



## Programme

Tuesday, 29 March

**INF 235, Museum of Earth Sciences**

17:00–  
20:00

**Conference desk open**

18:00–  
22:00

**Icebreaker party**

## Wednesday, 30 March

**INF 252, Hall East**

**INF 252, Hall West**

**Opening Ceremony by University, Faculty and Institute representatives**

08:45– **Alida Höbener, German Science Foundation (DFG)**: Welcome remarks  
 09:15

**Christoph Breitkreuz**: The alumni network of Latin-American geoscientists GOAL: Structure, activities and service

**Session 1: Palaeontology**  
**Chair: Peter Bengtson**

**M. Leppe**, N. Varela, W. Stinnesbeck, H. Mansilla,  
 09:20– T. Jujihara: An Antarctic origin of the South  
 09:40 American temperate forests? New insights in an old question

**S. Giersch**, E. Frey, C. Ifrim, W. Stinnesbeck,  
 09:40– A.H. González-González: Late Cretaceous fish  
 10:00 assemblages in northeastern Mexico and their palaeobiogeographical significance

10:00– **C. Ifrim**, W. Stinnesbeck: Migration pathways of the late Campanian and Maastrichtian shallow facies ammonite *Sphenodiscus* in North America

10:20– **D. Rubilar-Rogers**: An overview on the dinosaurs and fossil birds of Chile\*\*

10:40–  
 11:00

COFFEE BREAK

11:00– **K. Smith**, E. Jiménez Hidalgo, J. Alvarado-Ortega:  
 11:20 Biogeographic implications of the first Paleogene vertebrate locality in tropical North America

11:20– **C. Salazar**, W. Stinnesbeck, L.A. Quinzio-Sinn, R.U. Bonilla-Parra, M. Alvarez: Late Cretaceous (Maastrichtian) sequence stratigraphy, biostratigraphy and paleobiogeography of the Quiriquina Formation in central Chile

11:40– **G. Patarroyo-Camargo**, P. Patarroyo, C. Sanchez: Benthic foraminiferal biostratigraphy of northern South America: problems and perspectives\*\*

12:00– **N. Varela**, M. Leppe, H. Mansilla: Fossil Hill, a key locality to the understanding of the evolution of the Eocene of South America and Antarctica

**Session 2: Volcanics, Earthquakes, Megatectonics; Focus Chile**  
**Chair: Heinrich Bahlburg**

**J. Cortés**, D. Remy, G. Gonzalez, J. Martinod, M. Chlieh: Normal upperplate faulting during the interseismic subduction period in northern Chile: a numerical model for the Mejillones and Salar del Carmen faults

**J. M. Hora**, G. Wörner, B. Singer, C. Johnson, B. Beard: Crystallization timescales at volcano Parinacota, Chile: the rejuvenation of an old magmatic system

**D. Díaz**, H. Brasse: Magnetotelluric study of the Western Cordillera (northern Chile), with a focus on Lascar volcano\*

**C. Breitkreuz**, S. de Silva, H. Wilke, J.A. Pfänder, A.D. Renno: Neogene to Quaternary ash deposits in the Coastal Cordillera of northern Chile: Depositional context, composition, Ar/Ar-ages and origin\*

**H. Bahlburg**, M. Spiske: Impact and sedimentary record of the February 27, 2010, Chile tsunami in southern Chile

**E. García Morabito**, V.A. Ramos: Andean evolution of the Aluminé fold and thrust belt, northern Patagonian Andes (38°30'–40°30' S)\*\*

**C. Burkert**, A. Freundt, D. Gilbert & S. Kutterolf: Origin of magmatic components in the Diamante Tuff

12:20–  
 14:00

LUNCH BREAK

\* Sponsored by the DAAD GOAL alumni network  
 \*\* Sponsored by DFG travel grants

## Wednesday, 30 March

### INF 252, Hall East

### INF 252, Hall West

#### **Session 1: Palaeontology** Chair: Stefan Götz

**C. Ifrim**, S. Giersch, W. Stinnesbeck, E. Frey, J.G.

14:00–14:20 López Oliva, A.H. González González: Research into the Turonian (Late Cretaceous) fossils from the platy limestone at Vallecillo, Nuevo León, Mexico – state of the art

14:20–14:40 **D. Hennhöfer**, S. Götz, S. Mitchell: Quantitative paleobiology of a *Biradiolites mooretownensis* bouquet (Lower Maastrichtian of central Jamaica)

14:40–15:00 **D. Uhl**, A. Jasper: Fire in the mire – evidence of palaeowildfires in Early Permian coal swamps of the Paraná Basin, Brazil

