

## Conference Program – Oral Presentations

*Location: auditorium, Department of Environment and Planning*

Day 1 - Wednesday 29 June 2016	
08:45 – 09:30	<b>Registration</b>
09:30 – 09:45	<b>Opening Session</b>
	<b>Summer School</b>
09:45 – 11:00	<b>Invited Lecture 1 – Roberta Vecchi, University of Milan</b> Methodologies for source apportionment of atmospheric aerosol in urban areas
11:00 – 11:30	Coffee break
11:30 – 12:45	<b>Invited Lecture 2 – Susana Marta Almeida, University of Lisbon</b> Indoor air quality: new directions
13:00 – 14:30	Lunch
14:30 – 15:45	<b>Invited Lecture 3 – Cristina Gutierrez-Cañas, University of the Basque Country</b> A visual guide of combustion aerosols: from wildfires to incinerator stacks
15:45 – 16:15	Coffee break
16:15 – 17:30	<b>Poster Session 1</b>
18:30 – 19:15	Boat trip in the city's channels
19:30 – 21:00	Welcome cocktail at Casa de Chá Arte Nova
Day 2 - Thursday 30 June 2016	
08:45 – 09:00	<b>Registration</b>
	<b>Oral Session I – Air Quality</b> <i>Chairs: José Antonio Orza, Susana Marta Almeida</i>
09:00 – 09:20	Exposure to airborne particles in three European subway systems <i>Martins V. et al.</i>
09:20 – 09:40	Subway aerosol sources and influence of special activities in subway air quality <i>Minguillón M.C. et al.</i>
09:40 – 10:00	Indoor exposure to PM <sub>1</sub> and PM <sub>2.5</sub> in nursery and primary schools in northern Portugal <i>Branco P.T.B.S. et al.</i>
10:00 – 10:20	Identification of the main sources of PM <sub>10</sub> impacting the north of France: a comprehensive source apportionment study with PMF5 at five sampling sites <i>Oliveira D. et al.</i>
10:20 – 10:40	Fugitive emissions in a sea port: a wind tunnel and CFD modelling approaches <i>Sorte S. et al.</i>
10:40 – 11:00	Coffee break

<b>Oral Session II – Atmospheric Aerosols</b>	
<i>Chairs: Esther Coz, Maria João Costa</i>	
11:00 – 11:20	The use of a sky camera to observe the relative radiances of the lunar aureole and the effect of aerosol over them <i>Román R. et al.</i>
11:20 – 11:40	Regional characterization of a dust outbreak event over the Iberian Peninsula by means of a ceilometer network <i>Cazorla A. et al.</i>
11:40 – 12:00	Integrating chemical and optical properties of atmospheric aerosols; link air quality-climate <i>Ealo M. et al.</i>
12:00 – 12:20	Forecasting Saharan dust events over Portugal: analysis of the CHIMERE dust module performance <i>Gama C. et al.</i>
12:30 – 14:00	Lunch
<b>Oral Session III – Atmospheric Aerosols</b>	
<i>Chairs: Jesús de la Rosa, Paulo Fialho</i>	
14:00 – 14:20	Study of the aerosol optical properties in a traffic dominated EU metropolis during local and long-range transport scenarios <i>Coz E. et al.</i>
14:20 – 14:40	AMICUS Campaign “Aerosol Microphysical and Chemical properties at Urban atmosphere” <i>Casquero-Vera J.A. et al.</i>
14:40 – 15:00	The influence of the Atlas Mountains on the impact of African dust events in southern Spain. Starting point for the FRESA project <i>Orza J.A.G. and Cabello M.</i>
15:00 – 15:20	Coffee break
15:20 – 16:20	<b>Poster Session 2</b>
17:30	Departure to Ílhavo
18:00 – 19:30	Visit to the Vista Alegre Museum, Ílhavo
20:00	Conference Dinner at the Montebelo Vista Alegre Ílhavo Hotel

**Day 3 - Friday 1 July 2016**

**Oral Session IV – Combustion Aerosols**

*Chair: José Castillo*

08:45 – 09:05 Towards an effective control of trace emissions from agricultural waste combustion: fly ash characterization versus thermodynamic modelling  
*Aragon G. et al.*

09:05 – 09:25 Shipping emissions of PM<sub>2.5</sub>, PM<sub>10</sub> and TSP at Leixões Port, Portugal  
*Nunes R.A.O. et al.*

