



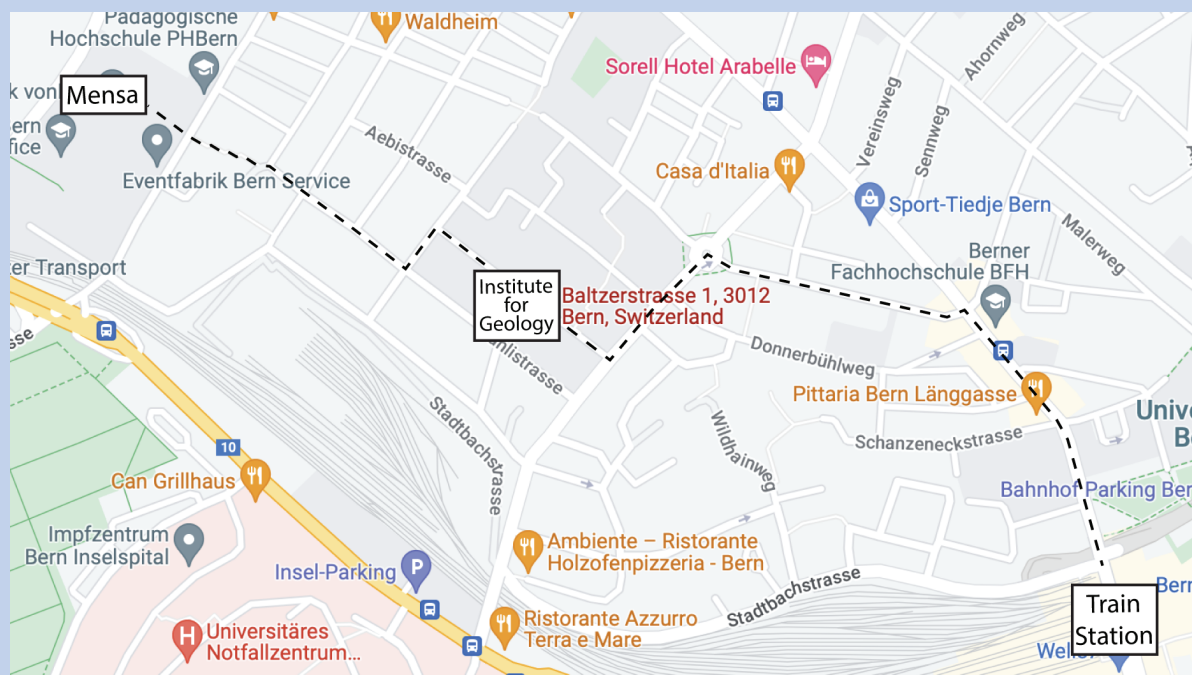
Doctoral Program in Mineral Sciences
Programme doctoral en Sciences des Minéraux



DOCTORAL PROGRAM
Earth Surface Processes & Paleobiosphere

Joint CUSO Day DPMS & ESPP

22nd November 2024
9:30 – 16:30



Institute of Geological Sciences
University of Bern
Baltzerstrasse 1+3
3012 Bern

lecture halls/seminar rooms
2nd floor



CONFÉRENCE UNIVERSITAIRE
DE SUISSE OCCIDENTALE



UNIVERSITÉ
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FACULTÉ DES SCIENCES
Section des sciences de la Terre



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Joint CUSO DPMS/ESPP Day 2024 – Friday 22.11.2024

Institute of Geological Sciences, University of Bern

Baltzerstrasse 1+3

3012 Bern

Haller auditorium and Gesteinspraktikum room at the second floor

09:00–09:30 Registration

09:30–09:45 **Introduction and news from CUSO DPMS** (J. Hermann / R. Tamblyn) and **ESPP** (A. Foubert / A. Rüggeberg)

09:45–10:30 New members – Short presentations:

Madeline Duret (UNIFR)	Using microbialites and evaporites as paleoarchives in poly-extreme rift setting (northern Afar)
Oliver Name (UNIFR)	The sedimentological Evolution of an Active Rift Basin: The Danakil Depression, Eastern Africa
Christoph Posh (UNIL)	Greenland Ice Sheet hydrology and dynamics at high elevations
Marie Hakimi (UNIBE)	Impact of climate change on basalt weathering rates
Martin Felder (UNIBE)	Multiple interglacial sequences in a Darwin-type barrier-reef lagoon: Implications for paleoclimate, sea-level changes and subsidence since the Middle Pleistocene
Matteo Furlan (UNIBE)	Swiss Alps 3D modeling: structural reconstruction and inversion of the Helvetic Nappes
New DPMS members	mod. by Renée Tamblyn

Presentation Part I

10:30–10:45 **Lili Loth** (DPMS) “Studying Archean geology: upcoming CUSO fieldtrip to Montana and Wyoming”

10:45–11:00 **Chantal Schmidt** (ESPP) “Tracing suspended sediment load within the channel network of the Gürbe catchment in the Swiss Pre-Alps”

11:00–11:15 **Kingshuk Kapuri** (DPMS) “Rift initiation in the lower to middle crust”

11:15–11:30 Short coffee break

11:30–11:45 **Uygar Karabeyoglu** (ESPP) “Multiproxy comprehensive study on the K-Pg boundary”

11:45–12:00 **Ankan Bhattacharyya** (DPMS) “Deciphering ages with garnet U-Pb dating”

- 12:00–12:15 **Frank Förster** (ESPP) “ $\delta^{65}\text{Cu}$ as a biomarker for the photophysiological state of a symbiotic coral”
- 12:15–12:30 **Julia Dietrich** (DPMS) “Ferric iron systematics in coexisting minerals of hydrous metaperidotites”
- 12:30–12:45 **Nora Corthésy** (ESPP) “Taxon-specific redox conditions control fossilization pathways”
- 12:45–13:00 **Diego Ignacio Toro Vivanco** (DPMS) “Heat production in the depleted and metasomatised cratonic mantle below Jagersfontein, South Africa”
- 13:00–14:00 *Well-deserved **Lunch** at Mensa vonRoll*

Presentation Part II

- 14:00–14:15 **Sebastian Stumpf** (DPMS) “Dating prograde metamorphism: U-Pb geochronology of allanite and REE-rich epidote in the Eastern Alps”
- 14:15–14:30 **Rocio Jaimes Gutierrez** (ESPP) “PETM Climate Dynamics in the Southern Pyrenees: Insights from Stable and Radiogenic Isotopes and their Implications for the Denudation Regime”
- 14:30–14:45 **Sarah Degen** (DPMS) “Volatiles in the lower continental crust”
- 14:45–15:00 **James Vincent** (ESPP) “Deciphering massive coral growth strategies in response to volcanic ash”
- 15:00–15:15 **Rob Webster** (DPMS) “Constraining oceanic lithosphere depletion: a stable Fe isotope perspective”
- 15:15–15:30 **Sofia Garipova** (ESPP) “Scale effect in catchment-averaged denudation rates from cosmogenic nuclides in the Alpine Rhine basin”
- 15:30–15:45 **Luca Pacchiega** (DPMS) “Redistribution of heat producing elements in the lower continental crust, Ivrea Verbano Zone, Italy”

End of presentations

- 15:45–16:15 **Steering Committee Meetings** **DPMS (Room t.b.d and zoom)**
ESPP (Room t.b.d and zoom)

From 16:00 **Farewell Apéro** all together (Gesteinspraktikum room)

~18:00 Closure of the Joint CUSO DPMS / ESPP Day

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