

Curriculum Vitae

Personal Data

Name: Martin Gysel
Date of Birth: 26. Nov. 1974
Nationality: Switzerland

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Education

1995-2000: Study of physics, Swiss Federal Institute of Technology Zurich (ETHZ).
Apr 2000: Diploma in Environmental Physics at ETHZ passed “with distinction”.
(Diploma thesis: “Das Feuchtigkeitsverhalten von Aerosolpartikeln bei tiefen Temperaturen”.)
2000-2003: PhD thesis at ETHZ and Paul Scherrer Institut (PSI): Hygroscopic properties of aerosols. Investigations of particles from jet engines and the remote troposphere.
Nov 2003: Received Dr. sc. nat. from ETHZ.

Professional Experience

Jan-Dec 2004: Postdoctoral research fellowship at University of Manchester Institute of Science and Technology (UMIST, UK) granted by the Swiss National Science Foundation.
Jan-Jun 2005: Research associate at The University of Manchester (former UMIST and Victoria University of Manchester) at the School of Earth, Atmospheric and Environmental Sciences.
2005-2013: Scientific officer in the Laboratory of Atmospheric Chemistry at the Paul Scherrer Institute in Switzerland.
from 2013: Lecturer at ETH Zurich of the course “Aerosols I: Physical and Chemical Principles”.
from 2014: Head of the aerosol physics research group at the Laboratory of Atmospheric Chemistry at the Paul Scherrer Institute in Switzerland.

Various Functions

2009-2013: Co-editor of the scientific journal Atmospheric Chemistry and Physics.
2010-2014: Vice president (2010-2012) and president (2012-2014) of the “Gesellschaft für Aerosolforschung” (GAeF).
from 2014: Secretary General of the International Aerosol Research Assembly (IARA)
from 2015: Member of the “Schweizerische Kommission für die hochalpine Forschungsstation Jungfrauoch” of the Swiss Academy of Sciences.

Selected Grants

- Jan-Dec 2004: Prospective researcher fellowship at the University of Manchester Institute of Science and Technology (UMIST), UK, granted by the Swiss National Science Foundation.
- 2007-2010: Co-PI of the research project "Cloud Condensation Nuclei and Carbonaceous Aerosol Characterisation at the Jungfraujoch Research Station" funded by the GAW-CH-Plus programme of MeteoSwiss.
- 2009-2011: PI of the research project "Soot Nanoparticles in the Past and Present Atmosphere" granted by the SNSF's individual funding programme Ambizione.
- 2014-2017: PI of the research project "Characterization of Aerosol Cloud Interactions with Focus on Ice Formation in Mixed Phase Clouds" funded by the GAW-CH-Plus programme of MeteoSwiss.
- 2014-2018: ERC Consolidator Grant for the investigation of "Black Carbon in the Atmosphere: Emissions, Aging and Cloud Interactions".

Honors

- Oct 2003: 18th Professor Dr. Vilho Väisälä Award by the World Meteorological Organization for the development of a new low temperature HTDMA (together with E. Weingartner and U. Baltensperger).

Major Research Topics

- Characterisation of the properties and climate impacts of atmospheric black carbon particles in the present atmosphere as well as in historic ice core records.
- Cloud and Aerosol Characterisation Experiments (CLACE) at the high-alpine research station to investigate aerosol-cloud interactions with a particular focus on soot particles.
- Investigation of the physical and chemical properties of primary particulate emissions from combustion sources and of secondary organic aerosol from volatile precursors in smog chamber studies.
- Measurement of the composition, hygroscopic properties and cloud condensation nuclei (CCN) properties of laboratory-generated and atmospheric aerosols including closure studies between them.

Memberships

- Member of Gesellschaft für Aerosolforschung (GAeF)
- European Geophysical Union (EGU)