



The Abdus Salam
International Centre for Theoretical Physics



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

8 - 12 August 2011
Miramare, Trieste, Italy



The Abdus Salam International Centre for Theoretical Physics in collaboration with Arpa, FVG, is organizing an **Workshop on Aerosol Impact in the Environment: from Air Pollution to Climate Change** from 8 to 12 August 2011. It will be directed by **D. Gaiotti** (Arpa FVG, Italy), **F. Solmon** (Earth System Physics, ICTP) and **F. Stel** (Arpa FVG, Italy).

Local Organizer: **F. Solmon** (Earth System Physics, ICTP)

Aerosols (fine particles in suspension in the atmosphere) are currently one of the most relevant topics in atmospheric chemistry and earth system physics. Aerosols are both emitted by natural processes and anthropogenic activities and they can also form from gaseous precursors released in the atmosphere. Aerosols are characterized by a large diversity in terms of composition, properties and geographical distribution. At large concentrations, aerosols induce pollution and public health problems for exposed population. When transported, they also affect local to global climate through their interactions with atmospheric radiations and clouds. Finally, aerosol deposition on land and ocean can impact ecosystems functioning and biogeochemical cycles as well.

Aims of the Workshop

The workshop intends to promote exchange of expertise and knowledge of different scientific communities in aerosol science, which is a prerequisite for developing and strengthening multidisciplinary approaches. Atmospheric chemists and physicists, meteorological and climate numerical modelers, environmental and health scientists are expected to contribute through formal presentations and discussions.

An important goal of the workshop is to reinforce the visibility of aerosol research carried out in developing nations. The workshop aims at promoting the scientific cooperation between students and scientists of developing and developed countries, in particular regarding aerosol detection and numerical modeling and impact studies.

PARTICIPATION:

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the School. As it will be conducted in English, participants should have an adequate working knowledge of that language. Although the main purpose of the Centre is to help research workers from developing countries, through a programme of training activities within a framework of international cooperation, a limited number of students and post-doctoral scientists from developed countries are also welcome for their fare (or at least half-fare). However, limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. **There is no registration fee.**

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website
<http://agenda.ictp.it/smr.php?2256>

Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

Deadline for requesting participation: **1st May 2011**

ACTIVITY SECRETARIAT:

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Organisers

D. Gaiotti
Arpa FVG, Italy
F. Solmon
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F. Stel
ARPA FVG, Italy

Invited Speakers

A. Borowiak
Joint Research Center, Italy
O. Dubovik
Lab. d'Optique Atmosp., France
B. Guinot*
Lab. d'Aerologie, CNRS, France
M. Mallet*
Lab. d'Aerologie, CNRS, France
G. Martini*
Joint Research Center, Italy
N. Meskhidze
North Carolina State Univ. USA
E. Vignati
Joint Research Center, Italy

DEADLINE
for requesting participation

1st May 2011
(if financial support and/or visa are needed)