

Chemistry and the Environment [EV] 
Morning Session – B8.B102

Chair: Jutta Hellstern, F. Hoffmann-La Roche

Session Endowment: Climeworks

- 10:45 **How Actionable Research in Chemistry can promote Sustainability [EV-011]**
Janet Hering, Eawag Dübendorf
- 11:15 **Safe and sustainable by design: A computer-based approach to redesign chemicals for reduced environmental hazards [EV-013]**
Joanke van Dijk, Empa, St Gallen
H. Flerlage, S. Beijer, C. Slootweg, A. van Wezel
- 11:30 **Europium recycling from e-waste using redox active ligands. [EV-014]**
Marie Perrin, ETH Zurich
V. Mougel
- 11:45 **Insights into the storage aging effects on dimer esters and other oligomers in beta-pinene secondary organic aerosol samples [EV-015]**
Julian Resch, University of Basel
K. Li, M. Kalberer
- 12:00 **Assessing melt effects on aerosol tracers in a firn core with non-target screening [EV-016]**
Carla Huber, Paul Scherrer Institut, Villigen
D. Salionov, F. Burgay, A. Eichler, T. M. Jenk, S. Bjelić, M. Schwikowski
- 12:15 **The Photo Transformation of C1 Compounds; Methanol, Formaldehyde and Formic Acid via Natural Water Components [EV-017]**
Morgan Vallieres, ETH Zurich
K. McNeill

Afternoon Session – B8.B102

Chair: Thomas Bucheli, Agroscope

- 14:30 **Climeworks – removing CO₂ from the Earth's atmosphere through direct air capture [EV-021]**
Cornelius Gropp, Climeworks
- 15:00 **An on-site sample preparation approach for plant eco-metabolomics and its application to agroecosystems in East Africa [EV-023]**
Jakob Lang, University of Zurich
S. E. Ramos, M. Smohunova, L. Reichert, F. Chidawanyika, C. Apel, L. Bigler, M. C. Schuman
- 15:15 **Tracing soil sorption and plant uptake by spinach (*Spinacia oleracea*) and radish (*Raphanus sativus*) of five antibiotics – experimental test with spiked soil [EV-024]**
Inna Nybom, ETH Zurich
S. van den Broek, T. D. Bucheli, C. S. McArdell, G. Garland
- 15:30 **Novel Identification of Human Pharmaceutical Metabolites in Untreated Wastewater by Wide Scope Suspect Screening [EV-025]**
Corina Meyer, Eawag Dübendorf
J. Hollender
- 15:45 **Exploring the Metabolomic Alterations in Diatom *Cyclotella meneghiniana* in Response to Hg(II) and MeHg Exposure [EV-026]**
João Santos, University of Geneva
W. Li, A. A. Keller, V. I. Slaveykova
- 16:00 **Interspecific biotransformation of micro-pollutants in fish from Swiss watercourses with different contamination levels [EV-027]**
Marco Franco, Eawag Dübendorf
J. Hollender, K. Schirmer

Inorganic & Coordination Chemistry [IC]
Morning Session – B6.003

Chair: Murielle Delley, University of Basel

- 10:45 **Rationally Designed Long-Wavelength Absorbing Metal Complexes as Photosensitizers for Photodynamic Therapy [IC-011]**
Gilles Gasser, Chimie ParisTech, PSL University
- 11:15 **Synthesis and Reactivity of a Stable Organoazide Iron Complex and its Relevance to C–H Bond Amination [IC-013]**
Wowa Stroek, University of Bern
M. Keilwerth, L. A. Malaspina, S. Grabowsky, K. Meyer, M. Albrecht
- 11:30 **Behavior of silver(I) ion binding with peptides inspired from Sile protein [IC-014]**
Alexandre Bianchi, University of Fribourg
K. M. Fromm
- 11:45 **Orientational self-sorting in octahedral palladium cages: scope and limitations of the cis-rule [IC-015]**
Jean de Montmollin, EPFL Lausanne
K. Severin
- 12:00 **Surface Morphology and Interfacial Electric Fields of Inorganic Materials [IC-016]**
Tzu Chin Chang Chien, University of Basel
M. F. Delley
- 12:15 **¹⁵N NMR Anisotropy on Transition Metal Imido Complexes: Link between Spectroscopy and Reactivity [IC-017]**
Yuya Kakiuchi, ETH Zurich
P. S. Karmakar, C. Copéret, I. A. Tonks

Afternoon Session – B6.003

Chair: Kay Severin, EPFL Lausanne

- 14:30 **Invited talk Inorganic Chemistry [IC-021]**
Speaker tbd.
- 15:00 **Synthesis and Anisotropic Magnetic Properties of LiCrTe₂ Single Crystals with a Triangular-Lattice Antiferromagnetic Structure [IC-023]**
Catherine Witteveen, University of Zurich
E. Nocerino, S. A. López-Paz, H. O. Jeschke, V. Y. Pomjakushin, M. Månsson, F. O. von Rohr
- 15:15 **Charge Transport via Redox Ligands in Quantum Dots [IC-024]**
Yan Vogel, Delft University of Technology
A. J. Houtepen, Y. B. Vogel
- 15:30 **Synthesis and antimicrobial activity of rhenium tricarbonyl complexes bearing medically relevant ligands and selected by computer-aided design [IC-025]**
Youri Cortat, University of Fribourg
N. Radakovic, M. Nedyalkova, F. Zobi, A. Pavic
- 15:45 **Alkali-Metal Silyl Zincates: Synthesis, Structure and Reactivity [IC-026]**
Sophia Belrhomari, University of Bern
E. Hevia
- 16:00 **Novel (C⁺C) Zwitterionic Gold(III) Complexes: Synthesis and Insight into the Mechanism of the Cycloauration Step [IC-027]**
Jorge González, University of Zurich
P. Tian, A. Arribas-Domínguez, F. López, J. L. Mascareñas, C. Nevado