



**The Abdus Salam
International Centre for Theoretical Physics**

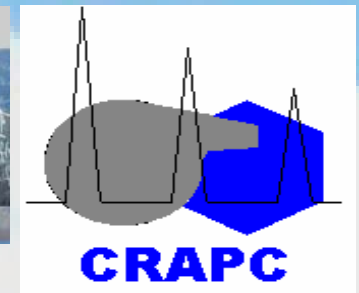
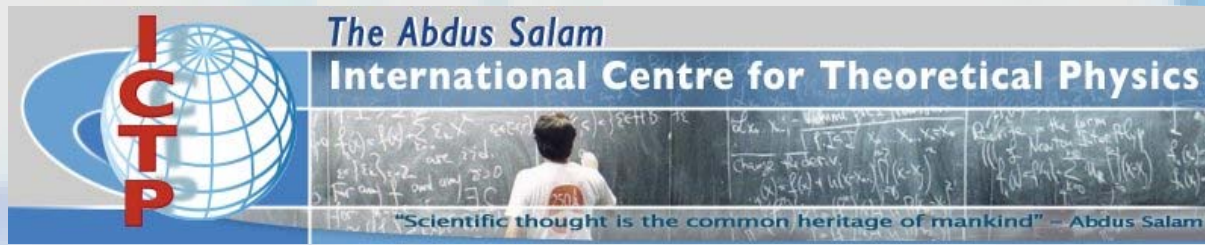
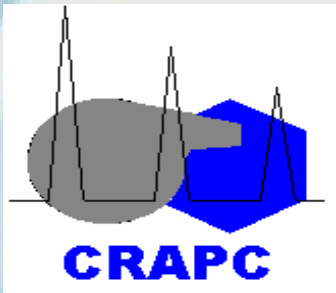


2256-Presentations

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

8 - 12 August 2011

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***Workshop on Aerosol Impact in the Environment: from Air Pollution to
Climate Change 08-12 August, Trieste, Italy***

Permanent Institute : Scientific and Technical Center Of Physical and Chemical Analysis, Algiers, ALGERIA

Research Field : Analytical Organic Chemistry

Topics Interest: Air Pollution Chemistry

Past and current research experience:

-Analysis of volatile organic compounds (VOCs) by gas chromatography with flame ionization detector or mass spectrometer detector in selected ion monitoring, the passive and active sampling have been deployed in field sampling (urban, industrial and workplace areas).

-Analysis of extractable particulate matter, provide from urban, rural and forested areas in northern Algeria. The pollutants were analyzed by GC/FID and GC/MS. The chemical composition shows that: n-alkanes, n-alkanoic acids, α,ω -carboxylic acids, polycyclic aromatic hydrocarbons (PAHs) and their nitrated derivatives (NPAHs), and highly polar compounds (such as; nicotine, caffeine and oxygenated-PAHs).

-Analysis of carbonaceous aerosol in urban and rural areas, determination of organic and elemental carbon, and water soluble organic carbon. In addition ionic species were also determined by ionic chromatography.

-Analysis of semi-volatile organic compounds such as; pesticides and persistent organic pollutants (including: polychlorodibenzo-para-dioxins, dibenzofurans and dioxin-like polychlorinated biphenyls). The passive sampling using disk of polyurethane foam was deployed, while the analyses were conducted by tandem GC/MS/MS for pesticides or GC/HRMS for persistent organic pollutants.

-Quantitative analysis of volatile organic compounds (BTEX) in indoor/outdoor air

-Publication :

1-Chemical composition of organic extractable matter in urban and rural air atmospheres of northern Algeria

2- Atmospheric concentrations of PCDD/Fs, dl-PCBs and some pesticides in northern Algeria using passive air sampling, submitted at Chemosphere