

Conference Programme ESIR 8

June 25 - 30, 2005

Sun, 26-06-05

10.00 - 14.00 Registration Conf. Office KUBUS
14.00 - 18.00 Sightseeing Tour Meeting in the city
18.00 – 20.00 Registration Conf. Office KUBUS

Mon, 27-06-05

08.00 Registration Conf. Office KUBUS
09:00 Opening ESIR 8 Conf. Site KUBUS
 Organizers, G. Teutsch, Scientific Director of UFZ

Session 1: Contamination Conf. Site KUBUS, Lecture Hall

Chairman: D. Hunkeler

09:30 Compound-specific isotope methods in contaminant hydrogeology: State-of-the-art and challenges
D. Hunkeler & Y. Abe (inv1)

10:10 Stable isotope study of a volatile hydrocarbons contaminated landfill site, Bonfol, Switzerland
Thierry R. Oppikofer, Torsten W. Vennemann, Jorge E. Spangenberg, Markus Bill (o11)

10:30 Application of compound-specific stable carbon and hydrogen isotope analysis to characterize organic contamination of groundwater
Jeroen Verhack, Jan Bronders, Ilse Van Keer, Rudy Swennen, Jan Schwarzbauer, Tom N.P. Bosma (o12)

10:50 *Coffee break*

11:20 Evidences for in situ natural attenuation of Monochlorobenzene in an anaerobic contaminated aquifer
Ivonne Nijenhuis, Sylvia Uhlig, Arno Kaschl, Marcell Nikolausz, Matthias Kästner, Hans-Hermann Richnow (o13)

11:40 Stable isotopes as expert witness in traffic accidents: assessing the likelihood between forensic samples of motor oils
Jorge E. Spangenberg, Georges Pierrini, Christophe Champod, FrancoTaroni (o14)

12:00 Isotopic investigation of dissolved and sedimentary sulfur compounds for assessing in-situ biodegradation of petroleum hydrocarbons in a sulfate rich urban aquifer
Kay Knoeller, Michael Schubert (o15)

12:20 Tracing the impact of river bank filtration on the transport of xenobiotica in urban groundwater by stable isotopes
Karsten Osenbrück, Rolf Trettin, Kay Knöller, Gerhard Strauch, Hans-Reinhard Gläser, Monika Möder (o16)

12:40 *Lunch break* *UFZ Canteen*

Session 2: Geochemistry and Water

Conf. Site KUBUS

Chairman: J. Hoefs

- 14:20 Isotope fingerprints in the earth sciences: a critical discussion
Jochen Hoefs (inv2)
- 15:00 Stable isotope ratio measurements using the Finnigan NEPTUNE multicollector ICPMS using high mass resolution
Johannes Schwieters, Claudia Bouman (o21)
- 15:20 The mineral isotope composition of two Precambrian carbonatite complexes from the Karelian - Kola region
Marion Tichomirowa, Gerhard Grosche, Boris Belyatski, Elena Savva, Jörg Keller, Jens Götze, Wolfgang Todt (o22)
- 15:40 Coffee break**
- 16:10 Isotope geochemistry as a tool for investigation of the origin of increased salinity in the Cambrian-Vendian aquifer system in northern Estonia
R. Vaikmäe, E. Karreo, E. Kaup, A Marandi, T. Martma, L. Vallner (o23)
- 16:30 Development of methods for recovery of water from fluid inclusions for stable isotope analysis
Yuri Dublyansky (o24)
- 16:50 Determination of δD and $\delta^{18}O$ in brackish and saline natural waters. Part I: The question of distillation of water samples prior to isotopic analysis.
Adam Porowski, Peter Kowski (o25)
- 17:10 Isotopic evidences for a new type of groundwater in the Kinneret basin, Israel
C. Siebert, S. Geyer, P. Möller (o26)
- 19:00 Conference Dinner** **Leipzig Zoological Garden**
23:00 back

