



Paläontologische  
Gesellschaft

## 94. Jahrestagung der Paläontologischen Gesellschaft vom 18.-22.9.2023 in Jena 3. Zirkular

### *Vom frühen Leben zum Neandertaler/From Early Life to the Neandertals*

Wir freuen uns Sie zur 94. Jahrestagung der Paläontologischen Gesellschaft in Jena begrüßen zu dürfen und hoffen sehr, dass die abwechslungsreichen Sessions, Workshops und Exkursionen Ihr Interesse wecken werden! Bitte wenden Sie sich für weitere Informationen an unser Organisationsteam und nutzen Sie dafür [eso@uni-jena.de](mailto:eso@uni-jena.de).

*We are pleased to welcome you to the 94th Annual Meeting of the PalGes in Jena and hope that the varied sessions, workshops and excursions will arouse your interest! Please contact our organization team for further information using [eso@uni-jena.de](mailto:eso@uni-jena.de).*

#### Veranstaltungsort/Venue:

**Montag und Freitag (Monday and Friday):** Institut für Geowissenschaften, Burgweg 11, 07749 Jena

**Dienstag bis Donnerstag (Tuesday to Thursday):** Friedrich-Schiller-Universität Jena, Ernst-Abbe-Platz (Carl-Zeiß-Straße 3), 07743 Jena; Eingang über den Ernst-Abbe-Platz unter dem PalGes-Banner / Entrance at the Ernst-Abbe-Platz under the PalGes banner.

Phyletisches Museum, Vor dem Neutor 1, 07745 Jena; Öffentlicher Abendvortrag Mittwoch; Eingang über den Innenhof/ *Entrance via the yard behind the museum.*

Kontakt: [eso@uni-jena.de](mailto:eso@uni-jena.de)

#### Organisatoren/Organizers:

Anna Pint; Peter Frenzel; Silvia Kolomaznik; Rebecca Lellau; Ella Quante; Deon J. Janse van Rensburg; Olga Schmitz; Tina Schlüter

#### Sponsoren/Sponsors:



**KRANTZ**  
Rheinisches Mineralien-Kontor



DESIGN AND  
ILLUSTRATION

## Zeitplan/Schedule:

Montag	Dienstag	Mittwoch	Donnerstag	Freitag
Exkursionen E1, E2	Sessions	Sessions	Sessions	Workshops W1, W2, W3
		Townhall Meeting		
Sessions				
Vorstands- sitzung		Mitglieder- versammlung		Exkursionen E3, E4
Icebreaker	Postersession + Fingerfood	Phyletisches Museum + Öffentlicher Abendvortrag	Postersession + Fingerfood	

Treffpunkt am Paradies Bahnhof um 08:30 Uhr (siehe Abschnitt Exkursionen unten für Details)	Institut für Geowissenschaften Burgweg 11, 07749 Jena	Hörsaalgebäude Ernst- Abbe-Platz 07743 Jena	Vor dem Neutor 1 07743 Jena
---	--	---	--------------------------------

Monday	Tuesday	Wednesday	Thursday	Friday
Excursions E1, E2	Sessions	Sessions	Sessions	Workshops 1, 2, 3
		Town Hall meeting		
Sessions				
Board meeting		General meeting		Excursions E3, E4
Icebreaker	Poster session + finger-food	Phyletic Museum + Public lecture	Poster session + finger-food	

Meeting point at the Paradies Bahnhof at 8:30 am (see Excursion- chapter below for details)	Institute for Geosciences, Burgweg 11, 07749 Jena	Hörsaalgebäude Ernst- Abbe-Platz, 07743, Jena	Vor dem Neutor 1, 07743, Jena
---	--	--	----------------------------------

### **Icebreaker (Montag 18.9.2023)/(Monday 18/9/2023)**

Der Icebreaker findet am Institut für Geowissenschaften am Burgweg 11 statt. Im Foyer (links am Gebäude entlang, zweite Tür) und Garten vor dem Gebäude gibt es ein BBQ und Getränke.

*The Icebreaker will take place at the Institute for Geosciences at Burgweg 11. In the foyer (going left along the building, second door) and the garden in front of the institute there will be a BBQ and drinks.*

### **Conference keynote (Dienstag 19.9.2023)/(Tuesday 19/9/2023)**

**Prof. Derek E.G. Briggs:** "Countering biases in the fossil record by incorporating Konservat-Lagerstätten"

Wir freuen uns sehr für die Konferenz-Keynote Derek Briggs begrüßen zu dürfen. Derek Briggs ist Professor für Earth and Planetary Sciences der Yale University und Kurator am Yale Peabody Museum of Natural History, welches er von 2008–2014 leitete. Seine Forschung befasst sich insbesondere mit

exzeptionell erhaltenen fossilen Biota und deren Taphonomie, Erhaltung und evolutionäre Signifikanz. Dabei nutzt er unter anderem experimentelle Labor-Methoden und Analysen von Fossilien, um Weichteil-Erhaltung und Mineralisation in der frühen Diagenese zu analysieren. Seit 2008 ist Derek Briggs korrespondierendes Mitglied der Paläontologischen Gesellschaft.

