

IOP NEWSLETTER 130

March 2023

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Letter from the president

Dear Colleagues,

It seems that the worst of the Covid 19 pandemic may be behind us now and we welcome the return of "in person" regional and international conferences which--for so many years--we accepted as normal. I hope that you find the opportunity to enjoy the chance to meet with other paleobotanists face-to-face in 2023. Now we encounter additional challenges with ongoing unjustified war that affects the economic situation in many countries as well as the terrible situation caused by indiscriminate bombing of herbaria, museums as well as homes and schools as has occurred during the past year in Ukraine. Nevertheless, there is room for optimism that these things will pass and that peaceful research and education will continue to thrive throughout the world.

We thank Harufumi Nishida for representing IOP at the meeting of the 34th Assembly of the International Union of Biological Sciences tob e held in Chuo, Japan. His welcoming address as chair organizer will be posted at https://iubs34th-ga.r.chuo-u.ac.jp/welcome-address/

Thank you to those who have kept up-to-date with your membership in IOP. Dues are due by the start of each year, and can be paid online via Palaeobotany.org. **Welcome new members in 2022 and 2023** (so far): **Nicolas Gentis** (Muséum National d'Histoire Naturelle Paris, France), **Maria Groumpou** (University of Patras, Greece), **Sarah A. Maccracken** (Denver Museum of Nature and Science, USA), **Michael Schmidt** (Munich, Germany), **Swati Tripathi** (Birbal Sahni Institute of Palaeosciences, Lucknow, India), **Zane Walker** (Oregon State University, Corvallis, OR, USA).

Indah Huegele deserves special thanks for her work in maintaining and upgrading the IOP website. We've recently added biographies, long overdue, for Kaspar Sternberg, and Harry D. MacGinitie, but there are many influential paleobotanists who are not yet included in our pages. Who do you consider most influential in your own paleobotanical career? We welcome new additions for this site: https://palaeobotany.org/index.php/palaeobotanist-biographies/

In this newsletter, we feature an article on the Palaeontographica Abt B, a journal long known for welcoming longer articles and monographs and for the quality of its image reproduction. We would like to continue this series with other paleobotanical journals. Contributions from the editors of those journals are quite welcome.

In forthcoming issues of this newsletter, we also want to continue our series on featured paleobotanical collections. Proposals which collections should be introduced and articles are therefore quite welcome too. For examples please read our newsletters 124, 126 and 128, available online in the newsletter archive at https://palaeobotany.org/index.php/members-lounge/newsletter-archive-2/

Sincerely,

Steve

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

News from XV IPC / XI IOPC 2024 Prague, Czech Republic

The XI International Organization of Palaeobotany Conference will be held in Prague, May 27th to 31st, 2024 at the Clarion Congress Hotel Prague. This is the postponed conference that had to be cancelled due to the Covid pandemic in 2020, the jubilee year of 200 years of palaeobotany.

All information regarding the conference will be continually updated on the conference website: https://www.prague2020.cz/

New information concerning symposia and early registration will be posted there in March, 2023. There are preliminary deadlines for calls for symposia (01-JUN-2023), abstract submission (01-DEC-2023) and early registration (01-DEC-2023).

Field trips will be the same as those planned in 2020, but will take place both before and after the conference. The field trip to Chemnitz is cancelled.

You can follow us also on Facebook: https://www.facebook.com/ipciopc2020

We look forward to seeing you all.

Jiří Kvaček, on behalf of the organizing committee

Announcement: 12th EPPC 2026 Münster, Germany

Following repeated requests and friendly nudges during our last EPPC meeting in Stockholm, we are happy to announce that the 12th EPPC in 2026 will be co-hosted by the Palaeobotany Group (University of Münster) and the LWL-Museum of Natural History in Münster, Westphalia, Germany.

Münster is a beautiful medium-sized city in the heart of the Münsterland Cretaceous Basin, steeped in more than 1200 years of history. The city spawned the Anabaptist Rebellion during the Protestant Reformation in 1534, and hosted the signing of the Treaty of Westphalia, which ended the Thirty Years' (or Eighty Years') War in Europe in 1648. Münster is the cultural centre of Westphalia and a famous "bicycle capital" of Germany.

Science has always shaped the image of the city. As one of the largest academic locations in Germany, it has around 60,000 students at nine universities and colleges. With more than 43,000 students and over 120 fields of study in 15 departments, the University of Münster is Germany's fifth largest university and one of the foremost centres of German intellectual life.

