

Geomicrobiology and subsurface geochemistry in high mountain habitats and in cold water mineral springs

**A 3-day field trip to geomicrobiologically and geochemically interesting
Ecosystems in the Swiss Alps**

**for Participants of the Geosciences and Geoecology Program at the
Eberhard-Karls-University Tübingen and Guests**

Monday, August 1 to Wednesday, August 3, 2011

Guided by

Andreas Kappler, Eberhard-Karls-University, Tübingen, Harald Strauss, WWU Münster,
Kurt Hanselmann, swiss i-r+t, Zürich

- Locations:** Day 1: Tübingen – Gonzen - Rothenbrunnen - Alvaneu - Scuol
Day 2: Scuol – Fuschna - Nairs - Rablönch - Scuol
Day 3: Scuol - Wägerhus - Jöri Lakes - Tübingen
- Topics:** Iron dominated microbial habitats in former mine shafts, Low temperature geochemistry in mineral iron and sulfur springs, Geology of the Lower Engadin Window and the Silvretta nappe, Hydrologic changes in glacier retreat areas of the Jöri lake catchment, Weathering and erosion patterns in Bünden shale, carbonate and gneiss, Nutrient fertilization and biogeochemical cycling in high altitude aquatic ecosystems, Soil formation in glacier flood plains; initial colonization by microorganisms
Mineral water formation, past and modern mineral water wellness
- Accommodation:** Scuol, 2 nights, breakfast and dinner included
- Meeting point:** Monday, August 1, 09.45 at the former iron mine Gonzen, Sargans
- Costs:** CHF 170; included are accommodations for 2 nights, 2 breakfasts, 2 dinners, entrance fee to mine and museum. Not included: back pack lunches, travel
- Fitness:** Walking on rough mountainous terrain and work in the field for 7-9 hrs/day
- Clothing:** Good mountain walking boots, layers of cloths for warm, sunny as well as for rainy, cold weather or snow
- Insurance:** Is the responsibility of each participant, incl. REGA
- Participants:** 25 + guests
- Preparation:** Pre-excursion meeting: May, 25, 14.00 – 17.00 in room S522
Detailed scientific preparation: lectures slides on internet
Presentation of results: date and time tbd.
- Information:** Prof. Dr. Andreas Kappler, Eberhard-Karls-University Tübingen
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The detailed program will be sent by email during the summer semester