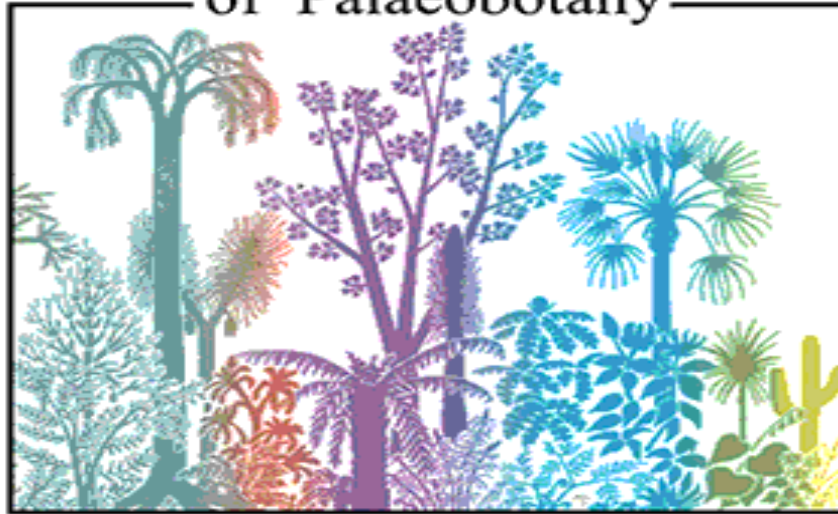


International Organisation of Palaeobotany



IOP NEWSLETTER 125

July 2021

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Letter from the president

Hello colleagues,

I hope you are remaining safe as the pandemic continues to be problematic in many places. Due to postponement of the 2020 Prague IOPC, our election of officers has been postponed to the rescheduled conference in 2024. It should be noted that our bylaws indicate elections are to be held in conjunction with IOPC. This created a dilemma when the conference was postponed by 4 years. Thus, we considered a separate special election in conjunction with EPPC 2022, but noted that resulting new officers would have a shortened term of service when returning to the normal cycle of elections in 2024. Therefore, current officers have agreed to continue serving during the interim until the next regular IOPC in 2024. Thank you very much for your willingness!

The open international NECLIME network (Neogene Climate Evolution in Eurasia; <<https://www.neclime.de/>>) continues to be active with recent and forthcoming online meetings. Many of the NECLIME members are palaeobotanists and palynologists; some of them are members of the General Coordination team of the network. Please see a summary of their recent meetings and forthcoming opportunities below (p. 3).

We are pleased to relay that the 11th European Paleobotanical and Palynological Conference (EPPC) has been announced as an in-person meeting to be held in Stockholm Sweden, 19–22 June, 2022. Please see details of venue, and procedures for registration and proposals of workshops and symposia presented on p. 8, below. IOP will apply for a business meeting to be held during EPPC.

This newsletter also includes some updates on relevant conferences:

From Gondwana to Laurasia: 6th International Palaeontological Congress will be held in Khon Kaen, Thailand. 7-11th November 2022. See p. 18 and for more details visit: <https://ipc6.msu.ac.th/> The palaeobotanical community will be actively present with topics including, for example, "The Evolution of Forest Ecosystems: Dead trees and the stories they tell" proposed by Nareerat Boonchai, Yongdong Wang and Marc Philippe, and "Understanding Asian Cenozoic landscape and climate evolution", by Su Tao, Gaurav Srivastava and Robert A Spicer.

The International Botanical Congress which has been scheduled for 2023 in Rio de Janeiro, Brazil has been postponed, and the venue changed; it is now scheduled for 2024 in Madrid, Spain. Traditionally, IOP organizes a social event for our members who participate in the IPC.

As we anticipate our forthcoming IOPC in Prague, 2024, it is noteworthy that this will be the 70th anniversary of the founding of IOP (initiated during the 1954 International Botanical Congress in Paris). Please visit our home page at palaeobotany.org for latest announcements.

