6-11 September 2015

Handbook

IAS
Italian Aerosol Society
Experience matters

The Aethalometer®
the world’s most relied-upon instrument for real-time aerosol black carbon monitoring.

Accurate data:
DualSpotTM technology eliminates post-processing

Source apportionment:
seven wavelengths render real-time speciation

Field validation:
NIST-traceability to a reference standard

Rugged, reliable, automatic:
35 years of published performance

General inquiries:
EU: Aerosol d.o.o., Kamniška 41, SI-1000 Ljubljana, Slovenia
tel: +386 59 191 22, fax: +386 59 191 221
www.aerosol.si

US: Magee Scientific Corp.,
1916 M.L., King Jr. Way, Berkeley CA 94704, USA
tel: +1 510 845 2801, fax: +1 510 845 7137
www.mageescientific.com
Changes to the printed version of the handbook will be reported in the online version of the Handbook available on the web site (www.EAC2015.it - section Final Program).
FROM PLUMES AT 10,000 METRES.

TO FUMES AT 1 METRE.

Ecotech's Aurora Nephelometers and ACS 1000 measure aerosol particles in a diverse range of environments and applications. Get the full picture from our researchers.

VISIT US TODAY AT BOOTH 6
Welcome to Milan

The 2015 European Aerosol Conference (EAC 2015) will be held in Milan, Italy, during the period 6th - 11th September 2015 under the auspices of the European Aerosol Assembly (EAA), a body that now represents 12 national or regional aerosol societies.

It is a pleasure and honor for the Italian Aerosol Society to organize such important meeting of scientists from all over the world.

Patronage

The conference will be held under the auspices of:

With the Patronage of
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Maps

Conference Venue

Milano-Bicocca University U6 BUILDING
Piazza dell’Ateneo Nuovo 1, 20126 Milan

The University stands in an area on the northern edge of Milan, which was occupied by the Pirelli industrial complex until the late 1980s. University Milano-Bicocca is a laboratory where tradition and modernity are combined to ensure an innovative future. University buildings are characterized by red walls and white window shutters: the main complex facing the squares Piazza dell’Ateneo Nuovo and Piazza della Scienza.
Social Programme Venue

WELCOME COCKTAIL AND GUIDED VISIT OF VILLA NECCHI-CAMPIGLIO
(for all the EAC2015 attendees)

Address: Via Mozart, 14 – Milan City Centre

How to get there:
By underground: M1 (Red Line N. 1) – Palestro Stop (5 minutes-walk)

VILLA NECCHI CAMPILGIO – PROPERTY OF FAI
(ITALIAN NATIONAL TRUST)

The Villa, acquired by FAI through the generosity of the Necchi Campiglio Family in 2001. Built between 1932 and 1935 by Milanese architect Piero Portaluppi. Thanks also to its perfectly preserved outbuildings, the Villa encapsulates the history, rituals, worldly pleasures and day-to-day living of Milanese high society in the first half of the 20th century.
CONFERENCE DINNER

MUSEO NAZIONALE DELLA SCIENZA E DELLA TECNOLOGIA
LEONARDO DA VINCI
MUSEUM’S CLOISTERS AND GUIDED VISIT

Address: Via Olona 6 Bis or Via S.Vittore 21, Milan City Centre

How to get there:
By underground: M2 (Green Line N. 2) S. Ambrogio Stop (50 meters)

The National Museum of Science and Technology "Leonardo da Vinci" was created on 15th February 1953 and today is the largest museum of science and technology in Italy, one of the most important ones in Europe and in the world.
INTRODUCING Vion IMS QTof

When you’re up against complex samples, sometimes resolution and accurate mass aren’t enough to give you all the information you need. Enter Vion IMS QTof with Collision Cross Section (CCS). A new mass spectrometer that brings ion mobility to the benchtop like never before. Now the analytes you didn’t know were there have nowhere to hide.

To learn more, visit waters.com/VION
The European Aerosol Assembly (EAA) is the organisation which has the responsibility to plan for the future hosting of European Aerosol Conferences, as well as to promote the development of the field of aerosol science through its working groups. It consists of 12 national or regional societies across Europe, though membership of these societies is not limited to European nationals, and operates under a formal constitution. The major activity of the EAA and its working groups takes place at the European Aerosol Conference, held in three out of every four years (the missing year being that in which the International Aerosol Conference, an event designed to foster links between research communities in all regions of the world, is held).

The Italian Aerosol Society (IAS) was founded in 2008. As given in its constitution the Society maintains a forum of researchers from various Institutions in order to:

- promote collaboration in all areas of aerosol research
- promote by means of meetings and publications the spread of information
- support education in aerosol related fields
- support international co-operation
The European Aerosol Assembly
(http://www.gaef.de/eaa/)

The European Aerosol Assembly (EAA) is the organisation which has the responsibility to plan for the future hosting of European Aerosol Conferences, as well as to promote the development of the field of aerosol science through its working groups. It consists of 12 national or regional societies across Europe, though membership of these societies is not limited to European nationals, and operates under a formal constitution. The major activity of the EAA and its working groups takes place at the European Aerosol Conference, held in three out of every four years (the missing year being that in which the International Aerosol Conference, an event designed to foster links between research communities in all regions of the world, is held).

The Italian Aerosol Society
(http://www.iasaerosol.it)

The Italian Aerosol Society (IAS) was founded in 2008.

As given in its constitution the Society maintains a forum of researchers from various Institutions and Universities in order to:

- promote collaboration in all areas of aerosol research
- promote by means of meetings and publications the spread of information
- support education in aerosol related fields
- support international co-operation
General Information

Conference Venue

The European Aerosol Conference 2015 is held at the Milano – Bicocca University easily accessible by all means of transport but underground is strongly suggested.