*We are very happy to welcome Derek Briggs as the speaker of the conference keynote. Derek Briggs is Professor of Earth and Planetary Sciences at Yale University, and curator the Yale Peabody Museum of Natural History, for which he was the director in 2008–2014. His research centres on exceptionally preserved fossil biotas, and their taphonomy, preservation and evolutionary significance. Amongst others, he uses experimental laboratory methods and analyses of fossil specimens, to study soft part-preservation and mineralization during early diagenesis. Derek Briggs has been a corresponding member of the Paläontologische Gesellschaft since 2008.*

### **Townhall-Meeting DVGeo (Mittwoch 20.9.2023)/(Wednesday 20/9/2023)**

Das Townhall-Meeting der DVGeo mit Mittagsimbiss findet in der Mittagspause im Hörsaalgebäude am Ernst-Abbe-Platz statt. In diesem offenen Format stellt der Vorstand des DVGeo seine Aktivitäten rund um die stärkere Vertretung der Geowissenschaften in Politik und Gesellschaft, den GeoNachwuchs, der Unterstützung von GeoVerbundprojekten, das Projekt GeoDE und die AG „Mehr Geowissenschaften in der Schule“ vor. Wir freuen uns darauf, mit Ihnen ins Gespräch kommen! (Organisation: Alexander Nützel, Felix Zoppe, Vanessa Roden, Tamara Fahry-Seelig)

*The Town Hall Meeting of the DVGeo with lunchtime snacks will take place in the lunch break in the lecture hall building at Ernst-Abbe-Platz.*

### **Öffentlicher Abendvortrag / Public Evening Lecture (Mittwoch 20.9.2023)/(Wednesday 20/9/2023)**

**Prof. Dr. John A. Nyakatura:** “Of tracks, skeletons, and robots: multidisciplinary approaches to the reconstruction of a stem amniote's locomotion.”

Wir freuen uns sehr für den öffentlichen Abendvortrag John Nyakatura begrüßen zu dürfen. John Nyakatura ist Professor für Morphologie und Formengeschichte an der Humboldt-Universität zu Berlin, und leitet dort eine Nachwuchsgruppe für Vergleichende Zoologie, wo er an der funktionellen Morphologie, Biomechanik und Evolution des Lokomotions-Apparats von Tetrapoden forscht, in Zusammenarbeit mit Paläontologen und Ingenieuren für bioinspirierte Robotik. Begonnen hat John Nyakatura seine wissenschaftliche Karriere in Jena, wo er Biologie und Geographie studierte, und am Institut für Zoologie und Evolutions-Forschung promovierte.

Der Vortrag findet am Phyletischen Museum statt. Der Eingang befindet sich im Innenhof, erreichbar entweder über Vor dem Neutor 1 (rechts am Museumsgebäude vorbei), oder durch das Schillergäßchen hinter dem Zoologischen Institut.

*We are very happy to welcome John Nyakatura as the speaker for the public evening lecture. John Nyakatura is a professor in Morphology and History of Forms at the Humboldt University of Berlin, and head of the Lab for Comparative Zoology, which works on functional morphology, biomechanics and*

*evolution of the tetrapod locomotion apparatus, in collaboration with palaeontologists and engineers for bio-inspired robotics. John Nyakatura started his career in Jena, where he studied biology and geography, and received his PhD at the Institute for Zoology and Evolutionary Research.*

*The public evening lecture on Wednesday will take place at the Phyletic Museum. The entrance is in the yard behind the museum, and is accessible either via the path to the right of the museum at Vor dem Neutor 1, or through Schillergäßchen behind the Zoological Institute.*

**Sessions (Dienstag 19.9.2023 – Donnerstag 21.9.2023)/(Tuesday 19/9/2023 – Thursday 21/9/2023)**

**(S0) Free topics (Organisation: Silvia Kolomaznik, Anna Pint, Peter Frenzel, Rebecca Lellau, Ella Quante, Deon J. Janse van Rensburg)**

**(S2) Jurassic and Cretaceous Oceanic Anoxic Events — faunal and floral response  
(Organisation: Jörg Mutterlose, Alexander Nützel)**

The marine sedimentary sequences of the Early Jurassic and Late Cretaceous are characterized by the widespread occurrence of black shale deposits, caused by perturbations of the ocean system. The perturbations, commonly addressed as oceanic anoxic events (OAEs), are linked to warm and humid greenhouse conditions. These in turn are related to increased volcanic activity and related high CO<sub>2</sub> concentrations, exceeding our current levels of ca. 400 ppm by a factor of 1.5 – 3x. In this session we want to address the response of marine and continental ecosystems related to the environmental disturbances of the OAEs. We therefore suggest a session which is focussed on the course and the timing of environmental and biotic changes, across OAEs.

