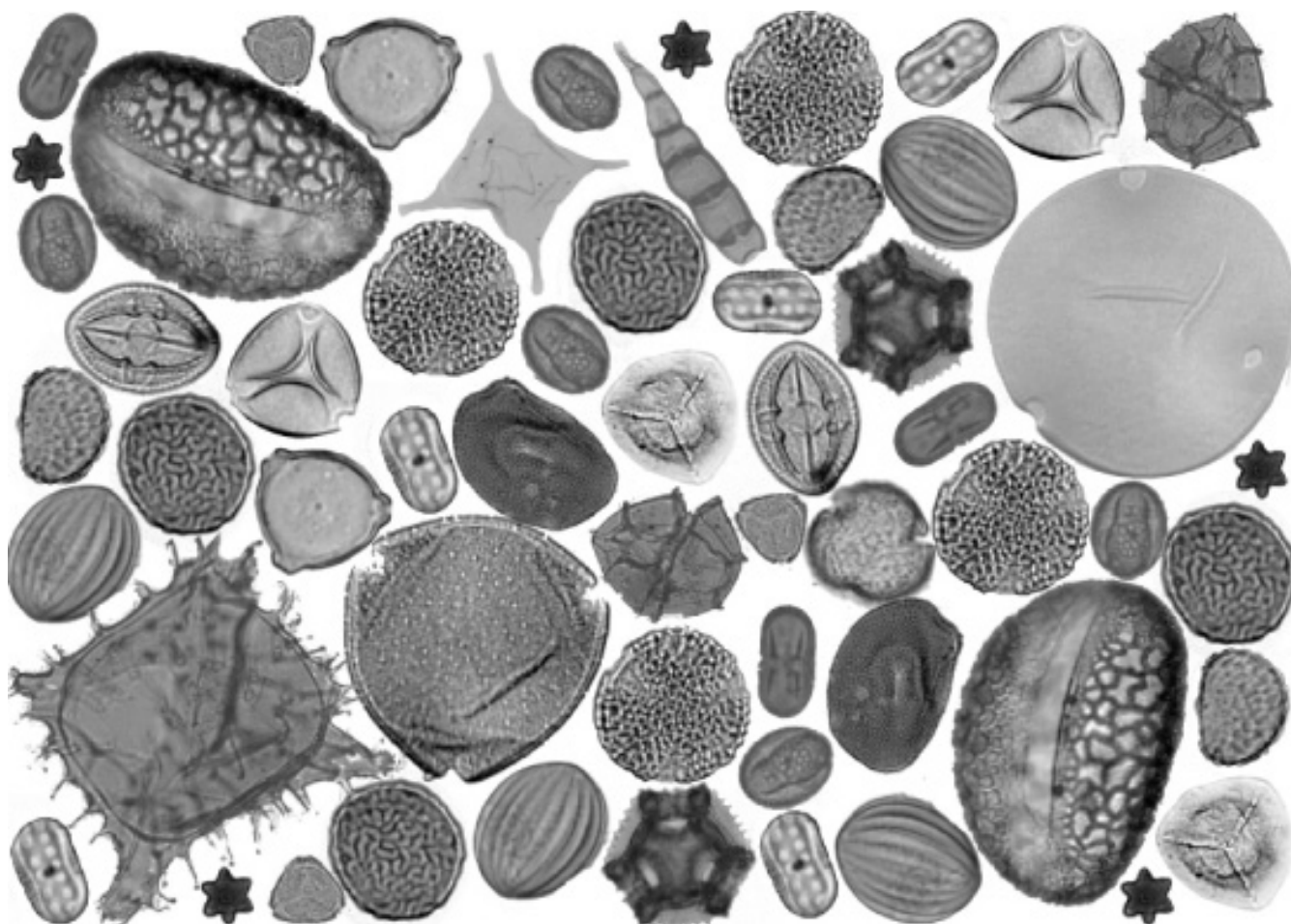




# AASP – The Palynological Society

Promoting the Scientific Understanding of Palynology since 1967



# NEWSLETTER

September 2020  
Volume 53, Number 3

Published Quarterly



# AASP – TPS NEWSLETTER

Published Quarterly by AASP – The Palynological Society

September 2020, Volume 53, Number 3

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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)  
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)  
Professor George F. Hart (awarded 2020)

## **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)  
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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)  
Professor Martin B. Farley (awarded 2019)



# AASP – TPS NEWSLETTER

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Gilda Lopes, Editor

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## BOARD OF DIRECTORS

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Managing Editor  
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To express interest in open correspondent positions, please send an email to:  
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## AASP NEWSLETTER EDITOR

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## AASP NEWSLETTER GRAPHIC DESIGN (September 2020 Issue)

Filipe Barreira, Laboratório Nacional de Energia e Geologia (LNEG), S. Mamede Infesta, Portugal

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 NOVEMBER 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 members.**



# A Message From Our President



Photo: Katrin Ruckwied, AASP-TPS President

Dear Colleagues and friends,

I hope that this letter finds all of you in good health! The board has made the difficult decision to post-pone our 2021 Meeting in Manizales/Colombia. Manizales will now host our Annual Meeting in 2022, and we will organize a virtual convention for the upcoming year. The board believes that this decision will make it easier for our members to participate, as funding for international travel is still not granted in many countries. We also feel we have a responsibility to ensure a successful convention for the organizers. Whilst we all would have loved

to have a face-to-face meeting next year, we know that it is better to be pragmatic and play it safe. I hope you understand and agree.

Many of you will have seen our anti-racism statement in the last volume of the Newsletter. This topic was always very important to the Society but recent developments across the world made it necessary to ensure that we will not accept any kind of discrimination within AASP. AASP started out as the American Association of Stratigraphic Palynologists, but we have grown to be much more. The name-change into "The Palynological Society" reflects that we are home of palynologists from all over the world that do much more than just stratigraphy. Whilst I feel we are doing fine with respect to Diversity and Inclusiveness, there is still much room for improvement. Look for instance at our journal "Palynology": You will notice that plenty of articles are dealing with Quaternary Palynology, however, we have very few Quaternary palynologists as members. Therefore, we are very excited to be part of the "Palynological Short Talk" series, where Palynologists from around the world get together virtually. We are also very happy that this format gives us the opportunity to present this year's student awards that are usually awarded during our annual meetings. Last week, students from five continents were competing for the L.R. Wilson Award, presenting on a variety of topics covering the time scale from Proterozoic to present day! It was a wonderful, interesting session with high quality contributions! This makes me excited for the future of AASP and I hope that we can grow to be even more diverse. If you have missed the Palynology Short Talks so far, make sure to join for the upcoming sessions!

Best regards and please stay healthy!

Katrin

# Managing Editor's Report

I hope all members who have opted for the print version of *Palynology* have received their paper copy of Volume 44/1&2. There was a slight delay in printing due to the pandemic, but you should have received your mailing in June of this year. Let us know if not.