Transport to the Conference Venue

By taxi, Radiotaxi
+39 02 8585 / +39 02 6767 / +39 02 5353

By metro (€1.50 basic ticket is valid for 90 minutes after validation)
The Milano-Bicocca University is easily accessible via Metro line 5 (violet), Bignami direction, stop Bicocca.

By tram (€1.50 basic ticket is valid for 90 minutes after validation)
Line 7: Arcimboldi-Ateneo Nuovo stop for U6/U7 buildings, Università Bicocca-Scienza stop for buildings near Piazza della Scienza. At the Stazione Greco FFSS stop you can take the Eco-Bus Bicocca shuttle.

By Train
Take the train from the railway station of Lambrate or Garibaldi and stop at the GRECO-PIRELLI station (about 10-15 min).
Name Badges

Upon registration you will receive a name badge which should be worn at all conference sessions including social events.

Lunch, Coffee, Tea and Snacks

Coffee breaks will be served in the foyer of conference rooms (incl. in the registration fee).

Lunches: Monday (September 7th), Tuesday (September 8th), Thursday (September 10th) meals will be served in the foyer of conference rooms (incl. in the registration fee).

Internet

A Wi-Fi internet connection is available at the conference location.

Currency

The official currency of the Italy is the Euro.

Exchange of foreign currency is available at Milan international Airport and at most hotels, banks and exchange offices throughout the city. International credit cards are accepted for payments in hotels, restaurants and shops.

Drinking Water

Tap water is of good quality and can be consumed safely throughout the city. Bottled mineral and spring water is available in shops and restaurants.
Conference Information

Registration desk
Registration and information desk will be open as follows:

- Monday (September 7th) 08:00-18:00
- Tuesday (September 8th) 08:30-18:00
- Wednesday (September 9th) 08:30-13:30
- Thursday (September 10th) 08:30-17:00
- Friday (September 11th) 08:30-13:00

Contact details

Emergency number (EAC2015 secretariat): +39 3482259294
Email (EAC2015 secretariat): c.lecerf@isac.cnr.it

Exhibition
The exhibition is situated close to all meeting activities such as scientific sessions, poster exhibition, registration and coffee breaks and will be open to all participants throughout the duration of the conference.
Social Programme

Welcome Reception
Included in the registration fee.

Date: Sunday, September 6th
Venue: Villa Necchi-Campiglio
Address: Via Mozart, 14 – Milan City Centre
Time: 18:30 – 22:00

Conference Dinner

Date: Thursday, September 10th
Venue: MUSEO NAZIONALE DELLA SCIENZA E DELLA TECNOLOGIA
        LEONARDO DA VINCI
Address: Via Olona 6 bis - via San Vittore 21
Time: 19:30 - 23:00
Price: € 70 per person (tickets available at the registration desk)

Catering provided by IL CASTELLO
www.ilcastelloricevimenti.it

Other social events

Other social activities are planned during EAC2015. Please refer to the EAC2015 website (www.eac2015.it) for updated information.
Meetings

Monday, September 7th

12:50 - 14:00  GAeF Board Meeting (Aula U6-18)
12:50 - 14:00  HAAR Meeting (Aula U6-17)
18:00 - 19.30 GAeF General Assembly (Aula Magna)
18:00 - 19.30 AAQR Board Meeting (Aula U6-17)
18:00 - 19.30 JAS Board Meeting for JAS Board Members only (Aula U6-18)

Tuesday, September 8th

12:50-14:00  IARA Board Meeting (Aula U6-17)
18:00-19.00  EAA Working Group Meetings (rooms on the next page)

Wednesday, September 9th

12:50 - 14:00  EAA Board Meeting (meeting point at the Reception desk)
14:15 - 15:30  IAS General Assembly (Aula Magna)
14:00 - 16:00  AIRMODUS Meeting (Aula U6-12)
14:00 - 19:00  ECOTECH Nephelometer User Meeting (Aula U6-17)
14:00 - 19:00  ACSM Subgroup Meeting (Actris Project) (Aula U6-01A)

Thursday, September 10th

12:50-14:00  EAA Working Group Chairs Meeting (Aula U6-01B)

Friday, September 11th

14:00-19:00  AERODYNE RESEARCH Annual Meeting (Aula U6-07)
EAA Working Group Meetings

The purpose of these meetings is to discuss general matters within the various topic areas to help plan future events, particularly the next EAC. All delegates are welcome.

On Tuesday, September 8th at 18.00, Working Group meetings will be as follows:

- Atmospheric Aerosol (AAP & AAS) (Aula Magna)
- PMx (PMx) (Aula U6-06)
- Aerosol Chemistry (ACH) (Aula U6-07)
- Aerosol Modelling (AMO) (Aula U6-08)
- Instrumentation (INS) (Aula U6-09)
- Indoor and Working Place Aerosols (IND) (Aula U6-01 A)
- Inhalation, Exposure and Health (IEH) (Aula U6-01 F)
- Fundamentals (FUN) (Aula U6-12)
- Electrical Effects (ELE) (Aula U6-17)
- Combustion Aerosols (COA) (Aula U6-18)
- Aerosol-based Nanotechnology (ANT) (Aula U6-01 B)

Assemblies

- GAeF General Assembly: Monday, September 7th, 18:00, Aula Magna
- IAS General Assembly: Wednesday, September 9th, 14:15, Aula Magna
Presentation Information

Abstracts
All abstracts will be published in electronic form and distributed to participants on USB memory key.

Instructions for Oral Presentations
The presentation time is 20 minutes in total, i.e. 15 minutes for the talk and 5 minutes for discussion. In view of 7 sessions running in parallel and the audience possibly moving from one session to another, the 20 minutes schedule will be observed very precisely.