The following topics are of specific interest: a) Do we see major shifts in organisms with specific habitats? B) What are the evolutionary patterns of planktonic and benthic organisms? C) Which groups became extinct, which survived? D) Are the shifts and modifications permanent? E) Are there specific organism with a higher resilience? Contributions covering both continental and marine biota are welcome.

**(S3) Closing biostratigraphical and palaeobiogeographical gaps: Cenozoic fossil evidence from Central Germany and adjacent regions (Organisation: Martina Stebich, Lutz Christian Maul, Dana Höfer und Peter Frenzel)**

The Cenozoic floral and faunal history in Central Europe is documented by a wealth of fossil records providing key information on the evolution of continental ecosystems, biodiversity and climate change.

The fossil assemblages of this region are particularly valuable for the study of past biotic turnover and relationships among the floristic and faunistic regions of Europe. Special significance of this region arises from the shifting influences of the North Atlantic maritime and the Eurasian continental climate during the Cenozoic environmental changes. In addition, the widespread occurrence of Pleistocene landforms, glacial deposits, and river terraces allows direct relationships to be established between the fossil record, landscape history, and specific glacial cycles.

However, spatially and temporally highly variable depositional environments, including the erosive impact of Pleistocene ice sheets, have left a complex and fragmentary record of fossil assemblages in this region. The resulting gaps in the fossil record constitute a major challenge for the stratigraphic classification of individual fossil assemblages as well as their palaeobiogeographical linkage.

We invite contributions for a session on Cenozoic fossil assemblages from Central Europe to discuss their evolution in the context of shifting climate and biogeography. We appreciate contributions on the following topics: Biostratigraphy, palaeoecology, evolution and biostratigraphy of special fossil sites or special groups of animals, plants and other biotic remains, based on various analytic approaches.

**(S4) Palaeoichnology — new occurrences, methods, applications, data (Organisation: Michael Buchwitz, Anna Pint)**

Modern trace fossil research has profited, among others, from more rigorous documentation by means of surface models, application of quantitative approaches, detailed investigation of trace-tracemaker relationships and new actualistic studies (neoichnology), but also from new ichnofossil discoveries, re-investigation of known occurrences and improved accessibility of ichnological data through digital data collections. This PalGes session is open for invertebrate and vertebrate ichnology studies and those of related fields (palaeoecology, sedimentology, functional morphology and ethology) that also include ichnological data.

**(S5) Late Palaeozoic terrestrial ecosystems (Organisation: Jörg Fröbisch, Lorenzo Marchetti, Philipp Knaus)**

The late Palaeozoic was a time of profound changes in the terrestrial realm, shaping the evolution of all recent major plant and animal taxa. Key events and innovations include the terrestrialization of vertebrates, the radiation of amniotes (including reptiles and synapsids), the evolution of new ecological guilds (e.g. high-fibre herbivory, climbing, gliding, burrowing), and the origin of elevated metabolic rates. Moreover, new plant groups arise (such as seed plants), develop novel features, defy new insect damage types, diversify and form extensive swamps and forests.

Also, terrestrial invertebrates radiate, with regards both to diversity and occupation of ecological niches. This is also a key time interval for the study of ecosystem response to climate change, including the Late Palaeozoic Ice Age, the Artinskian Warming Event, as well as the end-Guadalupian and end-Permian mass extinctions. The purpose of this session is to investigate through innovative methods the late Palaeozoic biota and the exceptional amount of key information it can provide us, also in light of modern ecosystem crises.

**(S6) Multidisciplinary Palaeontology (Organisation: Noel Amano, Mariya Antonosyan, Michael Ziegler, Patrick Roberts)**

This session aims to bring together scholars working on different fields relating to palaeontological research, including archaeozoology, palaeoanthropology, and quaternary science to name a few, and who apply multidisciplinary approaches in their research, such as and proteomics, aDNA, and stable isotopes analyses, to gain insights on past hominin/human-animal and animal-environment interactions.

**(S7) RG Palaeobiology – Fossil preservation of exceptional biological details (Organisation: Carolin Haug, Marie Hörnig)**

For our understanding of the life habits of extinct organisms, exceptional fossil preservation of biological structures is extremely helpful. Such preservation can include almost life-like preservation of external morphological structures, sometimes even details such as colour preservation, but also internal structures such as musculature or nervous system, down to cellular details of tissues. In this session, the preservation of such biological details of all kinds of fossilised organisms will be presented.

