

Autumn School 024: Drones & sensors in Atmospheric sciences (11 November – 15 November 2024)

Link for all 3 days: <https://meet.goto.com/676797469>

Monday 11.11.2024		
Morning / CARE-C (CY) 08:00-13:00 (CY)		
08:00-13:00 CY	Field visits USRL-Orounda & CAO-Agia Marina Xyliatou	CARE-C
Lunch break (13:00-14:00 CY)		
Afternoon / Joint session		
Introduction		
14:00-14:30, CY	Presentation of School Presentation of EMPA & Cyl/CARE-C	Empa/CARE-C
Principles of sensors and drones for atmospheric research		
14:30 – 15:00, CY	Sensors for greenhouse gases and air pollutants, CO2 sensors and the ICOS city network in Zurich	C. Hueglin, Empa
15:00 – 15:30, CY	Drone-sensor systems in Atmospheric Sciences	J. Sciare, CARE-C
15:30 – 16:00, CY	break	
16:00 – 16:30, CY	Sensors in different parts of the world	Richard Peltier
16:30 – 17:00, CY	Using sensors to measure and understand the sources of air pollution in Africa	Francis Pope
Tuesday 12.11.2024		
Morning / Joint session		
Common lectures on sensors and drones for atmospheric research		
09:30 – 10:00, CY	Drone technology: Principles, challenges, Opportunities	J. Sciare, CARE-C
10:00 – 10:30, CY	Atmospheric Sensors (title to be confirmed)	G. Biskos, CARE-C
10:30 - 11:00, CY	break	
11:00 – 11:30, CY	Sensor report of WMO	Sara Basart WMO
11:30 – 12:00, CY	Sensors in a global network	Anika Krause
Lunch break (12:00-13:00 CY)		
Afternoon / CARE-C (CY) 13:00-17:00 (CY)		
CARE-C / Session #1 on Practical work on sensor and drone data (Location: CARE-C labs and campus)		

Wednesday 13.11.2024		
09:30-13:15 (CYP); 08:30-12:15 (CH)		
Common lectures on sensors and drones for atmospheric research		
09:30 – 10:00, CY	UAV-based GHG measurements	J.-D. Paris (CEA-LSCE)
10:00 – 10:30, CY	Synergies between UAS & Remote Sensing observations	F. Marengo, CARE-C
10:30 – 11:00, CY	Sensors for indoor air	Mila Ródenas
11:00 – 11:30, CY	break	
11:30 – 12:00, CY	Atmobox, a portable sensor device	Mali (LSCE)
12:00 – 12:30, CY	Sensor network in London	Matthew Johnson
Lunch break (12:30-13:30 CY)		
Afternoon / CARE-C (CY) 13:30-17:00 (CY)		
CARE-C / Session #2 on Practical work on sensor and drone data (Location: CARE-C labs and campus)		

Thursday 14.11.2024
Morning / CARE-C (CY) 09:30-12:30 (CY)
CARE-C / Session #3 on Practical work on sensor and drone data (Location: CARE-C labs and campus)
Lunch break (12:30-13:30 CY)
Afternoon / CARE-C (CY) 13:30-17:00 (CY)
CARE-C / Session #4 on Practical work on sensor and drone data (Location: CARE-C labs and campus)

Friday 15.11.2024
Morning / CARE-C (CY) 09:30-12:30 (CY)
CARE-C / Session #5 on sensor data processing (Preparation of the Figures / Final Presentation)
Lunch break (12:30-13:30 CY)