How to upload your oral presentation
For oral presentation participants are kindly asked to hand over their presentation file to the staff possibly the day before the scheduled time for the talk. For those who have their talk on Monday morning it would be highly preferable to send their presentation to the organizing committee in advance or uploading it during the Welcome party (Villa Necchi) on September 6th from 18:30 to 20:00.

During the conference a qualified technician will help you in uploading your presentation to our system. Please use the USB key for transferring your file. PDF and PowerPoint files are accepted.

All presentations should be brought to the Speaker’s Preview Room (Aula U6-10) during the opening hours and at the least 2 hours before the session starts (or the day before when your session is scheduled in the morning).

Speaker's Preview Room (Aula 06-10) opening schedule:
Monday, September 7th 10:00-11:00 and 16:00-18:00
Tuesday, September 8th 10:00-11:00 and 16:00-18:00
Wednesday, September 9th 10:00-11:00
Thursday, September 10th 10:00-11:00 and 16:00-18:00
Friday, September 11th 09:00-10:00

Instructions for oral reserve presentations
Oral reserve presentations are poster presentations that will also be offered a slot for oral presentation should a vacancy become available. Presenters should check with chairs at the start of the relevant oral session.
Poster Sessions Schedule

Posters will be located on the same floor of the conference rooms. Participants are kindly asked to display and also take down their poster according to this poster session schedule. For those who will not take down their poster on time please come to Aula U6-10 room where they will be kept for you during the conference. Presenting authors are kindly asked to be available to present their posters during the poster session's time schedule. Please note that every poster has its own EAC-ID (as reported in the abstract acceptance notification sent to the authors) and has to be displayed on the proper poster panel.

Poster Session 1:

Days: Monday, September 7th
Time to display: Monday, morning
Time to uncover: Monday, evening
Presentation time: Monday, 16:00-18:00

Poster Session 2:

Days: Tuesday, September 8th
Time to display: Tuesday, morning
Time to uncover: Tuesday, evening
Presentation time: Tuesday, 16:00-18:00

Poster Session 3:

Days: Thursday, September 10th
Time to display: Thursday, morning
Time to uncover: Thursday, evening
Presentation time: Thursday, 16:00-18:00

Late Posters and Last Minute Posters

Late Posters have to be displayed on the proper poster panel (marked by EAC-ID number which was reported in the abstract acceptance notification) during regular poster sessions.
Programme Overview

Sunday, September 6th    18:30 - 22:00 Welcome and registration (Villa Necchi-Campiglio)

Monday, September 7th

08:00 - 18:00 Registration
08:30 - 09:00 Opening Ceremony (Aula Magna)
09:00 - 10:00 Plenary Lecture: Caroline Leck - Possible links between marine microorganisms, cloud-albedo and sea ice-melt in the Arctic? Chairs: Astrid Kiendler-Scharr and Urs Baltensperger
10:00 - 10:30 Coffee break

10:30 - 12:50

Atmospheric Aerosol - Aerosol Processes and Properties
Atmospheric Aerosol - Specific Aerosol Types
PMx Aerosol Chemistry Indoor and Working Place Aerosol Inhalation, Exposures and Health Special Session: Polar Aerosol

Chairs: A. Calvo and H. Horvath
Chairs: J. Schneider and R. Alfarra
Chairs: J. Schwarz and P. Panteliadis
Chairs: J. Dommen and C. Marcolli
Chairs: C. He and S. Grinshpun
Chairs: J. Buters and O. Hänninen
Chairs: A. Virkkula and L. Ferrero

12:50 - 14:00 Lunch

14:00 - 16:00

Atmospheric Aerosol - Aerosol Processes and Properties
Fundamentals Combustion Aerosol Aerosol Chemistry Aerosol Modelling Inhalation, Exposures and Health Special Session: PEEX

session # 08 session # 09 session # 10 session # 11 session # 12 session # 13 session # 14


Chairs: M.R. Perrone and A. Smirnov
Chairs: S.E. Chatoutsidou and M. Shapiro
Chairs: J. Jokiniemi and N. Ivleva
Chairs: Y. Iinuma and A. Vogel
Chairs: M. Crippa and S. Wurzler
Chairs: O. Hänninen and C. Isaxon
Chairs: O. Hänninen and C. Isaxon
Chairs: K. Eleftheriadis and H. Lappalainen

16:00 - 16:30 Coffee break

16:00 - 18:00 Poster session 1 - authors' presentations
Programme Overview

Sunday, September 6th  18:30 - 22:00 Welcome and registration (Villa Necchi-Campiglio)

Monday, September 7th

08:00 - 18:00  Registration
08:30 - 09:00  Opening Ceremony (Aula Magna)

09:00 - 10:00  Plenary Lecture: Caroline Leck - Possible links between marine microorganisms, cloud-albedo and sea ice-melt in the Arctic?
Chairs: Astrid Kiendler-Scharr and Urs Baltensperger

10:00 - 10:30  Coffee break

10:30 - 12:50  Atmosphere Aerosol - Aerosol Processes and Properties
Aula Magna
_session # 01
_Aula U6-06
_Aula U6-07
_Aula U6-08
_Aula U6-09
_Aula U6-01A
_Aula U6-01F

Atmosphere Aerosol - Specific Aerosol Types
session # 02

PMx
Aerosol Chemistry
Indoor and Working Place Aerosol
Inhalation, Exposures and Health
Special Session: Polar Aerosol

Physicochemical Analysis and Data Interpretation
session # 03

Secondary Organic Aerosol 1
Indoor Environment
Aerosol Exposures and Health
Aerosol Physical and Chemical Properties - 1

Chairs: A. Calvo and H. Horvath
Chairs: J. Schneider and R. Alfarra
Chairs: J. Schwarz and P. Panteliadis
Chairs: J. Dommen and C. Marcolli
Chairs: C. He and S. Grinshpun
Chairs: J. Buters and O. Hänninen
Chairs: A. Virkkula and L. Ferrero