With best regards,

Steve

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

Meeting report

NECLIME Online Conference 2021

Conveners: Angela Bruch, Torsten Utescher, Andrea Kern, Marianna Kováčová, Martina Stebich

In general

The NECLIME Online Conference took place from April 19 to 21, 2021. With 61 registered participants from 20 countries, the online format was very well received among our members and has proven very effective for the network to stay connected during the pandemic situation. Moreover, many colleagues attended a NECLIME meeting for the very first time including many young researchers.

The conference program included a total of 30 oral presentations, spanning a wide range of topics. With results from the Far East of Russia to the Iberian Peninsula, the presented research fully covered the “classic” study area of NECLIME, complemented by reports on South American strata. In addition, about one third of the presentations included Paleogene records and palaeobotanical data thus accommodating the claim of our network to broaden our time frame. With nine contributions on Pleistocene to Holocene, NECLIME research further expanded into younger timescales opening a new field of techniques and methodological tests and their implications, also on deeper time records.

Various contributions on progress in methodologies represented another highlight of the NECLIME Online Conference 2021, alluring to further follow these innovations in the frame of workshops to be organized by the NECLIME working groups. Among them are reconstruction methods of palaeo-altitude, tools for a more precise assessment of palaeoclimate, and biome reconstruction techniques and their calibration using modern data.

Organization and technical details

The meeting was organized in four sessions using the ZOOM platform. Most of the contributions have been pre-recorded by the presenters enabling a smooth process and ensuring enough time for discussions. Talks were made available for viewing in a server directory accessible to the participants who could not join the conference live. For social gathering after the sessions, the “wonder.me” online software provided the possibility for further exchange of ideas and discussion in smaller groups. Altogether, the selected online tools were valued quite positively by the participants, especially the possibility for virtual meetings and discussion in wonder.me turned out to be very effective to accompany the official scientific part of our meeting.

As for all our past, physical meetings, an abstract volume has been sent out to the participants and will be made available to the public on our website.

Outlook and final discussion

New structure of NECLIME

Personnel changes in the NECLIME co-ordination team and the new NECLIME Advisory Board were presented to our members. There was broad agreement that NECLIME is well-positioned for ensuring its successful functioning, also in the future. The re-organization of NECLIME further emphasized on a future research of “NECLIME and beyond” and a further inclusion of Paleogene and Pleistocene studies.

Website

During the last year, the NECLIME Website has been completely restructured and updated regarding new working groups and the NECLIME 2030 perspective. The feedback obtained from our members was largely positive. Updates and comments are currently integrated and should soon be visible online.

Meetings

In view of the success of the online conference the majority of our members was in favor of organizing further digital meetings or/and offering the possibility of online participation in physical meetings. It was pointed out that especially young scientists would benefit from a digital format, apart from the general issue of travel expenses in the context of scarce science funding.

NECLIME conferences

Siwalik Regional NECLIME Conference

This online event, organized by Vandana Prasad and Gaurav Srivastava from the Birbal Sahni Institute of Palaeosciences in Lucknow, India, aims to present contributions on the Siwaliks, a crucial area holding the key for reconstructing changes in the Himalayan mountain range and their extra-regional impact. Apart from palaeobotanical approaches, presentations on paleontology, sedimentology and geology of the Siwalik strata, as well as studies on geochemistry and chronology (e.g. palaeomagnetism) are invited. Studies on age-equivalent deposits in the Himalayas are further included for in-depth comparisons (Nepal, Tibet, India, etc.). The conference is planned for the first week in September and will be connected to the celebration of the Platinum Jubilee of the BSIP, on September 10, 2021. A circular will inform you about more details.

New information on the postponed XV IPC/ XI IOPC Prague and anticipated EPPC will be communicated to our members as soon as it is available.

The 20th Annual NECLIME Meeting in Tbilisi, Georgia, originally intended for 2021 is definitely postponed and hopefully will take place in 2022. The 4th NECLIME Asian Meeting in Matsudo/Chiba will most probably take place in 2023. Details will be communicated to you as soon as planning is possible.

NECLIME workshops

Under the current restrictions regarding research stays and traveling, online workshops are considered useful to stay connected and to promote research within our network. Planning for various events is underway.

