the common topic of Global warming, but preserving the essence of the meeting, in which the dinoflagellates and their cysts are the major protagonists. As it is usual, the conference will gather biologist working with modern dinoflagellates and geologists working with fossil dinoflagellates.

## IMPORTANT DATES

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April 1st



May 1st



Due to proximity to peak season in the Canaries, we strongly recommend you to buy your flight tickets before May 1st

Abstract Submission  
Deadline.  
Early Bird Finishes

Abstracts  
Confirmation

# CONFERENCE TOPICS

---

- ✓ Climate Change    ✓ Toxic dinoflagellates and biotoxins
- ✓ Mesozoic and Cenozoic dinocyst stratigraphies    ✓ Dinocyst systematics
- ✓ Biodiversity and systematics    ✓ Evolution    ✓ Ecology
- ✓ Palaeoecology and palaeoceanography    ✓ Phanerozoic and deep time scales
- ✓ Life cycles and nutritional strategies    ✓ Stratigraphy    ✓ Taxonomy

# INVITED WORKSHOPS

---

As in previous editions, the organization will provide the means for meetings and workshops to be held during the celebration of DINO12. Participants or groups interested in holding their meetings during the DINO12 celebration should fill out and submit the form found in the following [link](#)

# PARTICIPANTS

---

Professionals working on the field of Modern and Fossil Dinoflagellates. Field scientist.  
Public and Private Organizations. Students.  
Environmentalists. Aquaculture professionals.....



Observatorio Canario de algas nocivas

## PROMOTER

---

Canarian observatory of HABs (OCH)

FCPT-ULPGC

Muelle de Taliarte, s/n

35214 Gran Canaria, Spain

Email: [esoler@fpct.ulpgc.es](mailto:esoler@fpct.ulpgc.es)



# CBEP2020

Climatic  
and  
Biotic Events  
of the Paleogene  
  
Bremen, Germany  
  
Aug 31 – Sept 3, 2020  
  
First Circular

## Contact

CBEP 2020  
Bremen, Germany

[www.marum.de/CBEP2020](http://www.marum.de/CBEP2020)

CBEP2020

MARUM  
University of Bremen  
Leobener Strasse 8  
Bremen  
Germany

[cbep2020@uni-bremen.de](mailto:cbep2020@uni-bremen.de)





## Place and date

The International Conference „Climatic and Biotic Events of the Paleogene (CBEP) 2020” will be held in Bremen, Germany, on the University Campus from Monday, August 31, to Thursday, September 3, 2020.

Optional field trips on Sept 4-5, 2020.

## Registration and accommodation

Details will be given in the Second Circular.

## Important dates

**January 2020** Publication of Second Circular

**1 May 2020** Deadline for abstract submission

**1 March to 1 May 2020** Early bird registration  
**before 1 August 2020** Online registration



## From land to sea

We welcome you cordially to Bremen, a charming modern city with a touch of hanseatic flair located at the banks of the Weser river, close to the North Sea coast.

The Paleogene Period was a time of extremes and transitions, characterized by climatic conditions largely unfamiliar to us today but saw the rise of essentially modern continental configurations, biotic communities, and biogeochemical regimes.

CBEP2020 will provide a multidisciplinary stage with a focus on the exciting themes and topics (see "Scientific themes"). We expect exciting scientific contributions, hot discussions, and new ideas.

The IODP Bremen Core Repository (BCR) at MARUM – Center for Marine Environmental Sciences of the University of Bremen holds sediment cores from over 89 expeditions. Explore beyond the Paleogene at CBEP2020!

We welcome you to participate and are looking forward meeting in in Bremen in late August/early September 2020!



## Local organizing committee

Ulla Röhl, University of Bremen  
Thomas Westerhold, University of Bremen  
Heiko Pälike, University of Bremen

## Conference program

The conference will comprise scientific sessions, poster sessions (incl. poster presenters Lightning talks), and field trips.

If you are interested in receiving the Second Circular, please send an e-mail to [cbep2020@uni-bremen.de](mailto:cbep2020@uni-bremen.de).