Since the last Newsletter, Volume 44 Part 3 of *Palynology* has been published online. It comprises pages 391 to 562, and this issue carries 12 research articles plus a memorial for the late W.H. Eberhard Schulz. The contents are listed below. The articles are especially varied this quarter, and a highlight for me are the two papers on the Palaeocene–Eocene pollen and spores from the Chicxulub impact crater, offshore Mexico by Vann Smith of CENEX and his team of collaborators. Vann recently was awarded his PhD from LSU. Very well done Vann!

We had some very good news last month in that the Impact Factor has risen slightly from 1.253 to 1.330. This figure was arrived at by dividing citations in 2019 to items published in 2017 and 2018 (i.e. 149) by the number of citable items in 2017 and 2018 (i.e. 112). The overall trend is rising, and we are now only 0.095 from the top spot in terms of our immediate peer group of journals on palynology. I am very pleased that our trajectory in this important metric is steadily upwards. *Palynology* now ranks 137/234 in the Plant Sciences category and 35/55 in the Palaeontology category.

One of the most important benefits of being a member of AASP – The Palynological Society is that all members, except the retired members category, receive unlimited online access to the current volume and all the past issues. In our case, this is back to 1970! We therefore hope that you all have access via the website (<https://www.tandfonline.com/toc/>

[tpal20/current?nav=tocList](https://www.tandfonline.com/toc/tpal20/current?nav=tocList)). Obviously, you will need a username and a password. If any members are struggling to access *Palynology* online please contact Ellen Goodman (ellen.goodman@tandf.co.uk) with your full name and details of your problem and she will be able to assist.

Please keep up the good work submitting high quality manuscripts to the journal and stay safe!

Jim Riding

Managing Editor, AASP – The Palynological Society

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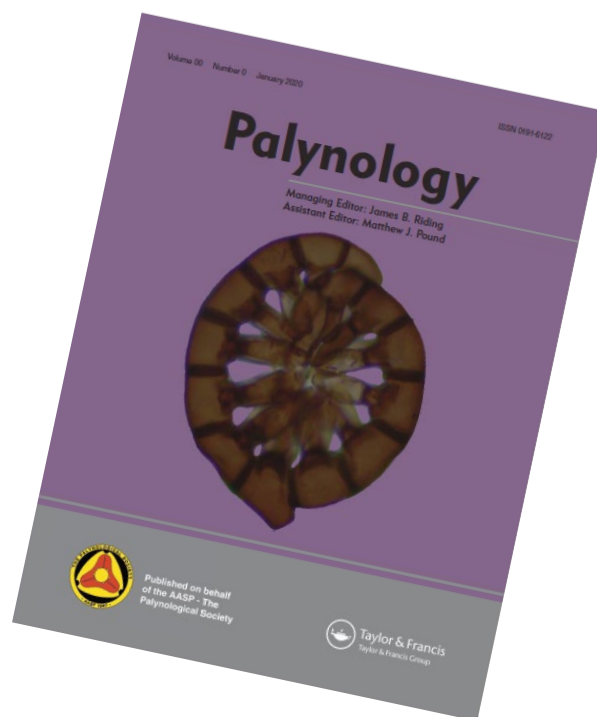
E-mail: [jbri@bgs.ac.uk](mailto:jbri@bgs.ac.uk)

10th August 2020

## The contents of *Palynology* Volume 44, Part 3

(online only) (August 2020)

1. Riding, J.B. The literature on Triassic, Jurassic and earliest Cretaceous dinoflagellate cysts: supplement five. 391–404.
2. Borges, R.L.B., Jesus, M.C., Camargo, R.C.R. and Santos, F.A.R. Pollen types in honey produced in caatinga vegetation, Brazil. 405–418.
3. Kroeck, D.M., Pardo-Trujillo, A., Torres, A.P., Romero-Baéz, M. and Servais, T. Peri-Gondwanan acritarchs from the Ordovician of the Llanos Orientales Basin, Colombia. 419–432.
4. Radaeski, J.N., Cunha, D.J. and Bauermann, S.G. Understanding ecosystem dynamics of herbaceous grasslands (Campos) and arboreal forests (Bambuseae) using Poaceae pollen grains in the Coastal Plains Holocene sediments of Southern Brazil. 433–440.
5. Peters, M., Friedmann, A., Stojakowits, P. and Metzner-Nebelsick, C. Holocene vegetation history and environmental change in the Lăpuș Mountains, north-west Romania. 441–452.
6. Gravendyck, J., Bachelier, J.B. and Heunisch, C. A biography and obituary of W.H. Eberhard Schulz (1931–2017). 453–459.
7. Strother, P.K., Taylor, W.A., van de Schootbrugge, B., Leander, B.S. and Wellman, C.H. Pellicle ultrastructure demonstrates that *Moyeria* is a fossil euglenid. 461–471
8. Smith, V., Warny, S., Jarzen, D.M., Demchuk, T., Vajda, V. and The Expedition 364 Science Party. Palaeocene–Eocene miospores from the Chicxulub impact crater, Mexico. Part 1: spores and gymnosperm pollen. 473–487.
9. Smith, V., Warny, S., Jarzen, D.M., Demchuk, T., Vajda, V. and Gulick, S.P.S. Paleocene–Eocene palynomorphs from the Chicxulub impact crater, Mexico. Part 2: angiosperm pollen. 489–519.
10. Halbwachs, H. Detecting fungal spores and other palynomorphs in amber and copal by solvent treatment. 521–528.
11. Mezzonato-Pires, A.C., de Souza Freitas Teixeira, G.H.G., Gonçalves-Esteves, V. and Mendonça, C.B.F. Pollen diversity of *Adenia*, *Crossostemma* and *Schlechterina* (Passifloraceae sensu stricto): types of apertures and implications for evolutionary studies. 529–538.
12. Bandeira, M.S.F. and Novais, J.S. Melissopalynological characterization of honeys from the Discovery Coast, Brazil. 539–550.
13. Vaez Javadi, F. Middle Jurassic palynology of the southwest Tabas Block, Central-East Iran. 551–562.





## AASP-TPS is against racism!

AASP- The Palynological Society takes great pride in being home to a diverse group of early career and professional members internationally. We therefore aim to promote and embody an inclusive and equitable culture that is free from discrimination.





# Update on the AASP Foundation

By Thomas D. Demchuk  
Trustee and Chair

It is my pleasure to update you on some recent changes to the Board of the AASP Foundation. The AASP Foundation was officially formed in 1979 as the tax-free entity of the American Association of Stratigraphic Palynologists (AASP-TPS). As a 501-c-3 tax free organization under the laws of the United States, the Foundation is able to accept donations which can then be deducted from personal income taxes. The purpose of the Foundation is to publish AASP journals and books, and other research material for the dissemination of palynological information to scientists and the general public, and to support the science of palynology through support of research, education and outreach. This mandate has not changed over the decades, and we wish to thank all of you who have contributed to furtherance of this mission through the Foundation's Century Club.

