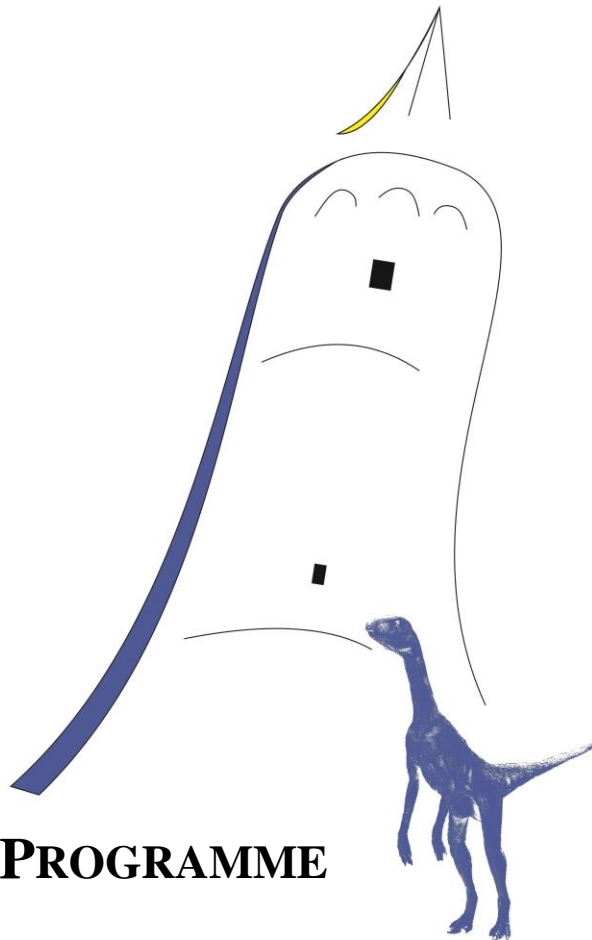


EUROPEAN ASSOCIATION OF VERTEBRATE PALAEOONTOLOGISTS



XIII ANNUAL MEETING
OPOLE, POLAND, 8-12 JULY 2015



PROGRAMME

Logo – Silhouette of *Silesaurus opolensis*, a genus and species of dinosauromorph from the Upper Triassic of southwest Poland. Remains of *Silesaurus* have been recovered from the ‘Keuper’ claystone at Krasiejów near Opole (Silesia, Poland), from which it takes its name. The building next to *Silesaurus* is a stylised contour of the Piast Tower, a remnant of Piast Castle, one of the oldest structures of defensive architecture in Poland. It plays a key role as symbol of the city of Opole and of Opole Voivodeship (project: Roman B. Konietzko).

Front cover – In the foreground are silhouettes of *Silesaurus opolensis*, while the background presents a view of the inside of the pavilion at Krasiejów Jurapark, with an exhibit of *in-situ* Late Triassic vertebrate remains, mostly metoposauroids. Visible through the glass wall is a portion of the quarry. The pavilion belongs to Opole University (project: Roman B. Konietzko and Dorota Konietzko-Meier; photograph by R.B. Konietzko).

Back cover – Opole city centre. Venues are marked by pins (map from <https://www.openstreetmap.org/>).

Book design by Dorota Konietzko-Meier.

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SELF-GOVERNMENT OF THE OPOLE VOIVODESHIP

UMWO, ul. Piastowska 14, 45-082 Opole
working hours: monday - friday: 7.30 - 15.30

HOST INSTITUTE

Laboratory of Palaeobiology
Department of Biosystematics
Faculty of Natural Sciences and Technology
Opole University



HOST COMMITTEE

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Dear participants of the XIIIth Annual Meeting of the European Association of Vertebrate Palaeontologists

I would like to welcome you all to our meeting in Opole. I am particularly looking forward to it, as this is the first time that the EAVP has come to Poland. This is important because one of the express goals of the EAVP when it was founded, was always the exchange between eastern and western European vertebrate palaeontologists.

During recent years we have seen an ever-increasing number of participants from non-European countries, which we appreciate and take as a marker of success for our EAVP meetings. You can now meet researchers from Argentina, Austria, Belgium, China, the Czech Republic, Slovakia, Denmark, France, Germany, Hungary, Italy, the Netherlands, Portugal, Panama, Poland (of course), Romania, Russia, Spain, Sweden, Switzerland, Thailand, the UK and USA. Furthermore, the mean age of participants has dropped; more and more younger scientists are attending, and this is a success in itself.

The number of grants has steadily grown: from the starting point of the initial Raymond Rivoallain fund, we can now offer two research grants per year and two travel grants and an additional grant sponsored by Transmitting Science – indeed a good sign. And we hope, that with the recently established Paypal system, the number of EAVP members will be growing even further.

This year we apparently have a new record in terms of participant numbers; while writing this welcome address we expect about 170 vertebrate palaeontologists to attend! We will have two special sessions and all in all 77 oral contributions and 61 posters – a huge success!

The meeting will be a fitting tribute to one of the most outstanding Polish vertebrate palaeontologists of all times, who has just recently passed away. Zofia Kielan-Jaworowska was a world renowned expert on dinosaurs and multituberculate mammals and leader of the legendary Polish-Mongolian expedition to the Gobi Desert.

My sincere thanks go to Dorota Konietzko-Meier, Elena A. Jagt-Yazykova, Adam Bodzioch and their colleagues on the committee for hosting us in Opole this year.

I am looking forward to seeing and meeting you all this year in Poland. And I hope that you will all attend our annual auction to raise money for the grants for the upcoming year.

Least, but not least, I would like to express my sincere gratitude to the members of the EAVP committee for support, creativity, intellectual input and instant help during my presidency. So I leave it to you all, to elect a new president this year for the continuing prosperity of our Association and for the benefit of vertebrate palaeontology.