## Scientific themes

- Habitable Planet: Learning from Past Environments
- Climate, Paleoecology and Paleodiversity
- Biogeochemical Cycles
- Tectonics, Surface Environments and Hydrological Processes
- New developments, applications and results of Paleoproxies

## Field trips 1-2 days field trips

## Hosts

The conference is hosted by:  
MARUM – Center for Marine Environmental Sciences, University of Bremen

## Scientific organizing committee

Claudia Agnini, University of Padova  
Laia Alegret, University of Zaragoza  
Steve Bohaty, University of Southampton  
Bernard Boudreau, Dalhousie University  
Gabe Bowen, University of Utah  
Will Clyde, University of New Hampshire  
Edoardo Dallanave, University of Bremen  
Rob DeConto, UMass Amhurst  
Jerry Dickens, Rice University  
Oliver Friedrich, University of Heidelberg  
David Greenwood, Brandon University  
Matthew Huber, Purdue University  
Celli Hull, Yale University  
Sandra Kirtland Turner, Univ of California, Riverside  
Carrie Lear, Cardiff University  
Pete Lippert, University of Utah  
Kate Littler, University of Exeter  
Heiko Pälike, University of Bremen  
Jörg Pross, University of Heidelberg  
Ulla Röhl, University of Bremen  
Appy Sluijs, University of Utrecht  
Ellen Thomas, Wesleyan University/Yale University  
Thomas Westerhold, University of Bremen  
Scott Wing, Smithsonian Institution  
Jim Zachos, University of California, Santa Cruz

2020	Sunday Aug 30	Monday August 31	Tuesday Sept 1	Wednesday Sept 2	Thursday Sept 3	Friday Sept 4	Saturday Sept 5
Morning		Opening Oral sessions	Oral session Oral session	Oral session Oral session	Oral session Oral session	Field trips	Field trips
Afternoon		Posters Oral session	Posters Oral session	BCR* visit Informal Meetings	Oral session Posters, Wrap-up	Field trips	Field trips
Evening	Icebreaker		Conference Dinner				

\*IODP Bremen Core Repository (BCR)



Since 2009, the world community of palynologists and palaeobotanists has met every four years to discuss the latest research, and to exchange experiences. The 15<sup>th</sup> International Palynological Congress (IPC-XV 2020) and the 11<sup>th</sup> International Organisation of Palaeobotany Conference (IOPC-XI 2020) are coming soon. This joint congress will be held in Prague, from the 12<sup>th</sup> to the 19<sup>th</sup> of September 2020, hosted by Czech palynologists and palaeobotanists. In 1820, a binomial nomenclature for fossil plants was used for the first time by the “Father of Palaeobotany” Caspar Maria Sternberg, when publishing *Flora der Vorwelt*. We are delighted to dedicate this meeting in honour of 200 years of Palaeobotany.

It will be an excellent opportunity for the Czech Republic (a country rich in plant fossil finds, palynological sites, and palynological and palaeobotanical history) to host the leading experts in various disciplines, and to promote scientific innovations. Joint symposia are planned to foster interaction and integration between palynologists and palaeobotanists, as well as plenary sessions of general interest. The meeting is promoted by the collective efforts of the International Federation of Palynological Societies (IFPS) and the International Organisation of Palaeobotany (IOP).

Please complete the pre-registration form on our website:

<http://prague2020.cz/registration.php>



### Location

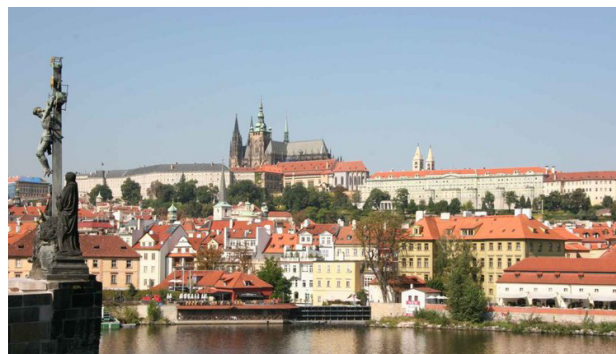
**Prague** is the largest city and the capital of the Czech Republic. Situated in the **heart of Europe**, it is one of the continent's most beautiful cities, and the primary Czech economic and cultural centre. It is famous for its historical monuments and sights, and has UNESCO World Heritage status. The Charles Bridge (Karlův most) across the Vltava River probably represents the city's most famous landmark. The winding course of the Vltava, with its succession of bridges and changing vistas, contrasts with the ever-present backdrop of the great castle of Hradčany (Prague Castle), which dominates the left-bank region of the city. Prague is famous for its cultural life. Wolfgang Amadeus Mozart lived here, and his Prague Symphony and Don Giovanni were first performed in Prague. In addition, the lyrical music of the great Czech composers Bedřich Smetana, Antonín Dvořák, and Leoš Janáček is commemorated each year in a music festival.

