

Abstract codes

PS	Plenary Session
AS	Analytical Sciences
CE	Catalysis Sciences & Engineering
CC	Computational Chemistry
EV	Chemistry and the Environment
IC	Inorganic Chemistry
MC	Medicinal Chemistry & Chemical Biology
OC	Organic Chemistry
PC	Physical Chemistry
PCI	Polymers Colloids & Interfaces
PI	PI Session
[XY-001]...[XY-033]	Oral Presentations
[XY-101]...[XY-199]	Poster

PI SESSIONS**24. AUGUST 2023, 14.30–15.30H****PI Session 1****B6.002**

14:30	Metalloenzyme (electro)catalysis for hydrogen and ammonia production [PI-011] Ross Milton, University of Geneva
14:50	Catalysis by Inorganic Materials: Control at the Surface by Tailored Interfaces and Electric Fields [PI-012] Murielle Delley, University of Basel
15:10	A tale of two metals: switching selectivity towards CO₂ reduction in heptacoordinate complexes [PI-013] Albert Ruggi, University of Fribourg F. Drogue, M. Natali, A. Ruggi, M. Natali

PI Session 2**B6.003**

14:30	Manoeuvring chemical reactions one degree of freedom at a time [PI-021] Jutta Toscano, University of Basel L. Xu, S. Willitsch
14:50	In-situ optical spectroscopy to capture the birth of morphology [PI-022] Takaji Adachi, University of Geneva
15:10	Molecules in motion: Capturing and controlling molecular dynamics through chirality [PI-031] Malte Oppermann, University of Basel F. Zinna, J. Lacour, M. Chergui

PI Session 3**B6.004**

14:30	An efficient and compact plate-type reactor for large-scale biogas methanation [PI-023] Emanuele Moioli, Hitachi Zosen Inova
14:50	Augmenting large language models with chemistry tools [PI-032] Andres Bran, EPFL Lausanne S. Cox, O. Schilter, C. Baldassari, A. D. White, P. Schwaller
15:10	Tailoring molecular fluorescence by polymerization-mediated charge transfer [PI-033] Yinyin Bao, ETH Zurich

THEMATIC PARALLEL SESSIONS**25. AUGUST 2023, 10.45–12.30H AND 14.30–16.15H****Analytical Sciences [AS]
Morning Session – B8.B101**

Chair: Stefan Schürch, University of Bern

Session Endowment: Merck

10:45	Analytical advancements to unravel the effects of organic matter on trace elements cycling in the Environment [AS-011] Julie Tolu, Eawag Dübendorf
11:15	How to Overcome Analytical Challenges Commonly Encountered in the Analysis of Cr and Cr(VI) in Environmental and Biological Matrices [AS-013] Jelle Verdonck, KU Leuven
11:30	All Covalently Bound Ion-Selective Membranes for Increased Stability in Potentiometric Sensing [AS-014] Tara Forrest, University of Geneva E. Bakker
11:45	Rapid Pesticide Screening by Swab Spray Mass Spectrometry [AS-015] Thomas Muggli, University of Bern
12:00	Targeted phosphoproteomics to reveal mTOR pathway signalling dynamics in zebrafish [AS-016] Nikolai Huwa, Eawag Dübendorf
12:15	ALPINAC – A non-target screening algorithm for high-resolution mass spectra and its application to the detection of halogenated greenhouse gases [AS-017] Katharina Höveler, Empa Dübendorf L. Constantin, M. Guillevic, P. Schlauri, M. K. Vollmer, S. Reimann

Afternoon Session – B8.B101

Chair: Hanspeter Andres, METAS

14:30	In search of accuracy: The road to high-quality certified reference materials to achieve comparability of chemical measurements [AS-021] Lukas Rigger, Sigma-Aldrich Production GmbH K. Breitrock
15:00	Identifying Biomarkers and Habitability Indicators on Polygonal Structures using Laser Mass Spectrometry [AS-023] Luca Knecht, University of Bern S. Gruchola, C. S. Cockell, P. Keresztes Schmidt, C. P. de Koning, M. Tulej, N. Thomas, A. Riedo, P. Wurz
15:15	Detection of Nucleobases and other N-Heterocycles with Laser Desorption Ionisation Mass Spectrometry for In Situ Space Exploration [AS-024] Nikita Boeren, University of Bern P. Keresztes Schmidt, C. P. de Koning, S. Gruchola, L. N. Knecht, M. Tulej, A. Riedo, P. Wurz
15:30	Single-Molecule Peptide Identification using Fluorescence Blinking Fingerprints [AS-025] Salome Püntener, EPFL Lausanne P. Rivera-Fuentes
15:45	Droplet-based microfluidic platform for operando X-ray absorption spectroscopy of single-atom heterogeneous catalysts in organic synthesis [AS-026] Thomas Moragues, ETH Zurich G. Giannakakis, C. Borca, T. Huthwelker, A. Bugaev, A. Clark, A. deMello, J. Pérez-Ramírez, S. Mitchell
16:00	Can breath components be quantified with secondary-electrospray ionization coupled to mass spectrometry? [AS-027] Cedric Wüthrich, ETH Zurich R. Zenobi, S. Giannoukos