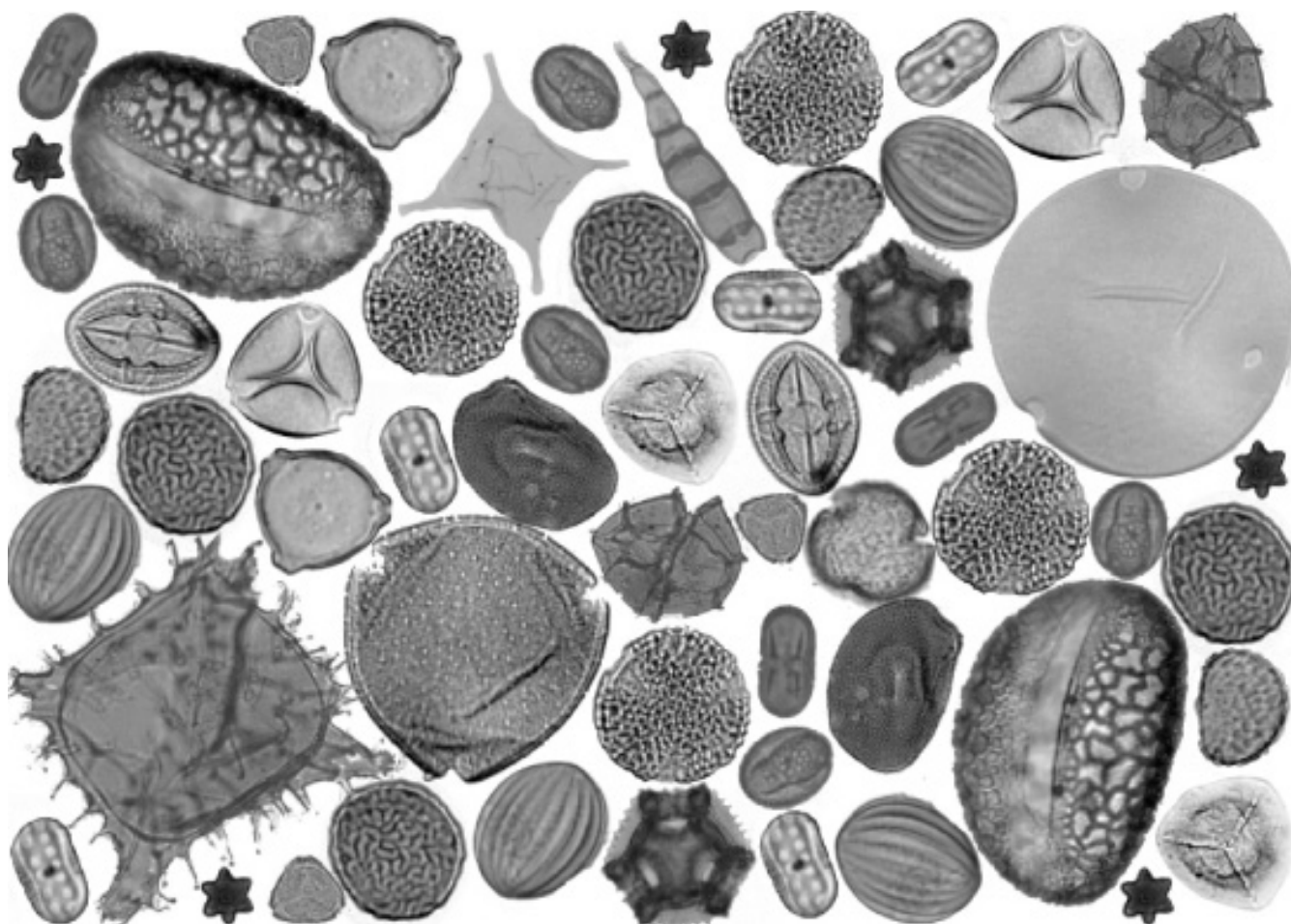




# AASP – The Palynological Society

Promoting the Scientific Understanding of Palynology since 1967



# NEWSLETTER

March 2022  
Volume 55, Number 1

Published Quarterly



# AASP – TPS NEWSLETTER

Published Quarterly by AASP – The Palynological Society

March 2022, Volume 55, Number 1

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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 200 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-TPS 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-TPS 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 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)  
Professor George F. Hart (awarded 2020)

#### **AASP-TPS Board of Directors Award recipient**

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

#### **AASP-TPS Medal for Excellence in Education**

Professor Aural 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)  
Professor Sophie Warny (awarded 2021)

#### **AASP-TPS Distinguished Service Award recipients**

Dr. Robert T. Clarke (awarded 1978)  
Dr. Norman J. Norton (awarded 1978)  
Dr. Jack D. Burgess (awarded 1982)  
Dr. Richard W. Hedlund (awarded 1982)  
Dr. John A. Clendening (awarded 1987)  
Dr. Kenneth M. Piel (awarded 1990)  
Dr. Gordon D. Wood (awarded 1993)  
Dr. Jan Jansonius (awarded 1995)  
Dr. D. Colin McGregor (awarded 1995)  
Professor John H. Wrenn (awarded 1998)  
Professor Vaughn M. Bryant (awarded 1999)  
Dr. Donald W. Engelhardt (awarded 2000)  
Dr. David T. Pocknall (awarded 2005)  
Dr. David K. Goodman (awarded 2005)  
Professor Owen K. Davis (awarded 2005)  
Dr. Thomas Demchuk (awarded 2009)  
Professor Reed Wicander (awarded 2014)  
Professor Fredrick Rich (awarded 2016)  
Dr. James B. Riding (awarded 2016)  
Professor Martin B. Farley (awarded 2019)



# AASP – TPS NEWSLETTER

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Volume 55, Number 1  
Jan Hennissen, Editor

## BOARD OF DIRECTORS

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India  
Black Sea region  
Germany  
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South Africa  
Asia  
Australia  
South America

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Alexander Ball

To express interest in open positions, please send an email to: [aaspnews@gmail.com](mailto:aaspnews@gmail.com)

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## AASP NEWSLETTER EDITOR

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## AASP NEWSLETTER GRAPHIC DESIGN (December 2021 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 May 15.** All information should be sent by email. If possible, please illustrate your contribution with art, line drawings, eye-catching logos, black & white photos, colour photos, etc. **We DO look forward to contributions from our members.**

# A Message From Our President

Dear Colleagues and Friends,

I hope that you are all enjoying the change in season wherever you are. Following an exceptionally mild winter here in the UK, we are now being treated to the most incredible display of springtime tree blossom that I have ever seen!

