

## Atmospheric Processes in the Mediterranean (APM 2016)

A joint ChArMEEx – The Cyprus Institute

International workshop · 17-21 Oct. 2016 · Larnaca, Cyprus

<http://www.cyi.ac.cy/index.php/apm-workshop-2016-home.html>

## WORKSHOP EXTENDED PROGRAMME

(October 2016)

### List of Invited talks

<u>Title</u>	<u>Speaker</u>	<u>Schedule</u>
Increasing heat extremes in North Africa and the Middle East	P. Hadjinicolaou (on behalf of Jos Lelieveld)	18 Oct., 09:30
The Chemistry-Aerosol Mediterranean Experiment (ChArMEEx): overview	François Dulac	18 Oct., 10:45
Overview of CCN and INP related measurements within the BACCHUS framework	Zamin Kanji	18 Oct., 11:30
Global change impacts and water: Future Earth	Manfred Lange	18 Oct., 14:00
Health effects of air pollution and extreme temperatures in the Mediterranean area	Massimo Stafoggia	18 Oct., 14:30
Potential influences of mineral and re-suspended urban dusts on health	Yinon Rudich	18 Oct., 15:15
Studying black carbon-mineral dust mixtures in the Eastern Mediterranean - The A-LIFE airborne field experiment in 2017	Bernadett Weinzierl	19 Oct., 08:30
Atmospheric Pollution over the Eastern Mediterranean during summer	Uri Dayan	20 Oct., 09:00
Chemical composition of aerosols in urban and remote locations around Mediterranean: Similarities and differences	Nikos Mihalopoulos	21 Oct., 08:45
Impact of aerosols on biogeochemical cycles in the Mediterranean	Maria Kanakidou	21 Oct., 11:00
The potential impacts of dust and associated airborne microbes on the SE Mediterranean surface water	Barak Herut	21 Oct., 11:45

<b>Monday 17 Oct.</b>	<b><u>ChArMEEx day (programme to be confirmed)</u></b>	
	From 10:00	Registration
	10:30-11:00	Coffee Break
	11:00-12:00	ChArMEEx Work Package meetings
	12:00-14:00	Lunch
	12:20-13:25	Side meeting / Teleconference East Med operations
	14:00-15:30	Side meeting to be confirmed: TRANSEMED
	15:30-16:00	Coffee Break
	16:00-18:00	Side meeting: ARCHIMEDES (confirmed), MedCordex (confirmed), ChArMEEx WPs
	18:00	Ice breaker

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Tuesday 18 Oct.	<b>Workshop Day I</b>		
	08:30-09:00	Registration	
	09:00-09:30	Opening, information, objectives	<b>J. Sciare</b> (Cyl)
	09:30-10:15	<b>Invited talk</b> <i>Increasing heat extremes in North Africa and the Middle East</i>	<b>P. Hadjinicolaou</b> (Cyl) (on behalf of J. Lelieveld)
	10:15-10:45	Coffee Break	
	10:45-11:30	<b>Invited talk</b> <i>The Chemistry-Aerosol Mediterranean Experiment (ChArMEEx): Overview</i>	<b>F. Dulac</b> (LSCE)
	11:30-12:15	<b>Invited talk</b> <i>Overview of CCN and INP related measurements within the BACCHUS framework</i>	<b>Z. Kanji</b> (ETH)
	12:15-14:00	Lunch	
	14:00-14:30	<b>Invited talk</b> <i>Global change impacts and water: Future Earth</i>	<b>M. Lange</b> (Cyl)
	<b>Scientific session (14:30-17:30)</b> <i>Health Impact &amp; Extreme Events</i>		
	14:30-15:15	<b>Invited talk</b> <i>Health effects of air pollution and extreme temperatures in the Mediterranean area</i>	<b>M. Stafoggia</b> (DEPLazio)
	15:15-16:00	<b>Invited talk</b> <i>On the health effects of transported and resuspended dusts</i>	<b>Y. Rudich</b> (Weizmann)
	16:00-16:30	Coffee Break	
	16:30-16:45	Implementing the US air quality standard for PM <sub>2.5</sub> worldwide can prevent millions of premature deaths per year	<b>D. Giannadaki</b> (Cyl)
	16:45-17:00	Coupling external with internal exposure metrics in population health studies	<b>K. Makris</b> (CUT)
	17:00-17:15	Extreme weather events related to global warming on Egypt	<b>F. El ashmawy Elbialy</b> (EMA)
	Break		
	17:30-18:30	Pitch for posters	2min, 2 slides each
	18:30-21:00	<b>Poster session</b> / cocktail & finger food	