NECLIME early career scientist's network

A new platform within the NECLIME network was suggested and discussed during the conference, which aims to attract young researchers and to foster collaborations and exchange between them. A first online meeting is planned for **October 8, 2021**, to explore the potential of such an initiative together with interested students and early career scientists. A more detailed announcement will be distributed soon (organized by Adele Bertini and Angela Bruch).

Torsten Utescher, on behalf of the NECLIME general coordination team

News from Bonn's Research Unit FOR 2685

A second round of funding for Research Unit FOR 2685 on Fossilization: Continued financial support for paleobotany

Since January 2018, paleontologists, mineralogists, geochemists, biochemists, and microbiologists have been working hand-in-hand to answer questions on fossilization at the University of Bonn in Germany. Our Research Unit, FOR 2685 funded by the Deutsche Forschungsgemeinschaft, is focused on The Limits of the Fossil Record: Analytical and Experimental Approaches to Fossilization. Not only are we studying the fossilization processes and substance preservation of plants, invertebrates, vertebrates, and fossil-associated organic substances such as amber or secondary plant compounds, but we are also keenly interested in the application of high-tech methods to understand the material nature of fossils. Research Unit FOR 2685 consists of nine projects with 11 PIs, and has supported the work and careers of 5 postdocs and produced 18 theses on the Bachelors, Masters, and Ph.D. levels. Admittedly, it was sometimes tough-going with lab lockouts and pandemic shutdowns in 2020 and 2021, but we still managed to churn out nearly 40 publications on fossilization in the last 3.5 years. More information on Research Unit 2685 is available at

<https://www.ifgeo.uni-bonn.de/abteilungen/palaeontologie/dfg-for-2685/for-2685-the-limits-of-the-fossil-record-analytical-and-experimental-approaches-to-fossilization>.

In the first funding period (2018 to 2021), there were three projects of particular interest to paleobotanists: Project B2 on the pathways in low-temperature wood silicification (PIs Carole Gee and Chris Ballhaus), B4 on U-Pb systematics of fossilized biogenic tissues as a tracer of long-term diagenetic processes, including silicified wood (PI Thorsten Geisler), and C1 on the detection of anti-herbivore secondary compounds in the fossil record (PIs Torsten Wappler/Jes Rust). Our basic approaches to these studies, as well as to the other projects in the Research Unit, are laid out in a newly published book called *Fossilization: Understanding the Material Nature of Ancient Plants and Animals*, edited by Carole Gee, Victoria McCoy, and Martin Sander, which was published by Johns Hopkins University Press in March 2021. (Please see *IOP Newsletter 124* for more information on this book as well as a discount code for purchase).



Group photo of DFG-Research Unit FOR 2685 in September 2018

I am now really happy to report that our hard, dogged work, aided by the strong support of paleontologists on the DFG review committee, has resulted in a second funding period of another three years from the DFG, starting in September 2021. In Research Unit FOR 2685, we are able to continue holding the banner of paleobotany high with three new studies on fossil plant fossilization. These projects are: C3 on the destruction, decay, and preservation: the role of microbes, biofilms, and mineralization in the fossilization of leaf compressions (PIs Carole Gee, Gabriele Bierbaum, Moritz Liesegang), C4 on the role of microbes and biofilms in leaf

fossilization (PI Gabriele Bierbaum, Carole Gee, Moritz Liesegang), and C6 on searching for biological pigments and structural color in fossil plants (PIs Carole Gee and Christa Müller).

As is evident in the list of this new projects, the focus of paleobotanical investigation has shifted from wood to leaves; we are now looking into the early stages of fossilization and into the preservation of pigments in fossil leaves. We are grateful for three more years of funding and thank the DFG and paleobotanical community for their support.