Over the past many, many years the daily happenings of the Foundation were in the very capable hands of Robert Clarke (Treasurer), Vaughn Bryant (Secretary) and Judi Lentin (Managing Editor). In 2017, Norman Norton (Chair and Trustee, and Founding Member) stepped aside and I was asked to replace him, which I graciously accepted. The past few months have seen some additional changes:

Robert Clarke has decided to retire as Treasurer of the AASP Foundation, having been the second of the founding members on 17 May 1976. Raymond E. Malloy was the third founding member. I believe it goes without saying that Bob's service to the Foundation and AASP-TPS has been exceptional and we owe him a huge debt of gratitude. For



Photo: Thomas D. Demchuk, AASP Foundation Trustee and Chair

years Bob and his wife Carol, through their desktop publishing service, typeset our journal *Palynology* (1982-2009) as well as the Contribution Series (1982 to mid-2020). He also made sure that *Palynology* was printed and mailed out to all AASP members through 1999. We thank Bob beyond what words can express and we wish him well in his retirement. The AASP Foundation Treasurer's duties will now reside with me here in Houston. Recently, the old Foundation bank account was closed in Arlington, and funds transferred to a new bank account here in Houston.

Most recently due to his health issues, Vaughn Bryant has decided to resign as Secretary of the AASP Foundation. Since 1990, Vaughn

has been carrying out Secretary duties as well as packing up AASP publications sold via the website or mail and has been sending those out to fellow palynologists and libraries. Vaughn's service to the Foundation and AASP in general has also been beyond excellent, and we owe him a huge thank you and wish him well in his AASP retirement. Vaughn continues to teach Anthropology classes and type honey at Texas A&M University, which will keep him engaged and very busy.

Judi Lentin joined the AASP Foundation in 1999 as Managing Editor of the Contribution Series and other miscellaneous AASP publications. Judi remains in her current position. Bob Clarke and Vaughn Bryant are given the titles of Trustee Emeritus, where they will be available to lend advice and give historical perspective on Foundation matters.

David Pocknall joins the AASP Foundation as Trustee and Secretary. Many of you know David through his previous service with AASP-TPS particularly as Secretary-Treasurer (1994-1998) then as two-term President (2001-2002). As well as being Foundation Secretary, David will also have signing authority on the new Foundation bank account in Houston. One of his first acts as Secretary will be arranging the AASP publication collection, and moving that from College Station to Houston. David will now be in charge of sending out publications purchased through the website.

Jen O'Keefe also joins the AASP Foundation as Trustee and Publications Production Officer. Most of you will know Jen as AASP-TPS Director-at-Large (2010-2011), President (2015), Newsletter Editor (2015-2018), and as Co-organizer of the Annual Meeting held in Lexington, KY in 2012. Jen will be in charge of desktop publishing new Contribution Series and other AASP miscellaneous publications. Jen will also be asked to formulate our Foundation directive for future on-line publishing in light of new rules from government agencies and publicly-funded research. These rules will have

significant impact on our Foundation business model moving forward.

As you can see, the Foundation has undergone some major changes in the recent past and it sets us up well moving forward into the new age of digital publications and on-line access to palynological information. I would hope that if you have opportunity that you reach out to Bob Clarke and Vaughn Bryant and thank them for their decades of dedicated service to AASP-TPS and the Foundation. Our society moves forward, standing upon the shoulders of those who served before us and I don't think there are many other sets of shoulders more broad than those of Bob and Vaughn.

Regards,

Thomas Demchuk



# AASP – TPS 50th Anniversary Jewelry Collection

*Exclusive, Custom-made 50th Anniversary Jewelry  
Limited-Edition and availability*



Special thanks to John Firth and Ingrid Romero for palynomorph images.

**Celebrate the 50th anniversary of AASP – The Palynological Society with a beautiful, sterling silver palynomorph necklace.** The Society board worked with jeweler and designer, 'Science-inspired jewelry', to create these one-of-a-kind, unique necklaces in honor of our silver anniversary. There are a limited number available of two designs, a dinoflagellate cyst of ***Diphyes recurvatum*** and a pollen grain of ***Macrolobium multijugum***. They are sterling silver and each measure c.3/4" diameter.

Each necklace comes with a commemorative information card that includes a picture and description of the palynomorph. **The society is selling them for \$150.00 (for members) and \$170.00 (for non-members).** This is a wonderful way to support AASP and is a great conversation starter!

Payment can be made to the AASP Paypal account, [thomasdd98@yahoo.com](mailto:thomasdd98@yahoo.com). Necklaces can be mailed at your request.



# Awards Committee Chair Introduction

By Marie Thomas

Hess Corporation, Houston, Texas, U.S.A.

Awards Committee Chair

Greetings, all! I'd like to briefly introduce myself as the new Awards Committee Chair, so you can put the right face with the [aaspawards@gmail.com](mailto:aaspawards@gmail.com) e-mail address. I've taken over from Niall Paterson who has assumed his role as President-Elect, and I'm looking forward to serving the society in my new role. I wanted to provide a brief introduction so you can get to know me a bit better. I'm an exploration geologist at Hess Corporation in Houston, Texas, U.S.A. I graduated with a B.Sc. degree with Honors and a double major in biology



Photo: Marie Thomas, AASP – The Palynological Society Awards Committee Chair

and geology from Millsaps College (Jackson, MS) in 2011. After that, I completed my Ph.D. in geology at Louisiana State University (L.S.U., Baton Rouge, LA) in 2015 studying palynology of Quaternary Gulf of Papua sediments under Dr. Sophie Warny. During my Ph.D., I finished two internships at Hess and have worked there full time since graduation from L.S.U. Originally I was hired to join their research team as a biostratigrapher, but I've since assumed a more generalist role and joined the broader exploration group as a geologist. I still get to play with biostratigraphy data and even palynology sometimes, but not often enough!

I am grateful for the opportunity as Awards Committee Chair to be better connected with AASP-TPS and the broader palynology community, and I'm looking forward to getting to know you all better. I'd also like to introduce our new committee members: Dr. Annette E. Götz (Landesamt für Bergbau, Energie und Geologie, Hannover, Germany) and Dr. Jan Hennissen (British Geological Survey, Keyworth, U.K.).

## Honorary Life Membership Award for George Hart 2020 - unusual times called for an unusual presentation

By Annette E. Götz

In 2020, the Board of Directors bestowed upon George F. Hart "Honorary Life Membership". This award recognizes George's fundamental contributions to the discipline of palynology and his role as a founding member of the society.



As the annual meeting in Baton Rouge scheduled end of May had to be cancelled due to the global coronavirus (COVID-19) pandemic, the presentation at the conference didn't take place as well. And meanwhile, 3 months later, travelling became even more restricted. However, a solution was found to present the award to George: CENEX doctoral student Allison Barbato, who lives close to him in Houston, met him on August 6<sup>th</sup> in his lovely garden! Indeed a good place for palynologists to meet and definitely unusual times demand unusual presentations!

Again, congratulations George - and stay safe!



Photo: George and CENEX student Allison at George's house in Houston – the first outdoor AASP award presentation. Photo: Courtney Gallagher.