**(S8) RG Micropalaeontology – Micropalaeontology – an interdisciplinary science  
(Organisation: Ella Quante, Anna Pint, Silvia Kolomaznik, Peter Frenzel)**

Microfossils are important tools in Quaternary Geology, Physical Geography, palaeoceanography, palaeoclimatology and geoarchaeology. Their assemblage composition, environmental induced morphological reactions and shell chemistry signatures enable reconstructing a wide range of environmental factors in aquatic or terrestrial ecosystems.

The small size of microfossils and their high diversity enable studying large associations, often with well preserved and complete individuals even from small samples as typical from sediment cores. Ecological preferences and tolerances of taxa are used for reconstruction of palaeoenvironments, their biostratigraphical ranges for bringing strata into a chronological order. The great value of microfossils for geoscience is their application, but as past organisms they are excellent palaeontological study objects in their own as well. The session presents geological applications of microfossils as well as palaeobiological studies.

**(S9) Science Communication, Geotourism and Public Relations (Organisation: Silvia Kolomaznik, Sylvia Reyer-Rohde, Mauro Alivernini)**

This session presents science communication aspects of palaeontology. Concepts, presentations in popular science publications and exhibitions, involvement of citizen scientists or children, palaeontology in geoparks and museums are all important for the acceptance of and the interest into our field of science.

**Workshops (Freitag 22.9.2023)/ (Friday 22/9/2023)**

**(W1) Early Life (Organisation: Deon Janse van Rensburg, Christoph Heubeck)**

The rock record of early Earth, although scarce, provides our only window into the surface conditions during which life originated and spread. In this workshop we will show a variety of rocks from the Archean and discuss what can be deduced about the Archean surface conditions from them.

**(W2) Micropalaeontology (Organisation: Ella Quante, Anna Pint, Silvia Kolomaznik, Peter Frenzel)**

We invite all members and friends of the RG Micropalaeontology to give an overview of their ongoing micropalaeontological research in their projects or with their working groups. Thus, we will create a forum for collaborations and discussions and provide a basis for future activities of the RG regarding the interests of the group. Lightning talks (5 min) of all contributors/working groups presenting their research foci.

**(W3) Trophic interactions in deep time (Organisation: Kenneth De Baets, Marie Hörnig)**

The fossil record provides important information such as distribution, morphology and evolution of species, but can also give clues about lifestyle and ecology of organism groups. Crucial for all living organisms are trophic interactions, as all organisms are part of an ecosystem and have their specific role in the food web. Organisms can e.g. be herbivore, predators and/or prey, parasites and/or hosts, or involved in other types of interactions such as necrophagy, certain types of symbioses among others. This can be linked to a specific morphology, which we can observe today in fossil remains. Several kinds of trace fossils and group fossilizations are further important sources. Studying fossils in

this context may allow to reconstruct the evolution of several kinds of trophic interactions, as part of a reconstruction of ecosystems in deep time.

Within the workshop of the RG Palaeobiology we would like to discuss approaches for the reconstruction of trophic interactions based on fossils, as well as challenges and implications of these.

### **Format**

Vorträge: 15 Min (12+3 Min); Poster: Hochformat DIN A0

*Talks: 15 min (12+3 min); Posters: Portrait DIN A0*

### **Exkursionen/Excursions (Montag 18.9.2023 und Freitag 22.9.2023)/(Monday 18/9/2023 and Friday 22/9/2023)**

Der Treffpunkt für alle Exkursionen ist der Parkplatz hinter dem Paradies Bahnhof (auf der Seite des Paradies Park und der Saale), um 8:30 Uhr. Hier wird die Verpflegung ausgeteilt und die Gruppen in Fahrzeuge aufgeteilt.

*The meeting point for all excursions will be the parking area behind the Paradies Bahnhof (on the side of the park and Saale River), at 8:30 am. There will be distributed lunch bags and the groups will be assigned to the cars.*

**(E1) Fossilfundstellen im Buntsandstein Ostthüringens (Leitung: Thomas Voigt)**

**(E2) Kontinentales Perm (Rotliegend) im Thüringer Wald: Manebach, Friedrichroda und Schleusingen (Leitung: Ralf Werneburg & Jörg W. Schneider)**

**(E3) Die unterpermische Fossilagerstätte Bromacker & Faunen des Keupers im Gebiet der Drei Gleichen (Leitung: Tom Hübner)**

**(E4) Quartäre Fossilassoziationen im Thüringer Becken, inklusive der Hominidenfundstelle Bilzingsleben (Leitung: Peter Frenzel, Frank Kienast, Martina Stebich, Lutz Maul)**