Tue, 28-06-05

Session 3: Ecology

Conf. Site KUBUS

Chairman: L. Wassenaar

- 08:30 Global application of stable hydrogen isotopes to wildlife forensics
Leonard I. Wassenaar, Keith A. Hobson, Gabriel J. Bowen (inv3)
- 09:10 Nitrogen isotope ratios as indicator of organic production
Hilmar Förstel, Angelika Basu, Markus Boner (o31)
- 09:30 Effects of clear cutting and soil preparation on natural ¹⁵N abundance and N concentration in the needle and soil of two boreal conifer tree species
S. P. Sah and H. Ilvesniemi (o32)
- 09:50 Carbon isotopes distribution along pine needles (*Pinus nigra*)
Lidia Barszczowska, Mariusz-Orion Jedrysek (o33)
- 10:10 Coffee break**
- 10:40 Potential of natural fouling communities for assimilation of fish farm derived particulate nitrogen: a case study in Gulf of Aqaba (Red Sea)
Sonja Lojen, Timor Katz, Anat Tsemel, Ehud Spanier, Dror L. Angel (o34)
- 11:00 CO₂ concentration and δ¹³C through time in sets of monthly air samples from downtown Parma and from the Parma and Taro river valleys, Italy
Antonio Longinelli (o35)
- 11:20 Carbon isotope discrimination affected by atmospheric pollutants
Ralf Wagner (o36)
- 11:40 Turnover of soil organic carbon - The microbial perspective
Christiane Kramer, Gerd Gleixner (o37)
- 12:00 C and O isotope working standards from C₃ and C₄ photosynthates
Jorge E. Spangenberg (o38)
- 12:20 Lunch** **UFZ Canteen**
- 13:30 Excursion **Freiberg**
20:00 back

Wed, 29-06-05

Session 4: Sedimentology

Conf. Site KUBUS

Chairman: M. E. Böttcher

- 09:00 Authigenic sulfur phases as recorders for black shale-triggered anaerobic oxidation of methane: Results from ODP Leg 207
M.E. Böttcher, Brumsack H.-J., A. Hetzel, A. Schipper (inv4)
- 09:40 Microbially-derived methane in coalbed gases: compound-specific carbon-isotopic study of coalbed gases from the Illinois Basin, USA
D. Strapoc, A. Schimmelmann, M. Mastalerz (o41)
- 10:00 Early diagenesis of sulphur in recent estuarine sediments (Authie Bay, N France)
Sonja Lojen, Nevenka Mikac, Cedric Gabelle, Michel Wartel (o42)
- 10:20 Sulfur and oxygen isotopes of Lower Miocene nonmarine evaporites in the Upper Silesian Coal Basin
S. Halas, T.M. Peryt, I. Pluta (o43)
- 10:40 Coffee break**
- 11:10 Ordovician and Silurian carbon isotope trend: a state of art report based on the East Baltic data
Tõnu Martma, Dimitri Kaljo (o44)
- 11:30 Variations of $\delta^{13}\text{C}_{\text{TOC}}$ values of clastic sediments from Thuringia related to biogeochemical carbon cycle
Karin Bräuer, Knut Hahne, Birgit Mingram, Ulrich Wand (o45)
- 11:50 Basin-Scale changes in Upper Cretaceous paleosols: paleoenvironmental implication for the Maastricht deposits, South Carpathians.
Ana-Voica Bojar, Dan Grigorescu, Franz Ottner, Zoltan Csiki (o46)
- 12:10 Lunch** **UFZ Canteen**
- 14:00 Poster Session Conf Site KUBUS
- 17:00 Advisory Board Meeting incl. Poster Evaluation
- 18:00 General Assembly President, Gen. Assembly
incl. Poster Award

Thur, 30-06-05

Session 5: Paleoclimatology

Conf. Site KUBUS

Chairman: G. H. Schleser

- 08:30 Stable isotopes as proxies for the reconstruction of past climates
G.H. Schleser (inv5)
- 09:10 A stable isotope record of an ice core from Akademii Nauk ice cap, Severnaya Zemlya, Russian Arctic
Diedrich Fritzsche, Rainer Schütt, Hanno Meyer, Heinrich Miller, Frank Wilhelms, Lev M. Savatyugin (o51)
- 09:30 Stable isotope investigations on tree-ring cellulose of Late Glacial pine chronology of Reichwalde (Lusatia). Effects caused by destruction of fossil woods.
M. Haupt, R. Wagner, T. Boettger (o52)
- 09:50 Effect of river regulation on the isotopic characteristics of river water and molluscs
István Fórizs (o53)
- 10:10 Coffee break**
- 10:40 Stable isotope study on the carbonate phases of the Basaharc loess-paleosol profile (Hungary)
Bernadett Bajnóczi, Erzsébet Horváth (o54)
- 11:00 Geochemical and isotopic variations in recent freshwater carbonates in Krka river, Croatia; Implication for climate reconstruction
Sonja Lojen, Baghdad Oudanne, Barbara Vokal, Wolfgang Papersch, Neven Cukrov (o55)
- 11:20 Environmental isotope studies in Croatia
Ines Krajcar Bronic (o56)
- 11:40 Holocene isotopic shift of atmospheric sulfur - a case history from Hungary
István Horváth, István Veto (o57)
- 12:00 Final Statements G. Strauch and S. M. Weise