I wish you all an excellent meeting

Christian A. Meyer
future past president

Dear colleagues and friends,

The Host Committee have the honour of inviting you all to the 13th Meeting of the European Association of Vertebrate Palaeontologists, as organised by the Department of Biosystematics of Opole University, under the patronage of the Rector, Professor Dr S.S. Niciejka, at Opole (southwest Poland) from 8 to 12 July 2015. We wish to dedicate this meeting to the memory of Zofia Kielan-Jaworowska (25 April 1925-13 March 2015), Polish palaeontologist of world fame.

For contributing immensely to the ultimate success of this 13th Annual Meeting of the European Association of Vertebrate Palaeontologists, we sincerely thank the following sponsors and supporters:

- **Transmitting Science** (<http://www.transmittingscience.org>)
- **Museum of Silesia Region** (<http://muzeum.opole.pl/>)
- **Delta Company**, together with **Jurapark** and **Park of Evolution**
(<http://www.juraparkkrasiejow.pl/en/>)
- **Chespa** (<http://www.chespa.eu>)
- **Local Action Group “Kraina Dinozaurów”** (<http://www.krainadinozaurow.pl/en/>)
- **Association of enthusiasts of Krasiejów** (<http://www.krasiejow.pl/>)
- **"ODRA" S.A. Cement Plant** (<http://odrasa.eu/en/start.html>)
- **Town council Opole** (<http://info.um.opole.pl/en/>)
- **Self-government of Opole Voivodeship** (<http://opolskie.pl/eng/index.php>)
- Rafał Wielki i Marcin Kaczmarek from **Self-government of Opole University Students** (<http://www.samorzad.uni.opole.pl/>)
- **Radio Opole** (<http://www.radio.opole.pl/>)

Thank you for joining us here in Opole, and for your support and understanding during the organization of the meeting.

Have a nice time!

The Organizing Committee

GENERAL PROGRAMME

TUESDAY 7 JULY

18:30–20:00	ICE- BREAKER PARTY	Museum of Opole Silesia Region; for details see: Event description
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WEDNESDAY 8 JULY

8:15–9:00	REGISTRATION	First floor – Oleska 48
	OPENING	
9:00–10:45	Zofia Kielan-Jaworowska – AN APPRECIATION	Lecture hall 154
	PALEOHISTOLOGY	
10:45–11:00	COFFEE BREAK	Corridor next to Lecture hall A (239)
11:00–12:30	PALAEOHISTOLOGY MAMMALS	Lecture hall 154
12:30–14:15	LUNCH BREAK	
14:15–16:15	MAMMALS (<i>CONTINUED</i>)	Lecture hall 154
16:15–18:15	COFFEE BREAK AND POSTER SESSION	Corridor next to Lecture hall A (239)

THURSDAY 9 JULY

8:15–8:45	REGISTRATION	First floor – Oleska 48
8:45–10:45	<u>SPECIAL SESSION: TETRAPOD TRACKWAY DATA – ACQUISITION, STORAGE, PROCESSING AND INTERPRETATION</u>	Lecture hall 154
8:45–10:45	<u>SPECIAL SESSION: PALAEOECOLOGY AND EVOLUTION OF AQUATIC REPTILES</u>	Lecture hall A (239)
10:45–11:00	COFFEE BREAK	Corridor next to Lecture hall A (239)
11:00–12:30	FISHES	Lecture hall 154
11:00–12:30	PALAEOGEOGRAPHY	Lecture hall A (239)

12:30–14:15	LUNCH BREAK	
14:15–15:45	NON-AMNIOTES AND SYNAPSIDS	Lecture hall 154
14:15–15:45	PALAEOGEOGRAPHY (<i>CONTINUED</i>) HISTORICAL AND METHODOLOGICAL APPROACH	Lecture hall A (239)
17:00–18:30	GENERAL ASSEMBLY (<i>INCLUDING FULL ELECTIONS TO THE BOARD</i>)	Student Cultural Centre of the Opole University (see map below)
18:30–22:00	AUCTION	Student Cultural Centre of the Opole University (see map below)

FRIDAY 10 JULY

8:30–9:00	REGISTRATION	
9:00–10:45	REPTILES	Lecture hall 154
10:45–11:00	COFFEE BREAK	Corridor next to Lecture hall A (239)
11:00–12:30	REPTILES	Lecture hall 154
12:30–14:15	LUNCH BREAK	
14:15–15:30	EGGSHELLS AND BIRDS	Lecture hall 154
17:00–19:00	MINI-FIELD TRIP CRETACEOUS - 1	For details see: Event description

SATURDAY 11 JULY

9:00–10:45	FIRST STEPS OF GEOMETRIC MORPHOMETRICS	Lecture hall 154
10:45–11:00	COFFEE BREAK	Corridor next to: Lecture hall A (239)
11:00–12:15	FIRST STEPS OF GEOMETRIC MORPHOMETRICS	Lecture hall 154
12:00–20:00	NEW METHODS OF PALAEOBIOLOGICAL RECONSTRUCTIONS FAREWELL DINNER	JURAPARK, KRASIEJÓW (details see: Event description)