12:50 - 14:00  Lunch

14:00 - 16:00  Atmosphere Aerosol - Aerosol Processes and Properties
Aula Magna
_Session # 08
_Aula U6-06
_Aula U6-07
_Aula U6-08
_Aula U6-09
_Aula U6-01A
_Aula U6-01F

Fundamentals
Combustion Aerosol
Aerosol Chemistry
Aerosol Modelling
Inhalation, Exposures and Health
Special Session: PEEX

Measurement and Analysis Methods of Combustion Aerosols
session # 09

Secondary Organic Aerosol 2
Emission Inventories and Industrial Applications
Respiratory Tract Uptake of Particles
The Pan Eurasian Experiment research project, PEEX

Remote Sensing/Optical properties
_session # 10

Aerosol Dynamics
Measurement and Analysis Methods of Combustion Aerosols
Secondary Organic Aerosol 2
Emission Inventories and Industrial Applications
Respiratory Tract Uptake of Particles
The Pan Eurasian Experiment research project, PEEX

Chairs: M.R. Perrone and A. Smirnov
Chairs: S.E. Chatoutsidou and M. Shapiro
Chairs: J. Jokiniemi and N. Iivleva
Chairs: Y. Inumaa and A. Vogel
Chairs: M. Crippa and S. Wurzler
Chairs: O. Hänninen and C. Isaxon
Chairs: K. Eleftheriadis and H. Lappalainen

16:00 - 16:30  Coffee break

16:00 - 18:00  Poster session 1 - authors' presentations
Tuesday, September 8th

08:30 - 18:00  Registration

08:45 - 09:45  Plenary Lecture: Günter Oberdörster - Toxicology and risk assessment of airborne nano-sized particles  
Chairs: Denis Boulaud and Ian Colbeck

09:45 - 10:00  EAC2016 launch

10:00 - 10:30  Coffee break

10:30 - 12:50  Atmospheric Aerosol - Aerosol Processes and Properties  
Atmospheric Aerosol - Specific Aerosol Types  
PMx  
Aerosol Chemistry  
Indoor and Working Place Aerosol  
Electrical Effects

session # 15  
session # 16  
session # 17  
session # 18  
session # 19  
session # 20

Field Measurements and Long-Term Observations  
Specific Aerosol Types  
Source Apportionment  
Anthropogenic Organic Aerosol  
Workplace Exposure  
From Theory to Application

Chairs: L. Mazzoleni and F. Ditas  
Chairs: C. Perrino and X. Yu  
Chairs: K. Eleftheriadis and M.C. Minguillón  
Chairs: S. Decesari and J. Schneider  
Chairs: K. Hämeri and T. Salthammer  
Chairs: C. Yurteri and A. Bologa

12:50 - 14:00  Lunch & IARA Board meeting (Aula U6-17)

14:00 - 16:00  Atmospheric Aerosol - Aerosol Processes and Properties  
Atmospheric Aerosol - Specific Aerosol Types  
PMx  
Instrumentation  
Aerosol Modelling  
Special Session: Polar Aerosol  
Combustion Aerosol

session # 21  
session # 22  
session # 23  
session # 24  
session # 25  
session # 26  
session # 27

Emission, Deposition, Turbulent Transport  
Mineral Dust  
Legislation and Policy and Other Topics  
Measurement Methods I  
New Particle Formation and Growth  
Aerosol Physical and Chemical Properties - 2  
Biomass and Industrial Combustion Aerosols

Chairs: A. Held and D. Contini  
Chairs: S. Basart and B. Sierau  
Chairs: T. Moreno and S. Nava  
Chairs: I. Agranovski and A. Edfelder  
Chairs: P. Roldin and M. Boy  
Chairs: C. Ritter and S. Fuzzi  
Chairs: O. Sippula and S. Ozgen

16:00 - 16:30  Coffee break

16:00 - 18:00  Poster session 2 - authors’ presentations

18:00 - 19:00  Working Group Meetings

Atmospheric Aerosol - PMx  
Aerosol Chemistry  
Aerosol Modelling  
Instrumentation  
Indoor and Working Place Aerosol  
Inhalation, Exposures and Health  
Fundamentals  
Electrical Effects  
Combustion Aerosol  
Aerosol-based Nanotechnology

Chairs: A. Held and D. Contini  
Chairs: S. Basart and B. Sierau  
Chairs: T. Moreno and S. Nava  
Chairs: I. Agranovski and A. Edfelder  
Chairs: P. Roldin and M. Boy  
Chairs: C. Ritter and S. Fuzzi  
Chairs: O. Sippula and S. Ozgen
Wednesday, September 9th

08:30 - 18:00  Registration

08:45 - 09:45  Plenary Lecture: Laurence Rouil - Particulate air pollution in Europe: Main drivers and control strategies
Chairs: Sabine Wurzler and Xavier Querol

09:45 - 10:00  Smoluchowski Award
10:00 - 10:10  Communication by Claudia Sorlini, President of the EXPO Scientific Committee

10:10 - 10:30  Coffee break

10:30 - 12:50  Atmospheric Aerosol - Aerosol Processes and Properties
Atmospheric Aerosol - Specific Aerosol Types
Inhalation, exposures and health
Aerosol Chemistry
Aerosol Modelling
Fundamentals
Indoor and Working Place Aerosol

session # 28  session # 29  session # 30  session # 31  session # 32  session # 33  session # 34

Chairs: B. Wehner and M. Boy
Chairs: G. Fuller and J. Wenger
Chairs: R. Zimmermann and J. Buters
Chairs: S. Gilardoni and A. Held
Chairs: O. Pakarinen and G. Curci
Chairs: A. Shchekin and A. Laaksonen
Chairs: I. Colbeck and G. De Gennaro

