



Workshop TECH-AIR 2016

Application of Non-Conventional Analytical TECHniques to Atmospheric PartIculate Matter

Description

As part of its institutional activities, the Italian Aerosol Society (IAS, www.iasaerosol.it) is organizing a workshop entitled: "Application of non-conventional analytical techniques to atmospheric particulate matter".

The study of composition and chemical reactivity of atmospheric particulate matter (PM) has a vital role to characterise pollution sources, the optical properties of PM and its toxicity. These are key elements to study the potential effects of PM on health and climate. Beside the use of conventional analytical techniques, widely applied to the characterization of atmospheric particulate, an increasingly important role is assumed by techniques and/or advanced analytical methods, widely used in other scientific fields, to obtain detailed information on physical-chemical properties of particulate matter.

The Workshop is aimed at discussing the state-of-art of these techniques and their application to atmospheric aerosol studies. It is a scientific event, which will see the participation of several experts on this field from academic and research communities as well as from Environmental Agencies. Presentations will focus the most recent advances on this topic and discussions will deal with possible future developments and applications.

The Workshop foresees **five invited talks, a poster session, and a final discussion session (round table)**. Lunch will be organised at the same venue of the workshop to allow discussion between the participants and the viewing of the posters.

The analytical techniques treated at the Workshop and the corresponding invited talks are:

1. Fourier Transform Infrared Spectroscopy (FTIR) applied to analysis of organics functional groups.
Speaker: **Prof. Satoshi Takahama**, École Polytechnique Fédérale de Lausanne - Lausanne, Switzerland
2. Air Quality Control: the contribution of XPS.
Speaker: **Prof. Davide Atzei/Prof.ssa Antonella Rossi**, Università degli Studi di Cagliari
3. Multi Wave Absorption Analyzer (MWAA) for the analysis of carbonaceous content of PM.
Speaker: **Dr. Dario Massabò**, Università di Genova & INFN
4. Aerosol Mass Spectrometry (AMS) for the study of the chemical composition of the particulate matter and the characterisation of organic aerosol with high temporal resolution.
Speaker: **Dr. Stefania Gilardoni**, ISAC-CNR
5. Nuclear Magnetic Resonance (NMR) for the study of organics functional groups.
Speaker: **Dr. Stefano Decesari**, ISAC-CNR

Venue and dates

The Workshop will be held in **Lecce on 7/11/2016**. The location is the "Sala del Rettorato" of the **University of Salento** in Piazza Tancredi 7.

Submission of contributions for the **poster session is open until 30/09/2016**. An abstract (max 2 pages, it will be available at the site www.iasaerosol.it) should be submitted at tech-air2016@le.isac.cnr.it. A book of abstracts will be published. For the participation is required a pre-registration via e-mail (tech-air2016@le.isac.cnr.it), the room could accommodate a maximum number of 90 participants.



How to reach us

By train

The venue of the Workshop “Sala del Rettorato” (40°20’58.19’’N; 18°10’02.24E) is easily accessible from Central Station, which is about 0.5 km far away (see the maps below).

By Air

Brindisi Airport (also known as Papola - Casale) is the transport hub for the whole area and it serves the provinces of Brindisi, Taranto, and Lecce (about 47 km from the airport). Several flights from different airlines (Alitalia, Airone, Ryanair, Easyjet and Volotea. For links Airport-to-Lecce it can be used the service offered by the City Airport Terminal company, located in a strategic position at the entrance north of the city of Lecce (near the Hotel Tiziano). For info about timetables and purchase tickets, visit the link <http://www.salento-turismo.com/airport-city-terminal-aeroporto-brindisi-lecce.html>. Another option to reach the city of Lecce from Brindisi airport, is self-booking (by phone) a private shuttle, which offers the advantage of transporting you to your desired destination (such as Hotels and/or Workshop site). For major information, visit the link: <http://www.navettabrindisilecce.it/>.

Accommodation

Hotel 4*

- Grand Hotel Tiziano e dei Congressi. This hotel features an outdoor pool, a sun terrace, a free parking, air-conditioned rooms furnished in modern style, a good restaurant, a spa, and various meeting rooms. The Hotel is at about 20min walk from the venue of the Workshop. Website: www.grandhoteltiziano.it
- Suite Hotel Santa Chiara. Elegant hotel in the heart of the historic center of Lecce, next to the beautiful church of Santa Chiara, just 50 meters from Piazza Sant'Oronzo and about 700 meters from Piazza Mazzini. The hotel is at about 7mins walk from the venue of the Workshop. Website: santachiaralecce.it

Hotel 5*

- Patria Palace Hotel. Set within an ancient eighteenth century palace, located in the heart of the historic center of Lecce, just steps from the monumental Basilica of Santa Croce. The hotel is located at about 11mins walk from the venue of the workshop. Website: patriapalace.com/it
- Risorgimento Resort Hotel. Recently renovated in 2007, located in the center of Lecce. The hotel is at about 7mins walk from the venue of the workshop. Website: www.risorgimentoresort.it

Scientific Committee

Maria Rachele Guascito – Università del Salento

Vorne Gianelle – ARPA Lombardia

Daniele Contini – ISAC-CNR & Tesoriere IAS

Paolo Prati – Università degli Studi di Genova & INFN

Organising Committee

Carole Lecerf - IAS, Segreteria (tech-air2016@le.isac.cnr.it)

Daniela Cesari – ISAC-CNR

Daniela Chirizzi – Università del Salento

With the Patronage of



**UNIVERSITÀ
DEL SALENTO**



Consiglio Nazionale delle Ricerche



Map 1. The venue of the Workshop is 0.5 km away from the central station (stazione centrale FS in the map).



Map 2. Position of the hotels located near the Workshop venue.