Carole Gee, University of Bonn, Germany

Book announcement: Nature Through Time

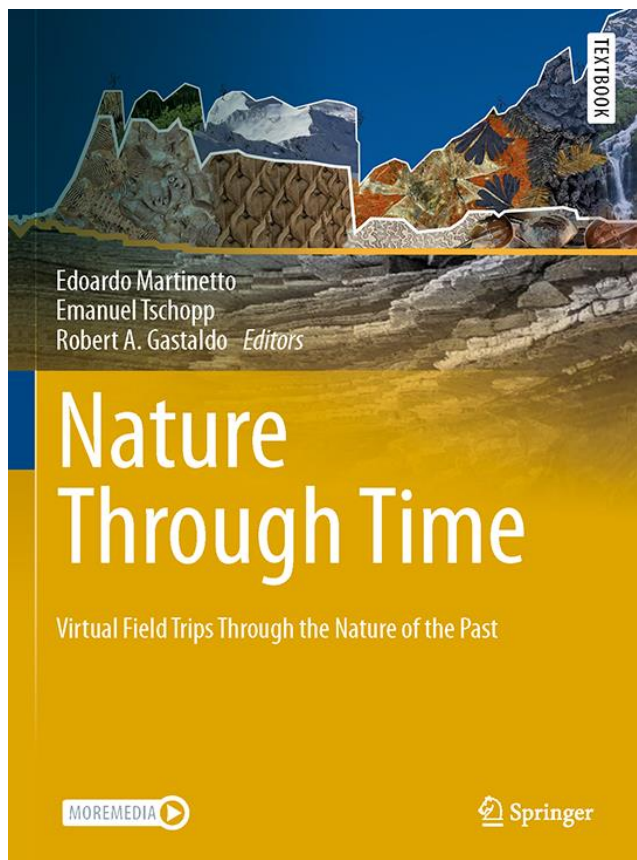
Martinetto, E. Tschopp, E., and Gastaldo, R.A., eds., 2020, *Nature Through Time*: Springer Nature Switzerland, Cham, Switzerland, 474 p. ISBN 978-3-030-35057-4.

The IOP meeting in Padua, Italy, in 2014, began a resurgence of interest by members for the development of a textbook and web-based project to educate undergraduate and graduate students, hobbyists, enthusiasts, and the general public, at large, about the effects of evolutionary and climatic changes to Earth's terrestrial landscape over deep time. Thirteen chapters with 96 contributing authors simulates a historical walk through nature, teaching readers about the biodiversity on Earth in various eras with a focus on past terrestrial environments. The book presents our state-of-the-art understanding of the terrestrial plant-and-animal ecosystems, along with the pre- and post-Paleozoic marine biota, within the context of the evolution of natural systems. Vignettes, or postcards, of biomes and ecosystems, which have undergone major vegetational change in response to a variety of biotic and abiotic factors, are highlighted from across the globe. The outreach program provides a free set of lecture slides to instructors, students, and any interested individual in our planet's history, regardless of whether the book has been purchased. The outreach program is maintained separately from Springer Publishing, and it is anticipated that each slide show will be updated periodically.

The book topics represent a broad paleoenvironmental spectrum of interests and educational modules, allowing for virtual visits to rich geological localities not often spotlighted in past or current textbooks. Eras and events that are discussed include, but are not limited to, the much varied Quaternary environments, the evolution of Earth's biota during the Cenozoic, the rise of angiosperms, Mesozoic vertebrate evolution and ecosystems, the Permian mass extinction, the late Paleozoic glaciation and the Coal Forests, and the origin of the land plants and first trees in the Devonian-Ordovician. With state-of-the-art expert scientific instruction on these topics and up-to-date and scientifically accurate illustrations, this book serves as an international course for students, teachers, and other interested individuals.

We understand that plants are not as "sexy" as animals, and most individuals take for granted the landscape around their home as being immutable. Today, changes in vegetation are

thought, by many, to be associated with recent past-and-present deforestation, the planting of agricultural fields or construction of towns and cities, and/or the introduction of attractive taxa in a garden or municipal setting. These plantings reflect the available natural or hybridized species capable of thriving in such environments, and the species pool from which to select an ornamental or shade-providing tree is thought to have been a constant since civilization began more than 8500 years before present. As paleontologists, we understand that this short time span is a meager record of Earth's history. But, to many, the concept of deep time is daunting, and data supporting biological change over that time frame are difficult to grasp. Demonstrating that our global flora evolved through time over many different phases may be less threatening to those with the belief of an immutable planet, and help to broaden an understanding of biological change. To accomplish these aims, the textbook begins in the present where the reader has some familiarity of plants and animals of the Pleistocene and Holocene. Each successive chapter travels backward in time where the familiar becomes less-and-less familiar, and non-analog states predominate. To the majority of readers, these non-analog terrains could well be similar to Pandora of Avatar fiction.



