

# Programme LAK 2017

**Wednesday, 5 April**

**INF 235, Museum of Earth Sciences**

18:00-  
21:00

**Conference Desk open**

19:00-  
22:00

**Ice-Breaker Party**

# Thursday, 6 April

INF 252, Hall "Hörsaal Ost"

08:30 **Registration at the conference desk, payment of excursion on Saturday (optionally)**

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

## Session I: Oldest past

09:30-09:50 **Martínez, Juan:** Deep crustal metamorphic P-T evolution of a metadacitic dyke from the paleoproterozoic basement of the Tandilia belt, Rio de la Plata craton, Argentina

09:50-10:10 **Weber, Bodo:** Geologic and isotopic evidence for a supercontinent cycle from Rodinia to Pangaea in the Chiapas Massif Complex, Southern Mexico

10:10-10:30 **Walde, Detlef:** Paleoclimatic history of the Neoproterozoic Jacadigo-Corumbá units, Corumbá, Mato Grosso do Sul, Brazil

10:30-10:50 **Franco-Rubio, Miguel:** Obducted polymictic megabreccia by the Laurentia-Gondwana collision in Chihuahua, México

10:50-11:10 **COFFEE BREAK**

## Session II: Stratigraphy

11:10-11:30 **Rosas, Silvia:** Lower Jurassic siliceous sedimentary facies of Central Peru. Geochronology, stratigraphy and economic implications

11:30-11:50 **Oviedo, Angélica:** Characterization of Aurora rudist reef in Sierra Cuchillo Parado, Chihuahua, Mexico

11:50-12:10 **Koutsoukos, Eduardo:** Cenomanian–Coniacian (Cretaceous) foraminiferal and ammonite biostratigraphic record and palaeoceanographic events of the Sergipe Basin, northeastern Brazil – an overview

12:10-12:30 **Ifrim, Christina:** The Rosario section, Coahuila, northeastern Mexico and its potential as Global Stratotype Section and Point for the Turonian-Coniacian boundary (Upper Cretaceous)

12:30-14:20 **LUNCH BREAK**

## Session III: Thermochronology

14:20-14:40 **Glasmacher, Ulrich A.:** La.Te.Andes S.A., a new thermochronological laboratory in Argentina

14:40-15:00 **Hernández, Juan:** Deformation model and apatite fission track data in a fold and thrust belt with high exhumation rates. La Lluviosa range, Chapare. Bolivian orocline

15:00-15:20 **Kollenz, Sebastian:** Thermochronological constraints on the Cambrian to recent geological evolution of the Argentine passive continental margin

15:20-15:40 **Krob, Florian:** New insights on the geological evolution of the continental margin of Southeastern Brazil derived from zircon and apatite (U-Th-Sm)/He and fission-track data

15:40-16:00 **Stippich, Christian:** Sensitivity analysis of variability in rock thermal conductivity concerning implications on the thermal evolution of the Brazilian South Atlantic passive continental margin

16:00-18:00 **POSTER SESSION AND DRINKS**

**Transfer to historic city center (self-organized)**  
*Bus-Line 31 at "Technologiepark" to "Universitätsplatz" (ca. 20 min)*

19:00-22:00 **CONFERENCE DINNER**  
**Restaurant "Palmbräu-Gasse"**

# Friday, 7 April

(conference desk is open from 9 am)

## INF 252, Hall "Hörsaal Ost"

## INF 252, Hall "Hörsaal West"

### Session IV: Water

### Session V: Fossils

09:30-09:50 **Rüde, Thomas:** Arsenic and uranium in groundwaters of the Mexican altiplano

**Ifrim, Christina:** Morphometry in early juvenile Ammonoids, enabled by rinding tomography: a key to the patterns observed in their extinction at the K/Pg boundary?