SUNDAY 12 JULY

9:00–11:00

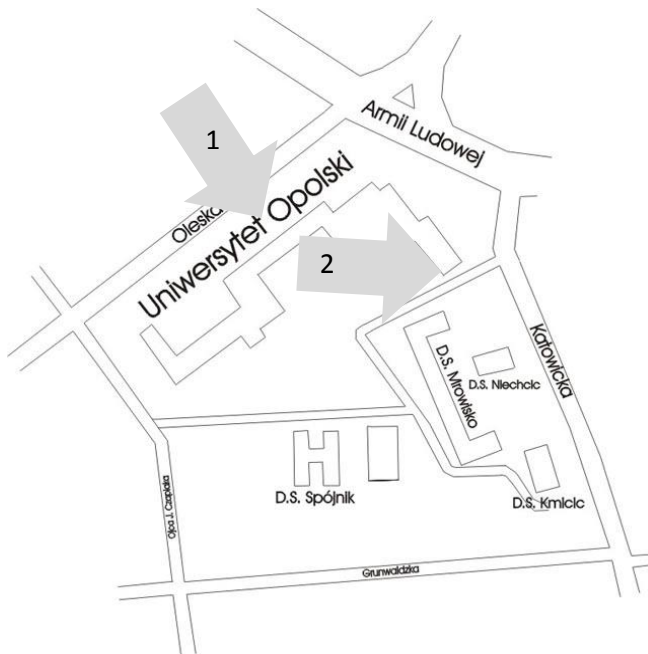
MINI-FIELD TRIP CRETACEOUS - 2

For details see: Event description

10:00–18:00

FIELD TRIP MUSCHELKALK

For details see: Event description



**1: Lecture hall A
Lecture hall 154
Poster session**

Opole University
ul. Oleska 48
45-052 Opole

**2: General Assembly
and Auction**

Student Cultural Centre of the
Opole University
ul. Katowicka 95
45-061 Opole

EVENT DESCRIPTION

1. ICE-BREAKER PARTY – Tuesday, 7 July

Please note that the party is not held at the university, but at the Museum of Silesia Region (address: **Maly Rynek 7, entrance from ul. Muzealna**). This is a few minutes' walk away from the main venue place (see cover map). The Direction of the museum allowed us to use their beautiful building for this event and we shall have free access to exhibits. We hope that this will be a good opportunity to introduce the region's chequered history to all participants.

2. GENERAL ASSEMBLY (*INCLUDING FULL ELECTIONS TO THE BOARD*) – Thursday, 9 July

Herewith, we invite you to the thirteenth Annual General Meeting of the EAVP. The meeting takes place in **the Student Cultural Centre of the Opole University**, ul. Katowicka 95, 45-061 Opole, at 17:00 hrs on Thursday, 9 July 2015. We hope to be able to welcome plenty of participants. Please note the **new** venue address - because of an increasing number of participants we had to move the event to a larger hall.

3. AUCTION – Thursday, 9 July

In order to raise funds to support student attendance at future EAVP meetings the auction will be staged at the Student Cultural Centre of the Opole University (ul. Katowicka 95, 45-061 Opole), immediately following the general assembly. We rely on this auction more heavily than ever, so please remember to bring items to donate to the auction, and spend your Euros in support of our students!!

4. TRIP TO JURAPARK AT KRASIEJÓW AND FAREWELL DINNER – Saturday, 11 July

A coach will take all participants to Krasiejów; the rallying point is always on the **ground level of the main venue (ul. Oleska 48)**. The first group will start at **12:00**, the next at **13:00**. During the conference we will agree on the group listings. Participants of the Geometric Morphometrics course will be able to board their coach at **14:00**. The trip to Krasiejów takes about 30 minutes. After arrival at the Jurapark, each group will hear an introductory lecture by Dr Andrzej Boczarowski and visit all exhibits and attractions available there. After this tour, participants may roam the park on their own. If you like to swim and the weather will be good, you may even wish to enjoy Krasiejów beach (remember to bring bathing suits or trunks, and a towel). In the evening (around **17:30**), conference dinner will be served, after which participants will be taken back to Opole. More information on the Jurapark can be found here: <http://www.juraparkkrasiejow.pl/en/>.

5. FIELD TRIPS

The rallying point for each field trip is **always the ground level of the main venue place (ul. Oleska 48)**; for departure times, see below. We shall provide bottled water, and for the Muschelkalk trip lunch packages will be distributed. Weather permitting, we wish to spend some time for active hammering and digging, so please remember to bring some fieldgear (clothes, possibly hammer, reflective vests, etc.).

- **Cretaceous:**

Friday, 10 July, 17:00-19:00 - for those of you who registered for BOTH field trips; meet at **16:30**

Sunday, 12 July, 9:00-11:00 - for those of you who registered ONLY for the Cretaceous; meet at **8:30**

- **Muschelkalk:**

Sunday, 12 July, 10:00-18:00, meet at **9:30**

DETAILED PROGRAMME

WEDNESDAY 8 JULY

8:15 REGISTRATION

ROOM: Lecture hall 154

9:00 Official opening
Welcome address by Christian Meyer, EAVP President

9:15 Zofia Kielan-Jaworowska – an appreciation
Magdalena Borsuk-Białynicka

ORAL PRESENTATIONS

PALAEOHISTOLOGY

MAMMALS

CHAIRPERSON: Dorota Konietzko-Meier

10:00 First insights into the bone microstructure of *Deinococheirus mirificus*
Martin Kundrát and Yuong-Nam Lee

10:15 Histological analysis of post-cranial skeletal pneumaticity in sauropods
Filippo Bertozzo and P. Martin Sander

10:30 Histology of sauropod long bones from the Howe-Stephens Quarry (Morrison Formation, Wyoming): testing hypotheses of skeletal unity
Kayleigh Wiersma and P. Martin Sander

10:45 COFFEE BREAK

11:00 Mandible histology in *Metoposaurus diagnosticus krasiejowensis* (Amphibia, Temnospondyli) from the Upper Triassic of Poland – preliminary results
Kamil Gruntmejer

11:15 The role of metabolic rate in the evolutionary size increase of *Dimetrodon* (Sphenacodontidae)
Philipp L. Knaus, Anneke H. van Heteren, Christen D. Shelton and P. Martin Sander

11:30 Growth and development in Pleistocene dwarfed Proboscidea
Anneke H. van Heteren

11:45 New data on cervid histology – life history and allometry
Eli Amson, Torsten M. Scheyer, Christian Kolb and Marcelo R. Sánchez-Villagra

