

Saturday, July 21

09:00-09:30 **Opening ceremony**

Greeting Thomas Martin, Steinmann Institute

Welcoming address Klaus Sandmann, Vice Rector of Bonn University

Welcoming address Johannes Beck, Dean of the Faculty of Mathematics and Science

Practical information

09:30-10:30 **Origins of mammals and evolution of Mesozoic mammaliaform biotas** [plenary talk]
Zhe-Xi LUO

10:30-11:00 **Coffee break**

Symposium on Jurassic Yanliao and Early Cretaceous Jehol Biota of northeastern China

11:00-11:15 **The Middle–Late Jurassic Yanliao Biota and the Yanshan Movement**
Diyang HUANG

11:15-11:30 **Geological background for the Yanliao and Jehol Biotas in Northeast China**
Zhonghe ZHOU

11:30-11:45 **Review of the horizons and localities yielding mammals of the Middle-Late Jurassic Yanliao and the Early Cretaceous Jehol Biotas, China**
Yuan-Qing WANG & Hai-Bing WANG

11:45-12:00 **New fossils from the Yanliao-Jehol Biotas and existing problems related to evolution of the mammalian middle ear**
Jin MENG, Fangyuan MAO, Shundong BI & Yuan-Qing WANG

12:00-12:15 **Diversity of euharamiyidans in the Jurassic Yanliao Biota as reflected in dental morphology**
Fangyuan MAO, Shundong BI, Yuan-Qing WANG & Jin MENG

12:15-12:30 **A long-armed confuciusornithid bird from the Early Cretaceous Jehol Biota further increases ecomorph diversity of the Confuciusornithidae**
Min WANG & Zhonghe ZHOU

12:30-12:45 **Preparation methods for ultrastructural and *in situ* chemical and biochemical analyses on carbonaceous compressions using fossil feathers as an example**
Yanhong PAN, Wenxia ZHENG & Mary H. SCHWEITZER

12:45-14:15 **Lunch break**

14:15-14:30 **2D extruded FEA: a novel biomechanical technique on the study of early mammals**
Nuria Melisa MORALES GARCIA, Pamela GILL & Emily RAYFIELD

14:30-14:45 **Food choice in Tritylodontidae (Cynodontia)**
Daniela C. KALTHOFF, Ellen SCHULZ-KORNAS, Ian CORFE, Thomas MARTIN, Stephen MCLOUGHLIN & Julia A. SCHULTZ

14:45-15:00 **Reconstruction of mandibular shape in *Docodon victor* and testing of different chewing motions using 3D virtual simulation software Occlusal Fingerprint Analyser (OFA)**
Julia A. SCHULTZ, Bhart-Anjan BHULLAR & Zhe-Xi LUO

- 15:00-15:15 **Dental function, tooth morphology and occlusion in basal Triconodontidae**
Kai R. K. JÄGER, Richard L. CIFELLI & Thomas MARTIN
- 15:15-15:30 **The last triconodonts**
Richard L. CIFELLI, Kai R. K. JÄGER & Thomas MARTIN
- 15:30-16:00 **Coffee break**
- 16:00-16:15 **Life history partitioning follows phylogeny amongst Middle Jurassic mammaliaforms**
Elis NEWHAM, Pam GILL, Philippa BREWER, Philipp SCHNEIDER, Neil GOSTLING & Ian CORFE
- 16:15-16:30 **Australia's polar Cretaceous mammals: longer lifespans may be indicative of hibernation**
Pam GILL, Elis NEWHAM, Tom RICH, Pat VICKERS-RICH & Ian CORFE
- 16:30-16:45 **The mammal-rich freshwater assemblage of the Middle Jurassic Kilmaluag Formation, Isle of Skye, Scotland**
Elsa PANCIROLI, Roger BENSON & Stig WALSH
- 16:45-17:00 **A high-latitude Early Cretaceous vertebrate fauna from Yakutia, Russia**
Pavel P. SKUTSCHAS, Alexander O. AVERIANOV, Thomas MARTIN, Alexey V. LOPATIN, Rico SCHELLHORN, Petr N. KOLOSOV & Dmitry D. VITENKO
- 17:00-17:15 **New data on the microvertebrate fauna from the Jurassic-Cretaceous site of Ksar Metlili (Anoual Syncline, Eastern Morocco): significance for African and Gondwanan vertebrate evolution**
Maxime LASSERON, Ronan ALLAIN, Emmanuel GHEERBRANT, Hamid HADDOUMI, Nour-Eddine JALIL, Jean-Claude RAGE & Samir ZOUHRI
- 17:15-18:15 **Poster session with drinks**