The Palaeobotany Research Group was founded in 1968 by Winfried Remy, a student of Walter Gothan in Berlin. As an enthusiastic palaeobotanist couple with a special interest in Palaeozoic plants, Winfried and Renate Remy established Münster as a renowned centre of palaeobotanical research that received international recognition especially for the pioneering

work on Rhynie Chert gametophytes. The research scope of the Münster group was broadened further when Hans Kerp was appointed professor for palaeobotany upon Remy's retirement in 1991. Throughout his intensely productive and successful career, Hans further expanded Münster's palaeobotanical expertise, not the least through his fruitful mentorship that spawned abundant academic offspring. Notably, you are invited by two former PhD students of Hans that now continue the palaeobotanical tradition in Münster: Christian was appointed the first palaeobotanist at the LWL-Museum of Natural History in 2017, and Benjamin succeeded Hans in 2020 as professor of palaeobotany at the Institute of Geology and Palaeontology.

It is therefore a great honour for us to host the 12th EPPC in 2026 in Münster, the Westphalian city of peace. We are very much looking forward to welcome you all here in Münster in 2026!

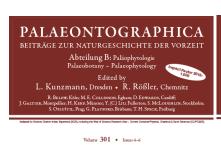
Benjamin Bomfleur & Christian Pott

Introducing featured journals: Palaeontographica B

Established in 1864 as *Palaeontographica*. *Beiträge zur Naturgeschichte der Vorwelt* [Palaeontographica. Contributions to natural history in prehistoric time], the palaeontological journal was subdivided into sections A (Palaeozoology Stratigraphy) and B (Palaeobotany) in 1933. Volume 304 of section B was published in 2022. It is thus one of the oldest and continuously publishing journals in palaeobotany worldwide. Since 1885 the journal has been reliably published by Schweizerbart Science Publishers in Stuttgart (Germany). Well-known and esteemed palaeobotanists and palaeo-palynologists are among the long lists of its editors-inchiefs and editorial board members, for instance Paul Bertrand, Wilhelmus J. Jongmans, George R. Wieland, William G. Chaloner, Suzanne Leclercq and Dieter H. Mai.

From the beginning *Palaeontographica B* (*Pal B*)was often the choice as the appropriate journal to publish longer, monographic articles on the taxonomy and systematics of fossil plants, and it is still the journal's distinguishing feature to publish articles with a maximum of about 100 pages including figures and/or plates (see sample volume covers below).

Pal B endeavors to conserve traditional and highest publication standards as is evident by maintaining exceptional quality of the printed journal, free author reprints, and retaining the journal's traditional large page format. From peer-review to the proof corrections, all processes are conducted by the editors-in-chiefs and the editorial manager who are in close individual contact to the authors. Nevertheless, current standards in science publishing have been facilitated over the last years as well. Instead of 40 covered reprints per article high-resolution pdf files can be ordered by authors. The referencing style has been adapted to widely-accepted practice by providing an EndNote style, while maintaining the traditional use of small capitals for author names.







Amajida Roslim, Antonino Briguglio, László Kocsis, Sulia Goeting & Christa-Ch. Hofmann
Palymology of Miocene sediments in Brunei Darussalam: first
SEM investigations of pollen and spores, and their taxonomy and
palaecen

Volume 302 • Issues 1–6

Editorial

Ronny Rößler, Anne-Laure Decombeix, Jean Galtier, Rodrigo Neregato, Sandra Niemirowska, & Robert Noll

Sandra Niemitrowska, & Robert Noil
The limits of life revealed in a silicified micro-ecosystem: Sphenophyllum stems, leaves, and roots trapped inside an arthropod boring in a Permian calamitalean (Pages 3–35. With 8 plates and 1 text-figure)

Martina Dolezych, Ben A. LePage, & Christopher J. Williams A Chartian-Aquitanian wood flora from the West Siberian Plain: Implications for regional palaeobiogeography (Pages 37–169. With 24 plane, 6 text-figure, 6 tables and 2 appendices) Volume 304 • Issues 5-6

Jan Unverfärth, Stephen McLoughlin & Benjamin Bomfleur Mummified Dicroidium (Umkomasiales) leaves and reproductive organs from the Upper Triassic of South Australia (Pages 149-225, With 20 places, 5 rext-figures and 1 table)







Pal B supports and encourages the voluntary test phase for the registration of any new taxon name or any other nomenclatural act in the Fossil Plant Names Registry Database (https://www.plantfossilnames.org) that is providing a Fossil Plant Names Registry IDs for the published nomenclatural act.