12:50 - 14:00  Lunch & EAA Board meeting

Free Afternoon
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:30 - 18:00</td>
<td>Registration</td>
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</table>
| 09:00-10:00   | Plenary Lecture: Gerhard Kasper - The potential of aerosol technology for structuring and characterizing multi-scale functional material  
                 Chairs: José Castillo and Mansoo Choi                                                   |
| 10:00 - 10:30 | Coffee break                                                                              |
| 10:30 - 12:50 | Atmospheric Aerosol - Aerosol Processes and Properties  
                 Atmospheric Aerosol - Specific Aerosol Types  
                 Combustion Aerosol  
                 Special Session: Source Apportionment  
                 Aerosol-based Nanotechnology  
                 Instrumentation  
                 session # 35  
                 session # 36  
                 session # 37  
                 session # 38  
                 session # 39  
                 session # 40  
                 Aerosol-Cloud Interactions and Climate Effects of Aerosols  
                 Urban aerosol: Properties, Evolution and Applications  
                 Automotive Engine Emissions  
                 Source Apportionment Advanced Studies and Comparison of Models  
                 Aerosol-based Nanotechnology 1  
                 Miniaturized Equipment  
                 session #35  
                 session #36  
                 session #37  
                 session #38  
                 session #39  
                 session #40  
                 Chairs: C. Mohr and D. Baumgardner  
                 Chairs: I. Salma and M. Dall’Osto  
                 Chairs: J. Whitehead and S. Stevanovic  
                 Chairs: C. Belis and F. Lucarelli  
                 Chairs: J. Ofner and G. Biskos  
                 Chairs: W. Szimansky and O. Bischof                                                   |
| 12:50 - 14:00 | Lunch & EAA WG-chairs meeting (Aula U6-01B)                                               |
| 14:00 - 16:00 | Atmospheric Aerosol - Aerosol Processes and Properties  
                 Atmospheric Aerosol - Specific Aerosol Types  
                 Combustion Aerosol  
                 Aerosol Chemistry  
                 Aerosol Modelling  
                 Instrumentation  
                 PMx  
                 session # 41  
                 session #42  
                 session #43  
                 session #44  
                 session #45  
                 session #46  
                 session #47  
                 Transport and Transformation, Processes  
                 Marine/Urban Aerosol  
                 Ship, Aircraft and Automotive Engine Emissions  
                 Heterogeneous and Multiphase Chemistry of Aerosols  
                 Global and Large Scale Modelling  
                 New Instrumentation  
                 PMx: AIRUSE LIFE+ and Source Apportionment  
                 Chairs: A. Virtanen and P. Zieger  
                 Chairs: S. Becagli and C. Mazzoleni  
                 Chairs: I. Ortega and P. Lobo  
                 Chairs: M. Shiraiwa and A. Tilgner  
                 Chairs: A. Tsimplidi and E. Vignati  
                 Chairs: M. Stettler and T. Ajtai  
                 Chairs: J. Wenger and R. Harrison                                                     |
| 16:00 - 16:30 | Coffee break                                                                              |
| 16:00 - 18:00 | Poster session 3 - authors’ presentations                                                 |
| 19:30         | Conference Dinner (Museo della Scienza e della Tecnica)                                 |

**Thursday, September 10th**
Friday, September 11th

08:30 - 13:00  Registration

08:45 - 09:45  Plenary Lecture: Tunga Salthammer - Characterization of residential indoor aerosols and their sources
Chairs: Joakim Pagels and Vladimír Ždimal

09:45 - 10:00  Best Poster Awards

10:00 - 10:30  Coffee break

10:30 - 12:50  Atmospheric Aerosol - Aerosol Processes and Properties
Atmospheric Aerosol - Specific Aerosol Types
Aerosol-based Nanotechnology
Aerosol Chemistry
Instrumentation
Special Session: Polar Aerosol

Laboratory and Basic Properties
Urban Aerosol: Sources and Impact on the Air Pollution
Aerosol-based Nanotechnology 2
Elucidation of Chemical Mechanisms and Transformation Processes in Aerosol
Measurement Methods II
Aerosol Studies from Flying and Naval Platform

Chairs: M. Gysel and P. Zieger
Chairs: X. Querol and I. El Haddad
Chairs: S.E. Pratsinis and J. Castillo
Chairs: H. Saathoff and M. Shiraiwa
Chairs: C. Asbach and M. Fierz
Chairs: M. Willis and E. Bolzacchini

12:50 - 13:20  Closing Ceremony
New and Exciting updates and features taking place with the Ambient Ion Monitor!
- Unique Parallel Plate Deruder
- Ceramic Coated Super Saturation Chamber
- New AIM Driver for Chromeleon 7.2

Visit Booth #17 for demonstrations on the AIM as well as other URG products!

Ambient Ion Monitor (AIM)

Designed for Time Resolved Direct Measurements of Nitrate, Sulfate, Ammonium, SO$_2^-$, and HNO$_3$

Inorganic & Organic Collection | Diesel Emissions
Atmospheric Gas & Particle Speciation | Outdoor & Indoor Air Sampling
PM-1 | PM-2.5 | PM-10

URGcorp.com Chapel Hill, NC USA
Programme
Sunday, September 6th
18:30 – 22:00
Welcome Reception and Registration
Included in the registration fee.
Villa Necchi-Campiglio
Via Mozart, 14 – Milan City Centre
Programme

Sunday, September 6th

18:30 – 22:00
Welcome Reception and Registration
Included in the registration fee.