## AASP–TPS 2020 Student Research Awards Winners



**Kelsey Koerner**

PhD Student

Université du Québec à Rimouski, Rimouski, Québec,  
Canada

## Biography:

My interest in palynology started during my Bachelors of Earth Sciences degree in Geology in 2018 at University of New Brunswick. During a paleontology class, we had exposure to a variety of marine microfossils and their use in paleoenvironmental reconstructions, which piqued my curiosity. I explored this interest with my honour's project, which used dinoflagellate cysts (dinocysts) as a proxy of sea-surface reconstructions in northern Baffin Bay in relation to late-Holocene climate variability. My honours then evolved into a master's project in the same region and allowed for higher resolution dinocyst analyses. During my masters, I also had the opportunity to participate in a scientific research cruise onboard the R/V William Kennedy as a part of the Southampton Island Marine Ecosystem Project. During this oceanographic cruise, I contributed to the collection of samples that are used to study past and present oceanographic changes around Southampton Island, Nunavut. Being in the Arctic increased my curiosity and passion for paleoceanography and paleoclimatology. Through my PhD, I will continue with exploration of paleoceanography in northern Baffin Bay and answer some of the questions that arose during my masters, under the supervision of Drs. Audrey Limoges and André Rochon at Université du Québec à Rimouski.

## Research:

*Changes in freshwater inputs in northwestern Baffin Bay and impacts on primary productivity*

The Arctic is rapidly warming in a phenomenon known as Arctic amplification. This warming results in increased ice melting and freshening of the sea-surface waters which are then exported out of the Arctic. The North Water (NOW) polynya, located in northern Baffin Bay, is an area that is impacted by this export of freshwater. Polynyas are areas of open

water in a region characterized by high sea-ice concentration that sustain increased primary production and diverse food webs. Their formation relies on both physical (strong winds, ice bridges, etc.) and oceanographic factors which make them sensitive to climate changes. With increased freshwater input, the future functioning and maintenance of the NOW polynya is not fully known.

The objectives of this project are to reconstruct changes in the freshwater input and Arctic outflow to western Baffin Bay during the past two millennia and determine how these changes have impacted the biological and physical parameters of the NOW polynya. To reach these objectives, I will be conducting a high resolution (multi-decadal), long-term (ca. 2000 years), multi-proxy study on marine sediment cores collected from the central and western side of the NOW polynya. Emphasis will be put on the sea-surface conditions, using a combination of diatom and dinocyst assemblages, with additional elemental (TOC, TN, C:N) and isotopic ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ) geochemical analyses on bulk sediment. This research will provide key information about the past response of the system to environmental changes and freshwater input, which can help in projections of the future functioning of the NOW polynya.

## Chloe Walker-Trivett

PhD Student

University of Exeter (Camborne School of Mines), Penryn, UK and The British Geological Survey, Keyworth, UK

## Biography:

As a lifelong biology nerd and fossil enthusiast, I have always been fascinated by our planet and the extraordinary organisms that live on it. It was on this basis that I started a Biology degree (MBiolSci) at the University of Sheffield,

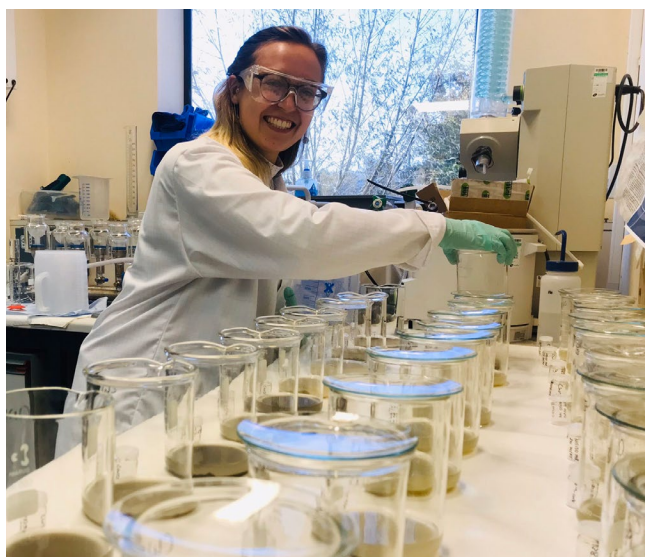


Photo: Chloe Walker-Trivett, 2020 Student Research Award Winner

UK, back in 2011. Whilst the original idea of studying animal behaviour and ecology was very appealing at first, the realities soon hit. The untimely death of several zebrafish (ruining a 6 month experiment) was the last straw. At the same time, my palaeontology modules, largely offered by Professor Charles Wellman, were proving to be far more exciting and engaging, steering me firmly away from the realm of the living. It was under the supervision of Prof. Wellman that I produced my first extended piece of writing, examining the schizochroal eyes of trilobites (weird and wonderful things). I enjoyed this enormously, and signed up to a palaeontology masters project, also with Prof. Wellman, commencing in 2014. This project saw me wading through icy rivers of Malham, North Yorkshire, scraping slime off submerged rocks in order to carry out a comparative study between freshwater algae and the rather enigmatic Devonian fossil *Pachythea*. Though I'm still not 100% sure what it is (probably something like a cyanobacterial colony), the project was great fun.

Thereafter, I'd planned on a career in academia, but didn't find a project suiting my interests for a few years. So it wasn't until September 2018 that I started a PhD in the field of palaeoclimate

reconstruction – bringing together my eclectic interests in ecology, climate change, palaeontology and geochemistry. This project came with the added bonus of a very large and skilled supervisory team - Dr. Sev Kender (primary supervisor), Dr. Kara Bogus, Dr. Kate Littler, Prof. Stephen Hesselbo, Dr. James Riding and Prof. Melanie Leng. I am very privileged to be able to work with this great team.

