PhD position at ETH Zurich

PhD position at ETH Zurich – experimental studies (lab & field) on ice nucleation

The Atmospheric Physics group in the ETH Zurich Institute for Atmospheric and Climate Science (IACETH) has an opening for a PhD student in experimental cloud and aerosol microphysics. The position requires a University degree in physics, chemistry, environmental science, climate science or a related field. The applicant should have strong capabilities in working experimentally (in a physical and/or physico-chemical laboratory), and preferably a background in aerosol and cloud measurement techniques. A basic knowledge of the programming tool LabView would be beneficial.

The focus of the project are measurements on ice nucleation in the laboratory and in the field in the contact freezing mode (freezing of supercooled droplets initiated by the collision with aerosol particles). For this purpose we have built the CLINCH ice nucleation chamber which will be the main instrument in this project. Field measurements are planned on the High Altitude Research Station on the Jungfraujoch (3500m asl) in the Swiss Alps for which the instrument has to be modified or adapted. The project also addresses the influence of chemical reactions on the ice nucleating properties of aerosol particles.

The start of the project is targeted for summer 2011 and the duration is 3 years. Applications should be sent preferably by email to Dr. Olaf Stetzer. Applications are expected to include a vitae (including education, personal experience, and publications) and two letters of reference.

Dr. Olaf Stetzer

Institute for Atmospheric and Climate Science, ETH Zurich

olaf.stetzer@env.ethz.ch
Information on our institute can be found at: