

ACTRIS CAIS-ECAC Aerosol In-Situ Course: Fundamentals & Methods for Aerosol Sampling and Physical & Chemical In-Situ Measurements

Date: April 16-22, 2023

Venue: National Atmospheric Observatory Kosetice, Czech Republic

Course contents & learning outcomes:

The lecture course provides fundamental knowledge in aerosol sampling & conditioning as well as methods for in-situ measurements of physical and chemical aerosol variables, covering all ACTRIS aerosol in-situ variables. Furthermore, a visit of the National Atmospheric Observatory Kosetice and hands-on training for few aerosol instruments are part of the course.

The course will be held face-to-face at the National Atmospheric Observatory Kosetice in Czech Republic. Interactive lectures will be given Monday to Friday from 8.00 to 17.00. After dinner, there will be time to meet for leisure activities or for discussions with the lecturers. All participants will obtain a certificate for their participation.

Target group:

The course is mainly intended to people related to the ACTRIS aerosol in-situ measurements at the National Facilities. This could be advanced master students, doctoral students, early-career scientists as well as technicians. However, the course is also open to external (non-ACTRIS) users. Please notice, the accommodation at Kosetice is limited, therefore only 15 participants will be accepted. Good communication skills in English are required.

Lecturers:

The course is coordinated by CAIS-ECAC. Lectures are given by top-level experts from the ACTRIS central facility for aerosol in-situ measurements. More information and the final detailed program will be made available at the CAIS-ECAC website.

Course fee, accommodation, meals & travel:

The course fee is 400€ per participant, including accommodation in two-bed rooms, all meals, and the transportation from and to Prague on Sunday April 16 and Saturday April 22, respectively.

Application:

For the application, please fill the form at:

<https://www.actris-ecac.eu/summer-school-2023.html>

The application deadline is March 17. We will inform applicants about the acceptance latest by March 24.

Course organizer:

The course is organized by the ACTRIS Central Facility - CAIS-ECAC.

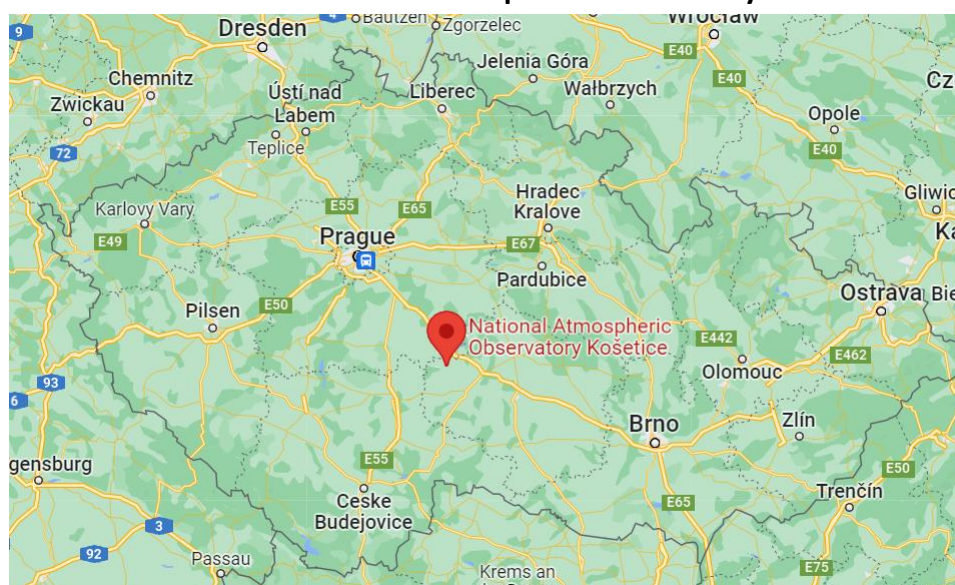
For any additional information about the course, please contact Alfred Wiedensohler (alfred.wiedensohler@tropos.de)

Preliminary program:

Time schedule Kostice CAIS-ECAC aerosol course							
Day time	Sunday April 16, 2023	Monday, April 17, 2023	Tuesday April 18, 2023	Wednesday April 19, 2023	Thursday April 20, 2023	Friday April 21, 2023	Saturday April 22, 2023
07.00 - 07.30		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
07.30 - 08.00							
08.00 - 08.30		Introduction & Discussion Atmospheric Aerosol AW+JO	Impactor JJP	Neutral Cluster & Air Ion Spectrometer KL	Aerosol Chemical Speciation Monitor & Aerosol Mass Spectrometer EF	Mass Concentration: Heavy Metals & Inorganic Elements FG	Travel & transport to Prague Airport & Center
08.30 - 09.00		General Definitions AW	Particle Filter JJP	Particle Size Magnifier KL			
09.00 - 09.30							
09.30 - 10.00							
10.00 - 10.30							
10.30 - 11.00		Mechanical Properties JO	Particle Charging AW	Artifacts & Thermodesorption JPP	Cloud Condensation Nuclei Counter SH	General Sampling Considerations AW	
11.00 - 11.30			Electrical Particle Mobility AW				
11.30 - 12.00							
12.00 - 12.30	Travel & pick-up from Prague airport & Center	Lunch	Lunch	Lunch	Lunch	Lunch	
12.30 - 13.00							
13.00 - 13.30		Particle Diameter Definitions AW	Differential Mobility Analyzer AW	Organic Tracers FM	Integrating Nephelometer AW	Data Handling MF	
13.30 - 14.00		Particle Size Distribution JO	Mobility Particle Size Spectrometer AW		Absorption Photometer AW	Discussion AW+JO	
14.00 - 14.30							
14.30 - 15.00		Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	
15.00 - 15.30		Condensation Particle Counter JO	Aerodynamic Particle Size Spectrometer JO	Hands-On Training JO	Hands-On Training JO	Examination AW+JO	
15.30 - 16.00		Discussion AW+JO	Discussion AW+JO+JPP				
16.00 - 16.30							
16.30 - 17.00		free time	free time	free time	free time	free time	
17.00 - 17.30							
17.30 - 18.00							
18.00 - 18.30	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	
18.30 - 19.00							

Fundamental	Discussion & Hands-On-Training	AW: Alfred Wiedensohler	FM: Falk Mothes
Microphysical	Examination	JO: Jakub Ondracek	EF: Evelyn Freney
Sampling	Meals	KL: Katrianne Lehtipalo	FG: Fabio Giardi
Optical	Data Handling	SH: Silvia Henning	MF: Markus Flebig
Chemical		JPP: Jean-Philippe Putaud	

Location of the National Atmospheric Observatory Kosetice:



<https://www.actris-ri.cz/narodni-atmosfericka-observator-kosetice>