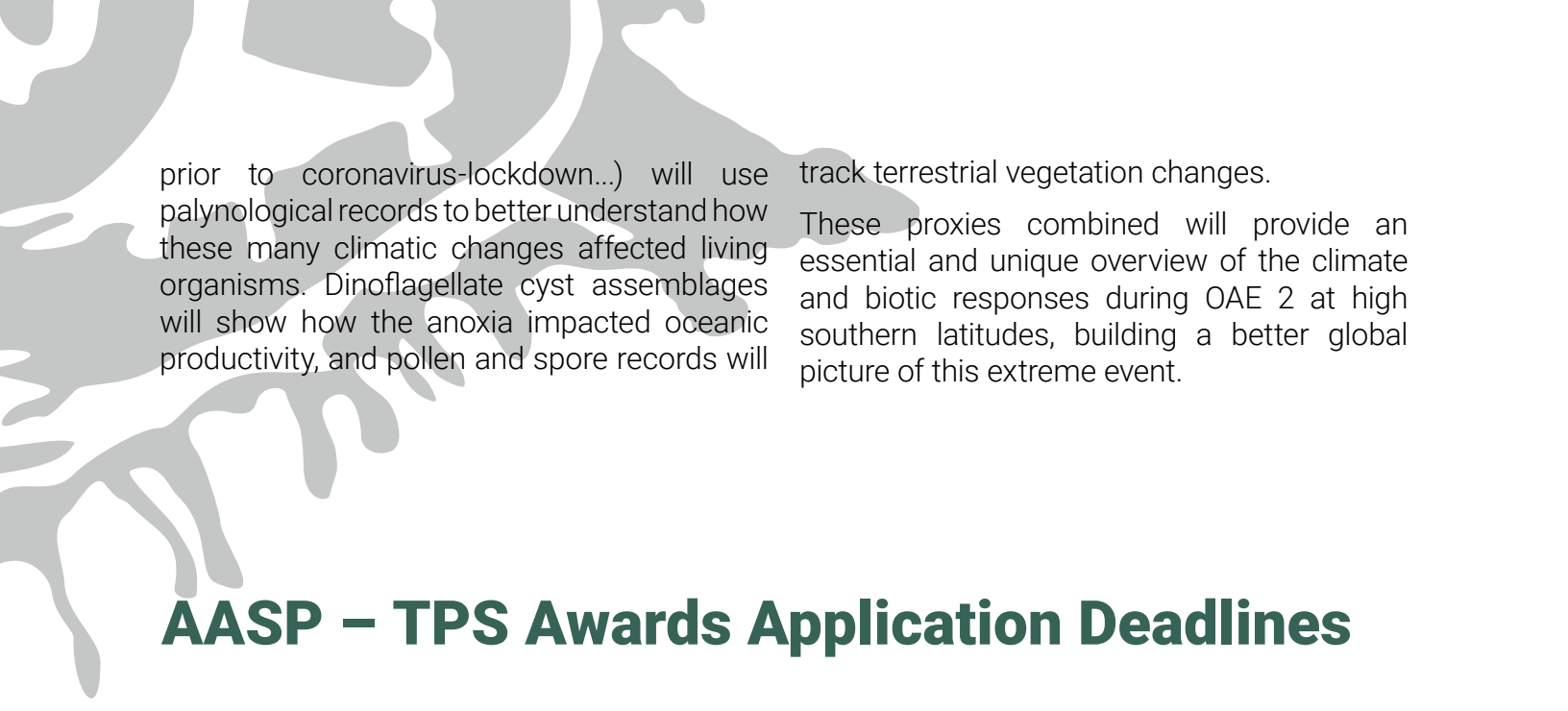
### Research:

*Oceanographic and biotic changes in southwest Australia during Oceanic Anoxic Event 2*

My research examines marine anoxia in the 'super-hot-house' Cretaceous world. A time when lush forests carpeted the poles, and the atmosphere was thick with CO<sub>2</sub> from volcanic activity and oceanic crust expansion. At peak warmth (~93 Ma), many ocean basins experienced a period of low, or even non-existent, oxygen. This short-lived (~500,000 year) event is known as Oceanic Anoxic Event 2 (OAE 2). It represents a major upheaval in the global carbon cycle, with huge changes to ocean chemistry. Despite being one of the largest events of its kind, there is very little data on OAE 2 from the southern hemisphere, making a true global understanding of the event impossible.

My PhD research will begin to fill this gap, using marine sediments from the Mentelle Basin – an IODP site with a palaeolatitude of ~62°S. I will examine the severity and duration of the event (using stable bulk C isotopes) and track sea surface temperature evolution through the mid Cretaceous (using the TEX86 palaeothermometer). Variations in volcanic activity (using Mercury:TOC readings) and changes in sediment source and/or hydrology on land (using Nd:Sr isotopes) will build a more complete environmental picture. The largest portion of my research (which I had just started





prior to coronavirus-lockdown...) will use palynological records to better understand how these many climatic changes affected living organisms. Dinoflagellate cyst assemblages will show how the anoxia impacted oceanic productivity, and pollen and spore records will

track terrestrial vegetation changes.

These proxies combined will provide an essential and unique overview of the climate and biotic responses during OAE 2 at high southern latitudes, building a better global picture of this extreme event.

## AASP – TPS Awards Application Deadlines

### Marie Thomas

Awards Committee Chair

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 and can be found at <https://palynology.org/award-procedures/>. A complete list of previous winners can be found on the third page of this newsletter.

The deadline for submission of society awards nominations is **March 1** of each year.

### Board of Directors Award

This award is given by the Board of Directors to individuals who have made extensive and long-standing contributions to AASP–TPS. It is given infrequently to AASP–TPS members for a lifetime of service to the society. The nomination of candidates and decisions are made within the board.

### Medal for Scientific Excellence

This is the society's highest award and has primarily been bestowed upon individuals who have made fundamental contributions to the development of the discipline of palynology. Recipients should have a substantial research record in the field. The medal has been awarded thirteen times in the history of the Society, most recently to David Batten in 2018.

### Medal for Scientific Merit and Outstanding Promise

This newly established award recognizes individuals in their mid-career who have made important contributions to the science of palynology, and who show the promise of continued excellence in the discipline. Typically, nominees will have no more than 15 years' experience beyond their MSc or PhD graduation (excluding time spent in industry or on leave).

### Distinguished Service Award

This award recognizes individuals who have



generously supported the AASP–TPS with their work and resources over several 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 twenty recipients of this award, most recently Martin Farley in 2019.

## 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.

## 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). These may be persons who are not members of the society. Honorary Life Membership has been awarded to seventeen individuals, most recently to George Hart in 2020.

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## AASP–TPS Student Research Awards, 2021

### CALL FOR APPLICATIONS

AASP–The Palynological Society is pleased to announce its program of Student Research Awards. For 2021, 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-research-grants/>

**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.

Additional material will not be considered.

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. Marie L. Thomas  
AASP–TPS Awards Committee Chair  
[aaspawards@gmail.com](mailto:aaspawards@gmail.com)

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

The deadline for applications is **March 31st, 2021**. 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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## 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 access to the society's journal *Palynology*, discounted registration fees at society meetings, and eligibility for society awards.

Undergraduate Student 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 form 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 ([aaspawards@gmail.com](mailto:aaspawards@gmail.com)) and to the Society Secretary ([s.stukins@nhm.ac.uk](mailto:s.stukins@nhm.ac.uk)).

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).

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## 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:



# News from...

## Asia

By Tuba Aydin Ozbek

From February 2020, a global shutdown all around the world due to an epidemic new coronavirus COVID-19 affected meetings, conferences and other gatherings. Although many countries preferred to reopen almost entirely, experts say that the second wave is here. Despite all these happen during the first half of 2020, scientists from all around the world kept publishing. This year many interesting papers were published and will be published in Asia.

## China

"Plant-insect interactions in the early Permian Wuda Tuff Flora, North China" studied by Zhuo Feng and his colleagues. As a first study of the early Permian Cathaysia Flora, they examined interactions of insects on plants in different groups of plants. Their work provided a data on the paleoecology of the subtropics of the eastern Tethys during the earliest Permian peat forming forests. The paper published in *Review of Paleobotany and Palynology Journal* in June, 2020.

## Jordan

Patrick Blomenkemper and his colleagues published a work "Contributions towards whole-plant reconstructions of *Dicroidium* plants (Umkomasiaceae) from the Permian of Jordan". They presented the oldest and northernmost presence of *Pteruchus* and *Umkosamia* in Gondwana. The paper published in *Review of Paleobotany and Palynology*

Journal in July, 2020.

## Uzbekistan

Natalya Nosova studied "Female reproductive structures of *Umaltolepis* Krassilov and associated short shoots, buds and leaves of *Pseudotorellia* Florian from the Middle Jurassic of Angren, Uzbekistan". She described two new species of *Umaltolepis* and her work presented the first record of *Umaltolepis* from Middle Jurassic of Uzbekistan. This study will be published in *Review of Paleobotany and Palynology Journal* in October, 2020.

