



Technische Universität München

Frontiers in Earth Sciences



The lecture series welcomes two types of presentations: (i) We will continue the **invitation of outstanding international researchers** (Mode I) (ii) but we also welcome **presentations highlighting the collaborative research projects and potentials within the MGC** (Mode II). In these presentations, research groups of the MGC are welcome to present benchmark examples of their present work and to demonstrate collaboration potentials inside and beyond the MGC. These talks are expected to foster the discussion inside the MGC and to develop a platform for future collaborations.

We welcome all suggestions to m.krautblatter@tum.de

Summer semester 2023

All presentations will be presented in real in TUM Main Campus 2408 (if not indicated otherwise) and will be streamed live in Zoom

Zoom-Meeting, Thema: Frontiers in Earth Sciences <https://tum-conf.zoom.us/j/61487751530>

Meeting-ID: 614 8775 1530; Kenncode: 607963

April 21, 2023 (C 111 in der Theresienstr. 41)

2-3 pm: Andy Wickert (University of Minnesota and St Anthony Falls Laboratory) *"Southern Laurentide Ice Sheet advance and retreat: ~2000-year cycles paced by meltwater–climate feedback"*

May 5, 2023 (TUM 2408): Joint Seminar Munich Geocenter & GeoBio-Center LMU

2-3 pm: Manuel Aranda (King Abdullah University of Science and Technology): *"Exploring selective breeding as a strategy to increase the thermal resilience of reef-building corals"*

May 26, 2023 (TUM 2408)

2-3 pm: Chris Hilgers (Karlsruhe Institute of Technology): *"Climate, raw material supply and energy transition"*

June 16, 2023 (TUM 2408)

2-3 pm: Prof. Thomas Kenkmann (Albert-Ludwigs-Universität Freiburg) **“Earth on collision course: What happens during an asteroid impact?”**

3-4 pm: Prof. Olaf Eisen (AWI Potsdam) **“Polar Research in the 21st century - new advances, remaining challenges“**

June 30, 2023 (TUM 2408)

2-3 pm: Prof. Andrea Erhardt (University of Kentucky, US, TUM-IAS) **“Changing Sub-Surface Chemistry Resulting from a 26-Million-Year Unconformity: Porewater Chemistry from IODP Site U1553 in the South Pacific“**

Winter semester 2022/2023

All presentations will be presented in real in TUM Main Campus 2408 (if not indicated otherwise) and will be streamed live in Zoom

Jan 20, 2023 (TUM 2408)

2-3 pm: Prof. Th. Steuber, Earth Science Department, Khalifa University of Science and Technology, Abu Dhabi (UAE) **“Biogeodynamics of Cretaceous Carbonate Depositional Systems“**

Dec 16, 2023 (TUM 2408)

2-3 pm: Prof. Magnus Ivarsson (Naturhistoriska Riksmuseet, Stockholm) **“Fungi in deep rock and deep time“**

Summer Semester 2022

All presentations will be presented in real in TUM Main Campus 2408 (if not indicated otherwise) and will be streamed live in Zoom

May 20,2022 (LMU, C106, Luisenstraße 37)

2-3 pm: Prof. Marie-Amélie Boucher (Université Sherbrooke) **“Ensemble Flood Forecasting“**
(Moderation Wolfgang Schmahl)

June 10, 2022 (nur ZOOM)

2-3 pm: Prof. Alexander Shtukenberg (New York University): **“Twisted crystals“**

June 17, 2022 (TUM 2408)

2-3 pm: Dr. David Misch (Montanuniversität Leoben): **“A new workflow for top seal evaluation: Tracing hydrocarbon migration through mudstones“** (Moderation Claudia Trepmann)

June 24, 2022 (LMU, C106, Luisenstraße 37)

2-3 pm: Frau Dr. Martina Kölbl-Ebert (LMU): „Ladies with Hammers: 19th Century Female British Geologists and their Context“

July 1, 2022 (TUM 2408)

2-3 pm: Yann Klinger (Tectonic Lab IPG Paris): „Earthquakes, surface ruptures, fault structure - from observations to models“

July, 22 (TUM 2408)

2-3 pm: Prof. Michal Kucera (MARUM & Fachbereich Geowissenschaften, Universität Bremen): „Global change and marine plankton: move, adapt or die!“

Winter Semester 2021 / 22

All presentations will be presented in real in TUM Main Campus 2408 and streamed by Zoom. We welcome your personal attendance in the TUM lecture room according to 3G safety rules.

October 29,2021 2-4 pm

2-3 pm: Professor Mark Richards (Washington University, US): “What really killed the Dinosaurs”

3-4 pm: Prof. Daniel Vollprecht (Montanuniversität Leoben, Austria): “Waste Mineralogy – spotlights on an interdisciplinary research field”

November 12.11.,2021 2-3 pm

2-3: Prof M. Manga (UC Berkeley): “Submarine volcanic eruptions”

November 26.11.,2021 2-3 pm

2-3: Prof. Greg Beroza (University of Stanford, Co-Director at the Southern California Earthquake Center): “Recent Developments in Earthquake Monitoring with Machine Learning.”

December 10.12.,2021 2-3 pm

2-3 Prof. Elena Sturm: **Nanostructured Mineral-Based Materials**

3-4 pm Vollversammlung MGC

January 10-11.1.,2022

Presentations Sedimentology Position (tba)

January 14.1.,2022 2-3 pm

2-3: Dr. Lennart deNooijer (Netherlands Institute for Sea Research) „500 million years of foraminiferal calcification“

3-4: Prof. Dr. Jörg Herman (Uni Bern): "The Earth's deep water cycle“

January 28, 2022 3 pm: Graduation Ceremony

February 4.2.,2022 2-3 pm

2-3: Dr. Yan Lavallée (Chair of Volcanology and Magmatic Processes)

Summer Semester 2021

(Virtual in Zoom)

May 4, 2-3 pm

Prof. William Orsi (LMU): “The fate of organic carbon in marine sediment”

May 21, 2-3 pm

Prof. Wiemer (ETHZ): „Erdbebenrisiko bei Geothermieprojekten“

June 11, 2-3 pm

Dr. Aaron Bufe (GFZ Potsdam): “The impact of erosion on chemical weathering and the inorganic carbon cycle”

June 25, 2-3 pm

Dr. Ulrich Küppers (LMU): “Explosive volcanism in field and lab”