Since my previous letter, the AASP-TPS Board of Directors have met for the 2022 Midyear meeting. I thank all of you who attended, particularly since the meeting spanned several time zones, as well as the International Date Line, which I think serves as a good reminder of the truly global reach of our society. Two of the principal topics of discussion were the upcoming annual meeting in Manizales, and the elections of the AASP-TPS board, and I would like to use this opportunity to update our members on these points.

This year's annual meeting will be held in Manizales, Colombia, from the 7th to 11th August 2022. Registration and abstract submissions are open, and further details can be found in this newsletter (pages 24 – 30). If you haven't registered yet, please do so soon to take advantage of the early bird rates, which will end on March 31st, 2022. I would also like to highlight the abstract deadline (April 15th) is fast approaching! As mentioned in my December 2021 letter, the society will be offering additional support for travel and accommodation

expenses through our Student Travel Awards programme. Additionally, following recommendations by the Awards Committee, we have decided to extend the deadline for this year's Student Travel and Research Awards (see page 12), so if you are an early career member, and you haven't already applied for either of these opportunities, please consider doing so now to avoid missing out.

Following some difficulties in finding members willing to stand for society office in previous years, I am very happy to report that we have no shortage of election candidates on this occasion. I believe this is an excellent sign, which reflects the health and vibrancy of our society. Biographies for this year's candidates may be found in this newsletter (see pages 13 – 18). You will soon receive a SurveyMonkey link from the 2022 Ballot Committee asking you to cast your votes. I thank all of the candidates for volunteering to run for office, and wish you all the best of luck! As always, I would advise casting your votes early, so that we can continue to increase our voter turnout. With so many candidates running for office, this promises to be a closely contested election, so your votes count!

As advertised in the previous newsletter, we are still seeking a correspondent for Asia. This is an excellent opportunity to become more involved in the society, so if you are interested, then please do not hesitate to contact our Newsletter Editor, Jan Hennissen. Lastly, I would like to draw your attention to the new "Mystery Palynomorph" newsletter feature. I'm hopeful that this will generate some intriguing specimens for us to puzzle over, and stimulate some equally interesting discussions in future issues.

Best regards,

Niall





# Managing Editor's Report

Our journal *Palynology* continues to do well. This year's volume number is 46 and will have a smart black cover featuring three specimens of the dinoflagellate cyst *Cannosphaeropsis franciscana* from the Oyster Bay Formation (Paleocene) of Vancouver Island, BC, Canada provided by Sandy McLachlan (see the image below). Many thanks Sandy!

Part 1 of Volume 46 was published online a couple of weeks ago; the contents are listed below. Part 2 was finalised during the past week and will be issued during early May. Both Parts 1 and 2 are 200 pages long and paper copies will be mailed out in early May. This synchronicity in page numbers is somewhat coincidental although I am aiming for four parts of around 200 pages each this year. Part 3 is currently being filled. Manuscript submission is very healthy indeed at the moment. For the past two years we have had well over 100 submissions.

The three editors had a very successful Annual Business Meeting with our counterparts at Taylor and Francis in mid December 2021. There are no problems to report, the key parameters such as downloads of papers are steadily increasing year on year.

James B. Riding

Managing Editor,

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17th February 2022

## The contents of *Palynology* Volume 46, Part 1 (February 2022)

1. Riding, J.B. The introduction of article numbers in *Palynology*. Article number 1916704, 2 pp.
2. Jaramillo, C. and Jarzen, D.M. Alan Keith Graham (1934–2021). Article number 1971121 4 pp.
3. Lopes, A.C.V., de Souza, C.N., Saba, M.D. and Gasparino, E.C. Pollen morphology of *Malvaceae* s.l. from Cerrado forest fragments: details of aperture and ornamentation in the pollen types definition. Article number 1925769, 15 pp.
4. Terrab, A., Moujanni, A., Essamadi, A.K., Hernanz, D., Díez, M.J. and Berjano, R. A palynological and geographical characterization of labeled resin spurge honey: *Euphorbia resinifera*. Article number 1933639, 10 pp.
5. Quamar, M.F. Monsoonal climatic reconstruction from Central India during the last ca. 3600 cal yr: signatures of global climatic events, based on lacustrine sediment pollen records. Article number 1930605, 18 pp.
6. McLachlan, S.M.S. *Phelodinium fenso-me* sp. nov.: a protoperidineacean dinoflagellate cyst from the lower Paleocene (Danian) of the Oyster Bay Formation, Vancouver Island, Canada. Article number 1925365, 11 pp.
7. Toscano-Cepeda, A.-E. and Helenes, J. Oligocene–Miocene dinoflagellate cysts from the San Gregorio Formation, La Purísima area, Baja California Sur, Mexico. Article number 1927880, 20 pp.
8. Mertens, K.N., Carbonell-Moore, M.C.

and Gardner, K. A morphological comparison of two cladopyxidacean dinoflagellates: the extant *Micracanthodinium setiferum* and the fossil *Cladopyxidium saeptum* (Dinophyceae, Gonyaulacales). Article number 1934908, 17 pp.

9. Heidarian, M., Masoumi, S.M. and Amiri, S. Palynological study on selected species from Hyacinthaceae with focus on taxonomical implications in Iran. Article number 1952329, 16 pp.

10. Çelemlı, Ö.G. Characterization of palynological features of *Cyclamen* species native to Turkey and new approaches for their systematic significance. Article number 1950070, 11 pp.

11. Niechwedowicz, M. Dinoflagellate cysts from the Upper Cretaceous (upper

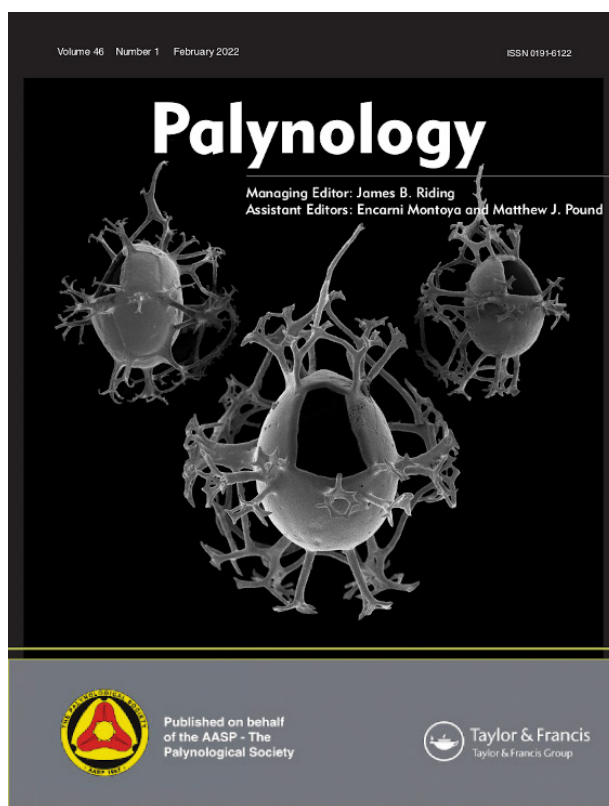
Campanian to lowermost Maastrichtian) of the Middle Vistula River section, Poland. Article number 1945700, 37 pp.

