

VIRTUAL WORKSHOP

INNOVATION IN ATMOSPHERIC MEASUREMENT TECHNIQUES

Draft Program

Thursday, 27th of June 2024

All times are in EEST (Cyprus local time)

13:00 - Opening Session	
Welcome & Introduction to the Workshop	
Workshop introduction and opening	J. Sciare The Cyprus Institute
13:10 – VOCs (Chair: Prof Stéphane Sauvage)	
Temporal Variability of High-Resolution VOCs Measurements in Athens, Greece	Faidra-Aikaterini Kozonaki Univ. of Crete
MION2 Chemical Ionization and Orbitrap-Based MS Synergy: Expanding the Horizon of Trace Species Detection with Fast Polarity Switching	Anna Franck Karsa
Newly Designed Ion Mobility Mass Spectrometer Coupled with Chemical Ionization for Real-Time Monitoring of Isomer Populations	Matthieu Riva CNRS/TOFWERK
A Compact GC-PTR-TOF for Monitoring Volatile Organic Compounds	Megan Claflin Aerodyne Research
Ambient Air Quality Monitoring via Mobile Platforms and PFAs Detection	Spiro Jorga Tofwerk
14: 00 Greenhouse Gases Emissions & Sinks (Dr Leonard Rivier)	
A Novel Unmanned Aerial System - Greenhouse Gas Tracker for Accurate Leak Detection and Emission Quantification of Methane	R. Papaconstantinou The Cyprus Institute
Mobile Monitoring Platforms for Methane Source Identification	Veronika Pospisilova Tofwerk
A New All-In-One Instrument for Air-Quality and Greenhouse-Gas Monitoring	Jonas Bruckhuisen Miro Analytical
Application of Deep Learning Methods for the Creation of the First National Tree Airborne Inventory of Cyprus and the Estimation of Carbon Stock	Anna Zenonos The Cyprus Institute
14:40 - Aerosols And Clouds (Chair: Prof Nikos Mihalopoulos)	

Condensation Particle Counter for Extended Unsupervised Use	Joonas Purén Airmodus Oy
Twst Cloud Properties Sensor	Zachary Payne Aerodyne Research Inc
Deducing the Composition of Aerosol and Cloud Particles with the Autofluorescence Nephelometer (AFN)	Darrel Baumgardner DMT
The Portable Ice Nucleation Experiment Pine: A New Online Instrument for Automated Long-Term Field Observations and Laboratory Studies of Ice-Nucleating Particles	Benjamin Murray University of Leeds
Traceable Calibration for In-Situ Aerosol Absorption Instrumentation	Griša Močnik Haze Instruments d.o.o.

15:30

Coffee Break

15: 50 - Aerosol Optical Properties (Chair: Dr Ulrich Bundke)

3D Plume Mapping with UAVs And Lidar Technology	Maria Kezoudi The Cyprus Institute
Aerosol Retrievals and PM2.5 Concentration Estimations from Nephelometers Using Grasp Algorithm and Machine Learning Method	Chong Li GRASP SAS

16:10 - Air Quality Parameters (Chair: Prof Jean Sciare)

Cavity Attenuated Phase Shift (CAPS) Instrument for Simultaneous Measurement Of NO _x And NO ₂	Zachary Payne Aerodyne Research Inc
Particulate Matter Concentration Evaluation of Vaisala's AQT560 Against Multiple Equivalence Reference Methods	Kimmo Neitola Vaisala
Improving Low-Cost Optical Sensors Accuracy Using Machine Learning	Marianna Chaves Federal University of Paraná
Sensor-Based Air Quality Systems for Accurate Emissions Monitoring	Irene Lara Kunak Technologies

17:00 -

End of Workshop



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