09:50-10:10 **Cardona Benavides, Antonio:** Deep groundwater resources in altiplano Mexicano

**Solórzano Kraemer, Mónica:** Taphonomy of Phoridae in Mexican amber

10:10-10:30 **Razo Soto, Israel:** Distribution and mobility of Arsenic in soil to assess potential water pollution at a mining site in Central Mexico

**Marín-Leyva, Alejandro:** Geographic origin and residential mobility of three species of horses from two localities in west-central Mexico during Rancholabrean using strontium and oxygen isotopes

10:30-10:50 **Parica, Claudio:** Understanding the hydrological system in the Sumún Curá Plateau, Rio Negro and Chubut provinces, Argentina

**Stinnesbeck, Sarah:** Ground sloths on the Yucatán peninsula, Mexico

10:50-11:10

### COFFEE BREAK

### Session VI: Quaternary

### Session VII: Volcanism

11:10-11:30 **Torrescano-Valle, Nuria:** Paleoenvironmental modeling in Yucatan peninsula, Mexico

**Riller, Ulrich:** Volcano-tectonics at the northern tip of the Liquine-Ofqui fault zone, southern volcanic zone, Argentina

11:30-11:50 **Gonzalez, Silvia:** Early Human Occupation in the desert of NE Mexico

**Pitzke, Elias:** Volcano-tectonic activity shaping Copahue volcano, southern volcanic zone, Argentina (37.5°S)

11:50-12:10 **Silva, Aguinaldo:** Avulsive fluvial systems of the Taquari river and their relationship with the dynamics of Pantanal floods, Mato Grosse du Sul state, Brazil

**Arrieta, Gerardo:** Geochemical and isotopic characterization of the intrusive rocks and basement of Mazatlan area, Sinaloa (NW Mexico)

12:10-12:30 n.n.

**Schaaf, Peter:** Mantle xenoliths in alkaline basalts related to the opening of the Gulf of California, Mexico

12:30-14:00

### LUNCH BREAK

### Session VIII: Geomorphology and Archives

### Session XIX: Melts&Models

14:00-14:20 **Bubbenzer, Olaf:** Earth - Evolution at the dry limit (CRC 1211) – from hillslope processes to long-term biogeophysical effects in the Atacama Desert

**Riller, Ulrich:** Target-rock Fragmentation during peak-ring formation of the Chicxulub impact structure inferred from Expedition 364 drill core

14:20-14:40 **Schitteck, Karsten:** Last millennial environmental dynamics in the arid diagonal of South America inferred from lake and peat sediment records

**Schulte, Felix:** Structural characteristics of impact melt rock of the Chicxulub impact crater, Yucatán peninsula, Mexico: Results from IODP-ICDP expedition 364

14:40-15:00 **Kock, Sebastian:** Late Holocene development and modern environmental implications derived from a high-elevation cushion peatland in the Chilean Andes (27° S)

**Yutsis, Vsevolod:** Gravity and magnetic study in Isla Socorro (Revillagigedo archipelago), Mexico

15:00-15:20 **Mächtle, Bertil:** Pleistocene „Dryland moraines“ – palaeoclimatic reasons for landform correspondence in the Subarctic and the western tropical Andes

**Eisermann, Jan:** Analogue modelling of transpression: a new approach for understanding kinematic complexities of the Liquine-Ofqui Fault zone in the Patagonian Andes

15:20-15:40

### COFFEE BREAK Transfer to "Hörsaal Ost"

15:40-16:20

### CLOSING CEREMONY Poster Award and Excursion Details

## Saturday, 7 April

Start: Meeting Point in Front of the Institute of Earth Sciences INF 234

### EXCURSION

- 08:00-18:00 **Excursion “*Regional Geology and Archaeometry in the Heidelberg region*”**  
(held by U.A. Glasmacher and F. Krob, extra registration until March 20<sup>th</sup>, 45 € fee paid at the conference desk)
- 08:00 Start of the Excursion at the Institute of Earth Sciences INF 234
- 08:30 Excursion Stop 1: “Königsstuhl, Heidelberg” (Town Heidelberg) Explanation of the Regional Geological Evolution
- 10:00 Old Mining side “Grube Anna” (Village Schriesheim).
- 12:00 Ancient Mining side of “Napoleons hat” Millstones (Village Dossenheim)
- 12:30 Lunch break at the ancient Millstone mining side (Village Dossenheim)
- 14:00 Homo heidelbergensis, Evolution and Life (Village Mauer).
- 16:30 Dachsenfranz: Guiding and visit of Brewery (Village Zuzenhausen)
- 18:00-20:00 Dinner (not included) at Dachsenfranz Restaurant, arrival at Heidelberg ca. 20:45 h

