

Programme hybrid workshop on the sensors and drones

11-15 November 2024 Cyprus/Switzerland

Link for all days:

<https://empa-ch.zoom.us/j/84269703808?pwd=vMfGgl7SvK9LIVDa0eRGh6VbjMQmlO.1>

Meeting-ID: 842 6970 3808 Code: 157468

Cyprus time zone: CY (UTC +3; Eastern European Time, EET)

Swiss time zone (UTC + 2, Central European Time, CET)

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 CARE-C & EMPA		
14:00-17:00 (CY); 13:00-16:00 (CH)		
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, CO ₂ 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	Using sensors to measure and understand the sources of air pollution in Africa	Francis Pope (2 PM UK)
16:30 – 17:00, CY	Sensors in different parts of the world	Richard Peltier (09:30 AM)

Tuesday 12.11.2024		
Morning / Joint session CARE-C & EMPA		
09:30-12:00 (CY); 08:30-11:00 (CH)		
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 (10 AM)
11:30 – 12:00, CY	Maximizing the Potential of Low-Cost Air Quality Sensors - Practical considerations and Hands-On Assembly	Anika Krause (10:30 AM)
12:00 – 13:00, CY	ONLY EMPA – Exercise (sensor production)	EMPA (11-12 AM, CH)
Lunch break (12:00-13:00 CY)		
Afternoon / EMPA (CH)		
EMPA / Excursions (sensor network Zuerich)		
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 08:30 AM
10:00 – 10:30, CY	Synergies between UAS & Remote Sensing observations	F. Marengo, CARE-C
10:30 – 11:00, CY	Sensors for indoor air	M. Ródenas, 09:30 AM
11:00 – 11:30, CY	break	
11:30 – 12:00, CY	AtmoBox: a versatile multi low/midcost sensor device for sensor testing and field application	O. Laurent 10:30 AM
12:00 – 12:30, CY	Sensor network in London	M. Johnson (4 AM, CST)
12:30 – 13:15, CY	ONLY Empa – Exercise (sensor production)	
Lunch break (12:30-13:30 CY)		
Afternoon / EMPA (CH)		
EMPA / Practical work on sensor		
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 / EMPA (CH) 08:30-11:30 (CH)
EMPA / Practical work on sensor
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; 11:30-13:00 CH)
Afternoon / EMPA (CH) 13:00-16:30 (CH)
EMPA / Practical work on sensor
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 / EMPA (CH) 08:30-11:30 (CH)
EMPA / Practical work on sensor (Preparation of the Figures / Final Presentation)
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, 11:30-13:00 CH)