15:00–15:20 **A. Jasper**, M. Guerra-Sommer, D. Uhl, J.G. Mendonça Filho, M.I. Secchi, J. Manfroi, M. Cazzuloli Kleppig: Macroscopic charcoal and inertinites in Permian Gondwana coal deposits: are paleowildfires responsible for both?\*

15:20–15:40 COFFEE BREAK

15:40–16:00 **A. Jasper**, D. Uhl, C.V. Gonçalves, M.I. Secchi, J. Manfroi, N.T.G. Machado, J. Ellis: Geological heritage management in Latin America: the case of paleontological heritage in Brazil\*

16:00–16:20 **C. Höfling**, H. Dinamarca: A geosite project in the Magellan region, southern Chile

#### **Session 3: Volcanics, Earthquakes, Megatectonics; Focus Peru** Chair: Christoph Breitkreuz

**V. Carlotto**, H. Acosta, M. Mamani, L. Cerpa, R. Rodríguez, F. Jaimes, P. Navarro, E. Cuevas, C. Chacaltana: Geotectonic domains of Peru: implications for the evolution of the Andes\*\*

**R. Castroviejo**, J.F. Rodriguez, C.G. Tassinari, A. Willner: Ophiolites in the Peruvian Andes: preliminary data

F. Panca, **C. Breitkreuz**, S. Rosas, V. Carlotto: The Triassic–Jurassic rift system of the Mitu Group in Peru: Preliminary results on the volcanosedimentary facies evolution in the Urubamba Valley northeast of Cuzco\*

**A.P. Willner**, R. Castroviejo, J.F. Rodrigues: High- and medium-pressure metamorphism during Early Paleozoic times in the Eastern Cordillera of Peru (Tarma Province): evidence for microplate collision

**A. Decou**, H. v. Eynatten, I. Dunkl, M. Mamani, G. Wörner, D. Frei: Timing of early Andean uplift inferred from a detailed provenance analysis of Cenozoic sediments in southern Peru

**H. Bahlburg**, J.D. Vervoort, S.A. DuFrane et al.: The U-Pb and Hf isotope evidence of detrital zircons of the Ordovician Ollantaytambo Formation, southern Peru, and the Ordovician provenance and paleogeography of southern Peru and northern Bolivia

### INF 252, Hall East

16:20–17:00 DFG Plenary Meeting. Chair: **H.-J. Götze**

17:00–19:00 POSTER AND BEER SESSION

### INF 252, Lecture Hall

20:00–21:00 Public lecture by **Eberhard "Dino" Frey**: Mesozoic reptiles of northeast Mexico, a compilation of ten years' research

## Thursday, 31 March

### INF 252, Hall East

### INF 252, Hall West

**Session 4: Volcanics, Earthquakes,  
Megatectonics; Focus Argentina**  
**Chair: Werner Fielitz**

- 09:00– D. Iaffa, F. Sàbat, J.A. Muñoz, N. Carrera: Basin fragmentation by tectonic inversion and basement uplift: From rifting to foreland settings in Sierras Pampeanas and Santa Bárbara system, northwest Argentina
- 09:20– E.A. Rossello: The Atlantic margin between 33° and 41° S (Uruguay and Argentina): a tectonosedimentary revision\*\*
- 09:40– M.E. Ramos, D. Orts, F. Calatayud Basualdo, A. Folguera, V.A. Ramos: Evolution of the Andean orogenic front south of Bariloche area, Ñirihuau Basin and El Maitén Belt (~42° S)\*\*
- 10:00– A. Richter, R. Permodo, J.L. Hormaechea, L. Mendoza, D. del Cogliano, M. Fritzsche, M. Scheinert, R. Dietrich: Anomalous elastic crustal properties in Tierra del Fuego? Indications from earth tide observations
- 10:20– N. Hauser, M. Matteini, R. Omarini, M. Pimentel: History of crustal growth and recycling of western margin of Gondwana: U-Pb and Hf isotope data on turbidites and igneous rocks of the Paleozoic basement of NW Argentina\*\*
- 10:40– COFFEE BREAK
- 11:00– M. Ghiglione, C. Sue, G. Bujaleski: Relation between Jurassic rifting and active wrench tectonics in the southernmost Andes of Tierra del Fuego\*\*
- 11:20– H. Corbella, A. Coronato, B. Ercolano, P. Tiberi, D. Echazú: Geological aperçu of the Potrok Aike Lake area, southern Patagonia, Argentina

