

## Presentations Sedigroup GeoBerlin2023

### Talks

Monday, **04/Sept/2023** 1:30 pm

Location: Audimax

#### **Introduction and opening by the organising committee of GeoBerlin2023**

Anne Bernhardt

Freie Universität Berlin, Berlin, Germany

Thursday, **07/Sept/2023** 1:45pm - 2:00 pm

Location: Hall A (HFB) 350

Topics: 3.05 „Geomorphology and Sedimentology Beyond Boundaries“ - towards integrating geomorphology and sedimentary system science

#### **Headward drainage basin expansion drives Miocene incision along the Yangtze River, China**

Alexander Rohrmann<sup>1</sup>, Eric Kirby<sup>2</sup>, Wolfgang Schwanghart<sup>3</sup>

<sup>1</sup>Freie Universität Berlin, Berlin, Germany;

<sup>2</sup>University of North Carolina, Chapel Hill, NC, USA;

<sup>3</sup>Universität Potsdam, Potsdam, Germany

### Posters of the group

Tuesday, **05/Sept/2023**: 28

Topics: 1.27 Young Scientist Session

#### **Climatic Impact of the Little Ice Age on Sumatra, Indonesia**

Franziska Schwonke<sup>1</sup>, Alexander Rohrmann<sup>1</sup>, Anne Bernhardt<sup>1</sup>, Katleen Wils<sup>2</sup>

<sup>1</sup>Institute of Geological Sciences, Freie Universität Berlin, Berlin, Germany;

<sup>2</sup>Renard Centre of Marine Geology (RCMG), Department of Geology, Ghent University, Ghent, Belgium

Tuesday, **05/Sept/2023**: 27

Topics: 1.27 Young Scientist Session

#### **Leaf-wax n-alkane composition of an extinct Middle to Late Jurassic plant assemblage dominated by bennettitaleans**

Lisa von Nolting<sup>1</sup>, Alexander Rohrmann<sup>2</sup>, Christian Pott<sup>3</sup>, Baoyu Jiang<sup>4</sup>, Manja Hethke<sup>1,3</sup>

<sup>1</sup>Fachrichtung Paläontologie, Institut für Geologische Wissenschaften, Department Geowissenschaften, Freie Universität Berlin;

<sup>2</sup>Fachrichtung Tektonik und Sedimentäre Systeme, Institut für Geologische Wissenschaften, Department Geowissenschaften, Freie Universität Berlin;

<sup>3</sup>LWL-Museum für Naturkunde, Westfälisches Landesmuseum mit Planetarium, Referat Paläontologie, D-48161 Münster, Germany;

<sup>4</sup>Center for Research and Education on Biological Evolution and Environments, School of Earth Sciences and Engineering, Nanjing University, Nanjing 210023, China

Wednesday, **06/Sept/2023**: 86

Topics: 3.23 Mountain Building in the Alpine-Mediterranean domain – from mantle imaging to crustal and surface processes back in time - AlpArray and AdriaArray

### **Major Neogene shift in the tectono-sedimentary evolution of the Northeastern Alpine Foreland Basine**

Arthur Borzi<sup>1</sup>, Mark Naylor<sup>2</sup>, Peter McPhee<sup>1</sup>, Mark R. Handy<sup>1</sup>, Eline LeBreton<sup>1</sup>, Anne Bernhardt<sup>1</sup>

<sup>1</sup>Freie Universität Berlin, Germany;

<sup>2</sup>University of Edinburgh, UK

Wednesday, **06/Sept/2023**: 114

Topics: 4.11 Geo-scientific methods in Archaeology, Archaeometry and Experimental Archaeology

### **Erosion rate response to mining and deforestation, Elba Island**

Nathalia Cerón Espejo<sup>1</sup>, Anne Bernhardt<sup>1</sup>, Dirk Scherler<sup>2,3</sup>, Alexander Rohrman<sup>1</sup>, Wiebke Bebermeier<sup>2</sup>, Fabian Becker<sup>2</sup>, Hella Wittmann<sup>3</sup>, Tibor Dunai<sup>4</sup>

<sup>1</sup>Institut für Geologische Wissenschaften, Freie Universität Berlin, Germany;

<sup>2</sup>Institut für Geographische Wissenschaften, Freie Universität Berlin, Germany;

<sup>3</sup>German Research Centre for Geosciences GFZ, Potsdam, Germany;

<sup>4</sup>Institut für Geologie und Mineralogie, Universität zu Köln Cologne, Germany

Wednesday, **06/Sept/2023**: 47

Topics: 3.05 „Geomorphology and Sedimentology Beyond Boundaries“ - towards integrating geomorphology and sedimentary system science

### **A process-based model for fluvial valley width**

Jens Martin Turowski<sup>1</sup>, Aaron Bufe<sup>1,2</sup>, Stefanie Tofelde<sup>3</sup>

<sup>1</sup>GFZ German Research Center for Geosciences, Germany;

<sup>2</sup>Ludwig Maximilian University Munich, Germany;

<sup>3</sup>University of Potsdam, Germany

Sessions organized by our group:

**3.25 The links between deep-seated mechanisms, surface processes and landscape evolution**

*Time:* *Location: Wiwi 104*

Wednesday, 06/Sept/2023: 126

2:00pm - 3:30pm

*Session Chair: Lorenzo Gemignani*, Freie Universität Berlin

*Session Chair: Riccardo Reitano*, Univeristy of Rome "Roma Tre"

*Session Chair: Silvia Crosetto*, GFZ Potsdam

*Session Chair: Alexander Rohrmann*, Freie Universität Berlin

**3.05-1 „Geomorphology and Sedimentology Beyond Boundaries“ - towards integrating geomorphology and sedimentary system science**

*Time:* *Location: Hall A (HFB)*

Thursday, 07/Sept/2023: 350

10:00am - 3:00 pm

*Session Chair: Anne Bernhardt*, Freie Universität Berlin