09:25 – 09:45 Evidence of biomass burning impact in the urban environment of southern Spain  
*Minguillón M.C. et al.*

**Oral Session V – Aerosol Fundamentals & Technology**

*Chairs: Joan Rosell Llompart, Casimiro Pio*

09:45 – 10:05 Aerosol route to prepare nanostructured materials  
*Martin S. et al.*

10:05 – 10:25 Effect of thermophoresis on PIV measurements in combustion  
*Muntean V. and Higuera F.J.*

10:25 – 10:45 A field study on the optimum structure of cleanable media along their service life challenged with periodically-produced high-concentration populations of ultrafine metallic particles  
*Tucho R. et al.*

10:45 – 11:05 First particle depolarization ratio measurements at the Barcelona (Spain) EARLINET/ACTRIS station: developments, implementation and first results  
*Rodríguez A. et al.*

11:05 – 11:25 New generation of particle devices: Dekati eFilter, Pegasor, Aerosol Devices Spot Sampler and CPC Magic  
*Solma, Environmental Solutions. Commercial Presentation*

11:25 – 11:45 Coffee break

**Oral Session VI – Bioaerosols**

*Chairs: Ana Calvo, Célia Alves*

11:45 – 12:05 Occurrence of aspergillus fumigatus in the air of workplaces  
*Lawniczek-Walczyk A. et al.*

12:05 – 12:25 Effect of electrical charges on potential of fibers for transport of microbial particles in dry and humid air  
*Gorny R.L. et al.*

12:25 – 12:45 Effects of occupational exposure to bacterial aerosols on upper airway inflammation  
*Cyprowski M. et al.*

12:45 – 13:00 **Closing Session**

## Conference Program – Posters

*Location: room 218, Department of Environment and Planning*

Atmospheric Aerosols	
P1	Improving air quality on platforms and trains in the subway system by modifying the ventilation <i>Moreno T. et al.</i>
P2	Development of a web software application for nanoparticle data management and analysis <i>Andrade-Garda J. et al.</i>
P3	Trends in air pollution between 2009 and 2015 in urban areas of Galicia <i>Piñeiro-Iglesias M. et al.</i>
P4	POLARUBI campaign – individual particle analysis of atmospheric aerosols at a remote site, north of the Arctic Circle <i>Mogo S. et al.</i>
P5	Day-night aerosol microphysical profiling combining lidar and sun/star radiometer <i>Benavent-Oltra J.A. et al.</i>
P6	New particle formation events in a suburban area of Galicia during 2014 <i>Iglesias-Samitier S. et al.</i>
P7	A statistical analysis of atmospheric turbulence by aerosol lidar <i>Moreira A.G. et al.</i>
P8	Intense desert dust event detected at Southwestern Iberian Peninsula in winter 2016 <i>Obregón M.A. et al.</i>
P9	Aerosol radiative effects in shortwave and longwave spectral ranges during an intense desert dust episode over Portugal <i>Valenzuela A. et al.</i>
P10	Heating rate profiles and radiative forcing of a dust storm in the Western Mediterranean using satellite observations <i>Peris C. et al.</i>
P11	Sensitivity of the radiative forcing and heating rate profile retrievals to the dust properties <i>Peris C. et al.</i>
P12	Constraining raman lidar microphysical profiling with star radiometry <i>Ortiz-Amezcu P. et al.</i>
P13	Shortwave cloud radiative effects at the surface in the south of Portugal <i>Salgueiro V. et al.</i>
P14	Identification of atmospheric high turbidity episodes using different aerosol measurement techniques <i>Mateos D. et al.</i>

P15	Fingerprints of aerosol mineral dust and its mixtures on optical and microphysical properties <i>Burgos M.A. et al.</i>
P16	Hygroscopic scattering enhancement during AMICUS campaign <i>Titos G. et al.</i>
P17	Aircraft observations of aerosol physical and optical properties in the Western Mediterranean summertime <i>Ealo M. et al.</i>
P18	Evaluation of the impact of harbour emissions in the urban air quality of Barcelona <i>Pérez N. et al.</i>
P19	Impact of long-range transport on Saharan dust aerosol optical and microphysical properties <i>Velasco-Merino C. et al.</i>
P20	Assessment of airborne titanium particulate matter from the wearing of a photocatalytic bituminous pavement in an urban area <i>Palacios M. et al.</i>
P21	On the use of dust prediction models and satellite images to identify African dust outbreaks <i>Cabello M. et al.</i>
P22	Spatial and temporal variability of absorbing aerosols and their spectral dependence in Granada <i>del Águila et al.</i>
P23	Variability of black carbon particles with altitude in Sierra Nevada, Southern Spain <i>del Águila et al.</i>
P24	Assessment of spectral AOD from broadband diffuse-to-direct ratio <i>Sanchez G. et al.</i>
P25	Characterization of aerosol optical properties from cluster analysis at a remote background station <i>Sola Y. and Lorente J.</i>
P26	Pico Mountain Observatory <i>Fialho et al.</i>

