

SCS Fall Meeting 2022

September 8, 2022 – 08.30-18.30h

Irchel Campus, University of Zurich

Chemistry and the Environment – F32



Morning Session, Chair: Dr. Isabelle Worms

- 10:45 Oxidation processes for micropollutant abatement:
An Eldorado for environmental chemists [EV-011]
Urs von Gunten, Eawag, Dübendorf
- 11:15 Combination of advanced analytical tools with toxicological assays promote the understanding of transformation reactions occurring during wastewater ozonation [EV-013]
Tarek Manasfi, Eawag, Dübendorf
- 11:30 Laboratory validation of a laser absorption spectrometer for balloon-borne measurements of upper air water vapor [EV-014]
Simone Brunamonti, Empa, Dübendorf
- 11:45 In situ quantification of Cobalt and Nickel in natural waters using innovative chemical sensors [EV-015]
Nicolas Layglon, University of Geneva
- 12:00 Acidity of expiratory aerosols controls the infectivity of airborne influenza virus and SARS-CoV-2 [EV-016]
Aline Schaub, EPFL Lausanne
- 12:15 Adsorption and transport of water-soluble, biodegradable polymers in soils: Process elucidation using experimental model systems [EV-017]
Kevin Kleemann, ETH Zurich

Afternoon Session, Chair: Dr. Thomas Bucheli

- 14:30 Green Processes of the Future - Sustainability along the value chain [EV-021]
Christian Schäfer, DSM Nutritional Products Ltd.
- 15:00 Investigating the Applicability of Laboratory derived Toxicokinetics to the Field [EV-023]
Benedikt Lauper, Eawag
- 15:15 Organ-specific biotransformation in salmonids: insight into enzyme kinetics and micro-pollutant clearance [EV-024]
Marco Franco, Eawag
- 15:30 enviRule: An End-to-end System for Automatic Extraction of Reaction Patterns from Environmental Contaminant Biotransformation Pathways [EV-025]
Kunyang Zhang, University of Zurich
- 15:45 Development and scale-up of bio-based solvents by carbohydrate functionalization [EV-026]
Anastasiia Komarova, EPFL Lausanne
- 16:00 Decentralized solar ammonia: performance targets for environmental and economic benefits [EV-027]
Sebastiano D'Angelo, ETH Zurich



University of
Zurich^{UZH}

ETH zürich



SCS
Swiss Chemical
Society