## Azerbaijan and Iran

Amalia Spina and her colleagues published "Palynology of the Permian succession from the Ajabshir area (Azerbaijan, Central Iran): a preliminary report". They documented a glimpse of important biostratigraphic data of the Permian of this area. This work was published in *Geopersia* in February, 2020.

## Turkey

The 73th Geological Congress of Turkey was planned to be held on 5-9 October, 2020, addressing the theme "Geology and Geopolitics". The congress was already postponed two times this year due to global pandemic conditions but it is expected to be postponed again due to raising numbers of coronavirus cases.

Nurgul Karlioglu Kilic and her colleagues studied "Pollen morphology of eight endemic *Inula* L. (Asteraceae) species in Turkey". They described eight new endemic species of

Asteraceae. Their work provides an overview of the variations at species level of endemic *Inula* taxa.

## USA

By Ingrid Romero

### **Congratulations to the medal finalists Drs. Andrew Laurence and Shannon Ferguson**

This year, [Drs. Andrew Laurence and Shannon Ferguson](https://servicetoamericamedals.org/honorees/andrew-laurence-ph-d-and-shannon-ferguson-ph-d/) were finalists in the [2020 Samuel J. Heyman Service to America Medals People's Choice](https://servicetoamericamedals.org/2020-samuel-j.-heyman-service-to-america-medals-peoples-choice/), in the Emerging Leaders category. This program, also known as The Sammys, is considered the "Oscars" of government service, and its goals are to highlight excellence in the federal workforce and to inspire others to join the public service.

The palynologists Andrew and Shannon have been recognized for using pollen to provide

critical information to help law enforcement solve hundreds of drug smuggling cases and other crimes. They also can help determine where drugs have been produced and the routes taken, as well as the travel histories of crime victims.

In forensics, Andrew and Shannon have found a way to use palynology to help people and to use pollen as a tool for solving cold cases and crimes that sometimes seem impossible to solve. In a brief description of their work, they explain that "pollen could be considered as a fingerprint of a plant, and because every region has different plants, then for each region there is a different pollen finger printing".

This is an example of how critical the study of pollen is in different disciplines, such as forensics, and Andrew and Shannon are an example in our community to show the importance of palynology to the world.

Congratulations again to the excellent scientists and palynologists Andrew and Shannon!



Photo: From left to right, Drs. Andrew Laurence and Shannon Ferguson (Photo taken from <https://servicetoamericamedals.org/honorees/andrew-laurence-ph-d-and-shannon-ferguson-ph-d/>)



# Palynology Short Talks

By Jen O'Keefe

2020 has seen so much upheaval and isolation; in an amongst learning to teach online effectively or carry on research at a distance, many of us turned to social media and our networks of palynologists for support and to mourn the long list of cancelled meetings and the headaches we all faced. In May, our collective yearning led to an idea, quickly followed by a survey: our colleagues on social media agreed – we wanted a series of short talks – a way to hear what we're all working on and to share ideas – thus the "Palynology Short Talks" series was begun.

Co-hosted by Yoshi Maezumi, University of Amsterdam, Nichola Strandberg, University of Southampton, Limi Mao, Nanjing University, and Jen O'Keefe, Morehead State University, and co-sponsored by AASP-the Palynological Society and the Paleoecology Group of the British Ecological Society, the series kicked off on the third Tuesday of July with talks from three palynologists (Jing Wu, Vitor Gomes, and Shaohua Yu) centered on the theme of "Palynology and Climate." 112 colleagues from 37 countries worldwide attended this first session. We recognize that life is chaotic, so are posting the talks on YouTube following each session so that anyone who missed the series can go back and catch up. The first series can be found at: <https://youtu.be/zNNiRGSJBlo>.



After the success of the first series, we were excited to offer four talks (from Michael-Shawn Fletcher, Chris Kiahtipes, Alvaro Castilla-Beltrán, and Yoshi Maezumi) on "Human and Vegetation Interactions" during the second session in August. This session, also very well attended from colleagues around the world, is available at: <https://youtu.be/M1TTqvgFbSg>.

We outdid ourselves with September: SEVEN talks were scheduled for the Student Showcase on September 22nd! AASP-TPS is holding the L.R. Wilson Best Student Paper award competition during this session, and we're certain to hear outstanding presentations during this session! We expect stiff competition among Eva Sirantoine (University of Western

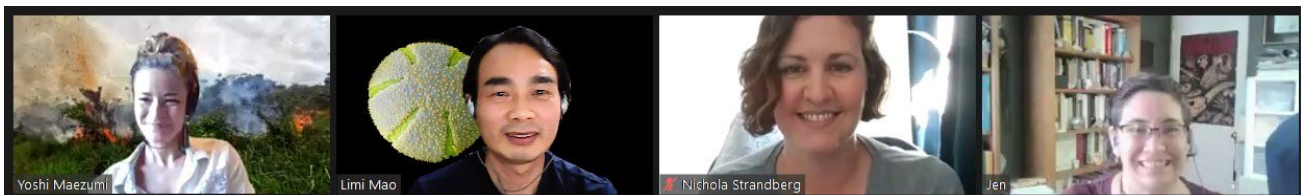


Photo: Palynology Short Talks co-hosts (from left to right): Yoshi Maezumi, Limi Mao, Nichola Strandberg, and Jen O'Keefe

Australia – “Standard palynology vs in situ study of microfossils: what is best? An answer with light and electron microscopy”), Alexander Wheeler (The University of Queensland – “Proximal-distal palaeofloral patterns in late Permian Queensland (Australia)”), Martha Gibson (University of Sheffield – “The use of spore-pollen assemblages to reconstruct vegetation changes in the Late Permian Zechstein deposits of northeast England”), Julia Gravendyck (Freie Universität Berlin – “Challenges of modern paleopalynotaxonomy: treasure hunt of a PhD”), Damián Cárdenas Loboguerrero (Missouri University of Science and Technology – “Quantitative morphological analysis of closely related taxa: a tool for improving biostratigraphic resolution”), Michael Amoo (Northumbria University – “Southern High Latitude Vegetation and Climate Change at the Eocene Oligocene Transition: New Palynological Data for ODP Site 1172, East Tasman Plateau”), and Timilehin Ayelagbe (University of Ibadan – “Palynology and Human Interaction in the Rainforest”). We'll report the winner in the December newsletter.

Please join us on **20 October 2020** for Session 4: Deep Time Palynology! Six talks are scheduled:

1. John Marshall (University of Southampton) “UV-B radiation was the Devonian-Carboniferous boundary terrestrial extinction kill mechanism”
2. Michael Stephenson (British Geological Survey) “The Permian of Israel and Jordan and the antiquity of the Dead Sea Fault.”
3. Gilda Lopes (University of Algarve) “Reconstructing the Karoo basins in Mozambique – a palaeoenvironmental approach to the late Permian”
4. Jennifer Cooling (University of Queensland) “Palynology of the Jurassic-Cretaceous transition of the Surat Basin”
5. Bandana Samant (RTM Nagpur University)

“Impact of Late Cretaceous-Early Paleocene Deccan volcanism on flora: palynological evidence from intertrappean sediments of India”

6. Vera Korasidis (Smithsonian Institution) “Evidence for abrupt palynofloral change in continental settings during the Paleocene-Eocene Thermal Maximum”

Session 5 on **17 November** will focus on “Environmental Change, Landscape Reconstructions and Ecological Management.” This session has several openings, and we invite presentations from any portion of the geologic column!

