

Program: Tuesday 16th June

Topic of the Day:

Smart Cities & Urban Air Quality

9:00 - 9:45

Gerasopoulos E.
(IERSD/NOA):

Smart Cities & Urban Air Quality - The smart-urban portfolio of SMURBS: solutions and products that build resilience against urban air quality

Short Description: SMURBS creates a portfolio of smart urban solutions, aiming at addressing selected urban environmental threats. SMURBS has created a network of cities, where smart solutions to combat air quality, disasters, and urban growth are designed/implemented. This presentation (or lecture) will focus on those solutions that are relevant to air pollution and will provide an introduction to smart city approaches.

9:45 - 9:50

Break

9:50 - 10:35

Paraskevopoulou D.
(IERSD/NOA):

Urban Air Quality, Data Analysis, Case Studies, Air Sampling - Air sampling in Athens: infrastructure, data analysis and main findings

Short Description: State-of-the-art air quality monitoring infrastructure, measuring systematically not only the regulated but also under-sampled, toxic gaseous and particulate matter pollutants as well as Reactive Oxygen Species. This presentation will give an overview on the experimental setup and measurements, as well as on the application of source apportionment techniques and findings during cases studies in Athens.

10:35 - 10:50

Break

10:50 - 11:35

Linden J. (IVL):

Possibilities and limitations in using low cost air quality sensors

Short Description: The potential to include low cost sensor technology in innovative observational platforms for air quality has been evaluated in the SMURBS project LoV-IoT. Suitable low cost sensor applications, and necessary calibration and post processing requirements, are presented.

11:35 - 11:40

Break

11:40 - 12:25

Stavroulas J.
(IERSD/NOA):

Intra-urban mapping of BC using sensor technologies

Short Description: Combination of new sensor technologies and mobility options enable detailed mapping of critical pollutants at intra urban scales. Black carbon (BC) is steadily emerging as a critical pollutant to be monitored in cities due to its health effects and its relation to specific activities. The presentation will combine results from intensive campaigns and long term measurements to shed light on BC distribution in Athens.