12:00 Modifications in molar enamel microstructure with increasing hypsodonty in Theridomyidae (Rodentia) across the ‘Grande Coupure’
Thomas Engler and Thomas Martin

12:15 Schultz’s Rule in mammals: the influence of life history on dental eruption
Robert J. Asher

12:30 LUNCH BREAK

MAMMALS (CONTINUED)

CHAIRPERSON: Anneke H. van Heteren

- 14:15** **Mammal-like teeth from the Upper Triassic of Poland**
Marlena Świło, Grzegorz Niedźwiedzki and Tomasz Sulej
- 14:30** **Comparative anatomy and systematics of Cretaceous mammal tracks of Angola**
Marco Marzola, Octávio Mateus, Anne S. Schulp, Louis L. Jacobs, Michael J. Polcyn,
Vladimir Pervov, António Olímpio Gonçalves and Maria Luisa Morais
- 14:45** **Evolution of *Gomphos* (Mammalia, Glires) in the Eocene of the Erlian Basin, Nei
Mongol (China)**
Łucja Fostowicz-Frelik
- 15:00** **Neogene mammals from northern South America (Venezuela and Colombia):
implications for diversity patterns and faunal evolution in the Neotropics**
Juan D. Carrillo, Carlos Jaramillo and Marcelo R. Sánchez-Villagra
- 15:15** **Osteology of *Zygodon turicensis* (Mammalia, Proboscidea)**
Jakub Březina and Martin Ivanov
- 15:30** **New data on the three-tined deer (*Artiodactyla*, Mammalia) from the uppermost
Miocene of Venta del Moro, Spain**
Amparo Violero, Luca Bellucci, Daniel DeMiguel, Beatriz Azanza and Plinio Montoya
- 15:45** **Native presence of giraffes in central Europe revealed**
Gertrud E. Rössner, Ursula B. Göhlich and Alan W. Gentry
- 16:15** **COFFEE BREAK AND POSTER SESSION**

List of posters - see page: 27

NOTE: The poster number is the same as the number of the poster board

THURSDAY 9 JULY

8:15 Registration

ROOM: Lecture hall 154

**SPECIAL SESSION: TETRAPOD TRACKWAY DATA –
ACQUISITION, STORAGE, PROCESSING AND INTERPRETATION**

CHAIRPERSON: Christian A. Meyer

- 8:45** **Developing an ichnological data base: testing examples in EasyDB**
Matteo Belvedere and Heinrich Mallison
- 9:00** **Developing an ichnological data base: theoretical considerations of user roles,
demands and benefits**
Heinrich Mallison and Matteo Belvedere
- 9:15** **Study of trackways as hierarchical structures and why details matter in
comparative approaches**
Michael Buchwitz and Sebastian Voigt
- 9:30** ***Paradoxichnium problematicum* Müller, 1959 – a principal morph of Late Permian
tetrapod tracks and its palaeoecological significance**
Sebastian Voigt, Hendrik Klein, Massimo Bernardi, Evelyn Kustatscher, Jörg W.
Schneider, Hafid Saber, Lorenzo Marchetti, Paolo Mietto, Frank Scholze and Volker
Faath
- 9:45** **Triassic archosaur footprints from Switzerland – ichnotaxonomy and
biostratigraphic implications**
Hendrik Klein, Mike Wizevich and Christian A. Meyer
- 10:00** **Processing and analysis with ‘Cadence Toolset’ of Late Jurassic dinosaur track
data systematically acquired during ten years of excavations prior to construction
of Highway A16, NW Switzerland**
Daniel Marty, Kent A. Stevens, Scott Ernst, Géraldine Paratte, Christel Lovis, Marielle
Cattin, Wolfgang A. Hug and Christian A. Meyer
- 10:15** **Can we discriminate between theropod and ornithopod dinosaur trackways based
on footprint shape variation patterns? A geometric morphometrics approach**
Jens Nikolaus Lallensack
- 10:30** **Roundtable discussion: Which steps towards a trackway data base/online resource
for trackway data shall be taken?**

ROOM: Lecture hall A

**SPECIAL SESSION: PALAEOECOLOGY AND EVOLUTION OF
AQUATIC REPTILES**

CHAIRPERSONS: Femke Holwerda and James Neenan

- 8:45** **The evolution of crushing dentition and tooth replacement strategies in
Placodontiformes (Sauropterygia)**
James M. Neenan

- 9:00** **Microanatomy, bone histology and growth of Nothosauria**
Nicole Klein, Alex Houssaye and Eva Maria Griebeler
- 9:15** **Ontogenetic tooth reduction and niche shifts in *Stenopterygius quadriscissus***
Daniel Dick
- 9:30** **Palaeobiogeography of Late Jurassic ichthyosaurs; a genus-level approach**
Judith Pardo-Pérez, Nikolay G. Zverkov, Maxim S. Arkhangel'sky
and Mikhail A. Rogov
- 9:45** **Marine vertebrates, environment and stratigraphy of the Albian phosphorite horizon at Anapol, Poland**
Marcin Machalski, Danuta Olszewska-Nejbert and Zofia Dubicka
- 10:00** **Niche differentiation in mosasaurs from the type Maastrichtian (the Netherlands/Belgium), as demonstrated by dental microwear**
Femke M. Holwerda, Anne S. Schulp and John W.M. Jagt
- 10:15** **A new partial mosasaur skeleton from the Maastrichtian type section, ENCI-HeidelbergCement Group quarry, Maastricht, the Netherlands – preliminary observations**
John W.M. Jagt, Jos Barten, Lars Barten, Dirk Cornelissen, Rudi W. Dortangs, Dirk Eysermans, Elena A. Jagt-Yazykova, Sjir Renkens and Louis Verding
- 10:30** **Roundtable discussion**
- Poster number 29** **A new basal elasmosaurid skeleton with joint pathologies from the Lower Cretaceous of Germany**
Sven Sachs, Jahn J. Hornung, Peter Wohlsei and Benjamin P. Kear