Pal B team hopes to continuously be an attractive journal for the fossil-plant-science community. For more information, content of published volumes and the guidelines for authors please visit https://www.schweizerbart.de/journals/palb.

Lutz Kunzmann and Ronny Rößler (Editors-in-chief) Andreas Nägele (Schweizerbart Science Publishers)

Meeting report: MPC 2022 and Beyond

MPC 2022

The 39th Annual Midcontinent Paleobotanical Colloquium (MPC) was hosted generously by Peter and Eleanor Crane at the estate of the Oak Spring Garden Foundation (OSGF, https://www.osgf.org/), near Upperville, in the rural Virginia Piedmont, from Friday May 6th to Sunday May 8th, 2022. This annual regional conference was founded by Gar W. Rothwell in 1983 with the first meeting being held at the Field Museum of Natural History in Chicago. Since then the meeting has moved among 30 different venues in 21 states plus Washington DC. It has been held as far northwest as Seattle, Washington, as far south as Gainsville, Florida, as far east as Raleigh/Chapel Hill, North Carolina, and as far northeast as New Haven, Connecticut.

This meeting has always served as an opportunity for paleobotany students, faculty, and fossil enthusiasts to meet informally and discuss current research, with a special emphasis on students and their research projects.



39th Midcontinent Paleobotanical Colloquium, group photo. 2022. Photograph courtesy of Peter Crane.

The 2022 venue, the estate of Oak Spring Garden Foundation, was the home of Rachel Lambert "Bunny" Mellon and her racehorse-breeding husband Paul Mellon. Today it is a destination for writers, artists and others a few hours west of Washington DC. Sir Peter Crane is director/president of Oak Spring Garden Foundation. He and Eleanor live on the premises which boasts over 700 acres that includes a conference center, lodging quarters, a greenhouse, library and a series of gardens. Peter not only hosted the meeting but provided food, lodging and local transportation to the 60-some individuals who enthusiastically participated.



Oak Springs Garden Foundation estate. At left: the main house. At right: Participants exploring the grounds. Photographs courtesy of Ruth Stockey.

The meeting was particularly anticipated and somewhat poignant as for many attendees it was the first in-person meeting since CoVid started in 2020. The MPC meeting in 2020 was held remotely by the Caroline Strőmberg lab, University of Washington in 2020 and in 2021 by a

coalition of Stromberg, Cindy Looy, University of California, Berkeley and Ellen Currano, University of Wyoming. These meetings offered a new experience of long-distance connection that was necessary at the time, but we surely enjoyed a return to the in-person mode.

The 2022 meeting at Oak Spring was a very rainy, very green experience, especially for my native Arizonan graduate students who were new to the intensity of a Southern spring. Masks were worn indoors in the main lecture hall (a renovated granary) that served also as the place for breakfast and breaks. An open-air covered dining area was used for lunches and dinners. Participants were housed in comfortable quarters that formerly served as horse stables. I can attest to a very comfortable bed and lots of beautiful art and nature coffee table books that tempted one to curl up and read. A shuttle service brought participants from lodging to the meeting room and ferried participants around the extensive grounds, greenhouse and beautiful library.



Oak Springs Garden Foundation estate. At left: Broodmare Barn renovated as lodging; Center: Main convention meeting room (former Granary); At right: Potting shed looking out into greenhouse. Photographs courtesy of Ruth Stockey.

Highlights included plenary talks by a virtual Susanna Magallon on Friday and an inperson Maria Alejandra Gandolfo on Saturday night. Susanna's talk outlined progress in assessing angiosperm phylogeny with a paleobotanical perspective. Alejandra's was a personal reflection on teaching and garnering enthusiasm to combat "plant blindness" and included a tour of her localities and favorite sites in Patagonia, Argentina. On Saturday presentations were given in the main lecture hall, along with a well-received poster session highlighting student projects during lunch.

For those who were able to stay through Sunday a special treat was in store: we were transported by shuttle into Washington, D C., to the National Museum of Natural History (Smithsonian Institution) where we were greeted by Scott Wing and Kirk Johnson. Kirk led a tour of the new exhibit, "Fossils - Deep Time". We stopped on the way home at a lovely Italian restaurant for a supper, and, because it was Mother's Day there were roses for the ladies. I

think that everyone who attended had a great time and we are all very thankful to Peter and Eleanor for hosting this special event.