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Wednesday 19 Oct.	<b>Workshop Day 2</b>		
	<b>Scientific session (08:30-12:45)</b> <i>Aerosol properties in Cyprus from in-situ to remote sensing observations</i>		
	08:30-09:15	<b>Invited talk</b> <i>Black carbon-mineral dust mixtures in the E. Med. The A-LIFE airborne experiment 2017</i>	<b>B. Weinzierl</b> (Univ. Vienna)
	09:15-09:45	An Overview on the INUIT-BACCHUS-ACTRIS Field Experiment in Cyprus in April 2016	<b>J. Schneider</b> (MPIC)
	09:45-10:00	Diurnal pattern of high temperature ice nuclei concentration and origin	<b>A. Welti</b> (TROPOS)
	10:00-10:15	On the origin and variability of suspended particulate matter (PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> ) mass concentrations in Cyprus	<b>M. Pikridas</b> (Cyl)
	10:15-10:30	Physical and Chemical properties of the atmospheric aerosol in Cyprus in April 2016	<b>I. Stavroulas</b> (Cyl)
	10:30-10:45	Ice nucleating particles in Cyprus during the INUIT-BACCHUS-ACTRIS campaign	<b>D. Weber</b> (Cyl)
	10:45-11:15	Coffee Break	
	11:15-11:45	Remote sensing during the BACCHUS Cyprus 2015 campaign: Overview of Limassol and Nicosia lidar/photometer observations of aerosols, lofted dust layers, and clouds	<b>A. Ansmann</b> (TROPOS)
	11:45-12:00	Lidar observations of vertical motion of aerosols in the planetary boundary layer over Cyprus	<b>J. Bühl</b> (TROPOS)
	12:00-12:15	Polly-XT observations during Cyprus 2016 ACTRIS campaign and evaluation of CALIPSO INPC retrievals	<b>E. Marinou</b> (NOA)
	12:15-12:30	Combine lidar with sun/lunar photometer measurements for the characterization of dust mixtures during the BACCHUS campaign	<b>A. Tsekeri</b> (NOA)
	12:30-12:45	Comparison of the aerosol mass concentration from lidar and in situ measurements	<b>D. Mamali</b> (TU Delft)
	12:45-14:00	Lunch	
<b>Scientific session (14:00-15:15)</b>			

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Wednesday 19 Oct.	VOCs and trace organics		
	14:00-14:15	Measurements of Volatile organic compounds using PTR-MS and investigation of the different sources to air pollution in Athens	<b>A. Kalogridis</b> (NCSR Demokritos)
	14:15-14:30	Origin and variability of volatile organic compounds (VOCs) observed at an eastern Mediterranean background site (Cyprus)	<b>C. Debevec</b> (Mines Douai)
	14:30-14:45	Sources and chemistry of formaldehyde in the western Mediterranean basin during SAFMED 2014	<b>A. Waked</b> (LaMP/CNRS)
	14:45-15:00	Space-based observations of nitrogen dioxide and volatile organic compounds	<b>M. Vrekoussis</b> (U. Bremen/Cyl)
	15:00-15:15	The sea surface films as a sink and source of trace organics over the Middle Adriatic	<b>A. Cvitesic</b> (IRB)
	15:15-15:45	Coffee break	
	<b>Scientific session 15:45-17:00</b> <i>Regional Chemistry-Transport Modelling</i>		
	15:45-16:00	Assimilation of different aerosol products during the different CHARMEX field campaigns	<b>L. El Amraoui</b> (CNRM/METEO-FRANCE/CNRS)
	16:00-16:15	Regional Climate and Chemistry Projections over the Mediterranean Basin within the ChArMEx WP7	<b>F. Solmon</b> (OMP)
	16:15-16:30	Development of Air Quality Modelling System in the Eastern Mediterranean using the WRF-Chem Model	<b>G. Georgiou</b> (Cyl)
	16:30-16:45	A modelling study of the atmospheric composition over Cyprus and main contributing processes	<b>J. Kushta</b> (Cyl)
	16:45-17:00	Simulation of primary marine aerosols during the ChArMEx/ADRIMED experiment	<b>M. Mallet</b> (CNRM)
	17:00-17:15	Break	
	17:15-19:00	Parallel round tables/side meetings (to be confirmed): -ARCHIMEDES -MedCORDEX	
	19:00	Conference dinner (to be confirmed, registration needed)	