10:45 **COFFEE BREAK**

ROOM: Lecture hall 154

FISHES

CHAIRPERSON: Jeff Liston

- 11:00** **Mississippian chondrichthyans from Czerna near Kraków, Poland**
Michał Ginter
- 11:15** **Hump-backed ginglymodian fish from the Jurassic PhuKradung Formation of Thailand**
Uthumporn Deesri, Pratueng Jintasakul, Varavudh Suteethorn and Lionel Cavin
- 11:30** **A new billfish (Istiophoriformes, Istiophoridae) from the Upper Miocene of the Caribbean (Panama)**
Carlos De Gracia, Jorge Velez-Juarbe and Carlos Jaramillo
- 11:45** **Mio-Pliocene elasmobranch faunas from the Urumaco sequence (southern Caribbean) and their palaeoenvironmental significance**
Jorge B. Carrillo-Briceño, Erin Maxwell, Orangel A. Aguilera, Rodolfo Sánchez and Marcelo R. Sánchez-Villagra
- 12:00** **Fintasia: cutting down the ‘Scythe Myth’**
Jeff Liston, Anthony Maltese and Laura S. Zamorano
- 12:15** **Osteoglossomorph palaeobiogeography – fossils refute ideas based on recent distribution**
Niels Bonde

12:30 LUNCH BREAK

NON-AMNIOTES AND SYNAPSIDS

CHAIRPERSON: Michel Laurin

- 14:15** **Mysteries in the phylogeny of early tetrapods, and their evolutionary implications**
David Marjanović
- 14:30** **Organisational instability as initial phase of evolutionary change: evidence from evolution of temnospondyl amphibians**
Mikhail A. Shishkin
- 14:45** **Morphological integration in the skull of Palaeozoic tetrapods**
Celeste Pérez Ben
- 15:00** **Digitising the five-fingered forelimb of *Metoposaurus diagnosticus krasiejowensis* using photogrammetry**
Elzbieta M. Teschner and Dorota Konietzko-Meier
- 15:15** **Early genome size increase in urodeles**
Michel Laurin, Aurore Canoville, Mikayla Struble, Chris Organ and Vivian de Buffrénil
- 15:30** **Evolution of impulse locomotion in Synapsida from Early Permian to Late Cretaceous**
Susanna B. Kimmell and Eberhard Frey
- 15:45** **New information on the morphology of the *Zambian dicynodont Syops vanhoepeni***
Leda Pičuljan, Kenneth D. Angielczyk, Christian A. Sidor, Steve Tolan, Christian F. Kammerer and Jörg Fröbisch

ROOM: Lecture hall A

PALAEOGEOGRAPHY

CHAIRPERSON: John W.M. Jagt

- 11:00** **The latest Permian-earliest Triassic microvertebrate fauna from the Vyazniki, Russia**
Maciej Pindakiewicz, Mateusz Tałanda, Andrej Sennikov, Grzegorz Niedźwiedzki and Tomasz Sulej
- 11:15** **Genesis of bone accumulations in the Röt (Lower Triassic, Olenekian) of the Opole Silesia region, southern Poland**
Monika Kowal-Linka and Adam Bodzioch
- 11:30** **The biodiversity of early Middle Triassic reptiles from Upper Silesia**
Dawid Surmik
- 11:45** **Status quo of the *Europasaurus* Project: terrestrial vertebrates from Kimmeridgian limestones at the Langenberg Quarry (Lower Saxony, Germany)**
Oliver Wings
- 12:00** **News on the Late Cretaceous Las Aguilas dinosaur graveyard, Coahuila, Mexico**
Eberhard 'Dino' Frey, Héctor Rivera Sylva, Wolfgang Stinnesbeck, José Manuel Padilla Gutierrez, Arturo H. González González, Natalia Amezcua Torres, Anne Schulp and Valentin Vanhecke

- 12:15** **Never say never – new additions to the composition of the oldest latest Cretaceous continental vertebrate assemblage in Transylvania, western Romania**
Mátyás Vremir, Ștefan Vasile, Radu Totoianu, Gareth Dyke and Zoltán Csiki-Sava

12:30 **LUNCH BREAK**

**PALAEOGEOGRAPHY (*CONTINUED*)
HISTORICAL AND METHODOLOGICAL APPROACH
CHAIRPERSON: Koen Stein**

- 14:15** **Early Paleocene marine vertebrates from the southeast Netherlands and northeast Belgium**
John W.M. Jagt
- 14:30** **Taxonomic diversity of the vertebrate assemblages from Copăceni – a new reference site for the Lower Pleistocene of the Dacian Basin, Romania**
Ștefan Vasile, Alexandru Petculescu and Marton Venczel
- 14 :45** **Mio-Pliocene amphibian and reptile assemblages from western Siberia – palaeobiogeographic and palaeoclimatic implications**
Davit Vasilyan, Martin Ivanov, Jozef Klembara, Vladimir Zazhigin and Madelaine Böhme
- 15:00** **Deciphering nature in the 17th century – cases relevant to vertebrate palaeontology**
Ella Hoch
- 15:15** **The twentieth anniversary of the Buia Project: vertebrate palaeontology in the Lower Pleistocene of Eritrea (East Africa)**
M. Delfino, E. Abbate, V. Balter, L. Bondioli, G. Carnevale, A. Coppa, E. Ghezzi, M. Ghinassi, Y. Libsekal, R. Macchiarelli, J.E. Martin, B. Martínez-Navarro, T. Medin, M. Papini, M. Pavia, F. Scarciglia, T. Tacail, A. Urciuoli, A. Villa, C. Zanolli and L. Rook
- 15:30** **The use of x-ray fluorescence in dinosaur and other vertebrate palaeontological studies**
Koen Stein
- 15:45** **Reliability of estimating phylogenies from shape and similar multidimensional data**
Ceferino Varón González, Simon Whelan and Christian Peter Klingenberg

