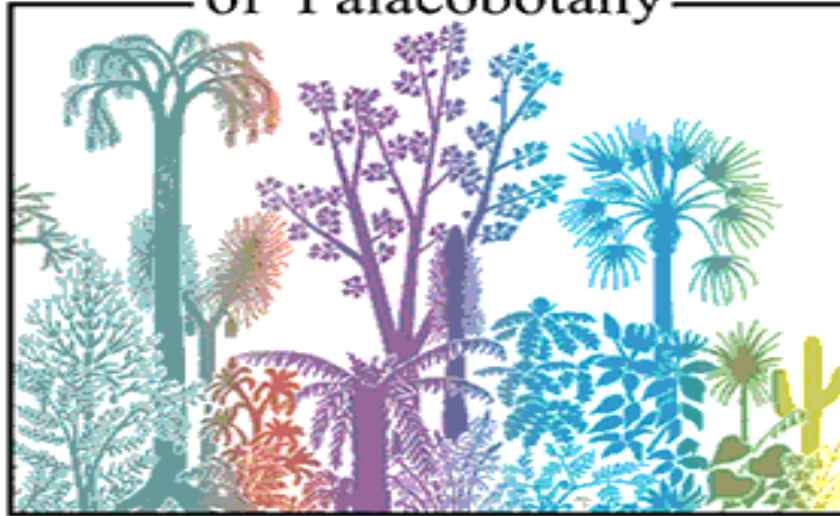


International Organisation of Palaeobotany



IOP NEWSLETTER 129

November 2022

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Letter from the president

Dear Colleagues,

We are grateful to Dr. Kathryn Hill in Adelaide, Australia, who has so kindly and expertly managed our website, Palaeobotany.org, since 2018, and transitioned us to a more modern and secure platform. Thank you, Kathryn! Due to other obligations with her current employment, Kathryn has indicated that she must step down now. Fortunately for continuity of our website, Ms. Indah Huegele, paleobotany doctoral student at University of Florida with experience in web design and applications of Wordpress, has agreed to step in as interim Webmaster and may be willing to serve a longer term if nominated and confirmed. Thank you, Indah! Please bear with us through the transition period, and let us know if you experience difficulties and/or have suggestions for updates and/or additional content.

As we approach 2023, it is already time to make plans for the major conferences of 2024. Our postponed IOPC of 2020 is now rescheduled for May 25–31, 2024 in Prague. In addition, the International Botanical Congress has been rescheduled for Madrid, Spain in July 21–27, 2024. The IOP officers met recently to discuss considerations for both of these meetings. The minutes of that meet follow next in this newsletter. Please consider organizing symposia for these meetings.

We remember with fondness, two of our colleagues who died recently: Sergio Archangelsky and Nathalie Nagalingum. Tributes to them are included in this newsletter.

We always welcome other news from members to be published by our newsletters. Deadline for submissions for the next issue of the newsletter will be March 1, 2023. Please send any contributions to Lutz.Kunzmann(at)senckenberg.de. Thank you very much in advance.

Sincerely,

Steve

Steven Manchester (Gainesville, FL, USA), IOP President

Minutes of IOP Executive Committee meeting

Online-Meeting, October 19, 2022

(1) IOPC/IOP 2024 travel grants

It was agreed that IOP will allocate 10.000 € for early career scientists as financial support for participation in the conference. It is not intended that the grant will cover the entire costs of conference participation. Amount of individual financial support will be related to travel distances (continent of home institution) of the applicant: applicants of European institutions 500 €; others 1.000 €.

Applicants could be PhD and master students, in exceptional cases postdocs if the PhD was defended not earlier than May 2023 (within one year before the conference). IOP membership of the applicant is mandatory. The application, which has to be submitted as a single pdf file to IOP secretary, contains: (1) abstract for a talk at the conference; (2) short CV (max. 2 pages) and (3) a letter of support from the supervisor/advisor (max. 1.5 pages).

Call for applications will be issued in autumn 2023 after the opening of the call for abstracts by the conference; likely in the October IOP Newsletter. Decisions will be made and announced before the early-bird registration deadline. The selection committee will consist of the IOP officers as far as they are not considered to have conflicts of interest.