### Venue

The congress will be held in the **Clarion Congress Hotel Prague**, Freyova 33, Prague 9 (<https://www.clarioncongresshotelp Prague.com/en/>). This is an international four-star hotel and a state-of-the-art conference center, providing high-quality services. The hotel is 30 minutes by car from the International Václav Havel Airport and 10 minutes by metro from the historic city centre of Prague. The conference centre is directly on the metro B line, station “Vysočanská”.

### Facilities

The hotel offers accommodation in 559 rooms. All rooms and public areas are fully air-conditioned. Catering is provided in 3 hotel restaurants, which can seat 900 people. Conference facilities are divided into 23 halls and meeting rooms, comfortably seating up to 2500 participants. The facilities are equipped with state-of-the-art audio-visual technology.



### Call for Symposia

It is our pleasure to invite proposals for symposia for IPC XV/ IOPC XI 2020, the joint meeting of the 15<sup>th</sup> International Palynological Congress and 11<sup>th</sup> International Organization of Palaeobotany Conference, to be held September 12<sup>th</sup>–19<sup>th</sup> 2020, at the Clarion Conference Hotel, Prague, Czech Republic

The deadline for proposals is August 31<sup>st</sup>, 2019. Proposed symposia could cover various disciplines such as palynology, palaeobotany, palaeoecology, palaeoclimatology, biostratigraphy, plant taxonomy, plant morphology, cell biology, aerobiology, allergology, melissopalynology and forensic palynology. We also welcome proposals involving cutting-edge techniques.

To organize a symposium, please prepare a “**pre-proposal**” that briefly describes the symposium in English. This pre-proposal should include the following:

1. a descriptive title;
2. one or two paragraphs explaining the purpose of the symposium;
3. a list of any possible speakers, their institutions or affiliations, and preliminary presentation titles.

Please use the attached file to submit the pre-proposal. We will accept only one symposium proposal from each individual. The length of symposium talks is 15 minutes, plus 5 minutes for discussion. Organisers of symposia may propose one invited speaker with a 25-minute long talk, plus 5 minutes for discussion. Please send the pre-proposal to the program committee ([ipciopc2020@seznam.cz](mailto:ipciopc2020@seznam.cz)) and use the subject heading: IPC/IOPC 2020 Symposium proposal.

The program committee will review all proposals, and may make suggestions in view of the organization of the whole conference. For example, the committee may request merging of proposed symposia with similar topics. We also welcome workshop proposals.

More information about the IPC/IOPC 2020 is available at:

<http://prague2020.cz/introduction.php>

### Scientific programme

This will cover all aspects of palaeo- and actuopalynology and palaeobotany including:

*Taphonomy*  
*Airborne pollen*  
*Methods in palynology and palaeobotany*  
*Pollen/Spore morphology*  
*Pollination ecology*  
*Forensic palynology*  
*Melissopalynology*  
*Quaternary palynology and palaeobotany*  
*Cenozoic palynology and palaeobotany*  
*Mesozoic palynology and palaeobotany*  
*Palaeozoic palynology and palaeobotany*  
*Proterozoic Palynology*

XV International Palynological Congress  
 XI International Organization of Palaeobotany Conference

200 Years of Palaeobotany

12<sup>th</sup>–19<sup>th</sup> September, 2020, Prague, Czech Republic

<http://www.prague2020.cz/>

### Transport access

Transfers from the International Airport are available via the hotel's limousine service, by public transport as well as Airport Transport services. A station for the Metro B line is adjacent to the hotel. Trams and buses run outside, and a train terminal is three minutes walk away.

### Practical hints

#### Climate

September usually brings pleasant early autumnal weather with colder mornings and hot afternoons. Temperatures of around 15-18 °C can be expected.

#### Transportation

Arriving by plane - Václav Havel Airport is served by many international airlines. It is located 15 km from the city center and 18 km from the conference venue. Taxi from the airport to the venue is at present about



€35. A shuttle bus service operates as well. City bus No. 119 will take you from the airport to the Veleslavín metro terminal from where you can go by metro line A to Můstek, switch to line B and go to station Vysočanská.