ROOM: Student Cultural Centre of the Opole University

- 17:00** **General assembly and (including full elections to the board)**

- 18:30** **Auction**

FRIDAY 10 JULY

8:30 Registration

ROOM: Lecture hall 154

REPTILES

CHAIRPERSON: Massimo Delfino

- 9:00 Taxonomic affiliation of an aetosaur from Krasiejów and possible sexual dimorphism in *Stagonolepis***
Mateusz Antczak
- 9:15 Manus of the aetosaur *Stagonolepis olenkae* from the lower Upper Triassic of Poland**
Dawid Drózdź
- 9:30 The relationships of the Euparkeriidae and the rise of Archosauria**
Roland B. Sookias
- 9:45 New finds of dinosauromorphs and dinosauriforms from the Middle and Upper Triassic of Poland**
Grzegorz Niedźwiedzki
- 10:00 The speed of theropod dinosaurs: new data from trackways at Münchehagen, Germany**
Pernille Venø Troelsen
- 10:15 New iguanodontian dinosaur records from the North Sea Basin: palaeogeographical implications**
Eric W.A. Mulder and René H.B. Fraaije
- 10:30 New partial skeletons of *Rhabdodon* from the upper Campanian of Provence (southern France): towards a better understanding of specific diversity**
Thierry Tortosa, Eric Buffetaut, Frédéric Pauvarel, Eric Turini, Yves Dutour and Gilles Cheylan
- 10:45 COFFEE BREAK**
- 11:00 Species distinction in the genus *Protoceratops***
Tomasz Singer
- 11:15 Ontogenetic modifications of the pelvic girdle and hindlimb revealed by a subadult specimen of *Protoceratops andrewsi***
Justyna Słowiak
- 11:30 Ontogeny of the ceratopsian dinosaur *Bagaceratops rozhdestvenskyi* from the Upper Cretaceous of the Gobi Desert, Mongolia**
Łukasz Czepiński
- 11:45 Investigating the ancestral shell: preliminary data on new material of *Proterochersis*, the earliest fully-shelled turtle**
Tomasz Szczygielski
- 12:00 Palaeoecology of *Nidophis insularis* from the Upper Cretaceous of the Hațeg Basin (Romania) – another madtsoiid snake associated with a dinosaur egg nest**
Márton Venczel, Ștefan Vasile and Zoltán Csiki-Sava

12:15 **Neogene snakes from Greece: giants and dwarfs in a mammal-dominated world**
Georgios L. Georgalis and Massimo Delfino

12:30 **LUNCH BREAK**

EGGSHELLS AND BIRDS

CHAIRPERSON: Edina Prondvai

14:15 **Eggshell fragments from the Late Cretaceous of Iharkút, Hungary**
Edina Prondvai, Zoltán Szentesi, Attila Ósi, Gábor Botfalvai and Koen Stein

14:30 **The 'Tuştea Puzzle' revisited**
Dan Grigorescu

14:45 **Macbeth's Nature paper: The remains of the oldest dinosaur egg and embryo, and the obstructive potential of fossil protection legislation**
Jeff Liston and Ai Long

15:00 **Was crocodylomorph eggshell structure always as conservative as it is in extant crocodilians?**
Miguel Moreno-Azanza, José Ignacio Canudo and José M. Gasca

15:15 **The specimen of *Archaeopteryx* from the Mörnsheim Formation (Upper Jurassic, lower Tithonian) of Bavaria, southern Germany**
Martin Kundrát, Raimund Albersdörfer, John Nudds, Benjamin P. Kear and Lü Junchang

15:30 **A new species of Pengornithidae (Aves, Enantiornithes) from the Lower Cretaceous of China suggests a specialised scansorial habitat previously unknown in Early birds**
Han Hu, Jingmai K. O'Connor and Zhonghe Zhou

SATURDAY 11 JULY

ROOM: Lecture hall 154

9:00 **First steps of geometric morphometrics**
Soledad De Esteban Trivigno

10:45 **COFFEE BREAK**

11:00 **First steps of geometric morphometrics**
Soledad De Esteban Trivigno

ROOM: Jurapark, Krasiejów (details see: Event description)

See: Event description **New methods of palaeobiological reconstructions**
Andrzej Boczarowski