(1A) IOPC/IOP 2024 business

Jiří Kvaček informed about organisational business. Currently, all symposium convenors from 2020 are asked if they are willing to organize their symposia also in the 2024 conference. In cases that symposia will be withdrawn another call for additional symposia will be issued in early spring 2023 to fill gaps in the agenda. At the moment there are no financial issues regarding the implementation of the conference.

(2) Elections for IOP executive committee 2024

IOP officers are: president, three vice presidents, secretary/treasurer, three members-at-large, conference/congress member. The president and vice presidents can't be reelected for a second term according to IOP statute but the secretary and the members-at-large can. The conference member will be a person from the organizing committee of the forthcoming IOPC who is an IOP member. The current officers currently invite nominations of IOP members who would be willing to be candidates for a position in the next executive committee. Self-nominations are also possible.

According to the statute, the officers will be elected by the general assembly during IOPC 2024 in Prague.

Reform of voting process: see topic 6.

(3) IOP representation at International Botanical Congress 2024 Madrid

IOP traditionally organizes an informal meeting (likely dinner) for those palaeobotanists/palynologists who attend the congress. Jiří Kvaček asked Eduardo Barrón for help in organizing the informal meeting and he kindly agreed.

(4) IOPC/IPC 2028 venue

Premises: IFPS and IOP again intend to have a joint meeting; the venue should be in North America, possibly in Canada. There are currently no other options.

Steve Manchester asked IFPS president Jean-Nikolas Haas if the Canadian Palynological Association will still offer a bid for organizing the meeting 2028 in Canada. The immediate answer was, that they are still willing to do it but did not consider involvement of palaeobotanists for organizing the IOPC part of the joint conference. However, it will be a topic for their next meeting.

(5) IOP bank account (holder) and membership fees (future of cash payments)

Holder of IOP bank account is still Steve Manchester and the bank account is located in Florida (USA). It is free of any charge but it would occasion costs to transfer the account to the respective secretary/treasurer. If Steve is not member of IOP executive committee from 2024 onwards, he couldn't be formally the holder of the IOP bank account. A possible solution could be that the position of the treasurer is decoupled from the position of the secretary and the treasurer would be elected for a longer period (e.g., 3 terms = 12 years) in order to have continuity in financial management. Because of complicated government regulations on nonprofit organizations, the best would be if the bank account remains in USA.

Since 2018 no membership fees in cash could be collected for various reasons. There is a tremendous backlog of fee payments due. This also means that a significant number of memberships would have been expired (usually after two years without payment). Due to the pandemic and other reasons the expiration of memberships should be suspended until the 2024 conference giving members the next opportunity to pay in cash. IOP should consider how online payments could be made attractive and possible for all members. Besides, all members should make sure that they regularly pay their fees.

(6) Reforming IOP statutes

Our current statutes and by-laws were last ratified in 2016. The following points are under consideration for updates or reform:

- elections of officers: online voting should become the usual mode
- possible decoupling of positions of secretary and treasurer; treasurer as additional officer [Steve's suggestion: appointed by secretary with approval of officers]
- IOP webmaster/facilitator should be an additional formally recognized officer
- How to deal with membership payment failures?

Taking minutes: Lutz Kunzmann (IOP secretary/treasurer)

News from our members

Visiting scholar at the State Museum of Natural History in Stuttgart: He, Wenlong

Wenlong has started his one year visiting study at State Museum of Natural History in Stuttgart (Germany). He will cooperate with Dr. Anita Roth-Nebelsick, study selected plant fossils, and the Cenozoic paleovegetation and paleoclimate in Europe and China.



Wenlong majored in geology as an undergraduate, continuously took a PhD program of Stratigraphy and paleontology (with a focus on paleobotany). In this period, he took a China-USA joint training PhD program and study in Tennessee for two years. As a graduate student, he took part in several geologic survey projects, and therefore he is also interested in field geology, as well as tectonics and sedimentology. Since 2013, Wenlong holds position at Xi'an University of Science and Technology (China), to collect and work on plant fossils, teach courses in Paleontology, Stratigraphy and Plate tectonics. In the past few years, he had collected a number of plant fossils from China and conducted various researches.