Please encourage your students to participate in Session 6 on **15 December 2020**! The Infographics and Lightning Talks Session is co-sponsored by AASP-TPS, and we're trying something new as a society. Posters are a challenge, so in honor of Vaughn Bryant's continual palynological innovation, the Vaughn Bryant Student Poster Award will be made for the best Student Infographic with a “lightning talk” overview of their work. This format is a superb preparation for the “graphical abstracts” so many journals request and an outstanding way to build science communication skills! For pointers on building an infographic, see: <https://nastrandberg.wixsite.com/palynology/post/infographic-session-update>.

In the new year, we have a further five sessions and invite you to consider presenting:

19 January 2021 – Session 7: Palynology and Climate (2/2)

16 February 2021 – Session 8: Biodiversity, Ecological Interactions, Range Shifts and Database Science

16 March 2021 – Session 9: Palynomorphs and Associated Environmental Indicators

20 April 2021 – Session 10: Vegetation Disturbances and Fire

18 May 2021 – Session 11: Pollen Production, Dispersal and Taphonomy

It has been a learning experience for all of us – hosts, presenters, and audience alike, but so far, a great way to keep in touch and fill the gaps COVID has caused in our meeting schedules.

We hope that you will continue to attend and support the Palynology Short Talks Sessions! For more information or to register, please visit: <https://nastrandberg.wixsite.com/palynology>.

## Call to Serve Newsletter open positions



Not sure that you want to run for office but want to help the society?

Current vacancies include:

- BOOK REVIEW EDITOR
- UNITED KINGDOM CORRESPONDENT

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.

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



## EMPLOYMENT OPPORTUNITY Morehead State University

### Postdoctoral Researcher (PHES)

The OPaL Lab at Morehead State University is accepting applications for a full-time three-year Postdoctoral Associate position. The anticipated start date is January 4, 2021.

Morehead State University is located in Morehead, KY, a designated Kentucky Trail Town, nestled in Daniel Boone National Forest, in close proximity to Cave Run Lake. This location provides opportunities for a wide-range of outdoor recreation activities. Additionally, Morehead State University is relatively close to a number of larger cities including Lexington, KY, Louisville, KY, and Cincinnati, OH. Morehead State University delivers a strong and affordable education for friendly, ambitious students who thrive in a student-focused learning environment defined by small class sizes and faculty committed to teaching and student success.

**RESPONSIBILITIES:** The Postdoctoral Associate will work on an NSF-funded project reconstructing global ecosystem change across the Mid-Miocene Climatic Optimum using fungal microfossils. The goal of this position is to develop expertise in fungal palynology and use of fungal association paleoecology to build a large-scale, long-term dataset to be incorporated into climate models for the Middle Miocene. This postdoc will co-lead a Morehead State-based team of undergraduate students and collaborate directly with project leadership, including Dr. Jen O'Keefe (MSU) and Dr. Matthew Pound (Northumbria University, UK), and researchers Dr. Sophie Warny (Louisiana State University) and Dr. Noelia Nuñez Otaño (CONICET, Diamante, Argentina), with opportunities for cross-training in climate and environmental modelling, outreach and engagement science, as well as instructional training. This project involves significant international and domestic fieldwork components, as well as outreach to primary- and middle-grades learners in collaboration with Northumbria University. The OPaL lab is committed to diversity and accessibility, mentoring the next generation of scientists through close mentoring, and science communication.

The successful applicant is expected to:

- Complete community analyses of fungal palynomorph assemblages present in the globally distributed study sites. Skills in palynology or mycology are strongly preferred.
- Participate in domestic and international fieldwork. Spanish language skills preferred but not required.
- Assist in database development and integration of fungal palynomorph data with existing middle Miocene climate data in support of paleoenvironmental and paleoclimatic modeling.
- Assist in the supervision and mentoring of undergraduate and Craft Academy students involved in the project.
- Communicate verbally and in writing with team scientists, collaborators, and stakeholders, including outreach efforts in classrooms and social media as well as scientific venues.
- Develop skill as a university instructor through participation in instructional delivery training activities and sole-teaching in the final year of the project.
- Participate in weekly lab meetings, project team meetings, and PHES departmental events as appropriate.
- Perform other reasonably-related duties as determined through a co-developed post-doctoral mentoring plan.

**REQUIREMENTS:** of a successful applicant include:

- Have a PhD in geology or geography (palynology, paleoecology, paleobotany, paleontology), biology (mycology, palynology, botany), or a related discipline (e.g., agriculture, anthropology, etc.).
- Experience with paleoecological and paleoclimatic proxies OR with fungal biology/ecology.
- Experience with quantitative data analysis.
- Strong written and oral communication skills are required.

**DESIRED QUALIFICATIONS:** Spanish language skills are desirable, but not required.  
Have valid US Passport.

**SPONSORSHIP:** This position is not budgeted for Visa Sponsorship.

Morehead State University is a comprehensive, regionally focused university providing high quality instruction at the undergraduate and graduate levels. The University has an enrollment of over 10,000 students. To apply, visit: <https://moreheadstate.peopleadmin.com> and complete the MSU Application for Employment along with a letter of application, Curriculum Vita, unofficial transcripts showing completion of doctoral degree or plan for completion prior to January 1, 2021 and name and contact information for two references. Review of applications will begin immediately and continue until the position is filled. For preferred consideration, apply by November 14, 2020. Contact the Office of Human Resources at (606) 783-2097 should you have questions about our online application. Please contact Dr. Jen O'Keefe, the search committee chair, at [j.okeefe@moreheadstate.edu](mailto:j.okeefe@moreheadstate.edu) for questions regarding this position. MSU is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans, and individuals with disabilities are encouraged to apply.



# 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 2020 "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, 2020**.