Some historians credit Frederick R. Barnard with the phrase "One look is worth a thousand words," which appeared in a U.S. magazine, the Printer's Ink, in the early 20th Century. Others note that the idea was not new to him, but predicated on idioms of the previous century, one of which appeared in an 1858 article of the The American Journal of Education entitled Catechism on Methods of Teaching, by Dr. Hermann Winner. "One fact well understood by observation, and well guided development, is worth a thousand times more than a thousand words." Regardless of the phrase's origin, the concept is fundamental to the success of *Nature Through Time*.

Bob Gastaldo, Colby College, Maine, USA

11th European Palaeobotany and Palynology Conference

19–22 June, 2022, Stockholm, Sweden



First Circular and Call for Symposia & Workshops

The Organizing Committee invites you to the **11th European Palaeobotany and Palynology Conference, Stockholm, to be held 19-22 June, 2022**, as a physical (**on site**) meeting jointly at The Swedish Museum of Natural History and at the adjacent Stockholm University, Stockholm, Sweden. The scientific program will cover all aspects of palaeobotany and palynology and the meeting will provide palaeobotanists and palynologists with an opportunity to present and discuss their research and meet one another four years after the previous conference in the series. The meeting will include three full days of scientific sessions, with some additional options for pre-conference workshops and short pre- and post-conference excursions. The organizing team of Swedish palynologists and palaeobotanists invite you to spend midsummer week in Stockholm, present your latest results, and enjoy the sights, sounds and flavours of Sweden.

Owing to the difficulties in securing advanced bookings for venues and transport during the pandemic, we have placed an initial **cap of 350 delegates** for the conference, so it will be important for attendees to **register early** to ensure acceptance of symposia and a presentation slot in the conference schedule. The Registration Website will be available in October, 2021.

Conference and fieldtrip details

Further details will be provided on the conference's website, which will be available in October, 2021. We will also distribute a second circular at that time with details of costs and a reminder to register.

In the meantime, interested persons can find current updates about the conference on the 11th EPPC Facebook page at: <https://www.facebook.com/11thEPPC>

Key preliminary details about the conference are provided below.

Call for Symposia and Workshops

Symposia

It is our pleasure to invite **proposals for symposia** for the 11th EPPC, 2022.

Owing to the short operational schedule in the aftermath of the COVID pandemic, the deadline for symposia proposals is strictly midnight, October 8, 2021. Proposed symposia might, for example, cover disciplines including palynology and/or palaeobotany of specific time intervals or regions, aspects of palaeoecology, palaeoclimatology, biostratigraphy, plant taxonomy, plant morphology, plant-insect interactions, fossil fungi, acritarchs, dinoflagellates, aerobiology, melissopalynology, forensic palynology, and cutting-edge techniques in the study of fossil plants. Other topics will also be considered. To organize a symposium, please prepare a “**symposium proposal**”, using the template provided at the bottom of this circular, that briefly describes the symposium in English. This proposal should include the following:

- a descriptive title and list of organizers;
- a brief text explaining the purpose of the symposium;
- a list of possible speakers, their institutions or affiliations, and preliminary presentation titles.

The length of individual symposium talks is 15 minutes, including question time.

Please submit your symposium proposal (using the template below) via the following email address: 11th.eppc@gmail.com by Friday October 8th, 2021

The program committee will review all proposals, and may make suggestions in view of the organization of the whole conference.

Workshops and Business Meetings

We also welcome proposals for workshops and business meetings. Workshops and business meetings will normally be held on Sunday 19th June at the Swedish Museum of Natural History and can be held in rooms that accommodate between 4 and 40 participants. Normal audiovisual facilities will be available.