Sunday, July 22

- 09:00-10:00 **The global transition from a Mesozoic-aspect to a post-Mesozoic-aspect world: major patterns of ecological and evolutionary change in plant–insect interactions** [plenary talk]
Conrad C. LABANDEIRA
- 10:00-10:15 **Epidermal structure of *Sinozamites* (Cycadales) deciphered from the Middle Triassic Linjia flora in Northeast China**
Minghui HAN, Yi ZHANG, Shaolin ZHENG, Yongdong WANG, Peiyong WANG & Jialin YANG
- 10:15-10:30 **The Early Cretaceous Crato flora (Araripe Basin, Brazil): floristic, ecological and environmental aspects of an equatorial Gondwanan ecosystem**
Lutz KUNZMANN, Ana Paula DE ASSIS OLIVEIRA WESTERKAMP, Barbara A. R. MOHR, Clément COIFFARD, Dieter UHL, Roberto IANNUZZI, Daniel Rodrigues DO NASCIMENTO JUNIOR & Wellington FERREIRA DA SILVA FILHO
- 10:30-11:00 **Coffee break (conference group photo in front of anatomy building)**
- 11:00-11:15 **Terrestrial habitats in the heart of the Late Jurassic Morrison Formation, and implications for ecosystems dominated by herbivorous dinosaurs**
Carole T. GEE
- 11:15-11:30 **Plant-fungal interactions in Mesozoic forest ecosystems - evidences from China**
Ning TIAN, Yongdong WANG & Zhipeng ZHU
- 11:30-11:45 **Original compounds in copal and amber from the Cretaceous to the Recent: preliminary data for investigating the preservation of defensive chemicals in fossil plants**
Victoria MCCOY, Arnoud BOOM, Torsten WAPPLER & Conrad C. LABANDEIRA
- 11:45-12:00 **Insect herbivory on broadleaved conifers from the paralic Cenomanian Lagerstätte of Puy-Puy (Tonny-Charente, Charente-Maritime, SW, France)**
Torsten WAPPLER, Didier NÉRAUDEAU, Eric DÉPRÉ & Vincent PERRICHOT
- 12:00-12:15 **The diversity of Mesozoic Tettigarctidae and palaeoecological significance (Hemiptera: Cicadoidea)**
Yanzhe FU & Diying HUANG
- 12:15-12:30 **What's the role of cockroaches in Late Mesozoic ecosystems?**
Xin-Ran LI & Diying HUANG
- 12:30-14:00 **Lunch break (ZEISS x-ray microscopy presentation with snacks)**
- 14:00-14:15 **Early evolution and palaeobiology of pygmy grasshoppers (Orthoptera: Tetrigidae) with the description of a new genus and species**
Christine Gabriele GRABATIN, Jes RUST, Jan Audun RASMUSSEN & Henrik MADSEN
- 14:15-14:30 **Earliest mordellid-like beetles from the Jurassic of Kazakhstan and China (Coleoptera: Tenebrionoidea)**
Tong BAO, Bo WANG & Jes RUST
- 14:30-14:45 **Las Hoyas Early Cretaceous spinicaudatan fauna (Crustacea-Diplostraca) from Cuenca (Spain)**
Oscar F. GALLEGRO, Angela D. BUSCALIONI, Mateo D. MONFERRAN, Iracema A. ZACARÍAS & Victoria C. JIMÉNEZ
- 14:45-15:00 **Cretaceous non-marine integrated stratigraphy - a view from the ostracodologist's perspective**
Benjamin SAMES