VENUE: VILLA NECCHI-CAMPIGLIO
Via Mozart, 14 – Milan City Centre
Monday, September 7th
Monday, September 7th

08:30-9:00
Opening Ceremony
Room: Aula Magna

09:00-10:00
Plenary lecture: Possible links between marine microorganisms, cloud-albedo and sea ice-melt in the Arctic?
Plenary speaker: Caroline Leck
Chairs: Astrid Kiendler-Scharr and Urs Baltensperger
Room: Aula Magna

10:00-10:30
Coffee break
Room: Conference foyer
Monday, September 07, 2015 10:30 - 12:50
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 1: Optical Properties
Chairs: Ana Calvo and Helmut Horvath
Room: Aula Magna

10:30 - 10:50 01AAP_O001
A link between optical absorption wavelength dependence and morphology in black carbon particles from residential woodstove emissions

10:50 - 11:10 01AAP_O002
Estimation of scattering asymmetry by measurement of backscattering

11:10 - 11:30 01AAP_O003
Influence of coating on optical properties of carbonaceous aerosols

11:30 - 11:50 01AAP_O004
Aerosol optical properties in the atmospheric surface layer over the Baltic Sea

11:50 - 12:10 01AAP_O005
Ultrafine and fine Black Carbon in Rome
F. Costabile, F. Angelini, F. Barnaba, L. Di Liberto, D. Dionisi, and G.P. Gobbi

12:10 - 12:30 01AAP_O006
Sensitivity of aerosol optical depth, single scattering albedo, and phase function calculations to assumptions on physical and chemical properties of aerosol
12:30 - 12:50  01AAP_O007
Black carbon as a strong light absorber in the Arctic during springtime

Reserve paper 2AAP_P052
Evaluation of the Cavity Attenuated Phase Shift Single Scattering Albedo Monitor CAPS PMssa
A. Petzold, U. Bundke, J. Perim de Faria, T. B. Onasch, P. Kebabian, and A. Freedman

NOTES
Monday, September 07, 2015 10:30 - 12:50
Session: Atmospheric Aerosol – Specific Aerosol Types
Sub-session 2: Biomass Burning Aerosol
Chairs: Johannes Schneider and Rami Alfarra
Room: Aula U6-06

10:30 - 10:50        02AAS_O001
Nighttime chemistry of biomass burning plumes

10:50 - 11:10        02AAS_O002
Determining the effect of temperature and relative humidity on primary and secondary residential wood combustion products

11:10 - 11:30        02AAS_O003
Emission dynamic from residential wood combustion: PM, BC, OM, VOCs and levoglucosan

11:30 - 11:50        02AAS_O004
Combining smoke chamber biomass burning measurements with Positive Matrix Factorization to improve identification of the sources of suspected and known ambient biomass burning plumes
E. Fortner, T. Onasch, M. Canagaratna, J. Shilling, M. Peckour, P. Massolli, L. Williams, J. Jayne, and D. Worsnop

11:50 - 12:10        02AAS_O005
Biomass burning aerosol from residential heating: emission characteristics and environmental impact
F. Freutel, F. Drewnick, and S. Borrmann

12:10 - 12:30        02AAS_O006
Savannah Early Dry Season Fire Experiment: Project overview
Vanderschoot, X. Wang, J. Ward, S. Werczynski, A. Williams, L. Williams, S. Wilson, and H. Winton

12:30 - 12:50        02AAS_O007
Black Carbon and aerosol absorption measurement results from global airborne campaigns
G. Močnik, L. Drinovec, P. Vidmar, and M. Lenarčič

Reserve paper 1AAS_P001
Chemical composition of wildland and agricultural biomass burning particles measured downwind during BBOP study
T.B. Onasch, J. Shilling, E. Fortner, M. Pekour, D. Chand, S. Collier, Q. Zhang, L. Kleinman, A. Sedlacek, A. Freedman, and D. Worsnop

NOTES
Monday, September 07, 2015 10:30 - 12:50
Session: PMx
Sub-session 3: Physicochemical Analysis and Data Interpretation
Chairs: Jaroslav Schwartz and Pavlos Panteliadis
Room: Aula U6-07

10:30 - 10:50        03PMX_O001
Soluble and insoluble carbon content in fog: a 16 year long study in the Po Valley (Italy)

10:50 - 11:10        03PMX_O002
PM10-induced ROS generation up- and downwind of a motorway in North Rhine Westphalia, Germany

11:10 - 11:30        03PMX_O003
Optical and chemical properties of PM10 and PM1 samples over south eastern Italy

11:30 - 11:50        03PMX_O004
The added value of UFP monitoring in urban environments: number concentration and size distribution assessments in Amsterdam (NL), Antwerp (BE), Leicester (UK) and London (UK)

11:50 - 12:10        03PMX_O005
Size-resolved aerosol composition at an urban and a rural site in the Po Valley in summertime: implications for secondary aerosol formation
S. Sandrini, S. Decesari, L. Giulianelli, D. van Pinxteren, H. Herrmann, L. Poulain, and M.C. Facchini

12:10 - 12:30        03PMX_O006
Refining the identification of potential source areas impacting the PM10 concentrations in northern France
V. Michoud, A. Pascaud, E. Perdrix, L. Y. Alleman, S. Sauvage, and T. Delaunay
12:30 - 12:50  03PMX_O007
Significance of scavenging processes for the removal of particulate matter from the atmosphere, a case study from Wroclaw (Lower Silesia, Poland)
A. Drzeniecka-Osiadacz and T. Sawiński

Reserve paper 1PMX_P018
Factors driving intra-day variation of submicron aerosols in Barcelona
M.C. Minguillón, A. Ripoll, C. Reche, X. Querol, and A. Alastuey

NOTES
Monday, September 07, 2015 10:30 - 12:50
Session: Aerosol Chemistry
Sub-session 4: Secondary Organic Aerosol 1
Chairs: Josef Dommen and Claudia Marcolli
Room: Aula U6-08

