



SOCIETY







# International IAS summer school

## Aerosol in polar and mountain areas: theoretical and practical aspects

The Italian Aerosol Society (IAS) with the collaboration of Ca' Foscari University of Venice and Institute of Polar Sciences – CNR organizes an international summer school with a particular focus on aerosol in polar and mountain areas.

The School is addressed to PhD students, postdoctoral researchers and others researchers who operate in aerosol science.

Students will be introduced to the most relevant aspects of aerosol properties and experimental methods with a special focus on those specifically used in climate studies.

The registration must be done by filling out the following form: click here.

The participants are required to participate by presenting an A0 poster.



16 - 21 June 2024



### **Venice and Dolomites, Italy**

Lessons will be held at:
Scientific Campus of Ca' Foscari
University of Venice
Via Torino 155, 30172 Mestre-Venice



Deadline for application: 31 May 2024

#### **Topics**

- Aerosol chemistry and physics
- Meteorology of polar and mountain areas
- Bioaerosol
- Atmospheric modelling
- Anthropogenic impact in remote regions
- Aerosol optical proprieties
- Economic and legal implications of air pollution
- Impact of communication of polar research

#### **International confirmed lectures**

Radovan Krejci (Stockholm University, Sweden), Tuukka Petäjä (University of Helsinki, Finland), Paolo Laj (WMO), Julia Schmale (EPFL, Switzerland), Zhiyong Xie (Helmholtz-Zentrum Hereon, Germany), Stefano Bianchi (University of Helsinki, Finland).

**Organizing committee:** Andrea Gambaro (UNIVE, CINSA Venice), Elena Barbaro (ISP-CNR and WG4 IAS head), Elisa Scalabrin (ISP-CNR), Matteo Feltracco (UNIVE), Giovanna Mazzi (UNIVE), Stefano Frassati (UNIVE), Eleonora Favaro (UNIVE), Carole Lecerf (IAS)

**Scientific committee:** Daniele Contini (IAS, ISAC-CNR), Elena Barbaro (ISP-CNR and WG4 IAS head), Carlo Barbante (UNIVE, ISP-CNR), Andrea Gambaro (UNIVE, CINSA Venice), Matteo Feltracco (UNIVE), Elena Maestri (CINSA Parma)

#### Partecipation fees:

- PhD students IAS members 400€
- Post-docs IAS members 450€
- PhD students and post-docs non-members 550€
- Others 550€

#### Partecipation fees + overnight stay:

- PhD students IAS members 800€
- Post-docs IAS members 850€
- PhD students and post-doc non-members 950€
- Others 950€

The registration fees include: lunch and coffee breaks from 17th to 21st June; trip to Dolomites and Venice; social dinner; certificate of attendance.

To have more information about location, scientific contributions, posters, etc., please contact: ias.school2024@unive.it

For information regarding payment: c.lecerf@isac.cnr.it













ITALIAN AEROSOI SOCIETY







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### Aerosol in polar and mountain areas: theoretical and practical aspects

**PROGRAMME** 

16th June 2024

Arrival and hotel accommodation

17th June 2024

8:30-9:00 Arrival and registration of participants

Chairman: Daniele Contini

9:00-9:20 Presentation of the International School by local authorities

9:20-10:00 Carlo Barbante

The importance of studying polar and mountain areas

10:00-10:45 Coffee break

10:45-11:30 Julia Schmale

What did we learn from one year of aerosol observations in the central Arctic Ocean during MOSAiC?

11:30-12:15 Dino Zardi

Climatology and meteorology of mountain areas

12:15-13:00 Roberta Vecchi

Aerosol optical properties and black carbon

13:00-14:00 Lunch & poster session

14:00-18:00 Case studies and applications

Chairman: Andrea Gambaro

14:00-14:30 Luca Ferrero

The climatic impact of anthropic settlements in the Arctic

14:30-15:00 Fabio Giardi

Mineral dust in polar areas

15:00-15:30 Stefano Bertinetti

Element characterization and chemical speciation of Arctic PM10

15:30-16:00 Roberta Zangrando

Water soluble organic compounds in atmospheric aerosol in remote areas: sources and processes

16:00-16:30 **Coffee break** 

16:30-17:00 Marco Paglione

One year of organic aerosol source apportionment in Ny-Ålesund, Svalbard from advanced techniques

17:00-17:30 David Cappelletti

Molecular tracers of carbonaceous aerosol at the Monte Martano EMEP station

17:30-18:00 Angela Marinoni

The study of atmospheric aerosol at the WMO-GAW station on Monte Cimone

18th June 2024

Chairman: Matteo Feltracco

9:00-09:45 Zhiyong Xie

POPs and emerging chemicals of concern in the Arctic atmosphere: The impact of human activity and climate change

9:45-10:30 Paolo Laj

Observations of aerosol properties at highaltitude stations of the GAW

10:30-11:00 Coffee break

11:00-11:45 Tuukka Petaja

On the connection between biospheric emissions, aerosol particles and properties of clouds

11:45-12:30 Maurizio Azzaro

Bioaerosol of polar areas

12:30-13:15 Radovan Krejci

Aerosol-cloud interaction in the Arctic

13:15-14:15 Lunch & poster session

14:15-15:00 Federico Bianchi

Chasing pre-industrial aerosol at high altitude

15:00-18:00 Case studies and applications

Chairman: Elena Barbaro

15:00-15:30 <u>Silvia Becagli</u>

Biogenic aerosol in polar regions: a marker of ocean/atmosphere interaction in a climate change world

15:30-16:00 Silvia Illuminati

Atmospheric particulate matter in Antarctica: size-distribution, sources, and seasonal evolution

16:00-16:30 **Coffee break** 

16:30-17:00 Antonio Donateo

Size-segregated particles deposition velocity by the eddy correlation method over snow in the Arctic

17:00-17:30 Stefania Gilardoni

Analysis of submicron aerosol particle mixing state in the Arctic

17:30-18:00 Henri Diémoz

Aerosol dynamics in the northwestern Alps: insights from in-situ and remote sensing observations at medium and high altitudes

19th June 2024

9:00-18:00 Field activities at Col Margherita Observatory (Falcade, BL)

20th June 2024

Chairman: Elisa Scalabrin

9:00-9:45 Francesco Bosello

Air pollution, methods and results from the economic analysis

9:45-10:30 Paolo Brambilla

Air pollution regulation: navigating legislation for cleaner skies

10:30-11:00 Coffee break

11:00-11:45 Mauro Mazzola

Scientific infrastructures at Nv-Ålesund

11:45-12:30 Fabiana Corami

Microplastics in polar areas: occurrence and quantification

12:30-13:00 Gianni Formenton

Indoor pollution by wood burning in mountain houses

13:00-14:30 Lunch & poster session

14:30-15:30 Enrico Costa

Connecting the poles: The challenges for scientific communication of polar research

15:30-19:30 Social event, visit to Venice

20:00 Social dinner in Venice

21st June 2024

9:30-10:15 AMS Analitica

10:15-11:00 Dadolab

11:00-11:30 **Coffee break** 

11:30-12:15 Luchsinger

12:15-13:00 XearPro / CIMEL

13:00-13:15 Closing and final farewells