Selected publications:

He, Wenlong, Wang, Xiaojing. A Miocene flora from the Toupai Formation in Jiangxi Province, southeastern China. *Palaeoworld*, 2021, 30(4): 757-769.

<https://doi.org/10.1016/j.palwor.2020.12.006>

He, Wenlong, Xiao, Liang, Li, Xiangchuan, Guo, Shuangxing. An ancient example of *Platyclusus* (Cupressaceae) from the early Miocene of northern China: origin and biogeographical implications [J]. *Historical Biology*, 2018, 30(8):1123-1131.

<https://doi.org/10.1080/08912963.2017.1339038>

He, Wenlong, Sun, Bainian, Liu, Yusheng (Christopher). *Fokienia shenxianensis* sp. nov. (Cupressaceae) from the Late Miocene of eastern China and its paleoecological implications. *Review of Palaeobotany and Palynology*. 2012. 176-177:24-34.

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Obituary: Dr Nathalie Nagalingum (1975–2022)



Nathalie Nagalingum in the herbarium of the Swedish Museum of Natural History in Stockholm (photo provided by Stephen Mc Loughlin)

It is with sadness that I announce to the IOP community the untimely death of our dear colleague, Dr. Nathalie Nagalingum. Nathalie passed away on August 22nd this year, surrounded by her family in Melbourne, Australia, after a long battle with ovarian cancer.

Nathalie was born in Melbourne on 17th March, 1975, the daughter of Mauritian immigrants. She excelled in biological science at school and later studied botany at the University of Melbourne. She completed both her BSc Honours (in 1996) and PhD (in 2002) projects, under the supervision of Prof Andrew Drinnan and myself at that institution. Her BSc (Honours) project dealt with Early Cretaceous conifers (particularly an apparently deciduous form that she later described as *Bellarinea richardsii*) from the Gippsland Basin of southeastern Australia. Her PhD shifted towards an investigation of the systematics of Early Cretaceous ferns from Australia and Antarctica—incorporating material from both Museum Victoria in Melbourne and the British Antarctic Survey in Cambridge.

After her PhD, Nathalie switched to work predominantly on the genetics of extant non-flowering plants, but incorporated a strong morphological and molecular phylogenetic approach that welded the fields of paleobotany and neobotany. Her postdoctoral research was undertaken at a series of high-profile laboratories at Duke University, Harvard University, and The

University of California Berkeley, before taking up a position as a research scientist at the Sydney Royal Botanic Gardens. In 2012, she obtained a Churchill Fellowship to study the genomics and biodiversity of the endangered cycads of Australia and Asia. She travelled globally to carry out research on ferns and cycads and presented her results at numerous conferences where she was always well received. Owing to the threat of extinction facing many cycad species (from land clearing, slow rates of regeneration, population fragmentation, inappropriate fire regimes, poaching, and climate change), her interests progressively focused on conservation and rehabilitation issues related to these plants. In March 2017, Nathalie was appointed Associate Curator and McAllister Chair of Botany at the California Academy of Sciences, Berkeley. There, she oversaw the Academy's botany collection and continued to study the evolution and diversification of plants—particularly ferns and cycads.

Nathalie published around 30 papers on paleobotany and evolutionary biology. She was also passionate about museum science and opportunities to use her research results to promote broader conservation projects. She liked to remind her audience of the importance of plants in their day-to-day lives and of opportunities to preserve our collective botanical heritage.

Her varied scientific background and broad geographic experience in the plant sciences provided her with a strong capacity to innovate. Her openness to new ideas and techniques guaranteed that her research was consistently at the cutting edge of her field. Although cycads have a fossil record extending back to the late Paleozoic, giving them the label of 'living fossils' or 'relics from the age of dinosaurs', Nathalie's research, published in *Science*, transformed this view. Her investigations revealed that extant cycad species diverged within their respective genera only within the last 12 million years—although generic differentiation occurred earlier (in the Paleogene and Cretaceous). Her discovery transformed long-held assumptions about the evolutionary history of the 300 extant cycad species and identified their recent radiation as essentially synchronous with the last major phase of Earth cooling and drying.

