VIDIS summer school 2023, Borkovac

Time schedule

	9-10.30	11-12:30	14-15	15:00-16:30	17-18:30
Monday 28.8.	Participant arrival or free time; committee meeting	L1 Introduction to air quality	Free	L4 Calibration techniques and data analysis	E1 Assemble your sensor device
Tuesday 29.8.	L2 Air quality monitoring technologies and European legislation requirements L8 Use of drones for aerosol measurements	L3 Monitoring principles and use areas of LCS for PM	Poster presentations I	E2 Setting up outdoor monitoring network of LCS D5 Demonstration of PM monitoring instruments	E2 Setting up outdoor monitoring network of LCS D5 Demonstration of PM monitoring instruments
Wednesday 30.8.	*Video demonstrations:* D1 How different types of aerosols affect measurements D2 Lab calibration experiment	L5 Calibration techniques and data analysis II	Poster presentations II	E5 Field experiment D4 Drone experiment (local conditions permitting)	E5 Field experiment D4 Drone experiment (local conditions permitting)
Thursday 31.8.	L6 Aerosol detection from satellites	L9 Mapping and visualizing air quality	Poster presentations III	E3 Calibration of LCS, data analysis	E4 Use of satellite data for air quality applications
Friday 1.9.	L7 Fire products from satellites	L10 Biomass burning detection based on data	Free	E6 Biomass burning detection based on data during experiment in the field	Visit to Roman excavations End of the Summer School

Lectures (L), demonstrations and pre-prepared videos of experiments (D) and hands-on experimental work (E)

Type	*Title*	*Responsible and contributors*
L1	Introduction to air quality, history of monitoring, exposure assessment, mitigation	Alena Bartonova (NILU)
L2	Air quality monitoring: European legislation requirements, equivalent methods, legislation developments	Franck Rene Dauge (NILU)
L3	Low cost sensor devices – monitoring principles, use areas	Milos Davidovic (Vinca) and Milena Jovasevic-Stojanovic (Vinca)
L4	Calibration techniques, data analysis, data transmission I	Saverio de Vito (ENEA), Amirhossein Hassani (NILU), Milos Davidovic (ENEA), Franck Rene Dauge (NILU)
L5	Calibration techniques, data analysis, data transmission II	Saverio de Vito (ENEA), Amirhossein Hassani (NILU), Milos Davidovic (ENEA), Franck Rene Dauge (NILU)
L6	Aerosol detection from satellites	Philipp Schneider (NILU) and Kerstin Stebel (NILU)
L7	Fire products from satellites	Kerstin Stebel (NILU), Philipp Schneider (NILU), Amirhossein Hassani (NILU)
L8	Use of drones for aerosol measurements	Daniel Harrision and Diana Fernadez, Southern Cross University Australia
L9	Mapping and visualizing air quality	Amirhossein Hassani (NILU), Philipp Schneider (NILU), Milos Davidovic (Vinca), Uzahir Ramadani (Vinca)
L10	Biomass burning detection based on data	Milena Jovasevic-Stojanovic (Vinca) and Zoran Ristovski (QUT) (Measuring ship emission using drones)
D1	How different aerosols affect the measurements	Franck Rene Dauge (NILU) and Amirhossein Hassani (NILU)
D2	Lab calibration experiment	Franck Rene Dauge (NILU) and Amirhossein Hassani (NILU)
D3	Drone measurements from ship – Great Barrier Reef aerosol experiment	Zoran Ristovski (QUT)
D4	Fly-by by a drone	Milena Jovasevic-Stojanovic (Vinca). Zoran Ristovski (QUT), Vinca team
D5	Monitoring instruments for PM	Milena Jovasevic-Stojanovic (Vinca), Zoran Ristovski (QUT), Franck Rene Dauge (NILU)
E1	Do it yourself assembly of sensors	Milos Davidovic (Vinca), Uzahir Ramadani (Vinca), Franck Rene Dauge (NILU), Saverio de Vito (ENEA), Duska Kleut (Vinca), Danka Stojanovic (Vinca), Zeljko Cirovic (Vinca)
E2	Setting up a network of LCS outdoors	Milos Davidovic (Vinca), Uzahir Ramadani (Vinca), Franck Rene Dauge (NILU), Saverio de Vito (ENEA), Duska Kleut (Vinca), Zeljko Cirovic (Vinca)
E3	Calibration of monitoring data	Saverio de Vito (ENEA), ENEA team, NILU team, Vinca team
E4	Use of satellite data for air quality applications	Philipp Schneider (NILU), Amirhossein Hassani (NILU)
E5	Field experiment using LCS	Milos Davidovic (Vinca), NILU team, ENEA team
E6	E6 Biomass burning detection based on data during experiment in the field	Saverio de Vito ENEA team, NILU team, VINCA team