12. Santos, R.A. and Ledru, M.P. Acid-free protocol for extracting pollen from Quaternary sediments. Article number 1960916, 8 pp.

13. Riding, J.B. How to get published in *Palynology* (or any other journal). Article number 1965666, 12 pp.

14. Horrocks, M. and Jarzen, D.M. Hornwort (Anthocerotopsida) spores in Late Quaternary wetland sediments and dryland soils, Rapa Nui (Easter Island). Article number 1965667, 8 pp.

15. Çelemlı, Ö.G. Insight into palynological characteristics of *Vinca* species in Turkey and their taxonomic relationship. Article number 1970041, 11 pp.





## **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.





# 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 golden 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 arranged by contacting the AASP-TPS Treasurer, Vladimir Torres, at [vladimir.torres@exxonmobil.com](mailto:vladimir.torres@exxonmobil.com). Necklaces can be mailed at your request.

# Awards News

By Marie Thomas

## Society Awards

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 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.

### 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 seventeen individuals, most recently to George Hart in 2020.

### 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 six times, most recently to Sophie Warny in 2021.

### 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.

### 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 M.Sc. or Ph.D. graduation (excluding time spent in industry or on leave).

# Student Research Awards

## Call for Applications

AASP–The Palynological Society is pleased to announce its program of Student Research Awards. For 2022, 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 **April 15, 2022**. 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.

## Undergraduate Student Awards

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. This free membership includes access to 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 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 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)) at any time of the year. 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.

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:

## Student Travel Award – Manizales, Colombia 2022

AASP–The Palynological Society is pleased to announce its Student Travel Awards program for 2022. These awards are designed to support travel for student members who intend to present a talk or poster at the annual meeting in Manizales, Colombia, August 7–11, 2022.

Applicants who were selected to receive travel awards for the cancelled Baton Rouge conference in 2020 are invited to reapply for special consideration if they will still be students at the time of the Manizales conference.

## 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. 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 the application form.

The deadline for applications is **March 31, 2022**. 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.





# Candidates to the Board of Directors 2022

Introducing the 2022 candidates for the board of directors in the following positions: President Elect, Director-at-Large and Student Director-at-Large. In the following weeks, all AASP-TPS members will receive an email with a link to vote for the candidates.

## President-elect



**Michael Zavada**  
President-elect

Dr. Michael Zavada was born and raised in Bridgeport, Connecticut. He received his B.S. and M.S. degree in Botany / Palynology from Arizona State University, Tempe (with James E Canright).

He also received a B.A. in Slavic Languages and Literature, and a Ph.D. in Ecology and Evolutionary Biology from the University of Connecticut, Storrs (with William L. Crepet). He spent one year as a Fulbright Scholar in Skopje, Macedonia at the Geologic Institute, and the Center for Foreign Languages. He did post-doctoral work with David Dilcher at Indiana University, Bloomington, and Thomas Taylor at Ohio State University, Columbus (both NAS members). He has served on the faculties of The University of the Witwatersrand, Johannesburg, South Africa, The University of Louisiana-Lafayette, was Professor and Chairman of the Department of Biology at Providence College, Providence, RI, and East Tennessee State University, Johnson City, TN. He served as Dean of the College of Arts and Sciences at Seton Hall University, New Jersey and as Dean of The College of Arts and Sciences at University of Texas - Permian Basin and is now the Chair of Geosciences at University of Texas - Permian Basin.

Dr. Zavada has broad and varied interests

which include using pollen to track the time and place of origin of the angiosperms, paleo-environmental reconstruction, eco-physiology, reproductive biology, plant - animal interactions, biomechanics, archeological pollen analysis, ethnobotany, and aerobiology. His field research has taken him throughout North America, South America, Africa, including Madagascar and Mongolia. He has received over \$ 9.5 million in grants and solicited funds, including grants from the National Science Foundation, National Institute of Health, NASA, American Philosophical Society, The University of Texas System and National Geographic Society.

In addition to his academic interests, he played baseball at Arizona State University, participates in a variety of sports, and outdoor activities, enjoys travel, and is an instrument rated private pilot.



**Sophie Warny**  
President-elect

Sophie Warny is the AASP Endowed Chair Professor in Palynology in the department of Geology and Geophysics, and a Curator at the Museum of Natural Science (MNS), both at Louisiana State University in Baton Rouge, Louisiana. She grew up in France (Grasse) and Belgium (Namur). She received a B.S. degree in geology from the Université Catholique de Louvain (UCL) in Belgium, a DEA in oceanography from the Université Libre de Liège (in Belgium), and a Ph.D. from UCL in marine geology/palynology in 1999, working under the direction of Dr. Jean-Pierre Suc (Université de Montpellier in France).

She is the director of the AASP-The Palynological Society Center for Excellence in Palynology.



nology (CENEX) and oversaw the remodelling and expansion of the center these past 15 years. CENEX focuses on various aspects of palynological research, from the use of pollen, spores and algae in biostratigraphic studies (biosteering applications) in collaboration with the industry to the use of pollen in forensic applications and melissopalynology.

Her research also focuses on palaeoceanography and paleoclimate reconstruction, including investigations of the palynological record to decipher past sudden climatic events and climate variability to help constrain their triggering mechanisms. She received a NSF CAREER award in 2011 and has published in journals such as *Science*, *Nature*, *Nature Geoscience*, *PNAS*, *Geology*, *Gondwana Research*, *Climate of the Past*, and of course the society's journal, *Palynology*.

She served in 2016 as the Vice President of the Gulf Coast Section of the SEPM society and was one of the six AAPG Distinguished Lecturers for 2019/2020. But her involvement with AASP-The Palynological Society has been the longest standing. It started about 25 years ago, in 1996 when she received the doctoral student research award for her dissertation on the Messinian Salinity Crisis. Then, in 2005, she was elected as Director-at-Large, and from 2006-2015, she served as the society's newsletter editor. She was the organizer of the society's 2020 annual conference that was unfortunately cancelled a month before it was set to occur, at the beginning of the Covid pandemic.

The most touching honor of her career was to have been nominated by her former graduate students for the society's Medal for Excellence in Education in 2021. She has supervised 23 theses and dissertations since starting at LSU in 2008. At LSU, she primarily teaches upper-level classes in micropaleontology and on the Texas Permian Basin. Her former students are mostly employed as biostratigraphers or geologists in the oil and gas

industry (BHP Billiton Petroleum, HESS, Shell, BP, Ellington Geological Services, Chevron, Hillcorp), or they work for Federal and State government agencies (Department of Homeland Security, Department of Environmental Quality), and as instructor or curators (IODP).

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## Director-at-Large



**Paula Rodriguez-Zorro**  
Director-at-Large

I am a tropical and Quaternary palynologist with focus in South America. I am interested in understanding the drivers of change of tropical ecosystems during the Quaternary. During my

undergraduate studies in biology at the National University of Colombia, I worked in the Caribbean mangroves of Colombia using pollen and facies analysis to reconstruct recent fluvial dynamics in the Cispatá Bay.

Afterwards, during my PhD, at the University of Goettingen, Germany, I worked on reconstructing the effect of fluvial and human impacts on vegetation during the Holocene in the Brazilian Amazon. We used pollen and geochemistry to analyze three different systems including black and white-water river floodplains and savannas.

My first postdoc, at the University of Montpellier, France was more related to decipher the effect of drastic climatic changes such as those occurring through glaciations during the last 200 ka and the 1.5 Ma in the Colônia crater, Brazil. Using pollen, biomarkers, charcoal, diatoms among other proxies, we were able to detect the large influence from the southern polar fronts up to latitude 23° S.

My second and recently finished postdoc was at the Universidad del Norte in Colombia, the focus was also climate related. We are trying to reconstruct the effects of climate during

the Holocene in the eastern Andes of Colombia. We are using pollen and geochemistry to see the influence of the little ice age, the medieval warm period, and the 8.2 ka cold period in the tropical Andes.

Recently, I was appointed as assistant professor at the National University of Colombia to continue developing the palynology and paleoecology line in the biosciences department. I am aiming to continue exploring the Andean ecosystems, but also building a collaborative network to study new regions such as the Chocó and Amazon lowlands, the Caribbean and northern savannas of Colombia. Certainly, I am open to work in other regions from South America.

As an awardee and supporter of societies such as the AASP-TPS, I would like to continue encouraging and supporting students and researchers in their paths. I could not be more grateful to all the societies that had helped me along my career, which were crucial to determine my path in science. It is my aim to contribute removing the barriers of knowledge, representation, and financial support in the global south.



**Martha Gibson**  
Director-at-Large

I am currently a post-doc at Northumbria University studying Middle Miocene palaeoclimate but my introduction to palynology was firmly in the Palaeozoic, with Charles Wellman introducing me to Ordovician chitinozoans from Oman during the final year of my MBiolSci at the University of Sheffield in 2014. And so began my fascination with all things palynological and the techniques we use to extract and observe them.

In 2016, I returned to Sheffield to pursue my PhD under the supervision of Charles Wellman

(University of Sheffield) and Asher Haynes (AngloAmerican). I changed my focus to sporomorphs recovered from the evaporite-dominated Zechstein Supergroup in the North Sea in order to reconstruct the environments of the UK prior to the end-Permian extinction.

In developing a method to recover palynomorphs from the salts I was able to challenge long-held assumptions about the inhospitability of latest Permian environments and promote ancient evaporite systems as an important source of palaeobotanical information.

After finishing my PhD in late 2020, I joined Northumbria University in March 2021 as part of the 'Fungi in a Warmer World' project (NSF-GEO and NERC-funded), where I have spent the past year using probability-based terrestrial paleoclimate reconstruction techniques with rigorous characterisation of uncertainty to produce the first global reconstruction of precipitation patterns during the Middle Miocene Climatic Optimum.

My PhD research ignited a passion for evaporites and the environmental information they trap, and I will shortly start a new position at West Virginia University funded by the Lindemann Trust to continue my evaporite palynology research. I will be studying the palynology of the midcontinent USA evaporites to help inform the search for life in extra-terrestrial evaporites, such as those on Mars, with Perseverance Mission Team member Dr Kathleen Benison.

During my PhD tenure and beyond I have attended three AASP-The Palynological Society meetings and participated in the Palynology Short Talks series. These meetings have given me invaluable access to world leading palynologists, some of which have now become colleagues and close friends. They provide unique opportunities to discuss a wide variety of research, career-avenues, and without them I would not be aware of the variety that encompasses palynology today.

I would be honoured to serve as Director-at-Large for a society that has inspired me and has been instrumental in my success as a palynologist.



**Alexander Wheeler**  
Director-at-Large

I initially entered my undergraduate degree in 2011 at Rhodes University, South Africa with the aim of becoming a vertebrate palaeontologist, but thanks to Prof. Annette Götz, I was soon captured by palynology.

My particular interest was drawn to its utility in palaeoclimate and palaeoenvironmental reconstructions. During this time, we were joined by Iain Prince and Katrin Ruckwied for a palynology short-course that taught some of the ins and outs of palynology and biostratigraphy in industry. Naturally, I was hooked! I couldn't say no when I was offered the chance to do a masters in Pretoria in 2015 examining signals of climatic changes in the early Permian captured in the coals of the Witbank Basin.

My experience in the palynology of Permian Gondwana gave me a chance to move to Australia in 2016 to conduct a PhD under Prof. Joan Esterle at The University of Queensland examining palynological changes immediately preceding and immediately following the end-Permian Mass Extinction. The four years I spent in Australia expanded my interest in sedimentology, geochemistry and coal petrology and the ways in which they can be linked with palynology for much more robust environmental and climatic interpretations. During this time, I was also lucky to gain experience in palynological preparations and learned some of the nuances of processing coals as well as trying to apply acid-free palynological processing techniques to Permo-Triassic material.

In the latter stages of 2021 I was granted a Alexander von Humboldt postdoc fellowship which has allowed me to come to Leibniz University Hannover in Germany to study the end and aftermath of the Late Palaeozoic Ice Age in Australia. We hope to combine a high-resolution carbon isotope record with palynology and coal petrology to better understand the timing of floral changes that began the widespread formation of coal in Gondwana.

During my career as a palynologist, AASP has been an invaluable source of community and advice. This has been especially true over the last two years, where the short talks series and online meeting have helped me feel connected to the wider scientific community while stuck in lockdown. I hope to be able to give back to the AASP and wider palynological community and to draw in new members and prospective palys.

In a rapidly changing world, I think palynology offers a toolset that is applicable to many different fields in the biological and earth sciences both on its own and in concert with other disciplines.



**Carlos A. Sanchez Botero**  
Director-at-Large

I obtained a B.Sc. degree as a geologist from the Universidad de Caldas, Manizales in 2003, with emphasis on analyses of metamorphic rocks and microtectonics.