***(E1) Fossil sites in the Buntsandstein of eastern Thuringia (Leader: Thomas Voigt)***

***(E2) Continental Permian (Rotliegend) in the Thuringian Forest: Manebach, Friedrichroda and Schleusingen (Leader: Ralf Werneburg & Jörg W. Schneider)***

***(E3) The Lower Permian Bromacker fossil deposit & faunas of the Keuper in the Drei Gleichen area (Leader: Tom Hübner)***

***(E4) Quaternary fossil associations in the Thuringian Basin, including the hominid site Bilzingsleben (Leader: Peter Frenzel, Frank Kienast, Martina Stebich, Lutz Maul)***

## **Awards**

*Poster Award:* Der Preis für das beste Poster soll auch dieses Jahr im Rahmen der Jahrestagung vergeben werden.

*Young Scientist Award (YSA):* Die drei besten Präsentationen von Nachwuchswissenschaftlern sollen ausgezeichnet werden.

*Tilly Edinger-Preis:* Dieses Jahr möchten wir im Rahmen der Jahrestagung in Jena wieder den Tilly Edinger-Preis vergeben. Sie können sich noch bis zum 31.07.2023 bewerben. Informationen finden Sie auf: <https://www.palaeontologische-gesellschaft.de/tagungen/aktuelle-jahrestagung/>

*Travel grants:* Studierende können sich um einen Reisekostenzuschuss von 100 Euro bewerben. Erfolgreiche Bewerber werden während der Tagung benachrichtigt.

*Poster Award: The prize for the best poster will be awarded again this year during the annual meeting.*

*Young Scientist Award (YSA): This year we will again award prizes for the three best presentations by young scientists.*

*Tilly Edinger Award: This year we would like to award the Till Edinger Award again during the annual meeting in Jena. You can still apply until 31.07.2023. Information can be found at: <https://www.palaeontologische-gesellschaft.de/en/conferences/annual-conference/>*

*Travel grants: Students can apply for a travel grant of 100 Euro. Successful applicants will be informed during the conference.*

## **Anmeldung und Tagungsgebühren/Registration and conference fees**

Zur Anmeldung bitte das Anmeldeformular nutzen, welches Sie **HIER** downloaden können.

*For registration please use the provided form, which you can download **HERE**.*

### Tagungsgebühren/Conference fees

Frühbucher bis 30.6.2023

Spätbucher ab 1.7.2023

*Early bird until 30.6.2023*

*Normal price after 1.7.2023*

Mitglied/Member	220 Euro
Nichtmitglied/Non-member	290 Euro
Stud. Mitglied/Stud. Member	160 Euro
Stud. Nichtmitglied/Stud. Non-member	210 Euro

Mitglied/Member	270 Euro
Nichtmitglied/Non-member	340 Euro
Stud. Mitglied/Stud. Member	210 Euro
Stud. Nichtmitglied/Stud. Non-member	260 Euro

In den Gebühren sind enthalten: Icebreaker und Catering (Kaffeepausen, Fingerfood abends)

Exkursionen (bitte bei der Anmeldung angeben) ca. 40,00 Euro

*The fees include: Icebreaker, catering (coffee breaks, finger food in the evening)*

*Excursions (please register during the pre-registration) approx. 40,00 Euro*



### **Anreise und Unterbringung/Arrival and accommodation**

Jena ist am besten über die Bahnhöfe in Innenstadtnähe Jena West und Jena Paradies mit zumeist Regionalzügen erreichbar. Mit dem Auto reisen Sie über die A4 oder A9 an.

Die Stadt bietet eine Vielzahl von Unterkünften aller Preisklassen, die in den Sommer- und Herbstmonaten sehr beliebt sind. Daher empfehlen wir Ihnen frühzeitig zu buchen, vor allem wenn Sie im Stadtzentrum, in dem auch die Jahrestagung abgehalten wird, übernachten möchten.

*Jena is best reached via the train stations near the city center Jena West and Jena Paradies with mostly regional trains. By car, you can travel via the A4 or A9.*

*The city offers a variety of accommodations in all price ranges, which are very popular in the summer and autumn months. Therefore, we recommend booking early, especially if you want to stay in the city center, where the annual meeting will also be held.*

# Session programme, 94. Jahrestagung der Paläontologischen Gesellschaft, 18.9.-22.9. 2023, Jena

## Schedule Monday 18.9. 2023

Time	Event	Organizers	Venue
8.30–18.00	Excursion (E1) Fossil sites in the Buntsandstein of eastern Thuringia	Voigt, T.	Bahnhof Paradies
8.30–18.00	Excursion (E2) Continental Permian (Rotliegend) in the Thuringian Forest: Manebach, Friedrichroda and Schleusingen	Werneburg, R. & Schneider, J.W.	Bahnhof Paradies
14.00–18.00	Vorstandssitzung		MZR
18.00–22.00	<i>Icebreaker</i>		IGW

