



**Second School of the Italian Aerosol  
Society (IAS)  
Rimini, June 10 - 15 2013**

With the patronage of ARPA Emilia Romagna  
Section of Rimini



The Italian Aerosols Society (IAS) organizes its second training school aimed at students, researchers and practitioners in the field of atmospheric aerosols. The School will run for 5 days with 40 hours of lessons and a program that, after an introduction on basic skills, will examine two issues closely related and highly relevant: the numerical modelling to simulate the dispersion of pollutants in the atmosphere and source apportionment by receptor models. Teachers are Italian researchers active in the field. The school address is: **Arpa, Sezione di Rimini, via Settembrini 17/d - 47921 Rimini (RN)**

## Program

### June 9, Sunday

Arrival and accommodation in hotel

### June 10, Monday

**9 am – 1 pm:** Atmospheric aerosol: size distributions, diffusive and inertial behaviour, primary and secondary sources, emission and deposition. Introduction to the main sampling and analytical techniques for aerosol characterization.

**3-7 pm:** Meteorology of the boundary layer. Eulerian and Lagrangian approach (introduction).

### June 11, Tuesday

**9 am – 1 pm** Lagrangian models: trajectory and dispersion models. Tutorial on Lagrangian models

**3-7 pm:** Eulerian models: off-line and on-line models. Treatment of gaseous pollutants. Pollutants in particulate phase: different approaches for the treatment of aerosol, aerosols dynamic, secondary aerosol, heterogeneous chemistry.

### June 12, Wednesday

**9 am – 1 pm:** Model Input: meteorology, anthropogenic emissions (database), emissions from natural sources (parameterizations)

**3-7 pm:** Tutorial on Eulerian models

### June 13, Thursday

**9 am – 1 pm:** Introduction to receptor models; potential and limits.

**3-7 pm:** Source apportionment by CMB (Chemical Mass Balance). Tutorial on CMB.

### June 14, Friday

**9 am – 1 pm:** Source apportionment by PMF (Positive Matrix Factorization)

**3-7 pm:** Tutorial on PMF. Final Discussion

**8.30 pm:** Dinner and Conclusion of the School

### June 15, Saturday

Check-out and departure

## Lecturers

**Dr. Daniele Contini** – ISAC-CNR, Lecce  
([d.contini@isac.cnr.it](mailto:d.contini@isac.cnr.it))

**Dr. Sandro Finardi** – Arianet, Milano  
([s.finardi@aria-net.it](mailto:s.finardi@aria-net.it))

**Dr. M. Grazia Perrone** – Univ. Milano Bicocca  
([grazia.perrone@unimib.it](mailto:grazia.perrone@unimib.it))

**Dr. Silvia Nava** – INFN, Firenze  
([nava@fi.infn.it](mailto:nava@fi.infn.it))

**Prof. Francesco Tampieri** – ISAC-CNR, Bologna  
([f.tampieri@isac.cnr.it](mailto:f.tampieri@isac.cnr.it))

## *Application and logistics*

The participation to the School is limited: the first 40 applications will be accepted: requests will not be considered for participation limited to a few days. The registration fee includes an "all inclusive" treatment (registration, accommodation, meals from Sunday 9 to Saturday, June 15). The costs of travel to Rimini are borne by the participants. Applications must be sent by email to Carole Lecerf ([c.lecerf@isac.cnr.it](mailto:c.lecerf@isac.cnr.it)) specifying educational qualification, age, employment status, accommodation in a double or single, and any special requests (e.g. preferences for placement in double room). After receiving confirmation, the registration must be completed by April 5, 2013 with payment of the participation fee by bank transfer to **the IAS account at the Bank Prossima spa, Milano IBAN: IT36Z0335901600100000003937**. stating as reason for payment: Name, Registration IAS School of Rimini. Upon receipt of the bank transfer, the participants will receive by email a final confirmation of registration and information about the accommodations. The invoice for the payment will be delivered directly to Rimini, any requirement on the header of the invoice must be notified at the moment of registration. Participants will also receive

a certificate of participation during the final dinner on 14 June.

Accommodation	Fee (VAT excluded)
Double room	€ 500 S
	€ 600 R
	€ 700 N
Single room	€ 560 S
	€ 660 R
	€ 760 N

Shortcuts legend:

S = Students and post-doc IAS Associates  
R = IAS Associates and Students not-associates  
N = Others

Registrations will be accepted until May 15, 2013, with a € 150 increase of the registration fee regardless of the requested accommodation. Further information can be requested via email to the members of the Organizing Committee.

## *Organizing Committee*

**Franco Belosi** – ISAC-CNR, Bologna

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**Carole Lecerf** - IAS, Rimini

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**Paolo Prati** - Dip. di Fisica, Univ. di Genova

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