BEYOND

This past year Gar W. Rothwell, founder of the MPC program, asked me to help coordinate future meetings. I am happy to do so and I welcome ideas and invitations for hosting the meeting in the coming years. For 2023, Steve Manchester and his lab have graciously offered to host the 40th MPC meeting in Gainesville, Florida at the University of Florida/Florida Natural History Museum on Friday April 21 through Sunday April 23. Details are accessible at: https://www.floridamuseum.ufl.edu/paleobotany/paleobotany-palynology-collection/the-40th-mid-continent-paleobotanical-colloquium-mpc/

Kathleen B. Pigg, Arizona State University, Tempe, AZ, USA

News from our members

Dr. Gussie Maccracken is now the Assistant Curator of Paleobotany at the Denver Museum of Nature & Science in Denver, Colorado, USA. She brings an expertise in fossil plants and their ecological associations with insect herbivores to the ~100,000 specimen paleobotanical collection at the DMNS. Her research focuses on Late Cretaceous—Paleogene ecosystems through the lenses of paleoecology, paleobiogeography, and taxonomy.



Dr. Maccracken grew up in Ohio, USA, as an avid nature lover and outdoor enthusiast. She fell in love with the field of paleobotany while interning for Dr. Ian Miller (National Geographic Society, former DMNS curator) as an undergraduate. After graduating from Colorado College in 2011 with a BA in Biology, she worked as a fossil preparator before moving to Washington DC for graduate school. In December of 2020, Dr. Maccracken earned a PhD in Entomology from the University of Maryland and was co-advised by Dr. Conrad Labandeira at the Smithsonian Institution National Museum of Natural History. She then served as a National Science Foundation (USA) Postdoctoral Research Fellow in Biology working on fossil landscapes

across the Cretaceous–Paleogene mass extinction at the DMNS until landing her current position at curator.

- Dr. Maccracken welcomes researchers and students to visit the paleobotanical collections at the DMNS, which are particularly strong in Mesozoic and Cenozoic floras from the Western Interior of the USA. Her email address is Gussie.Maccracken@dmns.org and recent publications include:
- Maccracken SA, Miller IM, Johnson KR, Sertich JJW, & Labandeira CC. 2022. Insect herbivory on *Catula gettyi* gen. et sp. nov. (Lauraceae) from the Kaiparowits Formation (Late Cretaceous, Utah, USA). *PLoS ONE*. 17(1), e0261397.
- Swain A, Azevedo Schmidt LE, Maccracken SA, Currano ED, Dunne J, Labandeira CC & Fagan WF. 2022. Sampling bias and the robustness of ecological metrics for plant–damage type association networks. *Ecology*. Accepted, in press.
- Serrano-Brañas CI, Espinosa-Chávez B, **Maccracken SA**, Barrera Guevara D, Torres-Rodríguez E. 2022. First record of caenagnathid dinosaurs (Theropoda, Oviraptorosauria) from the Cerro del Pueblo Formation (Campanian, Upper Cretaceous), Coahuila, Mexico. *Journal of South American Earth Sciences*. 119, 104046.
- Moreno-Domínguez R, **Maccracken SA**, Santos AA, Wappler T. 2022. Plant–insect interactions from the Late Oligocene of Spain (La Val fossil site, Estadilla, Huesca) and their palaeoclimatological implications. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 586, 110782.
- Maccracken SA, Sohn J–C, Miller IM, & Labandeira CC. 2021. A new Late Cretaceous leaf mine Leucopteropsa spiralae gen. et sp. nov. (Lepidoptera: Lyonetiidae) represents the first confirmed fossil evidence of the Cemiostominae. Journal of Systematic Palaeontology. 19(2), 131–144.
- Currano ED, Azevedo-Schmidt LE*, **Maccracken SA***, Swain A*. 2021. Scars on fossil leaves: An exploration of ecological patterns in plant—insect herbivore associations during the Age of Angiosperms. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 582, 110636. *Authors contributed equally.
- Xiao L, Labandeira CC, Yair B-D, **Maccracken SA**, Shih C, Dilcher DL, Ren D. 2021. Early Cretaceous mealybug herbivory on a laurel highlights the deep-time history of angiosperm—scale insect associations. *New Phytologist*. 1–10.
- Swain A, Maccracken SA, Fagan WF, Labandeira CC. 2021. Understanding the ecology of host plant—insect herbivore interactions in the fossil record through bipartite networks. *Paleobiology*. DOI: 10.1017/pab.2021.20.
- Maccracken SA & Labandeira CC. 2020. The middle Permian South Ash Pasture locality of north-central Texas: Coniferophyte and gigantopterid herbivory and longer-term herbivory trends. International Journal of Plant Sciences. 181(3), 342–362.
- Schachat SR, Maccracken SA, & Labandeira CC. 2020. Sampling fossil floras for the study of insect herbivory: how many leaves is enough? *Fossil Record*. 23(1), 15–32.
- Maccracken SA, Miller IM, & Labandeira CC. 2019. Late Cretaceous Domatia Reveals the Antiquity of Plant–Mite Mutualisms in Flowering Plants. *Biology Letters*. 15(11), 20190657.
- Lyson TR, Miller IM, Bercovici AD, Weissenburger K, Fuentes AJ, Clyde WC, Hagadorn JW, Butrim MJ, Johnson KR, Fleming RF, Barclay RS, **Maccracken SA**, Lloyd B, Wilson GP, Krause DW, & Chester SGB. 2019. An Exceptional Continental Record of Biotic Recovery after the Cretaceous—Paleogene Mass Extinction. *Science*. eaay-2268.