- 15:00-15:15 **Late Cretaceous climate change recorded in the Songliao lacustrine deposits, China**
Jianfang HU, Xiaoning TONG & Dangpeng XI
- 15:15-15:30 **The mid-Triassic Madygen Lagerstätte (Southwest Kyrgyzstan, Central Asia)**
Jan FISCHER, Ilja KOGAN, Sebastian VOIGT, Michael BUCHWITZ, Jörg W. SCHNEIDER, Philippe MOISAN, Frederik SPINDLER, Andreas BROSIG, Marvin PREUSSE, Frank SCHOLZE & Ulf LINNEMANN
- 15:30-16:00 **Coffee break**
- 16:00-16:15 **The history of albanerpetontid amphibians in Asia**
Susan E. EVANS & Ryoko MATSUMOTO
- 16:15-16:30 **The Rhaetian mystery bones – a histological approach to test several hypotheses**
Tanja WINTRICH & P. Martin SANDER
- 16:30-16:45 **A re-evaluation of the taxonomy and diversity of the Late Jurassic sphenodontian *Opisthias rarus* Gilmore 1909 (Lepidosauria: Rhynchocephalia)**
Jorge A. HERRERA-FLORES & Thomas L. STUBBS
- 16:45-17:00 **New squamate material from the Upper Cretaceous of Bayan Mandahu, China, and a faunal comparison with other Upper Cretaceous Gobi localities**
Liping DONG, Xing XU, Yuan WANG, Yufen RONG & Susan E. EVANS
- 17:00-17:15 **Choristoderan evolution and distribution**
Ryoko MATSUMOTO, Liping DONG, Yuan WANG & Susan E. EVANS
- 17:15-18:15 **Poster session with drinks**

Monday, July 23

- 09:00-10:00 **Main achievements of the research program at the Las Hoyas Fossilagerstätte (Lower Cretaceous Spain)** [plenary talk]
Angela D. BUSCALIONI
- 10:00-10:15 **The Langenberg Quarry in Northern Germany: a peculiar terrestrial Late Jurassic biota in marine limestones**
Oliver WINGS, Brian ANDRES, José Luis CARBALLIDO, Carole T. GEE, Nils KNÖTSCHKE, Jens N. LALLENSACK, Jessica LANDGRAF, Thomas MARTIN, P. Martin SANDER, Michael SCHEIL, Achim H. SCHWERMANN, Miriam SLODOWNIK & Annette RICHTER
- 10:15-10:30 **Advances in the study of the herpetological fauna from the Lower Cretaceous of the Greater Khingan Mountains in NE China**
Yuan WANG, Liping DONG, Lu LI, Yufen RONG & Zbyněk ROČEK
- 10:30-11:00 **Coffee break**
- 11:00-11:15 **What can bone histology reveal about life style and life history in stem-turtle *Pappochelys rosinae* (Middle Triassic) from Southern Germany**
Nicole KLEIN, Hans-Dieter SUES & Rainer R. SCHOCH
- 11:15-11:30 **The vertebrate deposits of Vellberg (Middle Triassic, Germany)**
Rainer R. SCHOCH
- 11:30-11:45 **Living alone or moving in herds? Inferring social behaviour in ankylosaurs: a review**
Gábor BOTFALVAI, Edina PRONDVAI & Attila ÓSI
- 11:45-12:00 **Review of the theropod dinosaur fauna from the Late Jurassic – Early Cretaceous of Thailand and Southeast Asia and its biogeographic implications**
Adun SAMATHI, Phornphen CHANTHASIT & P. Martin SANDER
- 12:00-12:15 **An evolutionary cascade model for sauropod dinosaur gigantism**
P. Martin SANDER
- 12:15-12:30 **Growth rates and age distribution of different Jurassic sauropod taxa – implications for life history traits and ecology in normal-sized and dwarfed populations based on dorsal rib histology**
Katja WASKOW & P. Martin SANDER
- 12:30-14:00 **Lunch break**
- 14:00-14:15 **Age of the feathered neornithischian dinosaur from Siberia, *Kulindadromeus zabaikalicus***
Aude CINCOTTA, Katerina B. PESTCHEVITSKAYA, Sofia M. SINITSA, Valentina S. MARKEVICH, Eugenia BUGDAEVA, Vinciane DEBAILLE, Svetlana A. RESHETOVA, Irina M. MASHCHUK, Andrei O. FROLOV, Axel GERDES, Johan YANS & Pascal GODEFROIT
- 14:15-14:30 **Negligible effect of tooth reduction on body mass in Mesozoic birds**
Ya-Chun ZHOU, Corwin SULLIVAN & Fu-Cheng ZHANG
- 14:30-14:45 **Diet and trophic level reconstruction of extinct avian and non-avian dinosaurs using Ca isotopes**
Thomas TÜTKEN, Meinolf HELLMUND† & Stephen J. G. GALER
- 14:45-15:00 **Convergent evolution of a mobile bony tongue in flighted dinosaurs and pterosaurs**
Zhiheng LI, Zhonghe ZHOU & Julia A. CLARKE
- 15:00-15:30 **Closing ceremony**

