Summer Course / Advanced Course on automatic and real-time pollen monitoring

The IAA Advanced Aerobiology course series is aimed at understanding aerobiological processes and providing a solid background for the interpretation of aerobiological observations. The courses deal with fundamental or applied aerobiological topics and are in most cases focused on one topic.

**AA2019 Advanced Aerobiology Course, 25-31 August 2019, Payerne (Switzerland)**

Organised by the Federal Office of Meteorology and Climatology MeteoSwiss under the aegis of the International Association for Aerobiology (IAA) and the EUMETNET Programme AutoPollen.

**Course themes**: automatic and real-time pollen monitoring, instrument calibration, data analysis, machine learning, influence of weather parameters. Small groups of participants will focus on particular topics of interest in greater depth and present a summary of their work at the end of the course.

**Organisers**: Bernard Clot, Benoît Crouzy, Fiona Tummon

**Teachers/lecturers**: J. Buters, B. Clot, B. Crouzy, T. Könemann, D. O’Connor, B. Sikoparija, C. Skjoth, M. Sofiev, F. Tummon

**Provisional course plan**: (L=lectures, P=practical exercises)

Sunday 25: arrival of participants
Monday 26: automatic and real-time pollen monitoring, state-of-the-art, requirements (L); demonstration of instruments by providers (L+P); participants workshop
Tuesday 27: instrument comparison, validation, introduction to machine learning (L); calibration of instruments, analysis of calibration data (P); introduction to machine learning (P)
Wednesday 28: influence of weather, time series analysis (L); afternoon and evening: excursion and dinner
Thursday 29: other (bio-)aerosols and air quality monitoring (L); exercises with machine learning, time series analysis (P)
Friday 30: exercises (continued) (P); Workshop on users’ needs and product development; evaluation; visit of MeteoSwiss Aerological station
Saturday 31: presentations of results by participants/groups; noon: end of the course

**Course fees** (including course material, meals and excursion): for members of the IAA and affiliated societies, as well as EUMETNET AutoPollen participants: CHF 450.- (please announce affiliation at the time of registration). For all others: CHF 550.-

**Accommodation**: 6 nights in a double room CHF 400.- (single room occupancy CHF 580.-), at a nearby hotel with transportation included.

**Number of participants**: min. 15 – max. 30

**Registration deadline**: 28 February 2019

**Pre-registration**: please send an email with the subject “AA2019 Payerne” to secretariat.payerne@meteoswiss.ch