



Workshop on Aerosol Impact in the Environment: from Air Pollution to Climate Change

Organizer(s): Directors: Dario Gaiotti, Fabien Solmon (Local Organiser), Fulvio Stel
Trieste - Italy, 08 - 12 August 2011

Venue: Leonardo da Vinci Building Euler Lecture Hall

Final programme

Monday, 8th August (Room:Leonardo da Vinci Building Euler Lecture Hall)

8 August 2011

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| 08:30 - 09:30 | (Room: Leonardo da Vinci Building, Lobby)
Registration and Administrative Formalities |
| 09:30 - 09:45 | Directors of Workshop
Opening Remarks and Welcome |
| 09:45 - 10:30 | E. Vignatti / <i>Inst. for Environment & Sustainability, Ispra, Italy</i>
Introductory talk: Air quality and climate change, How to improve both at the same time |
| 10:30 - 11:00 | (Room: Leonardo da Vinci Building Terrace)
--- Coffee Break --- |
| 11:00 - 12:00 | E. Vignatti / <i>Inst. for Environment & Sustainability, Ispra, Italy</i>
Aerosol processing in the atmosphere: emissions, dynamics and deposition |
| 12:00 - 14:00 | (Room: Leonardo da Vinci Building Cafeteria)
--- Lunch Break --- |
| 14:00 - 15:00 | G. Martini / <i>Inst. for Environment & Sustainability, Ispra, Italy</i>
Emission processes and regulation - combustion engines |
| 15:00 - 15:45 | F. Stel / <i>ARPA.,FVG, , Italy</i>
Aerosol Emissions processes |

15:45 - 16:15 (Room: Leonardo da Vinci Building Terrace)
--- Coffee Break ---

16:15 - 17:00 **F. Solmon / ESP, ICTP, Trieste, Italy**
Aerosol emission processes in Africa

17:00 - 18:00 **Introduction to the Poster session**

Tuesday, 9th August (Room:Leonardo da Vinci Building Euler Lecture Hall)

9 August 2011

09:15 - 10:00 **M. Mallet / Laboratoire d'Aerologie, Toulouse, France**
Introduction to Aerosol / radiation/ climate interactions

10:00 - 10:45 **O. Dubovik / Lab. d'Optique Atmospherique, Lille, France**
Development of aerosol retrieval: Applications in ground-based remote sensing.

10:45 - 11:00 (Room: Leonardo da Vinci Building Terrace)
--- Coffee Break ---

11:00 - 11:40 **O. Dubovik / Lab. d'Optique Atmospherique, Lille, France**
Potential of aerosol properties from enhanced satellite observations.

11:40 - 12:00 **A. Panicker / Pukyong Nat. University, Busan, Rep. of Korea**
Black carbon radiative forcing over a GAW site in Korea

12:00 - 12:20 **T. Bedareva / V.E.Zuev Inst. of Atmospheric Optics, Tomsk, Russian Federation**
Aerosol optical model under low and high atmospheric turbidity for West Siberia

12:30 - 14:00 (Room: Leonardo da Vinci Building Cafeteria)
--- Lunch Break ---

14:00 - 15:00 **F. Solmon / ESP, ICTP, Trieste**
Aerosol regional radiative effects and climatic impact modelling over Africa

15:00 - 15:45 **M. Mallet / Laboratoire d'Aerologie, Toulouse, France**
Assessing the regional radiative and climate impact of aerosol: charmex

15:45 - 16:15 (Room: Leonardo da Vinci Building Terrace)
--- Coffee Break ---

16:15 - 16:35 **K. Spoler Canic / Meteorological & Hydrological Service, Zagreb, Croatia**
Saharan dust episodes in urban aerosol in Croatia and Italy

16:40 - 17:10 **M. Chiaccio / ESP, ICTP, Trieste, Italy**
Global dimming and role of aerosols

19:00 - 21:00 (Room: Leonardo da Vinci Building Cafeteria)
--- Workshop Reception ---

Wednesday, 10th August (Room:Leonardo da Vinci Building Euler Lecture Hall)

10 August 2011

09:15 - 10:00	R. T. Bruintjes / <i>National Center for Atmospheric Research, Colorado, USA</i> History and basics of aerosol-cloud interactions
10:00 - 10:45	N. Meskhidze / <i>North Carolina State University, Raleigh, USA</i> The Effect of Ocean Biogeochemistry on Aerosol, Clouds and Climate
10:45 - 11:15	(Room: Leonardo da Vinci Building Terrace) --- Coffee Break ---
11:15 - 12:00	R. T. Bruintjes / <i>National Center for Atmospheric Research, Colorado, USA</i> Aerosols and Weather Modification including Geo-Engineering principles
12:00 - 14:00	(Room: Leonardo da Vinci Building Cafeteria) --- Lunch Break ---
14:00 - 14:20	B. Szabo Takacs / <i>University of Pecs, Pecs, Hungary</i> Numerical simulation of the interaction between stratocumulus clouds and the aerosol particles
14:20 - 15:15	N. Meskhidze / <i>North Carolina State Univ., Raleigh, USA</i> Modeling of Atmospheric Transport and Deposition of Soluble Iron to the Oceans
15:15 - 15:45	(Room: Leonardo da Vinci Building Terrace) --- Coffee Break ---
16:15 - 18:30	General Discussion and Poster session

Thursday, 11th August (Room:Leonardo da Vinci Building Euler Lecture Hall)

11 August 2011

09:15 - 10:15	D. Giaiotti / <i>ARPA FVG, Palmanova, Italy</i> Numerical modelling for air quality at regional scale: the aerosol challenge.
10:15 - 10:45	(Room: Leonardo da Vinci Building Terrace) --- Coffee Break ---
11:00 - 11:45	F. Stel / <i>ARPA FVG, Palmanova, Italy</i> Basics of mitigation strategy on aerosol problem: from facts to acts
11:45 - 12:05	O. Skrynyk / <i>Ukrainian Res. Hydrometeorological Inst., Kyiv, Ukraine</i> Parameterization of near-source atmospheric diffusion in eulerian models: comparative analysis
12:05 - 13:55	(Room: Leonardo da Vinci Building Terrace) --- Lunch Break ---
14:00 - 14:45	D. Ruprecht / <i>LARS, Environmental Research Lab., Firenze, Italy</i> Comparison of different real time measurements methods (gravimetric manual, gravimetric automatic (BAM & TEOM), OPC, CPC, DMA, DMPS, SMPS, APS, BC, OC): differerent suitability for different kind of environmental assessment.
14:45 - 15:00	E. Baiutti & F. Moimas / <i>ARPA, FVG, Italy</i> Road salting and PM10 concentration
15:00 - 15:20	L. K. Sahu / <i>Physical Research Laboratory, Ahmedabad, India</i> Seasonal and diurnal variations of carbonaceous aerosols in Bangkok

15:20 - 15:50 (Room: Leonardo da Vinci Building Terrace)
--- Coffee Break ---

15:50 - 16:35 **D. Ruprecht** / *LARS, Environmental Research Lab., Firenze, Italy*
Spatial heterogeneity of chemical constituents of fine particulates: implications for epidemiological and exposure research.

Friday, 12th August (Room:Leonardo da Vinci Building Euler Lecture Hall)

12 August 2011

10:00 - 12:00 (Room: Leonardo da Vinci Building Terrace)
Technical Emperiments

12:00 - 12:30 **Conclusion and Final Remarks**