POSTERS

- 1 **Middle Triassic vertebrate assemblages at the ‘Stare Gliny’ quarry in southern Poland: an environmental and systematic revision**
Dawid Surmik and Michał Matysik
- 2 **How many Upper Triassic bone-bearing levels are there in Upper Silesia, southern Poland?**
Joachim Szulc, Grzegorz Racki, Karol Jewuła and Jan Środoń
- 3 **A Late Triassic microvertebrate fauna from the Lipie Śląskie clay pit at Lisowice, Poland**
Grzegorz Niedźwiedzki, Jakub Kowalski, Marlena Świło, Krzysztof Owocki, Mateusz Tałanda and Tomasz Sulej
- 4 **Taphonomy of dicynodont bones from the Lipie Śląskie clay pit at Lisowice (Upper Triassic, Norian-Rhaetian; Upper Silesia, southern Poland)**
Adam Bodzioch, Monika Kowal-Linka, Grzegorz Niedźwiedzki and Krzysztof Owocki
- 5 **The scientific, geotouristic and economic significance of the discovery of the Triassic tetrapod Lagerstätte at Krasiejów (Opole Silesia, Poland)**
Robert Niedźwiedzki
- 6 **New insights into vertebrate assemblages from the lower Chañares Formation (Ladinian-earliest Carnian, Ischigualasto-Villa Unión Basin), northwest Argentina**
Julia B. Desojo, M.D. Ezcurra, L.E. Fiorelli, A. Martinelli, J.R.A. Taborda, M.B. von Baczko, M. Hechenleitner, M. Ezpeleta, M.J. Trotteyn and S. Gouiric-Cavalli
- 7 **Late Permian footprints from the Venetian Prealps (northeast Italy): new discoveries in a largely incomplete panorama**
Lorenzo Marchetti, Matteo Belvedere and Paolo Mietto
- 8 **Carnian tetrapod tracks from the Argana Basin (Morocco): the Dutuit Collection at the Muséum national d’Histoire naturelle, Paris**
Matteo Belvedere and Nour-Eddine Jalil
- 9 **Early Jurassic dinosaur tracks from Mt. Pelmo (Italy): new insights into regional palaeogeography**
Matteo Belvedere, Francesco Sauro, Marco Franceschi and Paolo Mietto
- 10 **Early sauropodomorph footprints in the Upper Triassic of East Greenland**
Grzegorz Niedźwiedzki, Niels Bonde, Mateusz Tałanda, Andrzej Wolniewicz, Błażej Błażejowski and Tomasz Sulej
- 11 **Microstructure of dermal bones of vertebrates from Krasiejów**
Mateusz Antczak
- 12 **Methodological approach to histological studies – how important are temnospondyl humeri for skeletochronological analyses?**
Elzbieta M. Teschner and Dorota Konietzko-Meier
- 13 **A quantitative assessment of mid-diaphyseal distribution density of secondary osteons in amniotes**
Jessica Mitchell
- 14 **The microanatomy of vertebral centra of *Tanystropheus* – a potential key for deciphering tanystropheid palaeobiology**
Dawid Surmik and Andrzej Boczarowski

- 15 **Ontogenetic development of bone microstructure in the king penguin *Aptenodytes patagonicus* in relation to its aquatic adaptation, and palaeoecological inferences**
Aurore Canoville and Vivian de Buffrénil
- 16 **Fungal activity on bones, teeth and marine invertebrates**
Katarzyna Górka and Andrzej Chlebicki
- 17 **Possible endogenic organic molecules in early Middle Triassic reptile bones from Upper Silesia, Poland – results of a multiproxy study**
Dawid Surmik, Andrzej Boczarowski, Roman Pawlicki, Katarzyna Balin, Barbara Kremer, Mateusz Dulski and Jacek Szade
- 18 **The first fossil record of the “White Sharks” (*Carcharodon carcharias*) from Central America and its association with other macropredatory sharks**
Jorge B. Carrillo-Briceño, Carlos De Gracia and Félix Rodríguez
- 19 **The first fish remains (Sarcopterygii and Actinopterygii) from the late Ladinian-earliest Carnian (Chañares Formation) of Argentina: a wider palaeolatitudinal distribution for early mawsoniid coelacanthiforms?**
Julia B. Desojo, S. Gouiric-Cavalli, A.G. Martinelli, L.E. Fiorelli and M.D. Ezcurra
- 20 **Digital endocranial reconstruction of a large Triassic actinopterygian from Schesaplana, Switzerland**
Ashley Latimer
- 21 **A callipurbeckiid (Ginglymodi, Semionotiformes) from the Tithonian (Upper Jurassic) of Canjuers, France**
Adriana López-Arbarello and Lukardis Wencker
- 22 **First finds of micrometric-sized cartilaginous fish teeth from the Lower Cretaceous deposits of Crimea**
Filipp A. Trikolidi
- 23 **Middle-Late Miocene ichthyofauna of the Taman’ Peninsula (Krasnodar district, Russia)**
Eugenia K. Sytchevskaya
- 24 **Neogene ichthyofauna of Tagay Bay (Olkhon Island, Lake Baikal) and Miocene expansion of the Channidae in northern Asia**
Eugenia K. Sytchevskaya
- 25 **First amphibian and lizard remains from the Neogene of Urumaco, Venezuela**
Massimo Delfino and Marcelo R. Sánchez-Villagra
- 26 **Two large billfish remains: do they belong to the same species?**
Růžena Gregorová
- 27 **Insights into the evolutionary history of Mosasaurioidea (Squamata) using parsimony and Bayesian inference**
Daniel Madzia and Andrea Cau
- 28 **The dentition of *Polyptychodon interruptus* (Plesiosauria, Pliosauridae)**
Daniel Madzia

