KEMIJSKI INŠTITUT

Vabilo na Preglov kolokvij / Invitation to the Pregl colloquium

Prof. Dr. Herrmann Hartmut

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Četrtek / Thursday, 19. 11. 2026, ob / at 13:00

Velika predavalnica Kemijskega inštituta /
Great Lecture Hall
National Institute of Chemistry
Hajdrihova 19, Ljubljana, Slovenia

Recent atmospheric multiphase chemistry studies in field, lab and modelling: Role of organics

This lecture will first introduce into the topic and describe the atmospheric multiphase system. Then, a path which also corresponds to the development of the presenters work is being followed. First, there have been laboratory experiment on atmospheric aqueous phase chemistry which will be described with some select more recent results. Then, in the second part, our multiphase chemistry model CAPRAM with its development, current possibilities and applications is being described and discussed. Third, field measurements on how to investigate tropospheric multiphase chemistry with emphasis on coupled aerosol-cloud interaction experiments will be treated regarding their development. Then, the activities of the presenter, his group and collaborators in ground-based hill-capped cloud experiments will be outlined with their main results. Finally, the most recent developments, i.e. the construction of the permanent time-series aerosol-cloud observatory at the Schmücke mountain in Thuringia (SCO) will be described. Finally, an outlook on the field will be given.

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Vljudno vabljeni / Kindly invited