However, my main interest as an undergrad was oriented to paleoclimatology and paleontology. This interest led me to work with Dr. Carlos Jaramillo, first at the Colombian Petroleum Institute as a Young Researcher and later as an intern at the Smithsonian Tropical Research Institute in Panama.

I then moved to Missouri (Missouri University of Science and Technology) to pursue my



Ph.D., under the supervision of Dr. Francisca Oboh-Ikuenobe, where I studied the palynological content of sediments retrieved from acidic-saline lakes in Western Australia, in order to improve the knowledge about the origin of these lakes and the geological, ecological and climatic factor that influenced their development.

Currently, I work as a consultant palynologist at the Biostratigraphy laboratory of the Colombian Petroleum Institute of ECOPETROL, the Colombian oil company.

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## Student Director-at-Large



**Opeyemi Taiwo**

Student Director-at-Large

I am Opeyemi Taiwo, a PhD geoscience student at the University of Aberdeen, United Kingdom. I have a Bachelors in Geology and a Masters in Biostratigraphy from the Federal University of

Technology, Minna, Nigeria and am currently on my PhD program at the University of Aberdeen. My PhD. research employs palynology and other stratigraphic tools to establish a lithofacies-biofacies model to interpret glacial-interglacial cycles in East Africa.

I have over seven years of lecturing experience at the Federal University of Technology, Minna, Nigeria where I supervised undergraduate student projects, conducted fieldwork, research and published, and taught micropaleontology and petroleum related courses.

As a PhD student and an associate fellow of the higher education Academy (AFHEA), I have been involved in leading undergraduate tutorials, and support learning in the palynology laboratory. My experiences as a student and an educator across continents, has made me work and support diverse students which

gives me the believe that I have what it takes to add my voice to promoting palynology amongst students and be that accessible, approachable, and accountable Student Director-at-Large to this great Society."



**Jamie Alumbaugh**

Student Director-at-Large

I am a Ph.D. student and palynologist in the Department of Geography at the University of Tennessee, Knoxville (USA). My broad interest is in human-environment interactions in southern

hemisphere tropical ecosystems. Specifically, I study how pastoralism and deforestation have transformed landscapes through time in the spiny desert of Madagascar and the Ecuadorian highlands. Aside from pollen, my toolkit includes non-pollen palynomorphs, ancient sedimentary DNA, stable carbon isotopes, and small mammal paleontology.

My master's research at Northern Illinois University (DeKalb, Illinois) focused on identifying and statistically comparing the remains of *Macronycteris* spp. bats from submerged cave deposits from Madagascar. Temporal patterns I discovered in bat remains from the southwest have contributed to conversations about human impacts in the area. This work was part of a larger NSF-funded study on the paleoecology of the spiny desert ecosystem, including prehistoric human impacts.

For my doctoral work at the University of Tennessee, I am still studying human-environment interactions, but have pivoted to using pollen, spores, and ancient DNA from lake sediment cores to assess how páramo landscapes have changed under human settlement and pastoralism.

My work is funded in part through the generosity of the Student Research Award (2021) from AASP-TPS. I am currently performing

lab work for my dissertation and am preparing to defend my doctoral proposal.

I have felt welcome and supported as a member of the AASP–TPS community, and would be delighted to have the opportunity to serve this society and further its goals.



### **Josh Barna**

Student Director-at-Large

Our inflatable cataraft lumbered through the wind-whipped swells on Khargal Lake. As the boat's motor struggled to propel us toward the shore, Sarah turned to me and shouted over

the howling wind, "I bet you never thought in a million years you'd be on a lake in the middle of nowhere doing this!" I couldn't argue with that statement. Moreover, I was utterly and hopelessly hooked on palynology.

I found myself in this situation after graduating from Utah State University with a B.Sc. in geology. After being introduced to palynologist and geoscience professor Dr. Sarah Fowell at the University of Alaska, Fairbanks, I was ashamed to admit that my background in palynology was limited to a brief description of the subject in my sedimentology and stratigraphy class as a second-year undergrad. Working toward my master's degree at UAF, I became cognizant of the usefulness of this esoteric branch of science where geology and botany join forces to unlock the great paleoenvironmental mysteries of Earth.

I am currently working under Dr. Fowell on a project reconstructing the palynoflora of the steppe-forest ecotone in northern Mongolia throughout the Holocene. Here, relationships between humans, plant and animal communities, and climate are critically sensitive to change and may foreshadow impacts farther north as warming occurs. This past summer, I worked with rural Alaskan high school

students at a fieldwork-oriented geoscience camp to encourage interest in the STEM fields. Seeing their eyes light up as they began to understand geological concepts when faced with rock outcrops was one of the most rewarding experiences of my academic career to date.

If selected as the Student Director-at-large of AASP, I will work tirelessly to stoke interest in palynology and promote the interests of The Palynological Society. Thank you for your consideration!





# 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 February 15, May 15, August 15, and November 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!

Jan Hennissen - [aaspnews@gmail.com](mailto:aaspnews@gmail.com)  
Newsletter Editor

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## AASP Foundation Report

### Palynological Publications from the AASP Foundation

The AASP Foundation has had a long history publishing palynological works. Books, Contribution Series, and the journal Palynology (up to #32). For many years, Bob Clarke and the late Vaughn Bryant managed not only the publishing side but also the sales, storage, and archiving side of the business. The demand for hard copy is much less now than it was, with most researchers preferring digital copies. Several years ago, we embarked on a program to scan all our publications and make them available as printable PDFs and have now scanned more than 95% of the publications. Simultaneously, we embarked on a program to reduce our stock of printed books. Recently, we sold our last hard copy of the 3-volume book "Palynology: Principles and Applications." Some books we will continue to provide in hardcopy (e.g., Kapp's "How To Know Pollen and Spores") for some time, but moving forward, most will be available as PDF only. These can be purchased online at the AASP website (<https://palynology.org/publications>). Watch for an update to the publication sales part of the website soon.

If you have any questions about publication sales, contact David Pocknall ([pockodt@gmail.com](mailto:pockodt@gmail.com)).

David Pocknall  
Secretary, AASP Foundation

# 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, 2021**.

### 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.

## 2021 AASP Foundation Century Club Contribution Form

Mail to: Thomas D. Demchuck  
AASP Foundation Chair and Trustee  
14419 Lotusbriar Ln.  
Houston, TX 77077

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

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

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

# News from...

## Canada

By Peta Mudie

Peta reached out to draw attention to a new paper on tintinnomorphs. Peta said "It is a very important paper in the NPP world but Laguna is not a widely read journal to my knowledge, so would be very good to direct the attention of palynologists to it."

The full reference of the paper is: Matsuoka, K. and Ando, T., 2021, Turbellarian egg capsule as one type of aquatic palynomorph; reconsideration of Tintinnomorphs, *Laguna* 28, 15 –35.

