Leipziger Meteorologisches Kolloquium

Dienstag, 05.02.2023, 13.00 Uhr, TROPOS, Seminarraum, Geb. 23.1 und

online https://eu02web.zoom.us/j/63788542937?pwd=VlYvL1J0M1ltcUF3aHh0YVV8WitJdz09
ID: 637 8854 2937, Passcode: 792332

Prof. em. Urs Baltensperger

(Prof. em., formerly head of Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, Villigen PSI, Switzerland)

*Aerosol research in the past, present and future: Impactful and rewarding*

Aerosol science has seen enormous developments in the fast few decades. This has to a great extent become possible thanks to the innovation in instrument development, both for aerosol physics and aerosol chemistry. An example in aerosol physics is the development in size determination of particles down to 1 nm. In aerosol chemistry, mass spectrometry is to be mentioned, where the developments in sensitivity, mass resolution and resolving power, as well as online capabilities has allowed us to tackle problems that we would not have dreamed of a few decades ago.

This talk will address a number of examples, where this new instrumentation has been decisive in addressing research questions in areas of highest societal importance, i.e., aerosol and climate, and aerosol and health. Specifically, new particle formation, aerosol source apportionment, aqueous phase chemistry, and health impacts of aerosols will be mentioned. The good news is that many research questions are still open, such that it will continue to be rewarding to study aerosol science and perform research in this highly interdisciplinary area.

Alle interessierten Kolleginnen und Kollegen sind herzlich eingeladen. All interested colleagues are very invited.