18:15 Departure of shuttle bus to conference dinner

18:30-19:00 Boarding river boat "Rheinprinzessin"

19:00-23:00 **Conference dinner during Rhine river boat cruise**

Poster presentations

Soft tissue preservation in amber – a comparative study on the taphonomy and limits of fossilization of resin embedded arthropods

H. Jonas BARTHEL & Jes RUST

Dental microwear texture analysis: a taphonomically robust dietary proxy for non-mammalian tetrapods?

Katrin BÖHM, Daniela E. WINKLER, Thomas M. KAISER, Jörg FRÖBISCH & Thomas TÜTKEN

Jurassic flora from Cianowice (Southern Poland)

Artur GÓRECKI, Maria BARBACKA, Jadwiga ZIAJA, Agata JARZYŃKA & Grzegorz PACYNA

3D reconstruction of an archosauromorph leg from the Triassic of Central Asia based on microCT data

Maren JANSEN, Michael BUCHWITZ, Martin EZCURRA & Ilja KOGAN

Invertebrate trace fossils associated with cycad leaves from the Middle Jurassic Grojec clays of Southern Poland

Agata JARZYŃKA, Grzegorz PACYNA & Maria BARBACKA

The non-marine record of the Triassic predatory fish *Saurichthys* (Actinopterygii, Saurichthyidae)

Ilja KOGAN

The diversity of continental Mesozoic invertebrates from Argentina

María B. LARA, Mateo D. MONFERRAN, Iracema A. ZACARÍAS, Victoria C. JIMÉNEZ, Hugo G. Barrios CALATHAKI & Oscar F. GALLEGO

Arthropod damage marks on twigs of the conifer *Patokaea* from the Upper Triassic of Poland

Grzegorz PACYNA, Danuta ZDEBSKA, Agata JARZYŃKA & Maria BARBACKA

"Elephant-skin textures" on multiple trackways of ornithomimid dinosaurs in Late Cretaceous lake margin deposits, Korea: occurrences and paleoecological implications

In Sung PAIK, Hyun Joo KIM & Jeong Kyu PARK

The earliest known hynobiid (*Liaoxitriton daohugouensis*) from the Jurassic of China

Yufen RONG, Liping DONG & Yuan WANG

A gigantic marine ostracod trapped in Burmese amber (mid-Cretaceous of Myanmar)

Lida XING, Benjamin SAMES, Ryan C. MCKELLAR, Dangpeng XI, Min BAI & Xiaoqiao WAN

Vertebrate fauna of a fissure filling from the Lower Cretaceous (Barremian–Aptian) of Balve, Westphalia, Germany

Achim H. SCHWERMANN, Lothar SCHÖLLMANN & Christian POTT

Cretaceous Burmese amber biota

Bo WANG

A new eobaatarid multituberculate from the Jehol Biota and implications for multituberculate phylogeny

Haibing WANG, Yuan-Qing WANG & Jin MENG

Ostracods from the Upper Cretaceous Jiaozhou Formation of Zhucheng, Shandong, China and their biostratigraphical and palaeoenvironmental significance

He WANG, Sha LI, Haichun ZHANG, Meizhen CAO & David J. HORNE