## Posters

### INF 252, Foyer

#### ID

#### A

- 6010b **Deyse Almeida dos Reis**, Aníbal da Fonseca Santiago, Érik Sartori Jeunon Gontijo and Hubert Mathias Peter Roeser  
Analyses of the characteristics of bottom sediments of the Matipó river, a tributary of the doce river - Brasil

#### B – D

- 6013 **Silvia Irene Carrasquero**  
Geology and mineralogy of the Pb-Ag-Zn-(Cu) polymetallic veins Paramillos de Uspallata mining district, Mendoza, Argentina
- 6033 **Alejandro Cisneros de León**, Axel K. Schmitt  
Oxygen isotope geochemistry of zircons from el chichón volcano, Mexico: its role in diffusion and magma genesis

#### E

- 6046 **Leonardo Exequiel Escalante**, Sara Figueroa Villegas, German Aranda Viana and Fernando Hongn  
Quaternary Deformation in the Calchaqui Valley, Eastern Cordillera NW Argentina

#### F – G

- 6034 **Bernardo Ignacio García-Amador**, Luis Manuel Alva-Valdivia, Norma Betania Palacios-García and Xochilt Esther Zambrana-Áreas  
Paleomagnetism and AMS Studies of the Late Cretaceous Dipilto Batholith in Nicaragua: Tectonic Evolution of Chortis Block (Central America)
- 6005 **Ulrich A. Glasmacher**, Stephen Katzenberger, Florian Krob, Sebastian Kollenz, Ina Alt, Claudio Gaucher, Eduardo Rosello, Sabrina Schad, Thomas Will  
Thermal History and Long-Term Landscape Evolution of the Uruguayan Continental Margin

#### H

- 6023 **Mathias Hueck**, Sebastián Oriolo, István Dunkl, Klaus Wemmer, Pedro Oyhantçabal, Max Schanofski, Miguel Ángel Stipp Basei, Siegfried Siegesmund  
Phanerozoic low-temperature evolution of the Uruguayan Shield along the South American passive margin

#### I – J

- 6003c **Christina Ifrim**, Torrey Nyborg, Josep A. Moreno-Bedmar, Francisco J. Vega  
Late Cretaceous Fish Cans: Fish Preserved in Ammonite Body Chambers from Platy Limestones in Northeastern Mexico
- 6003b **Christina Ifrim**  
Recovery from Ocean Acidification: The Turonian Ecosystem of Vallecillo, Mexico
- 6003a **Christina Ifrim**  
Grinding Tomography: Insights into Fossils

#### K

- 6048 **Sebastian T. Kock**, Karsten Schitteck, Liliana Lupo, Andreas Lücke and Frank Schäbitz  
Stable isotope records ( $\delta^{13}\text{C}$ ,  $\delta^{18}\text{O}$ ) as paleoclimate proxies in vascular plant dominated high-Andean cushion peatlands: The Cerro Tuzgle Peatland (24° S, NW Argentina).