- 29 **A new basal elasmosaurid skeleton with joint pathologies from the Lower Cretaceous of Germany**
Sven Sachs, Jahn J. Hornung, Peter Wohlsei and Benjamin P. Kear
(Poster associated with the Special Session ‘Palaeoecology and evolution of aquatic reptiles’)
- 30 **New information on dorsal vertebrae of *Siamotyrannus isanensis* (Dinosauria, Theropoda) from the Lower Cretaceous of Thailand**
Adun Samathi
- 31 **A new vertebra of *Pararcus diepenbroeki* from the Vossenveld Formation at Winterswijk, the Netherlands**
Melanie A.D. During and Dennis F.A.E. Voeten
- 32 **Crocodylomorph diversity in the upper Maastrichtian of Serraduy (Huesca, Spain)**
Eduardo Puértolas-Pascual and José Ignacio Canudo
- 33 **Endocranial morphology of *Maledictosuchus* (Thalattosuchia) from the Callovian (Middle Jurassic) of Spain**
Jara Parrilla-Bel, Josep Fortuny, Sergio Llacer and José Ignacio Canudo
- 34 **Postcranial material of *Nothosaurus marchicus* from the Lower Muschelkalk (Anisian) of Winterswijk, the Netherlands, with remarks on swimming styles and taphonomy**
Dennis F.A.E. Voeten, Nicole Klein, Jos Lankamp, Remco Bleeker, Oliver J. Sichelschmidt, Marco Liebrand, Dennis Nieweg and P. Martin Sander
- 35 **Small-sized spinosaurids from the lower Barremian (Lower Cretaceous) of Spain**
Antonio Alonso, Pablo Navarro-Lorbés, Carmen Núñez-Lahuerta and José Ignacio Canudo
- 36 **A juvenile ctenochasmatid pterosaur from the Solnhofen Limestone**
Daniel Madzia, Martin Ivanov and Magdalena Łukowiak
- 37 ***Megacnemus* – a forgotten reptile, presumably from the Triassic of Poland**
Tomasz Skawiński, Mateusz Tałanda and Sven Sachs
- 38 **A partial skull of *Protoceratops andrewsi* from the Central Asiatic Expeditions in the Naturalis collections (Leiden, the Netherlands)**
Stephan N. F. Spiekman, Dylan Bastiaans and Anne S. Schulp
- 39 **Bite marks on *Europasaurus* bones from the Langenberg Quarry near Goslar (Lower Saxony, Germany)**
Miriam Slodownik and Oliver Wings
- 40 **A theropod vertebra from the Middle Jurassic of southern Poland**
Tomasz Singer and Katarzyna Szczepaniak
- 41 **New data on skull anatomy of *Silesaurus opolensis***
Rafał Piechowski, Grzegorz Niedźwiedzki and Mateusz Tałanda
- 42 **Oxygen and strontium isotopic study of tooth enamel in *Tarbosaurus bataar* – palaeoenvironmental and palaeoecological record or diagenetic overprint?**
Krzysztof Owocki, Grzegorz Niedźwiedzki and Barbara Kremera
- 43 **Reconstruction of a historically interesting *Triceratops* ‘*?brevicornus*’ from the Lance Formation, Wyoming, USA**
Dylan Bastiaans, Martijn D. Guliker and Anne S. Schulp

- 44 **Morphology of the hind limb of an aetosaur from the Upper Triassic of Krasiejów**
Szymon Górnicki
- 45 **Redescription of the braincase of *Efraasia minor* (Dinosauria, Sauropodomorpha) from the Upper Triassic of Germany, with comments on sauropodomorph phylogeny**
Mario Bronzati, Femke Holwerda and Oliver W.M. Rauhut
- 46 **New dryosaurid-bearing beds from the Upper Jurassic of Portugal**
Fernando Escaso, Francisco Ortega, Elisabete Malafaia, Pedro Mocho, Iván Narváez, Bruno Camilo Silva, José Miguel Gasulla and José Luis Sanz
- 47 **Re-evaluation of crocodyliform remains from the Campanian-Maastrichtian at Armuña (Segovia, Spain)**
Iván Narváez, Christopher A. Brochu, Fernando Escaso and Francisco Ortega
- 48 **Late Cretaceous marine vertebrates in the Opole region (southern Poland)**
Robert Niedźwiedzki
- 49 **Size-synchronised change in tyrannosauroid endoneurocranial configuration**
Martin Kundrát, Jiří Janáček, Benjamin P. Kear and Xing Xu
- 50 **The endocast of *Diamantinasaurus matildae* (Titanosauria, Lithostrotia) from the lower Upper Cretaceous of Australia**
Martin Kundrát, Stephen F. Poropat and David A. Elliott
- 51 **The Eurosiberian and Mediterranean regions in Europe during the Late Pleistocene, on the basis of bird occurrences**
Carmen Núñez-Lahuerta, Víctor Sauqué, Julia Galán, Antonio Alonso and Gloria Cuenca-Bescós
- 52 **Research of Pleistocene megafauna carried out at the Laboratory of Palaeobiology of Opole University**
Klaudia Kardynał
- 53 **Preliminary report of a new mammoth find in Ellis County, north-central Texas (Proboscidea, Elephantidae, *Mammuthus columbi*)**
Virginia Friedman
- 54 **Predictive models for body mass within the family Soricidae: estimating the weight of one of the smallest extinct mammals**
Blanca Moncunill-Solé, Xavier Jordana and Meike Köhler
- 55 **An exceptional Middle Eocene (Lutetian) sirenian bonebed in the southern Pyrenees (Huesca, Spain): palaeobiodiversity and sedimentological analysis**
Ester Díaz-Berenguer, Ainara Badiola, Miguel Moreno-Azanza, Eduardo Puértolas and José Ignacio Canudo
- 56 **Bats from some new Quaternary high-mountain localities in the Spanish Pyrenees – preliminary results**
Julia Galán, Víctor Sauqué, Raquel Rabal-Garcés, Carmen Núñez-Lahuerta, Gloria Cuenca-Bescós and Juan Manuel López-García
- 57 **Post-cranial suspensory adaptations of the subfossil lemur *Babakotia radofilai***
Damiano Marchi, Christopher B. Ruff, Alessio Capobianco, Katherine L. Rafferty, Michael B. Habib and Biren A. Patel

- 58** **Early Pleistocene mammal assemblage from the Spiš Quarry near Spišská Nová Ves (Slovakia)**
Zuzana Krempaská and Martin Sabol
- 59** **Morphometric analysis of the Late Pleistocene woolly rhinoceros *Coelodonta antiquitatis* (Blumenbach, 1799) from Skarszyn near Trzebnica, Poland**
Adam Kotowski and Krzysztof Stefaniak
- 60** **An exceptional Fossil Lagerstätte – the Fur Formation (lowermost Eocene) of Denmark, a marine diatomite with limestone boulders**
Bo P. Schultz, Niels Bonde, René Sylvestersen and Jan Tapdrup
- 61** **A scavenging scenario – three pterosaur neck vertebrae with a spinosaurid tooth embedded in one of them**
PALEOART Szymon Górnicki
- 62** **Pencil drawings as an integral part of palaeo-reconstructions**
PALEOART Jakub Kowalski, Kamil Gruntmejer, Piotr Janecki and Klaudia Kardynał

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