*Laguna* (2021) 28: 15-35

ISSN 2185-2995

## Review

### **Turbellarian egg capsule as one type of aquatic palynomorph; reconsideration of Tintinnomorph**

**Kazumi Matsuoka<sup>1,2\*</sup> and Takuto Ando<sup>3</sup>**

**Abstract:** Tintinnomorphs have attracted attention in the analysis of aquatic palynomorphs due to their characteristic funnel, bell, pitcher, or cup-shaped morphology, although they have not been predominant in aquatic palynomorph assemblages in comparison with dinoflagellate cysts, microforaminiferal linings and crustacean resting eggs. In this paper, through an examination of the history of tintinnomorph research, the origin of tintinnomorphs becomes clearer. Recent studies of aquatic or non-pollen palynomorphs have revealed that the tintinnomorphs consist of various remains from several types of organisms of different origins, including ciliate lorica, resting cysts, and turbellarian egg capsules. Considering these results, several technical terms for description of turbellarian egg capsules are reassessed. Also, new insight on the origin of acritarchs called *Palaeostomocystis* and *Beringiella* is shown based on comparison of morphological features of modern turbellarian egg capsules. However, the establishment of a species concept for turbellarian egg capsules and their usefulness as paleo-environmental indicators will require further investigation of modern turbellarian egg capsules.

**Key words:** tintinnomorph, turbellaria, palynomorph, egg capsule, *Palaeostomocystis*, *Beringiella*

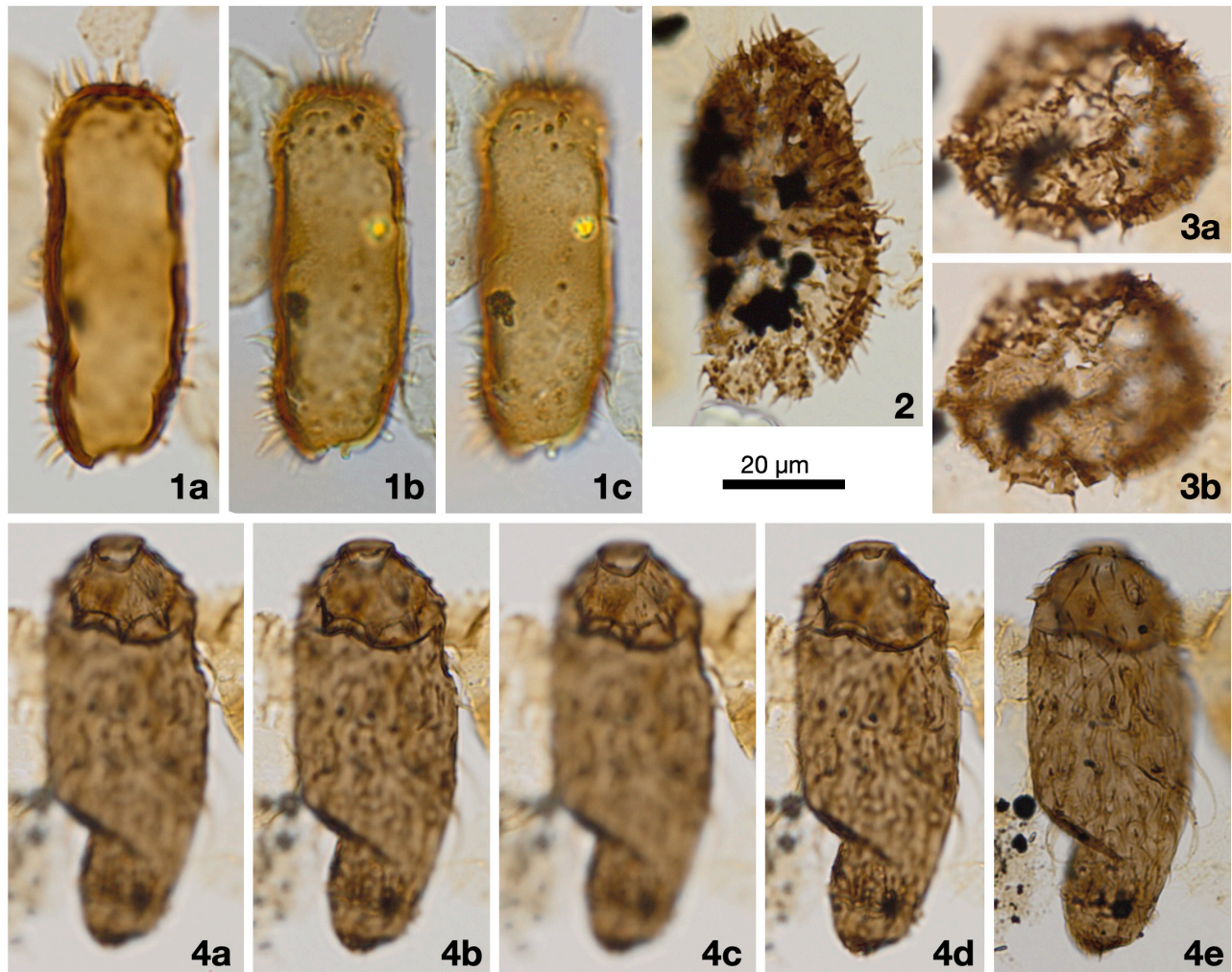
# What's this palynomorph?

In the December 2021 issue of the Newsletter (Vol. 54, Nr.4), we launched a new segment "What's this palynomorph?" where our readers can submit pictures of unidentified palynomorphs which they wish to share with the AASP-TPS community. I hope in this way we can downsize the Palynomorph spp. group and foster collaboration between palynologists across the stratigraphic column. Below, you will find the first submissions!

To ensure the readers' view is not biased by the age, formation or locality of the source material, no additional information alongside the images is provided at this point.