Obituary: Eva Purkyňová (November 2, 1933 – November 27, 2022)



Dr. Eva Purkyňová was the last palaeobotanist working in the Namurian (Serpukhovian) of the Upper Silesian Basin (Czech Republic). She was born on November 2, 1933 in Ostrava, where in 1951 finished her secondary studies. She graduated the Masaryk University, Faculty of natural sciences in 1955. After graduation, she was employed in the Geological prospection in Ostrava as a specialist for the Carboniferous flora till 1967, when she changed her position to Silesian Museum in Opava. She was promoted as Ph. D (then CSc.) in 1964 in Brno with thesis on Mississipian (Namurian) flora prom boreholes of the Upper Silesian Basin.

She founded the Palaeontological department in the Silesian Museum and organised and enlarged its collections about founds from the Devonian, Carboniferous and Mesozoic. Her focus in the Geological prospection in Ostrava and later also in the Silesian Museum in Opava was in palaeobotanical evaluation of deep boreholes. She obtained a great knowledge on the Namurian and Westphalian floras of the Ostrava-Karviná Coal District. During the boom of drilling prospection, she evaluated about 1,400 boreholes (with more than 60 000 specimens) within 40 years of her career. Apart the Ostrava-Karviná Coal District, she worked also in Beskydy-Frenštát Region and in the Němčice Basin in South Moravia. She refined floral biozones for the Upper Silesian Basin and described about 50 new species so that we have got circa 280 plant species from the Upper Silesian Basin. Except unpublished borehole reports, she published 75 papers and abstracts.



Eva Purkyňová (second person from the right) and colleagues during a field trip in West Virginia, USA.

After the World War II, it was difficult to keep international connections; nevertheless Dr. Eva Purkyňová cooperated with her Polish colleagues Adam and Anna Kotas and Teresa Migier, German colleague Rudolf Daber and Bulgarian colleague Yanaki Tenchov with whom she travelled to the Bulgarian Svoge Basin for collecting the fossil plants, that were published by her in 1969. The opportunity for establish new contacts was in the International Geological Congress in Prague in 1968. It was foiled by arrival of the Soviet Red army and cancelling the Congress before its start in the fact. Dr. Eva Purkyňová could to know new colleagues on the congress in Moscow in 1975, where e.g. make friends with Dr. R. Leary, from the U.S.A. and their common interest was the Namurian floras.

After the "Velvet Revolution" in Prague, Eva Purkyňová took part in the Czech-U.S. Carboniferous Paleobotany Workshop organised by R. Leary and sponsored by NSF. It took place in Springfield, Illinois in October 1994. Eva Purkyňová had success with her lecture on the Namurian flora of the Upper Silesian Basin (Czech Republic). A friendship with R. A. Gastaldo, H. Pfefferkorn and W. A. DiMichele began at that time. Owing to this event, Eva Purkyňová visited the I. Bell Symposium organised by E. Zodrow in Sydney, Nova Scotia, Canada in 1995. Two Czech-U.S. and also U.S.-Czech-Polish-Ukraine projects sponsored by NSF followed. Here E. Purkyňová payed interest on her long-time experiences with Namurian flora. In 1996–1998 she had an opportunity to study also the American flora in the Appalachian Basin and in 2003–2006 continued participation in the international NSF project with Polish and Ukrainian colleagues.



