

## Conference

### Across the End Permian "Great Extinction": From Field Studies to Scientific Results

30 August - 2 September 2023

University of Lausanne, Switzerland



UNIL | Université de Lausanne



## Conference Program

**Tuesday 29 August at 18:00. Icebreaker in the Geopolis building.**

### **Wednesday 30 August - Synathlon building, room 1216**

**09:15 – 09:30 Opening ceremony of the conference** including welcome remarks by Professor Niklas Linde, Dean of the Faculty of Geosciences and Environment and by Professor Allison Daley, Director of the Institute of Earth Sciences.

**09:30 – 10:15** New results from the Permian-Triassic scientific program in Switzerland with Professor Torsten Vennemann, and introduction to posters summarizing 50 years of Permian-Triassic research in Lausanne by Aymon Baud.

**10:15 – 10:45** Coffee break and Poster session.

**10:45 – 11:30** Keynote talk by Sara Pruss: *A new Lower Triassic fossil record in the western United States - tiny fossils hiding in plain sight.*

**11:30 – 12:00** William Foster: *Quantifying the cause(s) of the end-Permian mass extinction in shallow marine ecosystems.*

**12:00 – 12:30** Xiaokang Liu: *Morphological evolution of marine animals during the Permian-Triassic mass extinction.*

**12:30 – 14:00** Lunch

### **14:00 – 18:00 Session 1: Biotic responses to extreme climatic and environmental crises.**

**14:00 – 14:45** Keynote talk by Elke Schneebeli on "*Mass extinction survival guide – plants in the Arctic*".

**14:45 – 15:15** Charline Ragon: *Steady states and bifurcation diagram for the Permian-Triassic climate.*

**15:15 – 15:45** Monica Gomez-Correra: *Ostracod body size and community evolution across the Permian/Triassic boundary at the Seis/Siusi section: Italy*

**15:45 – 16:15** Jood Al Aswad: *Taxonomic homogenization of marine ecosystems after the end-Permian mass extinction was physiologically controlled.*

**16:15 – 16:45** Coffee break and poster continuation.

**16:45 – 17:30** Keynote talk by Amalia Spina on "*The palynological response to the middle and late Permian extinction events across the equatorial and tropical belts*".

**17:30 – 18:00** Sylvie Bourquin: *Late Permian – Early Triassic non-marine record in western Tethys: climatic implications.*

**18:00 – 18:30** Benoit Beauchamp: *Rapid environmental improvement following latest Permian mass extinction in mid-latitude Sverdrup basin (arctic Canada).*

## **Thursday 31 August - Synathlon building, room 1216**

### **08:30 – 12:30 Session 2: Paleogeographic views.**

**08:30 – 9:00** Dimitri Papanikolaou on *“The Permo-Triassic formations of the Hellenides developed at the base of carbonate platforms or oceanic basins”*.

**9:00 – 9:30** Karmen Fio: *Late Permian/Early Triassic Stress Events and Permian–Triassic Boundary in Croatia.*

**9:30 – 10:00** Christian V  rard: *Tracking back Permian – Triassic sections from Oman over the Permian to Cenozoic Geodynamic and pal  ogeographic implications.*

**10:00 – 10:30** Charles Henderson: *Update on Permian conodonts in Western and Arctic Canada.*

**10:30 – 11:00** Coffee break and Poster session: Bilal Wadood poster on: *Connecting the Dots: Tracing the Impact of Permian Paleoclimate on Environmental Changes of Southern Gondwana's Tethys Margin (Pakistan).*

**11:00 – 11:30** Keynote talk by Lillit Sahakian: *Geohazards specialized Geopark of Armenia: the Chanakhchi Geosite with unique Permian-Triassic succession.*

**11:30 – 12:00** Benoit Beauchamp: *Permian low-latitude glendonites (Oman: New Mexico: south China) linked to enhanced upwelling in aragonite seas.*

**12:00 – 12:30** Sylvain Richoz: *Microbialites and sponges, unusual facies in the EPME aftermath around the Neotethys.*

**12:30 – 14:00** Lunch

### **14:00 – 18:00 Session 3, New geochemical tools and modelling.**

**14:00 – 14:45** Keynote talk by Jonathan Payne on *“Interpreting the end-Permian uranium isotope excursion.”*

**14:45 – 15:15** Torsten Vennemann: *Oxygen isotope compositions and temperatures of Early Triassic seawater a clumped isotope perspective.*

**15:15 – 15:45** Stella Buchwald: *Insights and perspectives from lipid biomarkers from the Permian/Triassic boundary in Svalbard.*

**15:45 – 16:15** Franziska Blattmann: *Examining Carbon Cycle Perturbations during the Smithian-Spathian in Central Spitsbergen.*

**16:15 – 16:45** Coffee break and Poster session continuation.

**16:45 – 17:15** Moghadam Mahdi Maaleki: *Reconstructing Local Marine Redox Conditions of Tethys Area during End Permian Mass Extinction Using I/Ca.*

**17:15 – 17:45** Oluwaseun Edward: *Marine sulphur isotope records and environmental changes during the Smithian-Spathian transition insights from nearshore and offshore Tethyan successions.*

**17:45-18:15** Thierry Adatte: *Coupling Timing and Tempo of Volcanism with the Mass Extinctions through Mercury and Tellurium Anomalies.*

**19:30 Conference dinner at Loxton restaurant, Rue du Pont 22,  
Lausanne (3 minutes walk from Flon Metro station)**

## Friday 1 September - Synathlon building, room 1216

### 9:00 – 12:30 Session 4: Biochronology, and new time calibrations of the Permian to Triassic transition

**9:00 – 9:45** Keynote talk by David Ware: *Griesbachian to Smithian ammonoids from Northern Indian Margin, with a review on the current state of knowledge of Early Triassic ammonoid biostratigraphy, evolution and biodiversity dynamics through this interval.*

**9:45 – 10:15** Thomas Brühwiler: *New lower Triassic ammonoid fauna from Oman.*

**10:15 – 11:00** Coffee break and Poster session continuation.

**11:00 – 11:30** Marc Leu: *Guryul Ravine and its treasures beyond the PTB.*

**11:30 – 12:00** Charles Henderson: *Update on Permian conodonts in Oman: Rustaq, Wadi Wasit and Batain.*

**12:00 – 12:30** Ali Murat Kiliç: *Genetic memory of Triassic conodonts.*

**12:30 – 14:00** Lunch

### 14:00 – 18:00 Session 5: Specific facies - Fossil-Lagerstätten and Coquina limestones

**14:00 – 14:45** Keynote talk Arnaud Brayard on “*Exceptional and unexpected Early Triassic marine assemblages from the western USA basin and South China.*”

**14:45 – 15:15** Aymon Baud: *Six main facies in the post-extinction basal Triassic (Griesbachian) of Oman, from deep to shallow and from euxinic to well oxygenated.*

**15:15 – 15:45** Sakineh Arefifard: *Redox conditions in Upper Permian and across Permian-Triassic boundary deposits of the Ali Bashi and Zal sections in NW Iran.*

**15:45 – 16:15** Aymon Baud: *The field trip guidebook and concluding remarks.*

**16:15 – 16:45** Coffee break and Poster session.

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