Bahnhof Paradies: Parking area behind the train station Jena Paradies

MZR: Meeting room, first floor, Institut für Geowissenschaften, Burgweg 11

IGW: Garden, Institut für Geowissenschaften, Burgweg 11

## Schedule Tuesday 19.9. 2023 (Lecture Hall 3, Ernst Abbe Platz) Registration from 8.00

Time	Title	Referent	
8.30–8.45	<i>Welcome and conference opening</i>		
8.45–9.30	Countering biases in the fossil record by incorporating Konservat-Lagerstätten	Derek E.G. Briggs	Keynote
9.30–9.50	Decoding deep-time biodiversity: environmental, physical, and historical drivers of biodiversity in the fossil record	Emma Dunne	Tilly Edinger Symposium
9.50–10.10	The evolution of insect lifestyles - Reconstructing behavioural aspects based on fossils	Marie K. Hörnig	
10.10–10.45	<i>Coffee break</i>		
10.45–11.05	Paleoecosystem research: a modern approach to decipher "lost worlds" in deep time, with case	Ludwig Luthardt	Tilly Edinger Symposium
11.05–11.25	What is a "nautiloid" cephalopod? A modern perspective	Alexander Pohle	
11.25–11.45	Resurrecting the extinct: dinosaur skulls and their implications for palaeobiology	Marco Schade	
11.45–13.15	<i>Lunch break</i>		
13.15–13.35	Was it humid, was it hot? Paleohistology reveals it ad hoc! – Unique climatic conditions during the Upper Triassic in Krasiejów (SE Poland) indicated by a uniform bone growth pattern	Elsbieta Teschner	Tilly Edinger Symposium
13.35–13.55	Anatomy, ontogeny, and ecology of Mesosauridae: what the first secondarily aquatic reptiles can tell us about amniote evolution.	Antoine Verriere	
13.55–14.15	The Phylogeny of rays and skates (Chondrichthyes: Elasmobranchii) based on morphological characters revisited	Eduardo Villalobos Segura	
14.15–14.35	<i>Coffee break</i>		
14.35–14.50	Estranged relationships: Past parasitic associations between mites and flies	Arce, S.I. et al.	Session 7
14.50–15.05	Defensive appendages in 100 million-year-old centipedes: An example of convergent evolution	Haug, G.T. et al.	
15.05–15.20	Egg-Case-Report: Almost 125 million years of Cockroach Oothecae	Jung, S.V. & Hörnig, M.K. (YSA)	

15.20–15.35	Long-legged aphidlion-like larvae: Another strange neuropteran larva and new indications of their lifestyle in Cretaceous amber	Kiesmüller, C. et al. (YSA)	
15.35–15.50	Three new lithobiomorph centipedes found in Myanmar amber (Cretaceous period), a clue on their “real” geological records	Le Cadre, J. et al. (YSA)	
15.50–16.05	The first detailed morphological treatment of a fossil barklouse (Psocodea: ‘Psocoptera’) from Cretaceous Kachin amber	Weingardt, M. et al.	
16.05–16.30	<i>Coffee break</i>		
16.30–16.45	Interaction based damage in arthropod fossils: Unusual damage on the wing of a new fossil dragonfly	Gauweiler, J. et al. (YSA)	Session 7
16.45–17.00	Specialized morphological characters of wood-associated beetle larvae for hunting or defense in deep time	Zippel, A. et al. (YSA)	
17.00–17.15	Hairstyles of the Eocene: Structure and distribution of setae in beetle larvae as a measure for morphological diversity	Posada Zuluaga, V.P. et al. (YSA)	
17.15–17.30	Structurally preserved Osmundaceae and other plants from Triassic silicified peat deposits in North Victoria Land, Central Transantarctic Mountains, East Antarctica	Hiller, P. & Bomfleur, B. (YSA)	
17.30–17.45	Disc-shaped fossils resembling eldoniids from the early Cambrian (Series 2: Stage 4) Pioche Formation of Nevada	Kimmig, J.	
17.45–18.00	A possible beaching site for whales and dolphins in Taiwan	v. Heteren, A.H. & Yang, T. R.	
18.00–21.00	<i>Poster session + finger-food + drinks</i>		

Session 7: RG Palaeobiology – Fossil preservation of exceptional biological details