Nathalie also conducted and published numerous interviews, podcasts, blogs and popular science articles on her research—regularly promoting the message of plant conservation in her work. In her scientific workplace and in general society, she championed the underdog—fighting against injustice and discrimination, especially with respect to migrants, refugees, women, and other marginalized groups. She also played an important role in mentoring younger researchers to make the world a more inclusive place.

A recent *gofundme* campaign to establish an award with the American Fern Society in memory of Nathalie was remarkably successful in raising over 36000 US dollars and attests to the esteem in which Nathalie was held. This award will greatly benefit the research lives of future students. Additional contributions can still be made to this award by contacting the American Fern Society Treasurer, Eric Schuettpelz (SchuettpelzE[at]si[dot]edu). A specimen of *Encephalartos lehmannii* (blue Karoo cycad) is also to be planted in the Melbourne Botanic Gardens in her honour.

Nathalie was a treasured friend, an inspiring scientist to her colleagues, and will be greatly missed. She is survived by her husband Magnus, younger brother Damien, and father Vij.

Stephen McLoughlin (Stockholm, Sweden)

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Obituary: Sergio Archangelsky

March 27, 1931 – July 10, 2022



Sergio Archangelsky in his office at the Argentine Natural Sciences Museum “Bernardino Rivadavia”-MACN. Buenos Aires, Argentina. Behind, the map showing part of Gondwana which most of his works were referred to (Photo provided by Georgina M. Del Fueyo).

The world known geologist, paleobotanist and biostratigrapher Sergio Archangelsky passed away on July 10, 2022, in his hometown Vicente López, Buenos Aires province, Argentina, at the age of 91. This loss will mark a break in the professional and personal lives of those that were his disciples, and all of those national and foreign paleobotanists who in one way or another felt attracted and impressed by his vast scientific and academic career. With his relevant studies, he promoted the knowledge of Paleobotany in Argentina giving a boost to the discipline in the country never before achieved.

Sergio Archangelsky was born on March 27, 1931 in Casablanca, Morocco, and at a very young age, he immigrated with his parents to Argentina where they settled down. His parents, Mikhail Archangelsky and Polina Ivanovna Axenova, initially settled in Comodoro Rivadavia city, province of Chubut where his father worked in the National Oil Company. It is in this rich fossiliferous Patagonian province where a young Archangelsky finds his strong vocation towards fossils when he was frequently on outings to the countryside looking for fossil remains. Then, the family moved to Buenos Aires province where Sergio Archangelsky graduated with a Bachelor's degree in 1948 from the National College of Buenos Aires and in 1954, he graduated as a Geologist from the University of Buenos Aires (UBA). His definitive vocation for Paleobotany was determined while taking the Botany course at the university. Thus, in 1957 he obtained the PhD degree in Natural Sciences with a Geological orientation, at the UBA, with the study of Permian plants from Patagonia. During the years 1956 to 1959, he was Professor of Paleontology and Geology at the University of Tucumán and from 1961 to 1978 Professor of Paleobotany at the Faculty of Natural Sciences and Museum of the National University of La Plata. In 1961, he entered

in the Researcher's Career at the National Council of Scientific and Technological Research (CONICET) and after outstanding long years as Senior Researcher, he was named Emeritus Researcher in 2013. He was head of the Paleobotany and Palynology Research Unit of the Geological Resources Research Center (CIRGEO) of CONICET from 1975 to 1982. Then, after a two-year stay in the Biology Department of the Faculty of Exact and Natural Sciences of UBA, he moved to the Argentine Museum of Natural Sciences "Bernardino Rivadavia" - MACN- where he continued developing his research activities for more than 30 years until his retirement in 2017. At this institution, he was head of the Paleobotany Department and Curator of the National Collection of Paleobotany (BA Pb) for 20 years. He was also responsible for the creation and many times for the reorganization of the Paleobotany collections in Tucumán and La Plata universities, CIRGEO and MACN.