**German–Brazilian Workshop  
Chair: U.A. Glasmacher**

- Welcome and opening remarks by Prof. Dr. **Bernhard Eitel**, Rector of the Universität Heidelberg, Prof. Dra. **Maysa Furlan**, Prorector of the Universidade Estadual Paulista (Unesp) Prof. Dr. **Wolfgang Stennesbeck**, organizer of the 22nd Latin American Colloquium, and Prof. Dr. **Peter C. Hackspacher** (Unesp)
- 09:00– Prof. Dr. **Bernhard Heck** (Karlsruher Institut für Technologie, Karlsruhe, Germany): Status and perspectives of joint German–Brazilian research in geodesy
- 09:30– 10:00 Dipl.-Ing. (FH) **Leonhard Weixler** (BAUER Maschinen GmbH, Schrobenhausen, Germany): Deep-sea exploration - new technologies
- 10:30– 11:00 COFFEE BREAK
- 11:00– Dr. **Josiane Martins** (Vale): Vale Technological Institute Department
- 11:30– 12:00 Dr. **Christian Reichert** (BGR): DeRA – the German Mineral Resources Agency in the Federal Institute for Geosciences and Natural Resources (BGR)
- 12:00– 12:30 Dr. **Torsten Tula**: GHyCoP – the German Hydrographic Consultancy Pool (economic association)
- 12:30– 13:00 Dr. **Bertram Heinze** (DWIH): German House of Science and Innovation

- 13:00– 13:45 LUNCH BREAK

- GROUP PICTURE**  
13:45– 14:00 **Meeting point: INF 252, Lecture Hall, main entrance**

- 14:00– 15:00 Round-up with discussion of the **White Paper**, revision and signature of White Paper

## Thursday, 31 March

### INF 252, Hall East

### INF 252, Hall West

**Session 5: Resources and Applied Geology**  
**Chair: Andre Banning**

**V. Yutsis**, K. Krivosheya, O. Levchenko, J. Lowag,

14:00– A. Kotsarenko, D. Masuch Österreich: Bottom morphology and Recent sedimentation of Cerro Prieto water reservoir, NE Mexico: Geophysical study

14:20– **N. Schmidt**, R. Sieland, B. Merkel: Hydrogeological and hydrochemical exploration of a lithium-brine deposit - the Salar de Uyuni, Bolivia

14:40– C.C. Favarato, P.A. Roeser, **H.M.P. Roeser**: Environmental problems associated with mining in the iron quadrangle, Minas Geras, Brazil

15:00– **M.E. Vargas**, A. Lugo, J. Castillo: Prediction of the top of a reservoir located below the current drill bit position using the results from a zero-offset vertical seismic profile

15:20– **A. Banning**, A. Cardona, T.R. Rüde: Evolution of arsenic and uranium signatures in volcanic rocks, sediments and groundwater from San Luis Potosí, Mexico

15:40–  
16:00 COFFEE BREAK

16:00–  
16:20 **A. Caspary**: DAAD Fellowship opportunities

17:00–  
18:30 POSTER AND BEER SESSION

### Universitätsplatz (historic city center), Triplex Mensa

19:00–  
21:30 CONFERENCE DINNER

## Friday, 1 April

### INF 252, Hall East

### INF 252, Hall West

**Session 7: Environment and Palaeoclimate**  
**Chair: Wolfgang Stinnesbeck**

- 09:00– P. Roy, L. Perez, M.P. Jonathan, N. Lopez, R. Lozano, S. Lozano: Geochemical and magnetic signatures of sediments from paleo-lake Babicora: A high-resolution late Quaternary paleoclimatic register from western Chihuahua desert, Mexico
- 09:20– C. Mayr, M. Oehlerich, A. Lücke, H. Wissel, T. Haberzettl, C. Ohlendorf, F. Schäbitz, M. Wille, H. Corbella, B. Zolitschka: Younger Dryas cooling in the southern high latitudes? Insights from oxygen isotopes of Laguna Potrok Aike (Patagonia, Argentina)
- 09:40– 10:00 R. Dietrich, E. Ivins, J. Wendt, **H. Lange**, M. Fritsche, G. Casassa: Rapid crustal uplift in Patagonia as a consequence of increased ice loss
- 10:00– 10:20 **A. Wendt**, G. Casassa, J. Wendt, P. López, T. Schuler, H.-G. Maas, C. Mulsow, J. Leidich, J. Carrasco, A. Rivera, D. Briones: Glacial lake outburst floods in Patagonia: the case study of Lake Cachet II
- 10:20– 10:40 **J. Castro-Larragoitia**, Z. Berner, R. Perez-Rodriguez: Use of lead isotopes as environmental tracers in Mexico\*\*