### Schedule Wednesday 20.9. 2023 (Lecture Hall 3, Ernst Abbe Platz) Registration from 8.00

Time	Title	Referent	
8.30–8.45	The beetle boring <i>Pectichnus multicylindricus</i> – formation, host response, and distribution	Rößler, R.	Session 4
8.45–9.00	First record of dinosaur trackways from Kyrgyzstan, Central Asia	Kogan, I. et al.	
9.00–9.15	Revision of a most diverse tetrapod ichnoassemblage from the Buntsandstein (early Anisian, Middle Triassic) of Germany	Marchetti, L. et al.	
9.15–9.30	The archosaur ichnogenus <i>Brachychirotherium</i> (Chirotheriidae) – a reappraisal of purported Middle Triassic representatives	Klein, H. et al. (YSA)	
9.30–9.45	<i>Procolophonichnium</i> from the middle to late Permian of the North German Basin	Buchwitz, M. et al.	
9.45–10.30	<i>Coffee break</i>		
10.30–10.45	An acquired taste for blood: the early times of hematophagy in Diptera	Amaral, A.P. et al. (YSA)	Session 0
10.45–11.00	Larval diversity of Neuropteriformia over geological time periods	Linhart, S. et al. (YSA)	
11.00–11.15	Using Quantitative Morphology to Compare Adults and Larvae of Extant and Fossil Mantis Shrimps	Plischek, S. et al.	
11.15–11.30	New sea urchins (Echinodermata: Echinoidea) from the Famennian of Velbert (W Germany): Evidence for echinoid faunal turnover in the Late Devonian	Pauly, L. (YSA)	
11.30–11.45	The missing link of Pterosauria and the wading revolution	Spindler, F.	
11.45–12.00	The Crab Begins - morphological diversity of the earliest brachyurans	Braig, F. et al. (YSA)	
12.00–13.30	<i>Lunch break, Town Hall Meeting</i>		

13.30–13.45	Late Jurassic (Kimmeridgian) and Early Cretaceous (Barremian-Aptian) mammals from Germany	Martin, T. et al.	Session 0
13.45–14.00	Diversity and convergencies in the anterior dentition in Mammalia	v. Koenigswald, W. & Rose, K.D.	
14.00–14.15	Carnassial functional morphology in the Carnivora, Hyaenodonta and Dasyuromorphia	Lang, A. & Martin, T. (YSA)	
14.15–14.30	A collection of ideas how taxonomy could better integrate the needs of the paleo-community and become a well-delineated scientific discipline	Haug, J.T.	
14.30–14.45	Fossil coleoid cephalopods: The role of morphological character definitions in phylogenetic inference	Pohle A. et al. (YSA)	
14.45–15.00	<i>Coffee break</i>		
15.00–15.15	Redescription of the holotype of <i>Olivierosuchus parringtoni</i> (BP/1/3849)	Gigliotti, A.	Session 0
15.15–15.30	MolluscaBase, a way to treat taxonomic and nomenclatural challenges in a species revision	Wieneke, U.	
15.30–15.45	Extant crocodylian bone pathologies as a window to phytosaur palaeopathology	Cornille, A. et al.	
15.45–16.00	ELECTRUM MUNDI – a sneak peek	Bock, B.L. et al.	
16.00–16.15	Multi Light Imaging as a tool to capture fine details of compression fossils – dedicated hardware and a convenient alternative	Schädel, M.	
16.15–16.30	<i>Coffee break</i>		
16.30–18.30	General assembly		
19.00–20.00 <i>Lecture Hall Phyletisches Museum</i>	Of tracks, skeletons, and robots: multidisciplinary approaches to the reconstruction of a stem amniote's locomotion	John A. Nyakatura	Public lecture
20.00–22.00	<i>Food and drinks at Phyletisches Museum</i>		

Session 4: Palaeoichnology — new occurrences, methods, applications, data

Session 0: Free topics

#### Schedule Thursday 21.9. 2023 (Lecture Hall 3, Ernst Abbe Platz) Registration from 8.00

Time	Title	Referent	
8.30–8.45	Jaw mechanics in shrews and the role of the double articulation	Pommerening, S. & Martin, T. (YSA)	Session 6
8.45–9.00	Evaluation of skeletal architecture and density banding in the massive starlet coral <i>Siderastrea siderea</i> by using 2D grid-scanning <sup>241</sup> Americium gamma densitometry	Zoppe, S.F. et al. (YSA)	
9.00–9.15	Zanadamu: an African hominin isotopic dataset	Iminjili, V. & Fernandes, R. (YSA)	
9.15–9.30	At the gateway of the oriental zone: Assessing evidence of early (Pre-MIS 5) human migrations in Saurastran Peninsula, India	Jha, G.	
9.30–9.45	Biomolecular reconstruction of human dwelling environment in the Late Pleistocene Lesser Caucasus	Antonosyan, M. et al.	
9.45–10.00	Exploring the Palaeoecology of late Pleistocene – early Holocene Sites in Northwestern South America through Stable Isotope Analysis	Ziegler, M. et al.	
10.00–10.30	<i>Coffee break</i>		

