

11th Stable Isotope Network Austria (SINA) Meeting

Lecture Hall 2, Geocentre UZA 2, Althanstr.14, 1090 Wien

FRIDAY 4th NOVEMBER 2011

14:00 – 14:10 Welcome & Introduction (Andreas Richter)

SESSION 1 (Chair: Jörn Peckmann)

14:10 – 15:00 *Key Note Address*

Benjamin Brunner (MPI Marine Microbiology, Bremen, Germany)

The reversibility of dissimilatory sulfate reduction and the cell-internal multi-step reduction of sulfite to sulfide

15:00 – 15:20

Simone Ziegenbalg (Dept of Geodynamics and Sedimentology, University of Vienna)

Biogenic sulphur and carbonate deposits in Messinian evaporites, Sicily

15:20 – 15:40

Michael Pester (Dept of Microbial Ecology, University of Vienna)

Sulfate-reducing microorganisms in low-sulfate peatlands: overlooked key players in the intertwined biogeochemical cycles of peat soils?

15:40 – 16:00

Katrin Heindel (Dept of Geodynamics and Sedimentology, University of Vienna)

Reconstructing the formation of microbialites in post-glacial coral reefs using lipid biomarkers and carbon and sulphur isotopes

16:00 – 16:30

Coffee and Tea Break

SESSION 2 (Chair: Rebecca Hood-Novotny)

16:30 – 16:50

Filip Volders (Elementar Analysensysteme GmbH, Hanau, Germany)

Advancement in modern Elemental Analysis IRMS

16:50 – 17:10

Gerald Hofer (Dept of Geodynamics and Sedimentology, University of Vienna)

Stable isotopes (C, O) and strontium isotopes as a tool to decipher marine and non-marine environments in Upper Cretaceous cyclic sediments

17:10 – 17:30

Michael Lukas (Centre for Isotope Hydrology and Environmental Analysis, Joanneum Research Forschungsgesellschaft mbH, Graz, Austria)

Signature-shifts of ¹³C in Black Fungi during starvation periods suggest facultative uptake of atmospheric carbon

17:30 – 17:50

David Berry (Dept of Microbial Ecology, University of Vienna)

Foraging on the host: Uncovering host-symbiont interactions in the gut by combining stable isotope labeling and molecular tools

FRIDAY 4th NOVEMBER 2011 (continued)

- 18:00 – 18:40 **Lab Tours**
Stable Isotope Facility (SILVER) and NanoSIMS Facility
- from 19:00 **Heuriger**
(Heuriger Steinschaden - Nußdorf, Kahlenberger Straße 18, 1190 Wien)

SATURDAY 5th NOVEMBER 2011

SESSION 3 (Chair: Andreas Richter)

- 09:00 – 09:50 *Key Note Address*
Nicolas Brüggemann (Institute of Bio- and Geosciences, Forschungszentrum Jülich, Germany)
Application of isotope-specific infrared laser spectroscopy in ecosystem research
- 09:50 – 10:10 **Lionnel Mounier** (Thermo Fisher Scientific, Villebon, France)
A new high resolution double focusing gas isotope ratio mass spectrometer
- 10:10 – 10:40 **Coffee and Tea Break**
- 10:40 – 11:00 **Thomas Unterweissacher** (Geology and Economic Geology, Montanuniversität Leoben, Austria)
Fluid alteration of carbonates along the St. Radegund Thrust (Eastern Alps, Styria): a stable isotope approach
- 11:00 – 11:20 **Anna-Voica Bojar**
Stable isotope distribution in deep-sea hydrothermal barnacles, Manus Basin, Papua New Guinea: a key in understanding their ecology
- 11:20 – 11:40 **Birgit Wild** (Dept Chemical Ecology and Ecosystem Research, University of Vienna)
Exploring nitrogen transformations in cryoturbated arctic soils using stable isotope pool dilution assays
- 11:40 – 12:00 **Maria Mooshammer** (Dept Chemical Ecology and Ecosystem Research, University of Vienna)
¹⁵N-labeling experiments to explore nitrous oxide production by ammonia oxidizing archaea from soil
- 12:00 – 13:30 **Lunch at the Gasthaus “Zum Reznicek”** (Reznicekgasse 10, 1090 Wien)
(Lunch is included in the registration fee!)

SESSION 4 (Chair: Wolfgang Wanek)

13:30 – 15:00 **Posters**
(includes a 5 min primer to each poster & coffee/tea)

SESSION 5 (Chair: Simone Ziegenbalg)

15:00 – 15:20 **Rebecca Hood-Novotny** (Dept Chemical Ecology and Ecosystem Research,
University of Vienna)
Priming effects of biochar in Kenyan forest and agricultural soils

15:20 – 15:40 **Micha Horacek** (AIT – Austrian Institute of Technology, Tulln)
Backtracking the movements of migratory birds: Case studies of waterfowl
migration from Austria, Mongolia, Albania and Bulgaria

15:40 – 16:00 **Dieter Rank** (Center for Earth Sciences, University of Vienna)
Isotopic composition of river water as indicator for hydroclimatic changes in
the Danube Basin

16:15 **Generalversammlung SINA** - Verein für Stabile Isotopen Forschung
(General assembly of the Stable Isotope Network Austria - SINA)