

Training school

Current and future Air Pollution management – Perspectives on new sensor technologies

A PortASAP training school on Low Cost Air Quality Sensors

	Monday, Sept 2	Tuesday, Sept 3	Wednesday, Sept 4	Thursday, Sept 5	Friday, Sept 6
Session 1 9:00 - 09:30	Welcome & practical information	Reflections from prev. day, Q&A	Reflections from prev. day, Q&A	Reflections from prev. day, Q&A	Reflections from prev. day, Q&A
09:30-10:30	Introduction of lecturers and participants	Atmospheric Chemistry – homogeneous and heterogeneous transformation in the atmosphere	Gas sensors in your smartphone, from a drone, in your car and your ventilation system – potential future applications	From physical to chemical and then to biological weather	Combining modelling, satellite and low cost AQ sensor information for improved AQ modelling and management
Lecturer(s)	O.H., A.S., K.K.	Ole Hertel	Andreas Schütze & K. Karatzas	Kostas Karatzas & Ole Hertel	Dimitris Melas
break					
Session 2 11:00 - 12:30	Introduction to air pollution Health effects of air pollution	Ambient air measurements – Air Quality monitoring, integrated monitoring, field studies, and personal exposure monitoring	Data-oriented analysis and modelling for air quality control	Citizen science & low-cost sensor systems (the Urwatair project)	AQ data towards Quality of Life (QoL) Information services Student interaction and discussions
Lecturer(s)	Ole Hertel	Ole Hertel	Kostas Karatzas	K. Karatzas	Kostas Karatzas
12:30-13:00	Project work - exercises	Project work - exercises	Project work - exercises	Project work - exercises	
13:00-14:00 Lunch break					
Session 3 14:00 - 15:30	VOCs – relevance for outdoor and indoor air quality, impact on health and well-being	Gas sensor principles – materials, technology, functionality	Demonstration and Hands-on exercises with low-cost sensor systems	Indoor air pollution and sensor technology challenges and applications	
Lecturer(s)	Andreas Schütze	Andreas Schütze	Kostas Karatzas	Andreas Schütze	
break					
Session 4 16:00 - 17:30	Air pollution meteorology – impact on transport, deposition and dispersion	Gas measurement systems – data analysis and system integration.	Computational calibration of LCAQS	Internet of Things and AQ monitoring	
Lecturer(s)	Ole Hertel	Andreas Schütze	Kostas Karatzas	Cezary Orłowski	
break					
Evening program starting 19:00	Poster session: participant presentations	Social event: common dinner			