#### Arriving by rail or car

Prague is easily reached by rail or car. If you arrive by train, you will find metro stations (line C) at the Central Railway Station and at the Holešovice Railway Station. From either you can go to Florenc station and switch to line B to go to Vysočanská station.

### City transportation

City Transportation Prague has a comprehensive network consisting of three metro lines, and trams and buses. Single tickets or travel passes can be purchased at most newspaper stands or from the coin machines at metro stations.

#### Car rental

Most of the major car rental companies (e.g. Avis, Sixt) have offices in Prague. Detailed information is available from the Symposium secretariat. We recommend making reservations in advance.

#### Parking

Clarion Congress Hotel has its own parking. Ask the guard at the entrance for the parking costs and the hotel parking area.

#### Currency

Official currency is the Czech Crown (Kč). The present exchange rate is 26 CZK for 1 Euro. Major credit cards are accepted in most shops, restaurants and hotels. You can buy Czech Crowns at banks and other authorized money exchange offices. ATMs accept most bank and credit cards. Travellers' cheques are only accepted by leading banks.

#### Visa Policy

Participants from most European countries and the USA can enter the Czech Republic without a visa. Other participants are advised to check requirements at their closest Czech Republic embassy or consulate, and make their own arrangements. Detail information can be found on [https://www.mzv.cz/jnp/en/information\\_for\\_alien/general\\_visa\\_information/index.html](https://www.mzv.cz/jnp/en/information_for_alien/general_visa_information/index.html). An official letter of invitation will be sent on request. Such a letter will not grant any financial support.

#### Insurance

The Organizing Committee does not accept any liability for personal injuries or loss or damage of property belonging to participants or accompanying persons. Kindly check your personal and travel insurance before you travel.

#### Electricity

Electricity supply is 220 V, 50 Hz.

### Tips for Prague visitors

**Honest Guide:** [https://www.youtube.com/playlist?list=PLM9\\_KZNJw8qEZd4MxOXfSvKszTJKLI\\_J2](https://www.youtube.com/playlist?list=PLM9_KZNJw8qEZd4MxOXfSvKszTJKLI_J2)

<https://www.youtube.com/channel/UCt7oj318jVQi7vRbc1bNjJA>

	10 <sup>th</sup> –12 <sup>th</sup>			13 <sup>rd</sup>	14 <sup>th</sup>	15 <sup>th</sup>	16 <sup>th</sup>	17 <sup>th</sup>	18 <sup>th</sup>	19 <sup>th</sup> –20 <sup>th</sup>
8:30–10:30	Pre-Conference Field-Trip <i>(field trip will start in Dresden or Chemnitz)</i>			Oral Presentation	Oral Presentation	Mid-Conference Field-trips	Oral Presentation	Oral Presentation	Oral Presentation	Post-Conference Field-trips
10:30–11:00				Coffee break	Coffee break		Coffee break	Coffee break	Coffee break	
11:00–13:00	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	Oral Presentation	Oral Presentation		Oral Presentation	Oral Presentation	Oral Presentation	
13:00–14:30			Registration 11:00-18:00	Lunch	Lunch		Lunch	Lunch	Lunch	
14:30–16:30				Oral Presentation	Oral Presentation		Oral Presentation	Oral Presentation	Workshops	
16:30–17:00				Coffee break	Coffee break		Coffee break	Coffee break	Coffee break	
17:00–19:00				Ice breaker party from 18:00	Oral and poster Presentation		Oral and poster Presentation	Oral and poster Presentation	Oral and poster Presentation	
20:00–24:00					Gala “Sternberg’s” Dinner (optional)					



We look forward to receiving your submissions.