10.30–10.45	Morphometric analysis of Paleozoic immatures of the group Insecta	Stahlecker, C. et al. (YSA)	Session 5
10.45–11.00	Giant arthropods of the Late Paleozoic and the oxygen story	Schneider, J.W. et al.	
11.00–11.15	Sclerotic rings in Lower Permian diadectomorphs and <i>Seymouria</i> reveal diel activity patterns near the origin of amniotes	Knaus, P.L. et al.	
11.15–11.30	The tetrapod footprint association from the Bromacker locality (Tambach Formation, early Permian, central Germany): ichnotaxonomy, palaeoecology and evolutionary meaning	Marchetti, L. et al.	
11.30–11.45	Morphology and ontogeny of carpus and tarsus in stereospondylomorph temnospondyls	Witzmann, F. & Fröbisch, N.B.	
11.45–12.00	Using finite element analyses to better characterize the complex relationship between limb morphology, microanatomy and posture and draw reliable paleoecological inferences in early amniotes and relatives	Canoville, A. & Jannel, A.	
12.00–12.15	A fossil forest from Italy reveals that wetland conifers thrived in early Permian peri-Tethyan Pangea	Trümper, S. et al. (YSA)	
12.15–13.30	<i>Lunch break</i>		
13.30–13.45	Cretaceous oceanic anoxic events – faunal and floral response of marine calcifiers	Mutterlose, J. et al.	Session 2; 3; 8
13.45–14.00	Ecological adaptation of marine biota across the Early Jurassic Toarcian Oceanic Anoxic Event	Mutterlose, J. et al.	
14.00–14.15	Biotic response to the Toarcian anoxic event - the evolution of holoplanktonic gastropods	Nützel, A. et al.	
14.15–14.30	Palynological studies on biostratigraphy and paleoenvironment of the Pleistocene in Thuringia	Höfer, D. et al.	
14.30–14.45	Did the Arternian interglacial immediately follow the 0.9 Ma event within the Early-Middle-Pleistocene transition? – clues from the Muscheltonne macroflora of Voigtstedt, Thuringia	Kienast, F.	
14.45–15.00	Palaeobiogeographic relationships between the Eocene Fossilagerstätten Messel (Germany) and Green River (USA)	Wedmann, S.	
15.00–15.15	Foraminiferal assemblages from the Upper Paleocene of the Turgai depression (Northern Kazakhstan)	Trubin, Y. et al. (YSA)	
15.15–15.30	<i>Coffee break</i>		
15.30–15.45	UNESCO Global Geopark Thüringen Inselsberg-Drei Gleichen: Der Geopark stellt sich vor.	Reyer-Rohde, S. & Alivernini, M.	Session 9
15.45–16.00	Dinosaurs in comics – how subtle paleontological knowledge transfer can be fun!	Fischer, J. et al.	
16.00–16.15	Visions Of The Apocalypse – an international Paleoart project on the dinosaurs darkest day	Westphal, J.	
16.15–16.30	Paleoart and visual communication	Hähle, S.	
16.15–16.30	Paläontologische Bodendenkmalpflege im Rheinland - Quo Vadis?	Helling, S. et al.	
16.45–17.00	<i>Coffee break</i>		
17.00–18.00	<i>Awards and closing ceremony</i>		
18.00–21.00	<i>Poster session + finger-food + drinks</i>		

Session 6: Multidisciplinary Palaeontology

Session 8: RG Micropalaeontology – Micropalaeontology – an interdisciplinary science

Session 5: Late Palaeozoic terrestrial ecosystems

Session 2: Jurassic and Cretaceous Oceanic Anoxic Events – faunal and floral response

Session 3: Closing biostratigraphical and palaeobiogeographical gaps: Cenozoic fossil evidence from Central Germany and adjacent regions

Session 9: Science Communication, Geotourism and Public Relations

### Schedule Friday 22.9. 2023

Time	Event	Organizers	Venue
9.00–16.00	Workshop (W3) Trophic interactions in deep time	De Beats, K. & Hörnig, M.K.	IGW
8.30–18.00	Excursion (E3) The Lower Permian Bromacker fossil deposit & faunas of the Keuper in the Drei Gleichen area	Hübner, T.	Bahnhof Paradies
8.30–18.00	Excursion (E4) Quaternary fossil associations in the Thuringian Basin, including the hominid site Bilzingsleben	Frenzel, P. et al.	Bahnhof Paradies

IGW: Lecture Hall, first floor, Institut für Geowissenschaften, Burgweg 11

Bahnhof Paradies: Parking area behind the train station Jena Paradies