

SCS Spring Meeting 2023

The SCS Spring Meeting is a one-day symposium and provides a high-quality program with national and international speakers of a certain topic. The 2023 focus' on *Chemistry and Physics of the Atmosphere*.

'Chemistry and Physics of the Atmosphere'

While the discussion about climate change focuses in wide parts on the role of CO₂ and other greenhouse gases, there are multiple further constituents, processes, and interactions, which find less interest or understanding in the public and science community. Still, they contribute equally to forecastable, global atmospheric developments affecting all of us. Topics such as the global impact of the anthropogenic nitrogen cycle on the environment, surface - atmosphere exchange processes, characterization of the chemical composition of (organic) aerosol particles and organic trace gases, chemical reactions at aerosol particles, geochemistry of CO₂ mineralization, or the mitigation of atmospheric CO₂ by catalytic conversion into fuel are just a few examples. To unravel and to understand the respective processes is the goal of the field of *Chemistry and Physics of the Atmosphere*.

The event gathers experts from all these fields, and others, of chemical or physical nature, with the aim of providing the non-experts insights into a science probably less known to many of us but of utmost importance for our future.

Sponsors and Exhibitors



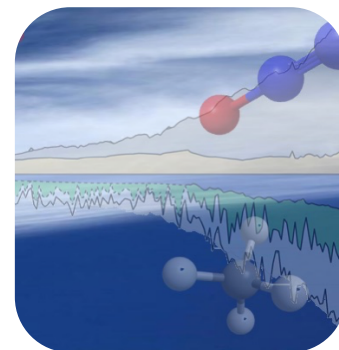
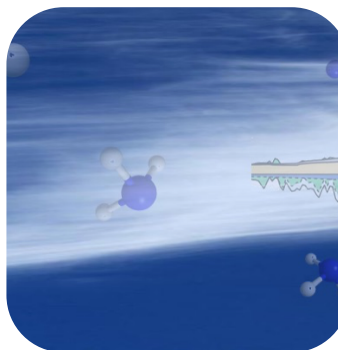
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SCS Spring Meeting 2023

Chemistry and Physics of the Atmosphere

April 14, 2023, 09.00 - 18.30

Irchel Campus, University of Zurich



University of
Zurich ^{UZH}

Swiss Chemical Society
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SCS
Swiss Chemical
Society

Organizing Committee

Prof. Roger Alberto, University of Zurich
Dr. Ulrich Krieger, ETH Zurich, Chair of the Swiss Commission for Atmospheric Chemistry and Physics (ACP)

Registration

Registration is mandatory. Please proceed on sm23.scg.ch
A limited number of registrations can also be accepted on the morning of the event but waiting time is to be expected.

Deadlines

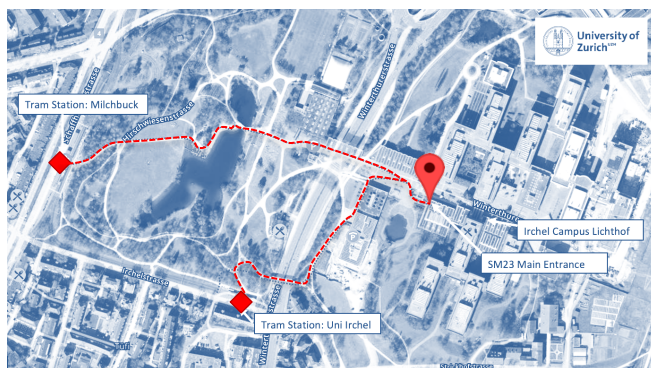
Exhibitor registration March 10, 2023
Participant registration March 26, 2023

Fees

- SCS Members free of charge
- Non-members, regular CHF 100
- Non-members, student CHF 50

Location

University of Zurich, Irchel Campus
Winterthurerstrasse 190
8057 Zürich



Program

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- 09.15 Welcome and Opening of the Symposium
Prof. Roger Alberto, University of Zurich
- 09.30 **Prof. Claudia Mohr**, University of Stockholm (SWE)
«From carbon emissions to cloud formation: The role of aerosol chemistry in feedbacks between climate and vegetation»
-
- 10.15 **Prof. Markus Kalberer**, University of Basel
«The Need of Novel Particle Composition Metrics to explain the link between Aerosol Particle Composition and Cellular Toxicity Pathways»
-
- 11.00 Short Break
-
- 11.30 **Prof. Ken Carslaw**, University of Leeds (UK)
«Atmospheric new particle formation: From chemistry to global climate»
- 12.15 Werner Prize Winner 2023
Prof. Victor Mougél, ETH Zurich
-
- 12.50 Lunchbreak / Commercial Exhibition
- 13.30 SCS General Assembly 2023
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- 14.00 **Prof. David Fowler**, UK Centre for Ecology & Hydrology, Edinburgh (UK)
«The global Nitrogen cycle, an update on the major fluxes, human influence and effects»
- 14.45 **Prof. Thomas Peter**, ETH Zurich
«Physics and chemistry of aerosols to be injected into the stratosphere to cool the climate – should we participate in their study? »
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- 15.30 Short break
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- 16.00 **Prof. Diana Ürgé-Vorsatz**, Central European University, Vienna (AUT)
«Topic on climate change and sustainable energy»
- 16.45 **Prof. Jürg Matter**, University of Southampton (UK)
«Carbon dioxide removal via mineralization and enhanced rock weathering»
- 17.30 **Prof. Robert Schlögl**, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin (GER)
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«Carbon capture and use: Potential for climate change mitigation and challenge for catalysis chemistry»

18.15 Closing Remarks

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