Best wishes

Organizing committee

IPC XV / IOPC XI 2020

12<sup>th</sup>-19<sup>th</sup> September 2020, Prague, Czech Republic





#### Pre-Conference Field Trip, 3 days:

##### Permian of Chemnitz

The field trip will present classical outcrops, ongoing excavations and leading exhibitions, which show fossil assemblages found in Permian terrestrial strata of SE Germany. Anatomically preserved plants, animals and their taphonomic pathways will be presented and discussed as modern methods of „fossil hunting“ and collecting. [R. Rössler]

#### Mid-Conference Field Trips, 1 day:

##### Lower Palaeozoic of the Barrandian area

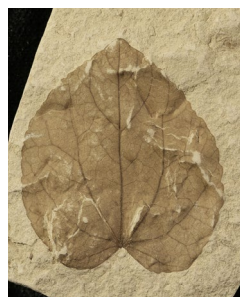
Field-trip to the Cambrian to Devonian sediments south west of Prague will give an opportunity to visit both new and classic outcrops, including the first internationally recognized GSSP of the Silurian-Devonian boundary. At all sites collection of fossils and sampling for microfossils will be possible. [O. Fatka, L. Vodička]

##### Late Cretaceous of the Bohemian Cretaceous Basin

A field trip to three localities: Horoušany, Vyšehořovice, Pecínov of the Czech fresh water Cenomanian will provide an overview of palaeobotany and sedimentology of the Bohemian Massif in mid-Cretaceous. At all outcrops, collecting of fossils and sampling for microfossils will be possible. [J. Kvaček]



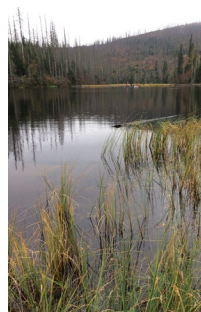
##### Paleogene and Neogene of North Bohemia



Eocene to Pliocene sediments are preserved in depressions and grabens along Krušné hory Mts. Besides freshwater coal-bearing deposits, products of volcanic activity occur in Western and Northern Bohemia, forming the eastern branch of the European Cenozoic Volcanic Alkaline Province. North Bohemian Most Basin will be visited with particular interest in loc. Roudníky (Eocene-Oligocene transition) and loc. Bílina (lower Miocene). [J. Sakala, V. Teodoridis]

##### Postglacial of Šumava National Park

This excursion will cover late Quaternary vegetation changes with focus on long-term dynamics of natural mountain spruce forests and their disturbances. We will visit investigated lakes of glacial origin and peat bogs, where results from sedimentary archives will be presented. [P. Kuneš]



#### First Circular / Fieldtrips

##### Modern pollen deposition in relation to Holocene vegetation changes in the Krkonoše Mts.

This excursion will visit our highest mountain range in NE Bohemia. In this iconic landscape, covered in its highest part by azonal tundra accompanied by many peatbogs, a long-term pollen monitoring project has been under way since 1997. We will concentrate on pollen monitoring results in relation to Holocene development of mountain tundra and mountain forest. [H. Svitavská-Svobodová]

##### Late Pleistocene and the Holocene of Bohemian Paradise

Barely hour and a half away from Prague, “rocky cities” built of Cretaceous sandstones offer an opportunity to enjoy picturesque, rarely seen landscapes and to visit some classical, as well as freshly investigated Late Pleistocene and Holocene sites. Emphasis will be given on stratified archaeological sites under rock shelters and adjacent wetlands which together provided a wealth of environmental proxies. [P. Pokorný]



#### Post-Conference Field Trips, 2 days:

##### Permian of Bohemia

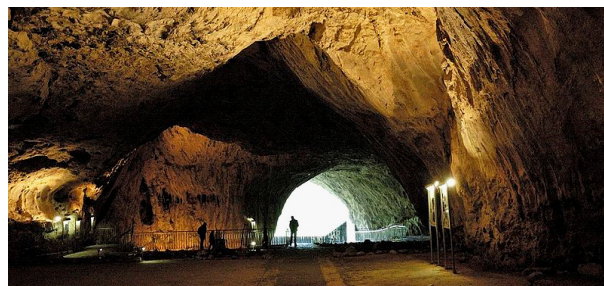
The Bohemian Paradise is situated about 100 km North-East from Prague. The Klenotnice Muzeum in Nová Paka with rich Permian fossil wood collection will be visited. A tour to the nearby Gothic „Pecka“ Castle is planned. „Pecka“ means stone (both geode and part of fruit). Fossil wood is visible in the castle courtyard. Actually, „Pecka“ Castle was built on rocks containing petrified wood in the 12<sup>th</sup> century.



