Innovation in Atmospheric Sciences Virtual Workshop 18 May 2021 | Online

actris.eu/innovation-workshop

EU GREEN WEEK 2021 PARTNER EVENT

All times are in CEST

OPENING SESSION

09:00	Welcome & Introduction to the Workshop		
	Workshop Introduction & Opening	Jean Sciare	
		CARE-C, The Cyprus Institute	
	R&I strategy of EU Research Infrastructures in Atmospheric Sciences	Paolo Laj	
		Université Grenoble Alpes	

ORAL PRESENTATIONS

09:30	International initiatives and opportunities		
	ATMO-ACCESS TransNational Access Opportunities	Sabine Philippin CNRS	
	The International Methane Emissions Observatory	Stefan Schwietzke Environmental Defense Fund	
	PROBE: advancing ground-based atmospheric boundary layer profiling at the European scale through EU COST	Simone Kotthaus Institut Pierre Simon Laplace	
	EUPHORE simulation chambers: An innovative tool for testing instruments and environmental solutions	Amalia Muñoz CEAM Foundation - EUPHORE Labs	
	Research & Innovation Funding Opportunities in Atmospheric Sciences	Pierantonios Papazoglou CARE-C, The Cyprus Institute	
10:30	COFFEE BREAK		
10:40	Miniaturized in-situ atmospheric sensors		
	Laser technology advances for UAV-based greenhouse gas analysis	Frederic Despagne ABB	
	A new mobile platform of ACTRIS for UAV-based atmospheric profiling	Maria Kezoudi CARE-C, The Cyprus Institute	
	Miniaturized air sampling techniques: Key to successful determination of Volatile Organic Samples in Air Samples	Jose Ruiz Jimenez University of Helsinki	
		Juha Kangasluoma	

University of Helsinki Miniaturized Sensors for Probing Air Quality: Potential Applications and Methods for **Spyros Bezantakos** Assessing their Performance CARE-C, The Cyprus Institute

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	International initiatives and opportunities	
	Towards an observation-based monitoring capacity for anthropogenic emissions of CO2	Richard Engelen ECMWF
	EUMETSAT Innovation in Aerosol and Cloud Characterisation	Thierry Marbach EUMETSAT
	Integrated In-Situ Observations, An Asset to Verify the Climate Policy Actions and Adopting Green Economy	Hanna Lappalainen University of Helsinki
	NRT provision of aerosol remote sensing profiles to CAMS: An ACTRIS/EARLINET pilot system	Lucia Mona CNR
2:20	LUNCH BREAK	
13:00	Recent developments in Remote Sensing and Mass Spectrometry	
	Tropospheric temperature and humidity profiling with a new compact, relatively low cost lidar system developed by Raimetrics S.A.	George Tsaknakis RAYMETRICS S.A.
	Innovation solutions for Air Quality monitoring and LIDAR calibration	Guido Di Donfrancesco ALA Advanced Lidar Applications s.r.l.
	Single analyzer for gas-phase and the condensed organics	Jens Herbig IONICON Analytik Ges.m.b.H.
	Observe twice as many molecular species with your high resolution mass spectrometer by using a MION?	HJ Jost Karsa Ltd
	Recent Developments for the Aerosol Chemical Speciation Monitor	Philip Croteau Aerodyne Research, Inc
4:00	Advances in Atmospheric Modelling	
	Aria Technologies: Experience In The Middle East And Latest Innovations In Air Quality Modelling	Fanny Velay ARIA Technologies
	Origins, monitoring the near-real-time greenhouse gas emissions for a low-carbon transition	Jinghui Lian Origins Earth
	Insights on multi-time resolution PMF: testing different time resolutions and uncertainty weightings	Marta Via IDAEA-CSIC
14:30	COFFEE BREAK	
14:40	New in-situ aerosol instrumentation	
	Harmonization of in-situ number concentration and size distribution measurement techniques	Sebastian Schmitt TSI GmbH
	The M2AS: Mass and Mobility Aerosol Size distribution measurement with the CPMA	David Walker Cambustion Ltd
	A dual-wavelength photo-thermal interferometer for the determination of aerosol optical absorption coefficient and the absorption agnstrom exponent	Luka Drinovec Haze Instruments d.o.o.
	Improved sampling of aerosol nanoparticles - Example of a collaboration between academic and industry	Katrianne Lehtipalo University of Helsinki & Finnish Meteorological Institute
5:30	New in-situ gas instrumentation	
	All-in-one instruments for monitoring of air pollutants and greenhouse gases	Morten Hundt MIRO Analytical AG
	SPECTRONUS [™] - A high precision multi species GHG analyzer for the next generation of observation networks and process studies	Jost Lavric Ecotech
	Continuous Monitoring Of Greenhouse Gases And Hazardous Air Pollutants With Cavity Ring-Down Spectroscopy	Magdalena Hofmann Picarro
	Development of on-line and field TD-GC-FID/MS for automatic and continuous ambient air monitoring	Franck Amiet Chromatotec Group