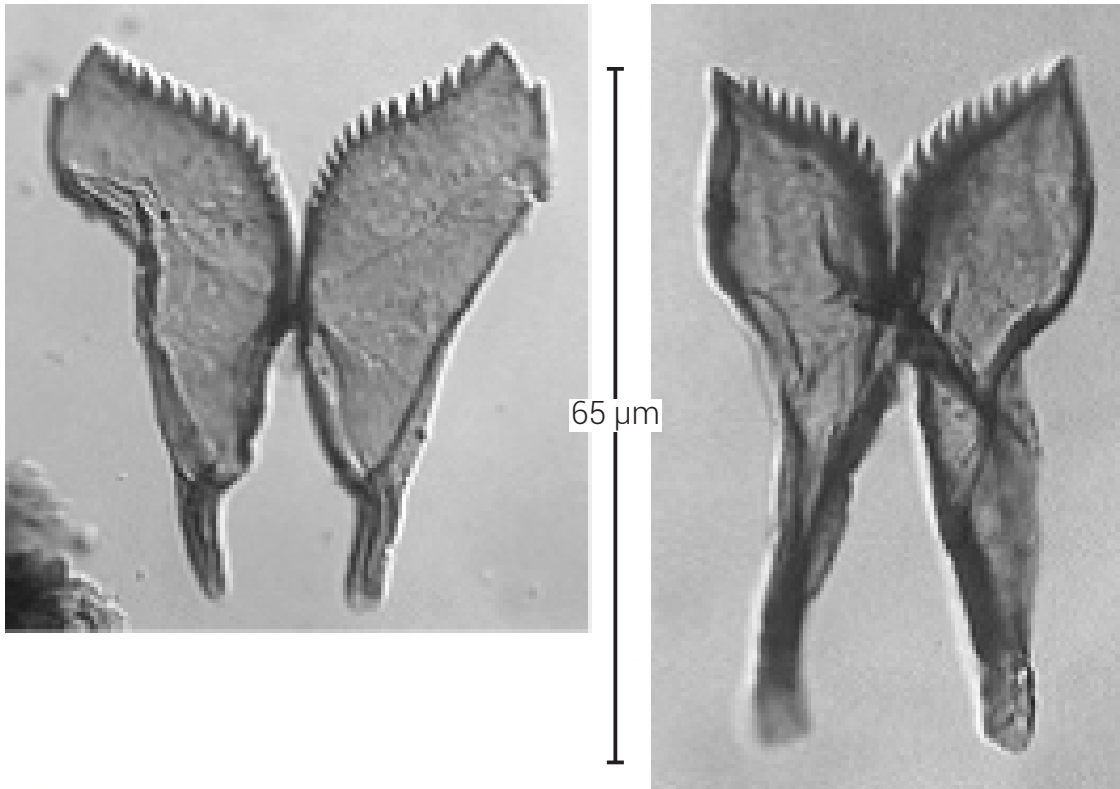
If you recognise any of the palynomorphs in the pictures below, or have a 'golden tip' that could lead to their correct identification, please don't hesitate and submit your suggestions to [saaspnews@gmail.com](mailto:saaspnews@gmail.com) entitled "Mystery Palynomorph" and clearly indicate which Palynomorph sp. you are providing information for. We will pass on the information to the authors of the images to initiate discussions.

## Palynomorph sp. 1 – 4





## Palynomorph sp. 5



## You can submit your mystery palynomorph too!

Have you looked down the microscope and don't immediately recognise what you see? Not even after wading through countless publications and even more species diagnoses? Tired of cursing publishers for providing only low resolution, poorly scanned images of holotypes?

If this sounds familiar, why not send a picture (remember the scalebar!) to the newsletter? You will reach an audience of around 400 palynologists from around the world and with expert knowledge across the entire stratigraphic column.

Send pictures of your unknowns including the approximate age/sample location and if possible formation to [aaspnews@gmail.com](mailto:aaspnews@gmail.com) and we'll drop it in the quarterly Newsletter!





# Upcoming Meetings

## 54<sup>th</sup> Annual Meeting of AASP-The Palynological Society

**Manizales, Colombia**

**August 7th – 11th, 2022**

Manizales, the Institute of Investigations in Stratigraphy (IIES), and the Universidad de Caldas are excited to welcome the global palynological community.

The meeting will be **hybrid, in-person and online**

Registrations are open:

**Abstracts submission:** Jan. 15, 2022 – Apr. 15, 2022  
**Early registration:** Jan. 15, 2022 – Mar. 31, 2022  
**Regular registration:** Apr. 1, 2022 – Aug. 1, 2022

Apply to the student travel award: <https://palynology.org/student-travel-awards/>

In 2022, the annual meeting of the AASP-TSP will be held in Colombia for the first time and for the second time in South America. For this reason, we want to celebrate the palynological diversity of the Neotropics and make this event an opportunity to include the diversity of the palynological community.

This meeting will have a hybrid format (in-person/online). This meeting will also include the participation of the Latin American Society of Paleobotany and Palynology (ALPP), and the Online Pollen Catalogs Network (RCPoL). The meeting will take place in Manizales, a traditional coffee city.



# Registration Fees

Online registration is available [here](#).

All in \$	In-person attendance			Online only	
	Early reg.	Regular	At event	Early	Regular
Student	60	80	100	10	20
Professional member	100	120	150	25	30
Professional non-member	140	160	190	30	40
Retired	90	110	140	20	25
Donations	Any member from the US/EU who would like to support the (partial) registration fee for students outside of the US/EU.				

## Travel

### Travel to Colombia

To travel to Manizales, international flights will have a connection in Bogota at El Dorado International Airport or in Medellin at the Airport Jose Maria Cordova. If during the search of flights, no-options came up, there are two options:

1. From the location of departure to Bogotá (EL Dorado airport) and from Bogotá to Manizales (La Nubia airport).
2. From the location of departure to Pereira (Matecana airport), and in Pereira, it will be necessary to get a car to Manizales (~1 hour away).

### Transportation

Manizales has a regional airport, La Nubia, located 10 Km west of downtown Manizales. International flights will have a connection in Bogota at El Dorado International Airport or in Medellin at the Airport Jose Maria Cordova.

### Accommodations

Manizales has a variety of hotels and hostels spread across the area. Here is a list of some possible accommodations:

- Hotel Varuna <http://hotelvarunamanizales.com/>
- Hotel Estelar el Cable <https://www.estelarelcable.com/?partner=6458>
- Hotel Belen Boutique, Manizales
- Hotel Boutique San Antonia Manizales <https://www.hbsanantonio.com/>
- Casa Hotel Viscaya Manizales

## Venues

The conference will take place at the **Rogelio Salmona Building** and the **IIES - Instituto de Estratigrafía y Sedimentología at the Universidad de Caldas**.

The Rogelio Salmona Building is a cultural center with a modern architecture built to celebrate the culture of Manizales and to promote innovation, education, and research. The IIES is a research institute that focused on the development of research projects related to biostratigraphy, palynology, nannofossils and foraminifera, petrography, sedimentology, and geochemistry.



## Field trips

### Nevado del Ruiz volcano and Laguna Negra (Quaternary)

Max. participants: 25

Cost: 40 dollars students; 60 dollars professionals

Los Nevados National Natural Park is located in the Central Cordillera (Colombian Andes) and is a volcanic area with the higher point in the Nevado del Ruiz Volcano (5321 mamsl). This area is part of the Ring of Fire, along the Pacific Ocean.