10:30 - 10:50  3ACH_P070
The effect of pellet boiler exhaust on secondary organic aerosol formation from alpha-pinene
E. Kari, L. Hao, P. Yli-Pirilä, M. Kortelainen, J. Grigonyte, A. Leskinen, O. Sippula, J. Jokiniemi,
C. Faiola, and A. Virtanen

10:50 - 11:10  04ACH_O002
Investigation of highly oxidized organic compounds from a-pinene ozonolysis with an Ion-
mobility Mass Spectrometer
Baltensperger and the CLOUD collaboration

11:10 - 11:30  04ACH_O003
Implication of highly oxidized organic compounds in atmospheric new particle formation
J. Elm, N. Myllys, and T Kurtén

11:30 - 11:50  04ACH_O004
Role of particle phase processes and condensation of LVOCs in the atmospheric nanoparticle
growth - a modelling study
T. Yli-Juuti, I. Riipinen, U. Pöschl, and M. Shiraiwa

11:50 - 12:10  04ACH_O005
Evidence for unrecognized anthropogenic sources of organosulfates and sulfonates: gas-phase
oxidation of anthropogenic precursors in the presence of sulfate aerosol
M. Riva, S. Tomaz, T. Cui, Y.-H. Lin, E. Perraudin, A. Gold, E.A. Stone, E. Villenave, and J.D.
Surratt
12:10 - 12:30 04ACH_O006
Experimental study of organosulfates formation at the gas-particle interface from oxidation products of alpha-pinene

12:30 - 12:50 04ACH_O007
SO2 addition to alkenes: a new formation mechanism of organosulfates in the atmosphere
M. Passananti, J. Shang, Y. Dupart, S. Perrier, and C. George

Cancelled 04ACH_O001
Measurements of oxidized organic compounds during SOAS 2013 using nitrate ion chemical ionization coupled with High Resolution Time-of-Flight Mass Spectrometry

NOTES
Monday, September 07, 2015 10:30 - 12:50
Session: Indoor and Working Place Aerosol

Sub-session 5: Indoor Environment
Chairs: Congrong He and Sergey Grinshpun
Room: Aula U6-09

10:30 - 10:50 05IND_O001
Limitations of modelling tools for calculating the gas-particle distribution of organic pollutants in the indoor environment
T. Salthammer and T. Schripp

10:50 - 11:10 05IND_O002
Characterization of gas and particle phase cooking emissions using advanced online and offline techniques

11:10 - 11:30 3IND_P038
Indoor and outdoor airborne pollutants levels on the street- and back-side of a building in a trafficked urban area
S. Rovelli, S. Zauli Sajani, A. Cattaneo, I. Ricciardelli, A. Trentini, D. Bacco, V. Poluzzi, P. Lauriola, and D.M. Cavallo

11:30 - 11:50 05IND_O004
Utilization of the standard testing protocol involving KCl aerosol for evaluating the efficiency of indoor air purifiers against diesel particles
S.A. Grinshpun, R. Peck, M. Yermakov, and T. Reponen

11:50 - 12:10 05IND_O005
Identification of bacteria, mold and pollen in indoor environments with the WIBS coupled with a database of laboratory generated bioaerosols
D. Baumgardner, M. Hernandez, A. Perring, and G. McMeeking

12:10 - 12:30 05IND_O006
Using a lab-made virtual impactor along with a SKC button aerosol sampler for classifying and sampling indoor bioaerosol
A.M. Nasrabadi, J.-W. Park, and J. Hwang
Indoor and outdoor pollution and human health in the Himalayas
A. Marinoni, A. Cogo, L. Pratali, G. Močnik, E. Vuillermoz, M. Busetto, P. Cristofanelli, P. Bonasoni, and S. Fuzzi

Reserve paper 3IND_P035
Particle size, mass and chemical transitions from an outdoor to indoor environment in Prague, Czech Republic with attention to nitrate

Cancelled 05IND_O003
Characterization of volatile organic compounds at homes in traffic-concentrated area

Cancelled 05IND_O007
Indoor particle resuspension
A.C.K. Lai

NOTES
Monday, September 07, 2015 10:30 - 12:50
Session: Inhalation, Exposures and Health
Sub-session 6: Aerosol Exposures and Health
Chairs: Jeroen Buters and Otto Hänninen
Room: Aula U6-01A

10:30 - 10:50 06IEH_O001
Metal composition of ambient PM2.5 influences the pulmonary function of school children: Case study of school children living in the nearby of an electric arc furnace factory in central Taiwan
L.-J. Huang, B.F. Huang, A.-L. Han, Y.-C. Chang, and H.-T. Hsu

10:50 - 11:10 06IEH_O002
Seasonal variation of population exposure to air pollution
S. Zauli Sajani, A. Trentini, C. Maccone, S. Rovelli, I. Ricciarelli, S. Marchesi, F. Scotto, S. Ferrari, A. Cattaneo, P. Lauriola, and V. Poluzzi

11:10 - 11:30 06IEH_O003
Health effects of simultaneous exposure to physical & chemical properties of airborne particles
M. Pirani, N. Best, M. Blangiardo, S Liverani, R.W. Atkinson, and G.W. Fuller

11:30 - 11:50 06IEH_O004
Adjusting epidemiological C-R relationships for particle size dependent processes: infiltration and uptake
O. Hänninen

11:50 - 12:10 06IEH_O005
Carcinogenic risk assessment from inhalation exposure in a heavily industrialized area in South Italy

12:10 - 12:30 06IEH_O006
Effects of Low Emission Zones (LEZ) on air quality in Germany
J. Cyrys, J. Gu, V. Deffner, H. Küchenhoff, J. Soentgen, and A. Peters
12:30 - 12:50  06IEH_O007
Vertical profile of air pollutant concentrations in proximity of a high rise building
S. Marchesi, S. Zauli Sajani, D. Bacco, S. Ferrari, C. Maccone, I. Ricciardelli, F. Scotto, S.
Rovelli, and G. De Gennaro