Dr. Archangelsky's scientific legacy reaches 271 publications among books, edited symposia, book chapters and articles in periodical journals (see below). He did research on taxonomy, biodiversity, paleoecology, biostratigraphy of the macro and microplants of the Late Paleozoic, Mesozoic and Paleogene fossil plant assemblages from southern South America and its relationship with the rest of Gondwana. Of these works, 35% is dedicated to the Carboniferous and Permian periods, 2% to the Triassic, while 43% to the Cretaceous, 5% to the Paleogene and the remaining 15% deals with general topics. In these contributions, he revealed a significant number of new genera and species that include spores, megaspores and pollen grains as well as megascopic remains of plant fossils. Worthing to note is that Dr. Archangelsky, in the 1970s, published a textbook in Spanish "Fundamentos de Paleobotánica" which included for the first time plant fossils from Argentina. This textbook, also known as "the Archangelsky", is still consulted among teachers and students from different colleges of Argentina and Latin America. He was always at the forefront of the techniques for the processing and study of plant fossils. He pioneered in Argentina, in the 1950s, the appropriate techniques for the recovery of palynomorphs, as well as, in the 1980s, introduced the techniques to observe the ultrastructure through the transmission electron microscope in cuticles, spores and pollen grains. Also, in the 1970s, he encouraged the use of the scanning electron microscope for the observation of palynomorphs and cuticles by discovering its great resolution power and revealing morphological and anatomical aspects that the optical microscope does not allow.

Dr. Archangelsky's sharp and critical analysis as well as his particular vision of plant fossils were often the foundation of new and innovative research lines in Paleobotany. The "Archangelsky- style "of his works is marked by the advanced interpretations and that is the reason why his papers are continuously consulted and became a constant source of inspiration.



Kchaikestrobis acuminatus Del Fueyo, Archangelsky, Llorens & Cúneo 2008 (scale=1 cm). A Cheirolepidiaceae seed cone from the Albian Piedra Clavada Formation outcropping in Santa Cruz Province, Argentina (photo provided by Georgina M. Del Fueyo).

During his career, he was awarded with numerous distinctions: the Paleontological Merit Award of the Argentine Paleontological Association (1992), the Franco Pastore Award of the Argentine Geological Association (1987), the Cristóbal M. Hicken Award (triennium 1983-1985) from the National Academy of Exact Physical and Natural Sciences (1990), the “Golden Palynomorph” Award from the Latin American Association of Paleobotany and Palynology (1999) and the Merit Diploma from the Konex Foundation (1993). He was named Corresponding Member of the Botanical Society of America (1975), Corresponding Academician of the National Academy of Sciences of Córdoba (1990), Corresponding Member of the Society of Palaeobotany (1997) and Honorary Vice President of the 7th International Botanical Congress (2000). He was Distinguished Visiting Professor at the Federal University of Rio Grande do Sul (1970-1973, 1981) and at the University of Sao Paulo (1974)-Brazil, and at the Ohio State University-USA (1984).



Sergio Archangelsky in the palaeobotanical collection of the Argentine Natural Sciences Museum "Bernardino Rivadavia"-MACN. Buenos Aires, Argentina (Photo provided by Georgina M. Del Fueyo).

Sergio Archangelsky was President and Vice President during several periods (1961-1975) of the Argentine Paleontological Association and the Latin American Association of Paleobotany and Palynology (1974-1978, 1984-1988). He was also Vice President of the International Palaeontological Association ((1977-1984) and of the International Organization of Palaeobotany (1981-1986). He was editor-in-chief of *Ameghiniana* (1990-1994) and member of the International Committee of Botanical Nomenclature (1969-2003). At the same time, he was member of the editorial boards of several national and international journals: *Journal of South American Geology* (1988-1996), *Journal of the Argentine Geological Association* (1997-2003), *Ameghiniana*, *Review of Palaeobotany and Palynology*, *Spanish Journal of Paleontology*, *Journal of the Argentine Museum of Natural History "Bernardino Rivadavia"*, *Acta Palaeobotanica Polonica*, *Acta Botánica Mexicana* and *Journal of the Brazilian Geological Institute*.

His skills as mentor are reflected in a long list, about 30, of masters and PhD dissertations he supervised both from Argentina as well as from Brazil, Chile and Uruguay. Many of these students became mentors as well, building up a significant "Archangelskyanan" paleobotanical-net in their countries.

Dr. Archangelsky was a disciplined, calm person who spoke slowly and used precise words. The conviction of his ideas transformed formal conversations or informal chats into highly enriching and inspiring moments. We will miss his talks about the discipline he loved so much. The entire paleobotanical community has lost a great researcher and an exceptional teacher. He will always be with us.