In this park, it is possible to observe different glaciers, which were formed during the Last Glacial Maximum. In the past 40 years, a notorious decrease in the ice cover of surrounding peaks has been detected along with an increase in anthropogenic activity. This park is characterized by its high biodiversity, it has also several touristic landscapes, and the variety of lakes and peat bogs serve as a water reservoir for more than 2 million people.

This region is a great archive for the climatic and environmental history of the Andes. At 3000 mamsl, the Paramo, endemic from the Andes, is characterized by Poaceae, Lycopodiaceae, Asteraceae, and Ericaceae. At a lower altitude, the mountain forest is characterized by *Quercus* (Fagaceae), *Hedyosmum* (Chloranthaceae), *Viburnum* (Adoxaceae), and Cyatheaceae. In wetlands, the vegetation observed is Cyperaceae, *Plantago* (Plantaginaceae), *Senecio* sp. (Asteraceae), Apiaceae (Hydrocotyle), *Lachemilla orbiculata* (Rosaceae), and *Gunnera magellanica* (Gunneraceae).

Additional activities: Visit hot springs of the volcano and a hummingbird aviary



### Pliocene sections around Manizales and Cenicafe tour

Max participants: 25

Cost: 60 dollars students; 80 dollars professionals

The region of Chinchina is located in the Central Cordillera, at 800 to 1100 mamsl, and is in the area around the Chinchina River Valley, affluent of the Cauca River. The vegetation is characterized by a sub-Andean forest, and the most important families of plants are Orchidaceae, Araceae, Piperaceae, Asteraceae, and Melastomataceae.

This region is characterized by complex geology with metamorphic rocks from the Permian-Triassic, related with the aperture of Pangea, and volcanic rocks from the Cretaceous associated with a part of the Caribbean Plate. This complex geomorphology is covered by volcanic sediments from Los Nevados, which are characterized by Pliocene palynomorphs.



This region is located in the region of the major production of Colombian coffee. Some of the additional activities in this field trip include a tour of the company Cenicafe to learn about the production of coffee, including testing in coffee farms.



All information about the meeting can be found on: <https://palynology.org/54th-annual-meeting-of-aasp-the-palynological-society-manizales-colombia-august-7th-11th-2022-54-en-cuentro-anual-de-la-sociedad-palinologica-de-aasp-tps-manizales-colombia-agosto-7/>

## Organising Committee

Andres Pardo

Ingrid Romero

Angelo Plata

Damian Cardenas

Contact information: [aaspmeetings@gmail.com](mailto:aaspmeetings@gmail.com)

## 54<sup>th</sup> Annual Meeting of AASP – The Palynological Society Photo Competition

The organizers invite registered participants to submit photos for the photo competition, one per category. The categories are:

- 1) **Palynomorphs**, which includes microscope imaging and digital art;
- 2) **Work in the field.**

The files must be **high-resolution images (minimum of 300 DPI), at A4 size, and in a JPG or PDF format.**

Send the files to [aaspmeetings@gmail.com](mailto:aaspmeetings@gmail.com) with a short caption and photo credits. If the file is very large, share the file(s) through Google Drive or Dropbox, and be sure to **access permissions to aaspmeetings@gmail.com.**



# 54<sup>th</sup> Encuentro Annual de la AASP - Sociedad Palinológica

## Manizales, Colombia

### August 7 – 11, 2022



Manizales, el Instituto de investigaciones de estratigrafía(IIES), y la Universidad de Caldas están emocionados de darle la bienvenida a la comunidad palinológica global.

El encuentro tendrá un formato híbrido, **en persona y online**

#### Inscripciones abiertas:

**Recepción de resúmenes:** Enero 15, 2022 – Abril 15, 2022

**Inscripción temprana:** Enero 15, 2022 – Marzo 31, 2022

**Inscripción regular:** Abril 1, 2022 – Agosto 1, 2022

Los estudiantes pueden aplicar al student travel award ofrecido por la Sociedad de palinología - AASP. <https://palynology.org/student-travel-awards/>

\$	En persona			Online	
	<i>t T e m - prana</i>	<i>Regular</i>	<i>durante el evento</i>	<i>Tempra- na</i>	<i>Regular</i>
<i>Estudiantes</i>	60	80	100	10	20
<i>Profesionales – Miembros</i>	100	120	150	25	30
<i>Profesionales – No miembros</i>	140	160	190	30	40
<i>Retirados</i>	90	110	140	20	25
<i>Donaciones</i>	<i>Cualquier miembro de US o EU que quiera aportar para la inscripcion de estudiantes fuera de US y EU.</i>				

# Viaje a Colombia

Para viajar a Manizales, los vuelos internacionales tendrán conexión en el aeropuerto internacional el Dorado, en Bogotá, o en el aeropuerto Jose Maria Cordova, en Medellín. Si durante la búsqueda de vuelos, no salen opciones, hay otras dos opciones de búsqueda:

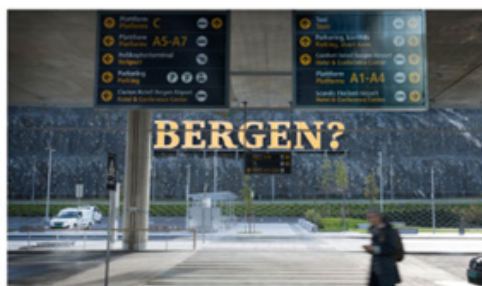
1. Salida de origen a Bogotá (aeropuerto el Dorado) y de Bogotá a Manizales (aeropuerto La Nubia).
2. Salida de origen a Pereira (aeropuerto Matecana), y en Pereira será necesario conseguir un carro hacia Manizales (~1 hora de distancia).

Salidas de campo and cursos cortos están planeados pre- and pos-encuentro.

Toda la información sobre el encuentro puede ser encontrado en:

<https://palynology.org/54th-annual-meeting-of-aasp-the-palynological-society-manizales-colombia-august-7th-11th-2022-54-encuentro-anual-de-la-sociedad-palinologica-de-aasp-tps-manizales-colombia-agosto-7/>

Información de contacto: [aaspmeetings@gmail.com](mailto:aaspmeetings@gmail.com)



Source: VisitBergen.com



Source: VisitBergen.com

Bergen welcomes you to the 14th edition of the International Conference on Paleoceanography, the first ICP held in the Nordic Countries.

**Registration and abstract submission are now open for ICP14!**

You can explore the [program](#), [speakers](#), [social activities](#) and [travel information](#) on our updated website. And don't forget to check the [highly reliable weather forecast for 2022](#).

We are looking forward to receiving your abstracts!

If you would like to receive future updates on ICP14, enter your email address here and click Submit:

Registration and abstract submission for the 14th International Conference on Paleoceanography in Bergen (Norway) is opened today. The updated website with all information is here: <https://icp14.w.uib.no>