We particularly encourage workshops focused on writing a review paper on topics of interest. These should bring together students and researchers at diverse career stages. If your workshop proposal is accepted, we will provide support to organize and coordinate working groups of similar interest.

Please submit your workshop proposal (using the template below) via the following email address: 11th.eppc@gmail.com by Friday October 8th, 2021

Important deadlines

Deadline for symposia and workshop proposals: **8th October, 2021**

Opening of Registrations: **30th October, 2021**

Early Bird Registration deadline: **21st January, 2022**

Regular registration deadline and abstract submission: **1st April, 2022**

Registration for conference dinner: **1st April, 2022**

The Conference Dinner will be a memorable evening starting with mingling with the Vasa Museum's experienced guides and an exciting tour around the great wooden warship Vasa, which sank in 1628 on her maiden voyage and was raised from Stockholm harbour in the 1960s to become one of the city's greatest tourist attractions. This will be followed by a three-course dinner served in the shadow of the infamous Vasa ship itself.



Links to registration and abstract

Conference registration and abstract submission details will be supplied in the second circular in October, 2021.

Please note that attendees can give only 1 oral presentation as the primary presenter.

There will also be an extensive space for the presentation of posters.

We look forward to seeing you in Stockholm for midsummer 2022.

Organizing Committee Chair and facilities coordinator:

Vivi Vajda, Swedish Museum of Natural History

Organizing Committee Representatives:

Catarina Rydin, Stockholm University

Stephen McLoughlin, Swedish Museum of Natural History

Thomas Denk, Swedish Museum of Natural History, CPS

Björn Gedda, Swedish Museum of Natural History

Margret Steinhorsdottir, Swedish Museum of Natural History

Natasha Barbolini, University of Bergen/Stockholm University

Sam Slater, Swedish Museum of Natural History

Sebastian Willman, Uppsala University

Contact address for enquiries

Enquiries are best made via email at: 11th.eppc@gmail.com

You can also keep up to date with information related to the conference at our Facebook page:

<https://www.facebook.com/11thEPPC>



Naturhistoriska
riksmuseet



Stockholms
universitet

Symposium proposal template

Title of symposium:

Organizer(s) of symposium:

Outline of the Symposium:

(Provide a short text of <100 words explaining the main objectives and scope of the symposium)

List of speakers and titles:

(This only needs to be a preliminary list of potential speakers and the general topics they are likely to cover)

Workshop/Business Meeting proposal template

Title of Workshop/ Business meeting:

Organizer(s) of workshop:

Outline of the workshop:

(Provide a short text of <100 words explaining the main objectives and scope of the workshop, and how much time you need for the workshop/meeting. Workshops will normally be held on Sunday 19th June, 2022 at the Swedish Museum of Natural History and will be followed by the Conference Icebreaker)

Approximate number of participants:

(Provide a realistic estimate of how many delegates you expect to participate in the workshop/business meeting based on your conversations with those involved. We need this information in order to assign rooms of an appropriate size)

Special requirements:

(Rooms generally include access to a computer connection and Powerpoint projector and screen. Indicate whether you need any additional special audiovisual facilities, access to water/sinks, large layout tables, blackboards/whiteboards, or other technical support)

Other upcoming meetings

2021

Botany 2021 Virtual! - July 18-23

Your Colleagues - Your Collaborators - Your Conference!

[Search Abstracts - Schedule is Live!](#)

Join the Conference

[Register Now](#) - [conference registration rates](#)



Please visit <https://www.botanyconference.org/> for more information!

1st Workshop of NECLIME early career scientists network

October 8, 2021 (online via Zoom exact times will be decided depending on the time zones of the registered participants)

Dear colleagues,

as suggested during the NECLIME online conference in April, herewith we invite early career scientists to meet at a first online workshop in early October to

- foster collaborations and exchange between young scientists,
- build a network of young researchers,
- provide guidance and support during these early stages of scientific career.

We intend a one-day-event at October 8, 2021 with two sessions of about 2-3 hours duration each – exact times will be decided depending on the time zones of the registered participants.