Two localities with plant fossils of the Permian Rudník Horizons will be visited during the field trip, and there will be also a possibility to find some fragments of silicified woods in fields. [Z. Šimůnek, V. Mencl]

##### Miocene in the Carpathian Foredeep and Quarternary of Moravian Karst

The area of South Moravia known not only for Czech vineyards and wine cellars (Mikulov), but also for Miocene deposits of Carpathian Foredeep, several prehistorical localities (Pavlovské vrchy Hills, Pasohlávky settlement, Čejč Lake) and Moravian Karst with 15 palynologically evaluated caves (Kůlna Cave etc.) [N. Doláková, E. Břízová, M. Kováčová]



#### FIELD TRIPS

<http://www.prague2020.cz/fieldtrips.php>



# XVIII SIMPOSIO ARGENTINO DE PALEOBOTÁNICA Y PALINOLOGÍA-SAPP 2021

*" Los enfoques ecológicos y paleoecológicos, a diferentes escalas espaciales y temporales, desde la paleobotánica y la palinología"*



Tenemos el agrado de invitar a la comunidad científica a participar del XVIII Simposio Argentino de Paleobotánica y Palinología (SAPP 2021), a realizarse por primera vez en la ciudad de San Salvador de Jujuy, provincia de Jujuy, entre el 30 de agosto y el 2 de setiembre de 2021. En esta oportunidad entre los ejes temáticos de la reunión se enmarcan los enfoques ecológicos y paleoecológicos, a diferentes escalas espaciales y temporales, desde la paleobotánica y la palinología, perspectiva que ha tomado relevancia en diversos trabajos de investigación, como pudo observarse en recientes eventos científicos. Se espera también contar con aportes y nuevas ideas que apunten a incorporar diversas disciplinas básicas y aplicadas.

#### **Antecedentes:**

Este prestigioso evento científico nuclea a los especialistas más reconocidos tanto a nivel local como mundial, co-organizado con la Asociación Latinoamericana de Paleobotánica y Palinología (ALPP). Cuenta con el aval de la Universidad Nacional de Jujuy (Resol. R. N° 1356/18), de la Facultad de Ciencias Agrarias de la misma universidad (Resol. CAFCA N°428/2018), del Instituto de Ecorregiones Andinas INEOA del CONICET y del Gobierno de la Provincia de Jujuy, a través de la Secretaría de Ciencia y Tecnología del Ministerio de Educación (declaración de Interés Provincial. Expediente N° 1081 144/18)

Esta edición contará con conferencias plenarias del ámbito nacional e internacional, sesiones generales y temáticas, como también talleres y cursos. Tiene como objetivos fortalecer los vínculos entre investigadores, motivar las vocaciones científicas en nuestros jóvenes becarios y estudiantes y las proyecciones nacionales e internacionales de nuestras investigaciones.

Además es importante destacar que la realización de esta reunión en el marco de una Universidad Nacional posibilita la participación de los estudiantes de carreras afines a las disciplinas que se desarrollan en el Simposio.

#### **Sede del evento**

La provincia de Jujuy se encuentra en el extremo noroeste de la Argentina, cuenta con una alta diversidad biológica y de climas, consecuencia de la variación altitudinal, lo que se refleja en una amplia gama de ecosistemas, desde los 300 msnm, en la ecorregión del Chaco, hasta más de 4.000 msnm en la Puna y Altos Andes.

La sede del evento es la Universidad Nacional de Jujuy ([www.unju.edu.ar](http://www.unju.edu.ar)) en la ciudad de San Salvador de Jujuy y, que se encuentra a pocos kilómetros de lugares emblemáticos de la provincia, como la Quebrada de Humahuaca hoy patrimonio Mundial de la Humanidad en la categoría de paisaje cultural de la UNESCO (<https://whc.unesco.org/es/list/1116>); la Puna con majestuosos salares, volcanes, humedales (Laguna de Pozuelos: <https://rsis Ramsar.org/es/ris/555?language=es>; Laguna de Vilama: <https://rsis Ramsar.org/es/ris/1040?language=es>) y las Yungas con sus exuberantes bosques subtropicales. Jujuy también se caracteriza por la cultura local, con festividades tan arraigadas en la gente como el festejo del carnaval y las ofrendas a la Pachamama. Para ampliar la información dirigirse a la Secretaría de Turismo de la Provincia de Jujuy: <http://www.turismo.jujuy.gov.ar/>

#### **Comisión Organizadora**

Para sugerencias de simposios/mesas redondas y otros asuntos de ámbito científico, o relacionados con la logística operativa, por favor contactarse por mail.