### 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.

## 2020 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



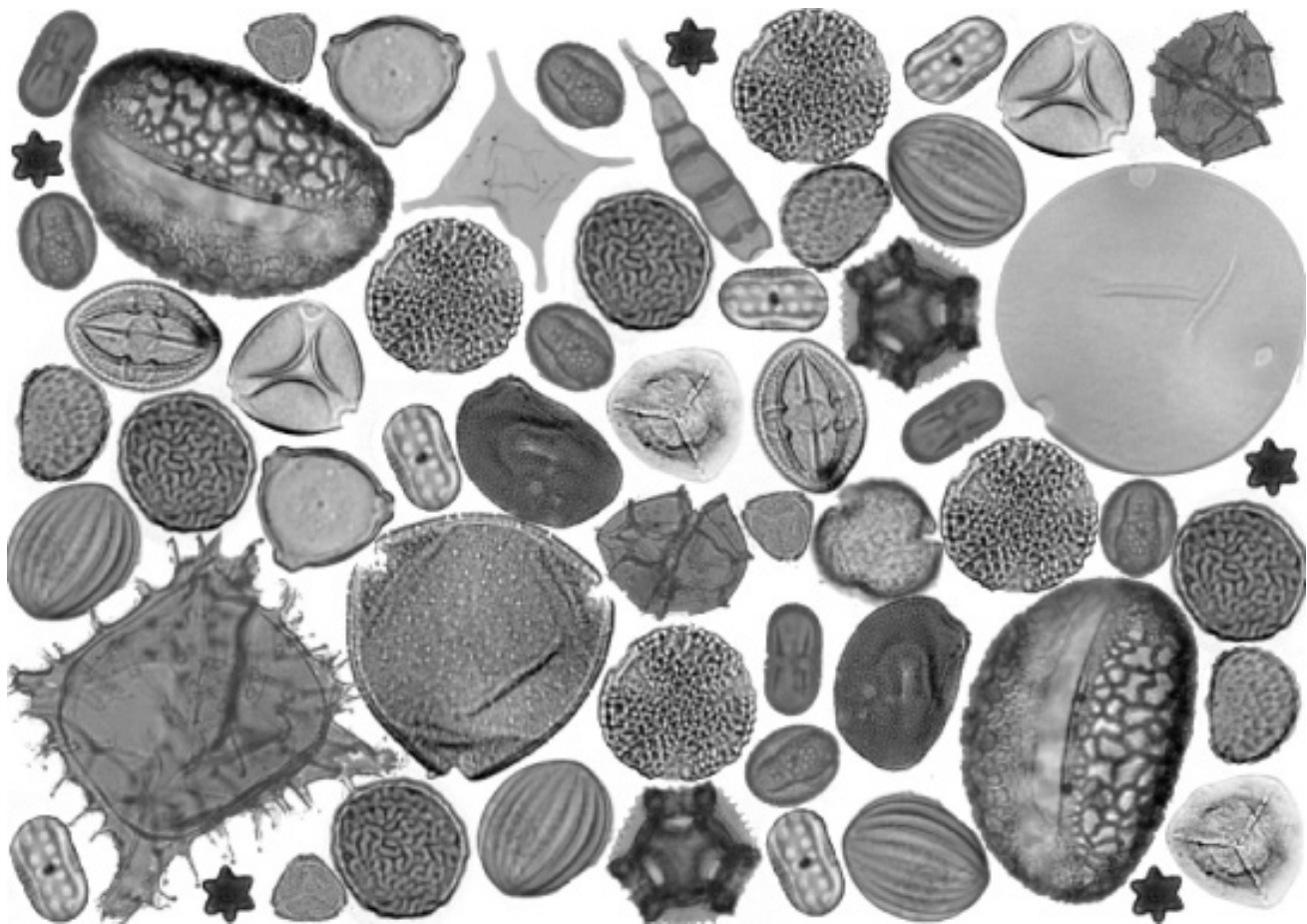
August 8-12, 2021

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

Manizales, Colombia

Organizers: Ingrid Romero, Angelo Plata & Andres Pardo

**Postponed to 2022**



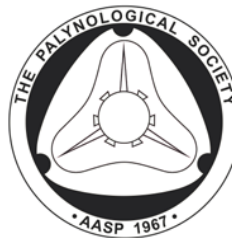
# 54<sup>th</sup> AASP- ANNUAL MEETING

## Manizales, Colombia

August 8 – 12, 2021

# Postponed to 2022

We are excited to held the 54<sup>th</sup> annual meeting of the AASP – The Palynological Society in Colombia, at the Universidad de Caldas, on the beautiful coffee city of Manizales, between Sunday, Aug. 8<sup>th</sup> and Thursday, Aug. 12<sup>th</sup>, 2021.

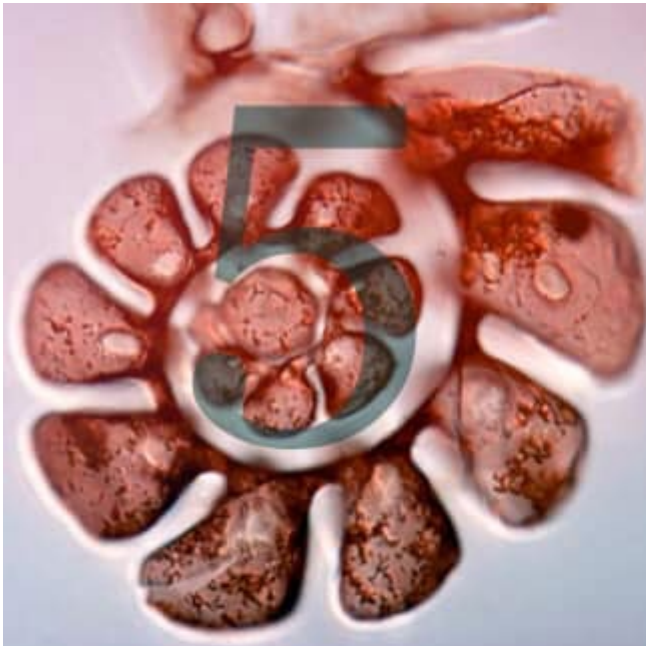


UNIVERSIDAD  
NACIONAL  
DE COLOMBIA



## **Other Meetings and Workshops of Interest**





## Micropalaeontology in the 21st Century

**The Micropalaeontological Society 50th AGM**  
online from University College London

11th-13th November 2020

### Keynote Talks

*Reconstructing Neogene climate from a benthic foraminiferal perspective*

**Ann Holbourn** - Kiel University, Germany

*Protists in protean seas*

**Celli Hull** - Yale University, USA

*Surviving impact winters and reconquering the oceans:  
Tales from ancient coccolithophores*

**Samantha Gibbs** - Southampton University, UK

*Molecules and fossils - how DNA data contributes to our knowledge  
of ostracod evolution and history*

**Isa Schoen** - Royal Belgian Institute of Natural Sciences

*Spores, Evo-Devo and the nature of the first land plants.*

**Charles Wellman** - University of Sheffield, UK

*Dinoflagellates and their cysts: Exploring new avenues  
in paleoclimate research and (past) harmful blooms.*

**Francesca Sangiorgi** - Utrecht University, NL

*What next for Palaeogene diatoms?*

*Lessons from the North Atlantic.*

**Jakub Witkowski** - University of Szczecin, Poland

*Revising Radiolarian systematics: Combining traditional and  
integrative taxonomy with molecular phylogenetic analysis.*

**Noritoshi Suzuki** - Tohoku University, Japan

The 2020 AGM of TMS will be an online conference, celebrating 50 years of the society and the strength and diversity of modern micropalaeontology.

Organising committee Jeremy Young, Paul Bown, Johnathon Holmes, and Bridget Wade. Further details and registration information will be available from the TMS website.

**The**  
**Micropalaeontological**  
**Society**





## 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. CAFA 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/rsis/555?language=es>; Laguna de Vilama: <https://rsis Ramsar.org/es/rsis/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.



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