Eva Purkyňová (middle) and colleagues (from left to right: Adam Kotas, Albin Żdanowski, Aleksandra Trzepierczyńska, Anna Kotasowa, Vitaly Schulga and Teresa Migier. and Hermann Pfefferkorn) in front of the University of Pennsylvania in Philadelphia, U.S.A in May 2004.

Apart from this research activity, Eva Purkyňová was executive editor of the journal Acta Musei Silesiae in Opava since 1973 till her total retirement in 2008. Her last publications were printed in 2009. Eva Purkyňová died after a short disease in November, 27, 2022 in Opava (Czech Republic). May the earth be easy for her.

Zbyněk Šimůnek (Prague, Czech Republic)

Important references of Eva Purkyňová:

Purkyňová, E. 1967. Fitostratigrafia serii karbońskej moravsko-śląskej części Górnośląskiego Zaglębia węglowego. Rozc. Pol. Tow. Geol. Vol. 37 (1): 19–124. Kraków (in Polish).

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Purkyňová, E. 1971. New species of *Lonchopteris* and *Neuropteris* from the Westphalian A, Upper Silesian Basin (Czechoslovakia). Sbor. geol. Věd, P. 13, 159–178. Praha.

- Purkyňová, E. 1977 Namurian flora of the Moravian part of the Uppr Silesian Coal Basin. Symposium on Carbonif. Strat. (Ed. Holub, V.M. and Wagner, R.H.), 289–301 Ústř. Úst. Geol. Praha.
- Purkyňová, E. 1995. Namurian macroflora and goniatite zonation in the Czech part of the Silesian Basin. (Abstarct) In: Walter A. Bell Memorial symposium. Paleobotany and Coal Science: Euramerican Carboniferous Paleobotany and Coal Geology., p. 35. Sydney, Nova Scotia, Canada. University College of Cape Breton.
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- Gastaldo, R. A. Purkyňová, E., Šimůnek, Z., Drábková, J., Eble, C. 2000. Patterns of vegetational persistence in coastal and continental interiors of the Carboniferous Icehouse, Upper silesian Coal Basin, Czech Republic. (Abstract). In: 2000 Annual Meeting, Reno, Nevada, U.S.A.
- Gastaldo, R. A., Purkyňová, E., Šimůnek, Z, Eble, C. F. 2004. Ecological Patterns of stability in the Namurian to Langsettian of the Silesian Basin, Czech Republic. (Abstract). IOP Conference, Bariloche, Argentina.
- Gastaldo, R. A., Purkyňová, E., Šimůnek, Z. 2006. Terestrial ecosystem stability in the Serpukovian (Namurian) to Bashkirian (Langsettian) of the Silesian Basin, Czech Republic. In Giegengack, R., Scatena, F. N: 2006 Philadelphia Annual Meeting (22-25 October 2006), Geological Society of America, Abstracts with Programs, p. 316. The Geological Society of America. Boulder.
- Šimůnek, Z., Gastaldo, R. A., Purkyňová, E. 2006. Comparison of megafloral changes across the Barbora and Enna marine zones, Ostrava Formation (Serpukhovian [Namurian A]), Upper Silesian Basin, Czech Republic. In Giegengach, R., Scatena, Frederick, N: 2006 Philadelphia Annual Meeting (22-25 October 2006), Geological Society of America, Abstracts with Programs, p. 316. The Geological Society of America. Boulder.
- Gastaldo, R. A. Purkyňová, E., Šimůnek, Z. Schmitz, M. D. 2009. Ecological persistwence in the Late Mississipian (Serpukhovian, Namurian A). Palaios, 24: 336–350.
- Gastaldo, R. A. Purkyňová, E., Šimůnek, Z. 2009. Megafloral perturbation across the Enna Marine zone in the Upper Silesian Basin attends to Late Mississipian (Serpukhovian) deglaciation and climate change. Palaios, 24: 351–366.

Upcoming meetings

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

For more information please visit: https://www.apc2.org

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

For more information please visit: https://www.prague2020.cz/news.php

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

For more information please visit: https://ibcmadrid2024.com/

12th European Palaeobotany and Palynology Conference, 2026, Münster, Germany

For more information please read announcement on p. 3 of this newsletter.

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 (131) until end of May 2023. Contributions should be sent to Lutz.Kunzmann(at)senckenberg.de.

Homepage: www.palaeobotany.org

https://www.facebook.com/International-Organisation-of-Palaeobotany-543548202500847/

https://twitter.com/hashtag/paleobotany?lang=en

https://www.instagram.com/explore/tags/paleobotany/?hl=en