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Thursday 20 Oct.	<b>Workshop Day 3</b>		
	<b>Scientific session (09:00 -10:30)</b> <i>Transport</i>		
	09:00-09:45	<b>Invited talk</b> <i>Atmospheric Pollution over the Eastern Mediterranean during summer</i>	<b>U. Dayan</b> (Hebrew Univ.)
	09:45-10:00	The atmospheric aerosol over the Adriatic Sea, two years of aerosol observations at Navarino Environmental Observatory	<b>H-C. Hansson</b> (Stockholm Univ.)
	10:00-10:15	Remotely Sensed Dust Episodes over Anatolia	<b>Y. Aslanoglu</b> (Hacettepe Univ.)
	10:15-10:30	Sea breeze effect on aerosol mixing state and radiative properties in the Negev desert of Israel	<b>Y. Derimian</b> (CNRS/ Université Lille1)
	10:30-11:00	Coffee Break	
	<b>Scientific session (11:00-12:00)</b> <i>Aerosol instrumentation</i>		
	11:00-11:15	The Unmanned Systems Research Laboratory (USRL) of the Cyprus Institute: Current Status and Perspectives	<b>C. Keleshis</b> (Cyl)
	11:15-11:30	Characterization of three miniaturized aerosol-absorption instruments, under ambient conditions	<b>M. Pikridas</b> (Cyl)
	11:30-11:45	Inexpensive and Light-weight Differential Mobility Analyzers for Airborne Measurements	<b>K. Barmounis</b> (Cyl)
	11:45-12:00	Miniaturized Instruments for measuring the properties of aerosol particles onboard UAVs	<b>A. Maisser</b> (Cyl)
	12:00-14:00	Lunch	
	14:00-18:00	Visits (Atmospheric station Agia Marina Xyliatou & UAV flights)	
	19:00	Cocktail at French embassy in Nicosia (to be confirmed)	

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Friday 21 Oct.	<b>Workshop Day 4</b>		
	<b>Scientific session (09:00-10:30)</b> <i>Urban pollution in the Mediterranean</i>		
	09:00-09:45	<b>Invited talk (45 min)</b> <i>Chemical composition of aerosols in urban &amp; remote locations around Mediterranean</i>	<b>N. Mihalopoulos</b> (NOA)
	09:45-10:00	Urban atmospheric pollution in the Eastern Mediterranean: lessons from the TRANSEMED initiative	<b>T. Salameh</b> (Mines Douai)
	10:00-10:15	Analysis of Gaseous and Particulate Phase Atmospheric Composition during TRANSEMED-Istanbul Field Study	<b>F. Öztürk</b> (AIBU)
	10:15-10:30	Air Pollution Measurement in Bejaia city	<b>B. Fatima</b> (Bejaia Univ.)
	10:30-11:00	Coffee break	
	<b>Scientific session (11:00-12:30)</b> <i>Atmospheric deposition and biogeochemical impact</i>		
	11:00-11:45	<b>Invited talk (45 min)</b> <i>Impact of aerosols on biogeochemical cycles in the Mediterranean</i>	<b>M. Kanakidou</b> (ECPL, Univ. of Crete)
	11:45-12:30	<b>Invited talk (45 min)</b> <i>The potential impacts of dust and associated airborne microbes on the SE Mediterranean surface water</i>	<b>B. Herut</b> (IOLR)
	12:30-14:00	Lunch	
	14:00-14:15	Large Saharan dust storms: implications for chlorophyll dynamics in the Mediterranean Sea	<b>F. Peters</b> (CSIC)
	14:15-14:30	Estimate atmospheric fluxes of nutrients and trace metals using an atmospheric deposition collection system in the Western Mediterranean Sea	<b>Y. Fu</b> (LISA)
	14:30-14:45	Atmospheric deposition impacts on nutrients and biological budgets of the Mediterranean Sea, results from the high resolution coupled model NEMOMED12/PISCES	<b>C. Richon</b> (LSCE)
	14:45-15:00	<b>Closure of APM workshop - J. Sciare (Cyl)</b>	
	15:00-15:30	Coffee break	

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<b>Friday 21 Oct.</b>	15:30-18:30	Side meetings to be confirmed: - TRANCOMED - ChArMEEx legacy - TRANSEMED - Cyprus Spring 2017 campaign - BACCHUS-INUIT-ACTRIS Cyprus 2015-2016
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<b>Saturday 22 Oct.</b>	<b><u>Side-meetings day</u></b>	
	09:00-12:00	Side meetings follow-on, to be confirmed: - TRANCOMED - TRANSEMED - ChArMEEx prospective