At this meeting we would like to explore the potential of such an initiative and discuss with the students which needs or demands they have towards NECLIME and how such a network could be organized. But also we will give space to talk about practical questions.

Therefore, the program will encompass a starting session with short (5 min) introductions of the participants and their projects.

A second session will offer breakout rooms for the students to meet in smaller groups and collect ideas on the questions, which structure the network needs, which scientific topics should be raised, and if or which specific training courses could be of interest for them.

Those ideas will be exchanged and summarized in a final discussion round. We hope to close this meeting with an agenda for future workshops with topics chosen by the students and organized autonomously.

Please spread this information to your students and colleagues.

Registration will be open until end of September. No abstract or fee necessary!

Everyone interested should please fill the form below to provide us with email address, affiliation, and research topic, and be prepared to give a short (5 min) introduction into their research.

We are looking forward to exploring this new initiative with you.

All the best,

Adele Bertini and Angela Bruch

Please **send a registration to abruch@senckenberg.de before September 15, 2021**, including information on your full name, Email, affiliation (Department, Institute, University/Research Institution), title of Master's/PhD/Post-Doc project.



3rd Palaeontological Virtual Congress

1st-15th December, 2021

For further information and download of 1st Circular please visit:

<http://palaeovc.org/index.php/downloads/>

The 29th International Workshop on Plant Taphonomy

Virtual Meeting in Maine, USA, on November 5–6, 2021



Bob and Carole collaborating on actuopaleobotany in Dec. 2012: Carole pointedly indicating where Bob should dig out woody carpodeposits on a point bar in the Sieg River.

We are pleased to announce that the *International Workshop on Plant Taphonomy* is able to return for its 29th year after a pandemic-induced hiatus last year.

To ensure that the meeting can be held and that all interested paleobotanists can attend, this year's workshop will be held online. Our virtual meeting venue will be in Maine, USA, with host Bob Gastaldo.

The greatest benefit of a virtual workshop is that members of the paleobotany community in both Europe and North America will easily be able to attend, though it is open to scientists worldwide.

Format: The meeting will be held online over Zoom.

Date: The Workshop will take place on the 5th and 6th of November. To accommodate as many attendees as possible, the meeting will correspond to afternoons in the Central European Time Zone (starting ca. 2:00 p.m.) and mornings in the Eastern Time Zone of North America (starting ca. 9:00 a.m.).

Fees: Thanks to the virtual nature of the meeting, there will be no registration, accommodation, or travel costs (though you will have to provide your own coffee this time).

Excursion: Although we cannot visit field sites of interest in person this year, if time allows, we will arrange for one or two "virtual field trips."

Presentations: We invite everyone interested to give talks (20 minutes) in the area of plant taphonomy or related paleobotanical subjects. Poster presentations are unfortunately not possible this year.

Registration: To let us know you'd like to attend, please send a short email to Carole, Bob, and Mariah. If you would like to give a talk, let us know in your email along with a potential topic. Titles and abstracts should be submitted in October (exact deadline to be announced).

Information about the keynote speaker, abstract submission, meeting times, and Zoom access will be provided in the second circular in September.

This meeting is particularly student-friendly thanks to the small scale and the low cost of attendance, so we invite you to forward this circular to colleagues and students who may be interested in attending and presenting.

We look forward to seeing you online in November!

Carole Gee
University of Bonn, Germany
cgee@uni-bonn.de

Bob Gastaldo
Colby College, Maine, USA
ragastal@colby.edu

Mariah Howell
University of Bonn, Germany
mariah.howell@uni-bonn.de

2022



FROM GONDWANA TO LAURASIA

THE 6TH INTERNATIONAL
PALAEONTOLOGICAL
CONGRESS



FROM NOVEMBER 7TH TO 11TH, 2022, KHON KAEN

 <https://ipc6.msu.ac.th/>  generalchair_ipc6@msu.ac.th

For further information please visit: <https://ipc6.msu.ac.th/>

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 (126) until end of October 2021.

Contributions should be sent to [Lutz.Kunzmann\(at\)senckenberg.de](mailto: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>