

Award Lectures Plenary Sessions

Werner Prize 2024

«Monomers from Polymer»

September 5, 2024, 09.30–10.00h

Prof. Athina Anastasaki, ETH Zurich, received the prize for her excellence in research spanning across the broad areas of polymer synthesis, polymer self-assembly and chemical recycling, also referred to as depolymerization.



Sandmeyer Award 2024

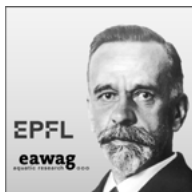
«Advanced wastewater treatment by ozonation for abatement of micropollutants from municipal wastewater effluents»

September 5, 2024, 10.00–10.30h

Speakers: Urs von Gunten, Christa S. McArdell

The Eawag team “Advanced wastewater treatment”, namely Prof. Urs von Gunten, EPFL Lausanne/Eawag, Prof. Juliane Hollender, ETH Zurich, Dr. Christa McArdell, Dr. Adriano Joss, Marc Böhler and Dr. Christian Abegglen, Eawag, and Prof. em. Hansruedi Siegrist, ETH Zurich,

is awarded in recognition of the team’s outstanding achievements in using chemistry to address a challenge of large societal importance: securing clean water.

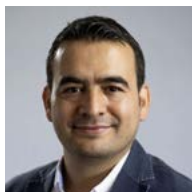


Green & Sustainable Chemistry Award 2023

«Porous Materials for Energy and Environmental Applications»

September 5, 2024, 16.30–17.00h

Prof. Ali Coskun, University of Fribourg, received the prize for his outstanding contributions towards the development of sustainable polymers for catalysis, energy and environmental applications.



SCS Industrial Science Award 2024

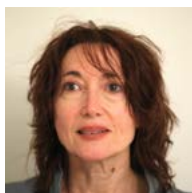
«Small Molecules Gamma Secretase Modulators for the treatment of Alzheimer’s Disease»

September 5, 2024, 17.00–17.30h

Dr. Rosa Maria Rodriguez Sarmiento,

F. Hoffmann-La Roche Ltd,

is awarded for her impactful contributions to numerous research initiatives in various therapeutic areas such as CNS and rare diseases, as well as cardiovascular and metabolic diseases coupled with her influence on the scientific community both within and outside the company.



THEMATIC PARALLEL SESSIONS

Analytical Sciences [AS]
Morning Session – PER 21, E120



Chair: Ralf Kaegi, Eawag

Session Endowment: Metrohm

- 10:45 **Highest precision radiocarbon measurements for accurate dating and tracer studies [AS-011]**
Lukas Wacker, ETH Zurich
- 11:15 **The central role of oxo clusters in zirconium and hafnium-based esterification catalysis. [AS-013]**
Jikson Mathew, University of Basel
C. Seno, M. Jaiswal, C. Simms, N. Reichholf, D. Van den Eynden, T. Parac-Vogt, J. De Roo*
- 11:30 **Retrospective Verification of Exposure of Human Blood Serum to Sesquimustard via Semi-Targeted Proteomic Analysis [AS-014]**
Gianin Thomann, Spiez Laboratory/University of Fribourg
M. Brackmann, C. G. Bochet, C. Curty*
- 11:45 **Oxygen Isotope Analyses of Phosphate and Organophosphorus Compounds by Orbitrap High-Resolution Mass Spectrometry [AS-015]**
Nora Bernet, Eawag / ETH Zurich
F. Tamburini, T. B. Hofstetter*
- 12:00 **Conformational Analysis with High-Resolution mid-IR Laser Absorption Spectroscopy [AS-016]**
Miloš Selaković, Empa
L. Emmenegger, R. Zenobi, B. Tuzson*
- 12:15 **OctoChemDB: A Web Service for Efficient Dereplication of Natural Products using High-Resolution Mass Spectra [AS-017]**
Ricardo Silvestre, HEIA Fribourg
R. Martinent, V. Mutel, C. Portmann, L. Menin, L. Patiny

Afternoon Session – PER 21, E120

Chair: Chan Cao, University of Geneva

- 14:30 **Mitigating Bottlenecks in NIR Model Development [AS-021]**
Christoph Jansen, Metrohm Switzerland
- 15:00 **Label free identification of full-length proteins and protein modifications using a nanopore [AS-023]**
Verena Rukes, EPFL Lausanne
E. Norkute, G. Barnikol, J. Gao, C. Cao*
- 15:15 **Quantification of laser generated aerosols via microdroplet calibration using a downwards pointing ICP-TOFMS [AS-024]**
Tobias Schöberl, ETH Zurich
M. Bachmann, D. Günther*
- 15:30 **The potential of ultra-trace lanthanide impurities in nuclear forensic evidence [AS-025]**
Michael Hofstetter, ETH Zurich
S. Röllin, P. Steinegger
- 15:45 **Detection of nanoplastics using SERS tags at environmentally relevant concentrations [AS-026]**
Moritz Häffner, Adolphe Merkle Institute, Fribourg
B. Rothen-Rutishauser, P. Taladriz-Blanco, A. Perti-Fink*
- 16:00 **Capacitive displays as direct signal transducers for potentiometric measurements [AS-027]**
Yaotian Wu, University of Geneva
E. Bakker*