## Air Quality

P27	Antimony speciation in particulate matter related to subway and surface traffic in Barcelona, Spain <i>Sánchez-Rodas D. et al.</i>
P28	HCl and HF emissions rate in ambient air derived from phoshogypsum stacks (Huelva, SW Spain) <i>Torres-Sánchez R. et al.</i>
P29	Effect of precipitation and dispersion conditions on air quality in Western European Atlantic areas <i>Barrero et al.</i>
P30	Carbonaceous aerosols in Andalusia <i>Sánchez de la Campa A.M. et al.</i>
P31	Inorganic Geochemistry of PM <sub>10</sub> in Andalusia (2007-2014) <i>Sánchez de la Campa A.M. et al.</i>
P32	Decoupling of air masses in the Western Mediterranean: simultaneous African dust outbreaks and Mediterranean polluted contributions in Southern Spain <i>Orza J.A.G. and Cabello M.</i>
P33	Winter Saharan dust intrusion at Leon (Spain): biogenic and non-biogenic aerosol transport <i>Calvo A.I. et al.</i>
P34	Long-term study of particulate matter and gaseous pollutants concentrations in Granada metropolitan area: 2000-2015 <i>Casquero-Vera J.A. et al.</i>
P35	Indoor/outdoor relationships for fine particulate matter and associated carbonaceous fractions at residential homes in Oporto, Portugal <i>Ribeiro A.I. et al.</i>
P36	AIRUSE-LIFE+: parent polycyclic aromatic hydrocarbons and their derivatives in PM <sub>2.5</sub> from Southern European cities <i>Alves C. et al.</i>
P37	Source apportionment of PM <sub>2.5</sub> in office buildings of different European countries using a PMF approach <i>Canha et al.</i>

## Combustion Aerosols

P38	Effect of biodiesel, oxygenated additives and hydrogen on nanoparticle emission in a diesel engine <i>Domínguez-Saéz A. et al.</i>
P39	Size-segregated aerosol chemical composition from an agro-industrial region of São Paulo State, Brazil <i>Gonçalves C. et al.</i>
P40	Characterization of ultrafine and black carbon particles at an urban area in Southern Spain <i>Foyo-Moreno I. et al.</i>
P41	Characterization and source identification of black carbon particles at the Alhambra monument <i>Patrón D. et al.</i>
P42	Particulate emissions from charcoal combustion in Portuguese barbecue grills <i>Vicente E. et al.</i>
P43	Application of a hybrid filter (HF) to biomass combustion emission control <i>Sanz D. et al.</i>

## Aerosol Fundamentals & Technology

P44	An intercomparison campaign for CPC, SMPS and UFPM in the frame of the REDMAAS network <i>Gómez-Moreno F.J. et al.</i>
P45	Neutralization of an electrospray by a corona discharge <i>Higuera F.J.</i>
P46	Simulations of periodic electric microdripping emissions <i>Lobato M.A. et al.</i>
P47	Electro-hydrodynamic spraying with extractor-free 1D emitter arrays <i>Sochorakis N. et al.</i>
P48	Electrospray drying of polymeric solution droplets <i>Bodnár E. et al.</i>
P49	Analysis of the space charge singularity near the Taylor cone apex via simplified eulerian model for electrospray beams in vacuum <i>Hernández-San José C. and Arias-Zugasti M.</i>

## Bioaerosols

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| P50 | Bioaerosol contamination of light passenger aircraft cabins<br><i>Stobnicka A. et al.</i>   |
| P51 | Microbiological hazards associated with production and sorting of banknotes<br><i>Gołofit-Szymczak M. et al.</i>  |
| P52 | <i>Platanus hybrida</i> and <i>quercus rotundifolia</i> pollen: potential contribution for the outdoor air allergen loads in the city of Évora<br><i>Arriegas R. et al.</i> |