10:40–  
11:00

COFFEE BREAK

**Session 8: Geoarchaeology**  
**Chair: Bertil Mächtle**

- 11:00– 11:20 **K. Lambers**: The earth science approach to archaeology: recent examples from Central and South America
- 11:20– 11:40 **B. Mächtle**, B. Eitel: Holocene environmental changes in southern Peru and their impact on pre-Columbian civilisations
- 11:40– 12:00 **K. Schittek**, M. Forbriger, B. Kromer, B. Mächtle, M. Reindel, F. Schäbitz, B. Eitel: Tracking late-Holocene environmental change in the western Andes of southern Peru ( $14^{\circ}$ ) using high-altitude peatland archives

12:00–  
12:20

LUNCH BREAK

**Session 9: Volcanics, Earthquakes, Megatectonics; Focus Central Andes**  
**Chair: Gerhard Wörner**

- G. Wörner**, S. Möller-McNett, M. Mamani, M. Brandmeier: An interactive map-based central Andean geochemical data compilation for use in basic research and prospecting

- D. Karátson, T. Telbisz, **G. Wörner**: Erosion rates and erosion patterns of Neogene to Quaternary stratovolcanoes controlled by age and climate in the Altiplano Plateau (Central Andes): an SRTM DEM based quantitative analysis

- B. Godoy**, G. Wörner, S. Kojima: The San Pedro-Linzor volcanic chain at  $22^{\circ}$  to  $22^{\circ}30'$  S: low-pressure evolution of Central Andean magmas on thick crust

- D. Rubiolo**, K. Ansdell: Cenozoic volcanism and mineralization in the Central Andes: a regional approach\*

- U. Riller**, A.R. Cruden, D. Boutelier, C.E. Schrank: Central Andean deformation patterns are caused by a crustal strength gradient

**Session 9: Volcanics, Earthquakes, Megatectonics; Focus Central America and Northern South America**  
**Chair: Hans-Jürgen Gursky**

- A. López**: The Nicoya big one expected earthquake in Costa Rica and its regional fault reactivation scenarios based on coulomb failure stress & slip tendency analysis\*

- H.-P. Schertl**, W.V. Maresch, F. Petersen: Massive garnetite from Margarita Island, Venezuela, a metamorphosed placer deposit?

- A. Beltrán-Triviño**, W. Winkler, A. v. Quadt: Orogenic development of the Eastern Cordillera (northwestern Andes, Colombia) as revealed by detrital zircons: preliminary results

- H.-J. Massonne**, T. Toulkeridis: High-pressure metapelites in the Cordillera Real of northern Ecuador

\* Sponsored by the DAAD GOAL alumni network  
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## Friday, 1 April

### INF 252, Hall East

#### **Session 11: Volcanics, Earthquakes, Megatectonics; Focus Mexico**

**Chair: Peter Schaaf**

14:00– **P. Schaaf:** Geochemical tracers of subducted materials in a complex continental magmatic arc:  
14:20 the case of the Trans-Mexican Volcanic Belt

14:20– **M. Hinderer, I. Torres Alvarado, J. Hornung, O. Lenz, P. Schaaf:** The Miocene transition of arc  
14:40 volcanism in central and SW Mexico: Geochemical and isotopic evidences and plate-tectonic significance

14:40– **J.A. Ramírez, S.A. Torres, R. Barboza:** Geological record of Gondwana related origin of Paleozoic units  
15:00 in NE Mexico: Granjeno Schist\*

15:00– **U.A. Glasmacher, M. Wipf, D.F. Stockli, P. Vermesch, E. Szymanski, R. Corona et al.:** First systematic apatite and zircon fission-track, and  
15:20 apatite, zircon and magnetite (U-Th-Sm)/He data from the Cerro de Mercado (Durango, Mexico) iron ore deposit

15:20– **C. Moya, E. Centeno-García, V.M. Dávila-Alcocer:** Evidence of Late Jurassic-Early Cretaceous extensional tectonics in central Mexico: Facies  
15:40 analysis and provenance of the marine successions of Peña de Bernal, Queretaro, Mexico\*\*

15:40–  
16:20 AWARDS AND CLOSING CEREMONY

POSTER REMOVAL PARTY

Saturday, 2 April - Monday, 4 April

**INF 235, Museum of Earth Sciences**

GOAL Workshop: GEO-RISK MANAGEMENT A GERMAN-LATINAMERICAN APPROACH

Please visit [www.goaldaad.com.ar/goal/](http://www.goaldaad.com.ar/goal/) for further information