#### L

- 6045 **Fernando Leceta-Gobitz**, Bertil Mächtle, Gerd Schukraft and Bernhard Eitel  
Soil Development Along a Pleistocene Ground Moraine-Sequence in the Southern Peruvian Andes (Puquio, 14°S)
- 6016 **Beatriz Lima de Paula Silva**, Aguinaldo Silva and Detlef Hans-Gert Walde  
Flood Dynamics in the Pantanal of Paraguay-Paiaguás And Its Impacts in the Community of Barra Do São Lourenço, Mato Grosso Do Sul State, Brazil

**M – N**

- 6039 **Antonio Maldonado**, María Eugenia de Porras, Karsten Schitteck and José Rutilant  
Pollen Records from High Andean Lakes as Indicators of the Northern Edge of Southern Westerlies Dynamics in Subtropical Chile Since the Late Pleistocene

**O**

- 6010c **Edilson Oliveira**, Deyse Almeida dos Reis, Aníbal da Fonseca Santiago, Lilian Souza Marques, Laura Pereira Nascimento<sup>1</sup> and Hubert Mathias Peter Roeser  
Geochemical Characterization of the Waters and Sediments of the Piranga River Basin – Brazil

**P – Q**

- 6017b Marcela Remesal, **Claudio Parica** and María Elena Cerredo  
The Alta Sierra Volcanic Complex, the Youngest Expression of Somún Curá Magmatism. North Patagonia. Argentina
- 6017c Teresita F. Montenegro, Marcela B. Remesal, M. Salani Flavia and **Claudio A. Parica**  
Ultramafic Xenoliths in Basanites from Cerro Pilquiniyeu Chico, Extraandean Patagonia, Argentine.
- 6017a Marcela B. Remesal and **Claudio A. Parica**  
Inflated lava flow in the Somún Curá Plateau, Extra Andean Argentine Patagonia
- 6010a **Laura Pereira do Nascimento**, Hubert Mathias Peter Roeser, Aníbal da Fonseca Santiago, Deyse Almeida dos Reis  
Impacts of Mineral Activities on the Quality of Surface Water in the Cuadrilátero Ferrífero

**S**

- 6010e **Bianca Santiago Moreira**, Deyse Almeida dos Reis, Isabela Cristina de Sousa and Hubert Mathias Peter Roeser  
Environmental Analysis of Rio Matipó, Casca and Oratórios – Brazil
- 6010d **Erik Sartori Jeunon Gontijo**, Cláudia Hitomi Watanabe, Adnivia Santos Costa Monteiro, Gilmore Antônia da Silva, Paulo Sérgio Tonello, Kurt Friese, Hubert Mathias Peter Roeser, André Henrique Rosa  
Distribution of Arsenic in Aquatic Systems using Diffusive Gradients in thin Films and Ultrafiltration: Influence of Iron and Organic Matter
- 6044 **Karsten Schitteck**, Liliana C. Lupo, Sebastian T. Kock and Frank Schäbitz  
Late Holocene Landscape and Climate Evolution in the NW Argentine Andes Deduced from High-Andean Peat Records
- 6015 **Aguinaldo Silva**, Afrânio Soriano, Anderson Palmeira de Souza, Beatriz Lima de Paula Silva, Marcelo Turine, Detlef Hans-Gert Walde  
The Geopark Bodoquena - Pantanal - Gbp (Mato Grosso Do Sul State, Brazil): Importance of Scientific and Educational Activities
- 6029 **Gabriela Solís-Pichardo**, Luis Fernando Díaz-López, Peter Schaaf and Teodoro Hernández-Treviño  
Uncovering the Basement of a large Cordilleran Batholith: Geology, Geochemistry, and Geochronology of the Yelapa Metamorphic Complex, Puerto Vallarta, Mexico

**T – Y**

- 6009 Luz V. Gutiérrez-Ayala, **Nuria Torrescano-Valle**, Priyadarsi Debajyoti Roy  
Paleoenvironmental Reconstruction Multiproxy of Late Holocene in Northwest of Yucatan Peninsula, Mexico

**Z**

- 6008 **Maria Zimmermann**, Florian Krob, Ulrich A. Glasmacher and Peter C. Hackspacher  
Postintrusive Thermal Evolution of the Lower Cretaceous Alkaline Complex of Jacupiranga, Brazil, Using Fission-Track Dating