vPICO SESSIONS

16:10	New Analytical Techniques & Data Analysis		
	Nanoscale IR-imaging and spectroscopic characterization of air-filtered pollution	Adrian Cernescu	
	nanoparticles using s-SNOM	Attocube systems AG	
	Spectral Aerosol Optical Depth and Angstrom Exponent From Ground-Based	África Barreto	
	Fourier Transform Infrared Spectrometry	AEMET (Izaña Observatory)	
	Intercomparison between online GC and PTR-TOF in a station of Switzerland's	Felipe Lopez	
	National Air Pollution Monitoring Network (NABEL)	TOFWERK AG	
	Peak concentrations measured at a station of Switzerland's National Air Pollution	Mark Gonin	
	Monitoring Network (NABEL)	TOFWERK AG	
	HERMES: an integrated tool dedicated to online data treatment and display of	Benjamin Chazeau	
	submicronic aerosol chemical composition	Aix-Marseille University	
	A software tool for the aerosol microphysical retrieval from atmospheric lidar data	Alessia Sannino	
		Università degli Studi di Napoli Federico II	
	Combination of two Doppler lidars to simultaneously retrieve wind vector and	Johannes Bühl	
	turbulence	Leibniz-Institute for Tropospheric Research	
		(TROPOS)	
	Instrument combination through inversion methods: Innovative improvement of our	Dominik Stolzenburg	
	understanding of aerosol dynamics	Institute for Atmospheric and Earth System	
		Research, University of Helsinki	
16:30	New Developments in Atmospheric Instrumentation and Infrastructure		
	Characterization of a chemical modulation reactor for the measurement of	Changmin Cho	
	atmospheric hydroxyl radicals with a laser-induced fluorescence instrument	Forshungszentrum Juelich	
	A new high-resolution sampler for the study of fine and coarse aerosol composition:	Fabio Giardi	
	STRAS (Size and Time-resolved aerosol sampler)	University of Florence	
	The BOx of Clustered SensorS (BOCSS). A low-cost Air Quality System for long-	Sebastian Diez	
	term monitoring	University of York	
	Cork city's low-cost air sensor network shows PM2.5 levels vary significantly across	Dean Venables	
	the city	University College Cork	
	Engineering, Construction, and Operation of Cloud Simulation Chambers for	Ottmar Möhler	
	Atmospheric Research	Karlsruhe Institute of Technology (KIT)	
	Towards a new FRM4DOAS site in the Po Valley	Paolo Pettinari	
	Towards a new FRIMADOAS site in the FO valley	University of Bologna, ISAC-CNR	
16:45	Recent Research Achievements In Atmospheric Sciences		
	High resolution unattended particle-bound total carbon measurements and source	Alejandro Keller	
	identification at the Jungfraujoch global GAW station	University of Applied Sciences	
		Northwestern Switzerland	
	The presence of microplastic in the Total suspended particles	Jagoda Worek	
		AGH University of Science & Technology	
	The feedback of clouds on the Heating Rate of black and brow carbon	Luca Ferrero	
	The foodback of blodde of the floating face of black and blow ourbon	University of Milano-Bicocca	
	Dynamic of the atmospheric boundary layer over two rural sites with doppler lidar	Pablo Ortiz Amezcua	
		University of Warsaw	
	Modeling and spatial characterization of aerosol at Middle East AERONET stations	Chukwuma Anoruo	
	woulding and spatial characterization of derosol at Midule East AERONET Stations		
	The characteristics of the urbon streambers in Measurements in the interval that and the interval	University of Nigeria, Nsukka	
	The characteristics of the urban atmosphere in Moscow megacity and their radiative	Natalia Chubarova	
	and meteorological properties according to modelling and measurement in different	Lomonosov Moscow State University	
	conditions including the 2020 Spring lockdown due to COVID-19	Antonio Pisch:	
	On the role of the ocean in simulating extreme atmospheric events	Antonio Ricchi	
	According to CUIC emissions from the sector of A = 1. "	University Of L'Aquila/CETEMPS	
	Assessment of GHG emissions from transport sector of Azerbaijan	Sadig Hasanov	
		The Institute of Radiation Problems	
	Seasonality of PM10 sources at traffic and urban background air monitoring stations:	Lucyna Samek	
	Case study from Krakow, Southern Poland	AGH University of Science & Technology	
17:10	Q&A Parallel Sessions	7EDO	
		ZERO #EUGreenWeek	
17:30	End of Workshop	POLLUTION	
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