

Chemistry and the Environment [EV] **Morning Session – PER 21, E140**

Chair: Thomas Bucheli, Thomas Bucheli GmbH


Session Endowment: Casale SA

- 10:45 **Chemistry Hacks: Tweaking Air Composition to Tackle Respiratory Virus Transmission [EV-011]**
Tamar Kohn, EPFL Lausanne
- 11:15 **Effect of surfactants on inactivation of *Bacillus subtilis* spores by chlorine [EV-013]**
Tianqi Zhang, EPFL Lausanne
M. I. Villalba, R. Gao, S. Kasas, U. von Gunten*
- 11:30 **In search of alternative herbicides to treat Swiss railway tracks [EV-014]**
Valérian Zeender, Agroscope
R. Kasteel, T. Poiger, I. Buerge
- 11:45 **Mining Actinomycetes' Metabolomes and Genomes for Anti-*Phytophthora infestans* Compounds [EV-015]**
Ola Abdelrahman, University of Fribourg
Q. Coxon, E. Abou-Mansour, F. L'Haridon, L. Falquet, P. Allard, L. Weisskopf*
- 12:00 **Organic micropollutants in combined sewer overflows challenge sustainable water management [EV-016]**
Viviane Furrer, Eawag, Dübendorf
C. Ort, H. Singer, C. Ort*, H. Singer*
- 12:15 **Preserving the Biotransformation Potential of Activated Sludge in Time: Towards Reproducible Incubation Experiments for Persistence Assessment [EV-017]**
Martina Kalt, Eawag, Dübendorf
C. Udressy, Y. Yu, A. Colliquet, K. Fenner*

Afternoon Session – PER 21, E140

Chair: Jutta Hellstern, Roche

- 14:30 **Environmental chemistry for a sustainable future [EV-021]**
Pierdomenico Biasi, Casale SA
- 15:00 **Biochars from chlorine-rich feedstock are low in polychlorinated dibenzo-*p*-dioxins, -furans and -biphenyls [EV-023]**
Jannis Grafmüller, Ithaka Institut
D. Rathnayake, N. Hagemann, T. Bucheli, H. Schmidt
- 15:15 **Differentiating Olefins and Phenols using the Stable Oxygen Isotope Composition of H₂O₂ Formed during Ozonation [EV-024]**
Seok Kim, Eawag, Dübendorf
T. B. Hofstetter, U. v. Gunten*
- 15:30 **Indirect aquatic photolysis of polyethylene glycol influences the biodegradability in soil and sediment: Linking kinetic simulations to experimental observations [EV-025]**
Kevin Kleemann, ETH Zurich
M. Sander*
- 15:45 **Extracellular Electron Transfer in *Geobacter Sulfurreducens* [EV-026]**
Salem Majouri, University of Fribourg
B. Giese, K. M. Fromm*
- 16:00 **Comparative Study of Chelating Agents in the Treatment of Heavy Metal Poisoning on Early Zebrafish Embryo Development [EV-027]**
Dib Chakif, University of Bern
A. Elhelbawi, J. Imhof, I. Gjurroski, S. Leidel*, J. Furrer*

Inorganic & Coordination Chemistry [IC] **Morning Session – PER 21, G140**

Chair: Murielle Delley, University of Basel

Session Endowment: Chemspeed

- 10:45 **Inspired by Nitrogenase: Dihydride Complexes for the H₂-Releasing Reductive Activation of Challenging Substrates [IC-011]**
Franc Meyer, University of Göttingen
- 11:15 **Nano onions based on an amphiphilic gold(I) cyclic trinuclear complex [IC-013]**
Atena B. Solea, EPFL Lausanne
D. Dermutas, F. Fadaei Tirani, K. Severin*
- 11:30 **Symmetry and Rigidity for Boosting Erbium-Based Molecular Light-Upconversion in Solution [IC-014]**
Ines Taarit, University of Geneva
S. Naseri, C. Piguet*
- 11:45 **Gold(III)-hydrides stabilized by novel (P[^]N[^]C) pincer ligands [IC-015]**
Jaime Martín, University of Zurich
C. Nevado*
- 12:00 **Cyclopentadienone Iron Complex-Catalyzed Hydrogenation of Ketones: The Influence of the Charge-Tag on Catalytic Performance [IC-016]**
André Bütikofer, ETH Zurich
V. Kesselring, P. Chen*
- 12:15 **Non-classical azolyidene metal complexes as potential anticancer therapeutics [IC-017]**
Jan Romano-deGea, EPFL Lausanne
P. J. Dyson*

Afternoon Session – PER 21, G140

Chair: Ross Milton, University of Geneva

- 14:30 **Enhancing Energy Research [IC-021]**
Ahmed Mahmoud, Chemspeed
- 15:00 **The Influence of an ortho-methyl Group in Rhodium-PYA Complex Reactivity and Catalysis [IC-023]**
Llorenç Benavent Benavent, University of Bern
J. Race, L. Studer, M. Albrecht*
- 15:15 **The Influence of SiO₂ Dehydroxylation on Offline Thermochromatography with ²⁰²Tl [IC-024]**
Jennifer Wilson, ETH Zurich/PSI
C. Gut, R. Eichler, N. P. van der Meulen, P. V. Grundler, P. Steinegger*
- 15:30 **Stabilization Effect of NH-S Hydrogen Bonds in Synthetic Iron-Sulfur and Iron-Selenium Clusters [IC-025]**
Alessandro Walker, ETH Zurich
M. Inoue, L. Grunwald, V. Mougel*
- 15:45 **Re-Evaluation of the Air-Mediated Response in Bi-Based Perovskite X-Ray Detectors [IC-026]**
Aditya Bhardwaj, ETH Zurich
K. Sakhatskyi, M. J. Gebhard, M. Kotyrba, S. Yakunin, M. Kovalenko*
- 16:00 **Tracking Ag⁺ ions from the SilE protein to the silver efflux pump in *E.coli* [IC-027]**
Chloé Morin-Payé, University of Fribourg
K. M. Fromm*