

Organisation

Local organising committee

Rainer Schulin (chair), Iso Christl, Emmanuel Frossard, Ruben Kretzschmar,
Susan Tandy, Lenny Winkel

National organising committee

Matthias Achermann, Rizlan Bernier-Latmani, Moritz Bigalke, Stéphane Burgos,
Markus Egli, Michael Evangelou, Montserrat Filella, Alain Gaume, Janet Hering,
Armin Keller, Rolf Krebs, Markus Lenz, Jörg Luster, Reto Meuli, Christian Mikutta,
Maarten Nachtegaal, Bernd Nowack, Daniel Obrist, Jasquelin Pena, Laura Sigg,
Vera Slaveykova, Andreas Voegelin, Christiane Wermeille, Michael Zimmermann,
Stephan Zimmermann

Conference secretariat

Paolo Demaria (Demaria Event Management)

International Society of Trace Element Biogeochemistry

Erik Smolders (President)



Important Dates

October 1, 2016 – January 2, 2017: Submission of abstracts

March 24 – June 4, 2017: Online registration

For further information see www.icobte2017.ch



*14th International Conference
on the Biogeochemistry
of Trace Elements*

Management of trace elements
in the environment



*July 16 – 20, 2017
Zürich, Switzerland*

www.icobte2017.ch

General Topics

- Biogeochemical behavior of trace elements (TE) in the environment – from sorption, transport and transformation processes to global cycles
- Interactions of organisms with TE: from molecular mechanisms to ecological effects
- (Eco)toxicology of TE: effects of environmental TE contamination on health and ecosystem functions
- Monitoring, risk assessment and management of TE in the environment
- Micronutrient deficiencies and biofortification
- TE radionuclides in the environment

Plenary Speakers

Mélanie Auffan (Cerege Aix en Provence)

Engineered nanoparticles as sources of anthropogenic TE in the environment

Rizlan Bernier-Latmani (EPFL Lausanne)

The role of geomicrobial processes for the behavior and fate of uranium in the environment

Claudia Blindauer (University of Warwick)

Bioinorganic interactions of metals

Erick Boy (HarvestPlus)

Biofortification of staple crops with TE for human nutrition

Jian Feng Ma (Okayama University Chuo)

From molecular biology to TE accumulation in plants

Steve McGrath (Rothamsted Research)

Translation of biogeochemical TE research into environmental regulations

Edward Tipping (Lancaster University)

Speciation modeling in estimating metal accumulation in organisms and toxicity

Lenny Winkel (ETH Zürich)

Biogeochemical cycling of selenium

Special Symposia

Biogeochemistry of emerging TE in aquatic and terrestrial systems

Bert-Jan Groenenberg, Montserrat Filella, Andreas Voegelin, Kirk Scheckel, Sebastien Rauch

Rethinking waste for nutrient and energy recovery: challenges and opportunities for TE biogeochemists

Ganga Hettiarachchi, Kirk Scheckel, Enzo Lombi

Improving soil biodiversity, functionality and ecosystem services of TE contaminated soils under interacting effects of (phyto)management and climate change

Petra Kidd, Michel Mench, Carlos Garbisu, Jurate Kumpiene, Giancarlo Renella, Markus Puschenreiter, Wolfgang Friesl-Hanl, Francois Rineau

Risk assessment and remediation of TE in fresh water and marine sediments

Anna Sophia Knox, Jörg Rinklebe

Nanomaterials: Applications and impacts

Ralf Kaegi, Enzo Lombi, Susana Loureiro, Gregory Lowry, Sónia Morais

Rodrigues, Geraldine Sarret, Jason Unrine, Frank von der Kammer

Long-term fate of radioactive cesium and its control in the agricultural environment

Takuro Shinano, Atsushi Nakao, Brenda J. Howard, Erik Smolders, Jon Chorover

TE analysis of environmental samples with X-rays

Roberto Terzano, Koen Janssens, Ryan Tappero, Melissa Anne Denecke, Gerald

Falkenberg, David Paterson, Bradley Miller, Armin Gross, Fang-Jie Zhao

Metal hyperaccumulators: extreme TE biology and its applications

Stephan Clemens, Natalie Verbruggen

Effects of iron transformations on the biogeochemistry of TE

Andreas Voegelin, Thilo Behrends, Scott Johnston, Jeffrey Catalano, Erik Smolders

Antimony in the environment: Current research and future perspectives

Susan Wilson, Gudny Okkenhaug, Susan Tandy, Montserrat Filella

Interactions between biochars and TE in the environment

Yong Sik Ok, Jörg Rinklebe, Daniel Tsang, Patryk Oleszczuk, Filip M.G. Tack