Georgina M. Del Fueyo (Buenos Aires, Argentina)

Chronological Bibliography of Sergio Archangelsky

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Upcoming meetings

2nd Asian Palaeontological Congress August 3–7, 2023, Tokyo, JAPAN

<https://www.apc2.org/?fbclid=IwAR1IDYRXDJ751dQ8pkmULhOBrBX8WG433MVHtQurTBewn5RS9WIU7y1ZMY>

Here is the link to 1st circular

https://www.apc2.org/pdfs/APC2_1st_circular.pdf

XV International Palynological Congress / XI International Organization of Palaeobotany Conference May 25–31, 2024, Prague, Czech Republic

More information coming soon. Please visit homepage: <https://www.prague2020.cz/news.php>

XX International Botanical Congress July 21–27, 2024 Madrid, Spain

IBC-2024 Newsletter 1 - July 2022. Call for Symposia

Dear Colleagues and Friends,

Two years ahead of the XX IBC, we are pleased to launch the Call for Symposia. We encourage researchers worldwide to submit symposium proposals on a variety of topics through the [IBC website](#). The call for symposia will remain open until December 30th, 2022. Symposia constitute a very important component of the XX IBC, please submit a proposal and help shape the meeting's program! Also note that diversity of speakers in terms of gender, career stage, and geography will be one of the criteria for selecting proposals. Symposium proposals that bridge two or more of the 31 proposed topics, including novel views and/or multi-disciplinary research perspectives, are especially encouraged.

Best regards,

The Organizing Committee of the XX IBC.

Call for symposia

Proposal submission now available! The scientific committee will evaluate symposium proposals based on potential audience interest, scientific quality, and diversity of speakers in terms of gender, career stage, and geography, among others. Symposium proposals that bridge

two or more of the 31 proposed topics, including novel views and/or multi-disciplinary research perspectives are especially encouraged. We will make an effort to accept as many proposals as possible. Each symposium will last for 2 hours and will consist of six 20-minute oral communications (15 min presentations + 5 min Q&A). To maximize the interchangeability of participants among concurrent symposia, changes to this schedule will not be allowed. **Deadline for symposium proposals 30 December 2022.** [Proposal Submission](#)

Topics

- | | | |
|-------------------------------------|---------------------------------|---|
| 1. Agroforestry Systems | 2. Bioinformatics | 3. Biogeography / Phylogeography |
| 4. Botanical History | 5. Bryology | 6. Comparative Genomics / Transcriptomics |
| 7. Conservation Biology | 8. Crops and Wild Relatives | 9. Development and Structure |
| 10. Ecology and Plant Communities | 11. Ecophysiology | 12. Education and Outreach |
| 13. Ethnobotany | 14. Floristics | 15. Functional Genetics |
| 16. Global Change Ecology | 17. Hybrids and Hybridization | 18. Mycology and Lichenology |
| 19. Macroevolution | 20. Paleobotany / Archaeobotany | 21. Phycology |
| 22. Phylogenetics and Phylogenomics | 23. Physiology | 24. Plant, Animal, and Microbe Interactions |
| 25. Plant Biotechnology | 26. Palynology | 27. Population Genetics |
| 28. Pteridology | 29. Restoration Ecology | 30. Reproductive Biology |
| 31. Systematics | | |

12th European Palaeobotany and Palynology Conference, 2026

Thank you to all who attended and contributed to the 11th EPPC meeting in Stockholm in July 2022. The attendance of so many delegates immediately after the lifting of COVID travel restrictions made the conference a great success. A host institution for the 12th EPPC in 2026 has now been confirmed, and an official announcement with preliminary details will be made in the next IOP Newsletter.

Stephen Mc Loughlin (Stockholm, Sweden)

Disclaimer:

Newsletter edited by Lutz Kunzmann & Steven Manchester.

The views expressed in the newsletter are those of its correspondents, and do not necessarily reflect the policy of IOP.

Newsletters are regularly issued in February, June and October every year.

Please send us your contributions for the next edition of our newsletter (130) until end of February 2023. Contributions should be sent to Lutz.Kunzmann@senckenberg.de.

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