VIRTUAL WORKSHOP

INNOVATION IN ATMOSPHERIC MEASUREMENT TECHNIQUES

Draft Program

Thursday, 12th of June 2025

All times are in CEST (Central Europe Standard Time)

08:00 - Opening Session
Welcome & Introduction to the Workshop

Workshop introduction and opening	**Jean Sciare** The Cyprus Institute

08:15 – VOCs (Chair: Stephane Sauvage)

Simplified VOC monitoring with a novel VUV PTR Ionization Reactor and Automated Instrument performance checks	**Veronika Pospisilova** TOFWERK, Switzerland
VOCENTINEL - A novel solution for automated real-time monitoring of atmospheric VOCs	**Markus Leiminger** IONICON Analytik GmbH, Austria
Long-term stability & field applicability of a portable paraformaldehyde generator using a temperature-controlled permeation tube system	**Audrey Grandjean** Chromatotec, France
Advancements in the detection and monitoring of VOCs	**Jan Wozniak** PICARRO B.V., Poland
Validation of two on-line instruments for OVOC monitoring, a formaldehyde analyser and an on-line AUTO-GC-FID system: Laboratory validation and field validation at the Puy de Dôme	**Damien Bazin** Chromatotec, France
Multi-Pressure Chemical Ionisation for seamless detection from VOCs to HOMs in a single instrument	**H.J. Jost** Karsa, Finland
Method development for analysis of condensing vapors using thermal desorption mass spectrometry	**Mihai Ciobanu** The Cyprus Institute, Cyprus

09:25 – Greenhouse & Reactive Gases (Chair: Sindu Raj Parampil)

A dual-platform approach for quantifying methane emissions at site level	**Roubina Papaconstantinou** The Cyprus Institute, Cyprus
A new all-in-one instrument for air quality and greenhouse gas monitoring	**Jonas Bruckhuisen** MIRO Analytical, Switzerland
Ammonia monitoring: meeting new EU Air Quality directive with Picarro pi2103 Analyzer and INI Permacal system	**Magdalena Hofmann** Picarro B.V., Netherland
QUALARIA: an AI system to monitor and predict metropolitan area of São Paulo street-level air quality	**Victória Maria Lopes Peli** MeteoIA Data Science, Brazil

10:05	**Coffee Break**

10:15 – International Initiatives (Chair: Niku Kivekäs)

Enabling climate risk research through research infrastructure services	**Päivi Haapanala** Luke, Finland
The DUST doctoral network	**Franco Marenco** The Cyprus Institute, Cyprus
CAELOSCOPE: added-value atmospheric products based on Sentinel-5p/TROPOMI measurements in Terrascope	**Jeroen van Gent** BIRA-IASB, Belgium

10:45 - Aerosol in-situ measurement techniques (Chair: Jean Sciare)

Monitoring ambient ultrafine particles with modified PN-PTI instruments	**Hüwe Florian** nanoDUST GmbH, Germany
AE36s improving aerosol source understanding with the AE36s aethalometer model	**Matic Ivančič** Aerosol Magee Scientific, Slovenia
Characterization of the aerosol infrared monitor for autonomous aerosol chemical composition measurements.	**Andrea Baccarini** Aerospec SA, Switzerland
Towards a portable device for real-time monitoring of oxidative activity in aerosols	**María Cerrato Álvarez** Univ. de Castilla-La Mancha, Spain
The measurement of the total number concentration of aerosols without a working fluid	**Patrick Weber** FZ Juelich, ICE-3, Germany
Implementation of real-time source apportionment approaches using the ACSM-Xact-Aethalometer (AXA) set-up with Sofi RT: the Athens case study	**Olga Zografou** NCSR Demokritos, Greece
Microwave induced plasma time-of-flight mass spectrometer (MIPToF): a new tool for real-time quantitative analysis of metals in air	**Alexander Gundlach-Graham** TOFWERK AG, Switzerland

11:55	**Coffee break**

12:15 - Aerosol & Cloud Optical Properties (Chair: Franco Marenco tbc)

LAST: A cutting-edge system for multi-spectral lidar signals simulation	**Guido Di Donfrancesco** ALA srl, Italy
Can UAV-based and lidar synergistic observations improve mineral dust quantification?	**Alkistis Papetta** The Cyprus Institute, Cyprus
Trinocular all sky imaging network for cloud and solar applications	**Max Aragon** Wematics FlexCo / Mines Paris PSL, France
Dual field-of-view depolarization method using the POLLY-xt Raman lidar of CARO Limassol national facility: parameterization of aerosol-cloud interactions	**Konstantinos Chrysostomou** Eratosthenes CoE, Cyprus
Synergistic measurements from satellite and in-situ sampling for air quality applications	**Vanderlei Martins** GRASP Earth, USA

13:05 – PICO session (Chair: Ulrich Bundke)

Title	Author
Hydrogen leak detection at ppm-level in real time at an industrial site	**Doreen Schell** Heidelberg Univ (Germany)
New UAV observations to assess the dust particle morphology and orientation	**Kenneth Tschorn** The Cyprus Institute, Cyprus
AEROTAPE: A novel technology for real time quantification and characterization of dust and its sources	**Eleni Kolintziki** The Cyprus Institute, Cyprus
Global dust estimation from novel space missions	**Zuhir Bona** The Cyprus Institute, Cyprus
Fast and fine-scale hourly air quality mapping using hybrid dispersion and KNN approaches	**Lucas Bouche** Atmo Hauts-de-France, France
Dual cavity dual comb interferometry with incoherent light	**Jarni Braal** Univ. College Cork, Ireland
NH_3 sensors and UAVs: a comprehensive assessment of ground-based and aerial nh3 measurements at a poultry farm in northern England	**Clare Pearson** UKCEH, UK
Leveraging advanced sensor networks and machine learning for real-time air quality monitoring: a fusion of innovation and policy impact	**Linchun yu** News, China
Hourly $PM_{2.5}$ and PM_{10} matter concentrations prediction in Pune, India, using Aeronet aerosol optical depth (AOD) and meteorological data	**Ranjitkumar Solanki** National Institute of Technology, Surat, India
Assessing urban land use dynamics and air quality interaction in Ahmedabad using Google Earth engine and earth observation data	**Mahi Patel** Silver Oak University, India
Traffic induced atmospheric pollution and associated health impact – a pilot study with street fruits vendors	**Bertrand Tchanche** Alioune Diop Univ., Senegal

13:30   End of Workshop