Reserve paper 31IEH_P031
Which grain dust composition in microorganisms impacts the respiratory health of grain
workers and farmers?
H. Niculita-Hirzel, P. Wild, D. Savova-Bianchi, G. Hantier, V. Dorrio, J. Pralong, B. Danuser,
and P. Krief

NOTES
Monday, September 07, 2015 10:30 - 12:50
SPECIAL SESSION: Polar Aerosol
Sub-session 7: Aerosol Physical and Chemical Properties - 1
Chairs: Aki Virkkula and Luca Ferrero
Room: Aula U6-01F

10:30 - 11:10 07SPA_O001 (Keynote speech)
Polar aerosol chemical characterization. A ten-year Italian experience.
R. Udisti

11:10 - 11:30 1SPA_P001
Water Soluble Organic Compounds in Antarctic aerosol
E. Barbaro, R. Zangrando, M. Vecchiato, T. Kirchgeorg, N.M. Kehrwald, C. Barbante, and A. Gambaro

11:30 - 11:50 07SPA_O003
Radiative forcing by elemental carbon and mineral dust on Central Asian Glaciers
J. Schmale, M. G. Flanner, S. Kang, M. Sprenger, Q. Zhang, Y. Li, and J. Guo

11:50 - 12:10 07SPA_O004
The Arctic Haze season of 2013 in Ny-Ålesund, Spitsbergen from remote sensing perspective
C. Ritter and M. Shiobara

12:10 - 12:30 07SPA_O005
A Finnish project on Antarctic atmospheric composition and processes in 2013 - 2016

12:30 - 12:50 07SPA_O006
Source assessment of atmospheric lead measured at Ny-Ålesund, Svalbard
A. Bazzano, F. Ardini, M. Grotti, S. Becagli, R. Traversi, R. Udisti, M. Malandrino, and D. Cappelletti
Reserve paper 1SPA_P008
Aerosol measurements at South Pole: Impact of local contamination events
P.J. Sheridan, L.N. Schmeisser, and J.A. Ogren

Cancelled 07SPA_O002
Simultaneous observations of precursor vapours, clusters and new particle formation in Antarctica

12:50-14:00
Lunch break
Room: Conference foyer
Monday, September 07, 2015 14:00 - 16:00
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 8: Remote Sensing/Optical Properties
Chairs: Maria Rita Perrone and Alexander Smirnov
Room: Aula Magna

14:00 - 14:20 08AAP_O008
Closure study between airborne and remote sensing measurements of vertical aerosol layering during the PEGASOS campaign in the Po Valley
M. Gysel, B. Rosati, E. Herrmann, S. Bucci, F. Fierli, F. Cairo, R. Tillmann, J. Größ, G.P. Gobbi, L. Di Liberto, G. Di Donfrancesco, E. Weingartner, T.F. Mentel, and U. Baltensperger

14:20 - 14:40 08AAP_O009
Aerosol optical properties and prevailing aerosol type over the Mediterranean
A.A. Floutsi, M.B. Korras Carraca, C. Matsoukas, and G. Biskos

14:40 - 15:00 08AAP_O010
Maritime Aerosol Network (MAN) as a component of Aerosol Robotic Network (AERONET) – recent developments and achievements

15:00 - 15:20 08AAP_O011
An integrated view of Saharan Dust advections: The DIAPASON (LIFE+) experience

15:20 - 15:40 08AAP_O012
EARLINET: 12-years of aerosol optical properties profiles over Europe
Ceilometer for aerosol profiling: comparison with the multi-wavelength in the frame of INTERACT (INTERcomparison of Aerosol and Cloud Tracking)
F. Madonna, J. Vande Hey, F. Amato, M. Rosoldi, and G. Pappalardo

Reserve paper 2AAP_P080
Vertical profiles of aerosol properties from 3-wavelength elastic lidar signals and collocated sun/sky photometer measurements
M.R. Perrone and P. Burlizzi

**NOTES**
Monday, September 07, 2015 14:00 - 16:00
Session: Fundamentals
Sub-session 9: Aerosol Dynamics
Chairs: Sofia Eirini Chatoutsidou and Michael Shapiro
Room: Aula U6-06

14:00 - 14:20 09FUN_O001
Micrometer aerosols removal by periodic shock waves
L. Moldavsky, M. Fichman, and M. Shapiro

14:20 - 14:40 09FUN_O002
A new experimental device for the thermophoretic velocity measurements of nanoparticle soot aggregates
L. Ait Ali Yahia, E. Gehin, and B. Sagot

14:40 - 15:00 09FUN_O003
Po-210 charger ions – mobility and mass investigations and their influence on resulting bipolar charge distributions
A. Maisser, J. Thomas, C. Larriba, S. He, and C. Hogan

15:00 - 15:20 09FUN_O004
Pressure drop model for nanostructured deposit
F.-X. Ouf, D. Thomas, F. Gensdarmes, S. Bourrous, and L. Bouilloux

15:20 - 15:40 09FUN_O005
Continuum models for nanoparticle-wall collisions
A.P. Weber, C. Schöner, M. Gensch, A. Werner, and T. Pöschel

15:40 - 16:00 09FUN_O006
Multilayer resuspension rate of deposits in turbulent flows
S.E. Chatoutsidou, Y. Drossinos, and M. Lazaridis

Reserve paper 3FUN_P033
Radial diffusion and penetration of gas molecules and aerosol particles through laminar flow reactors, denuders and sampling tubes
D.A. Knopf, U. Pöschl, and M. Shiraiwa
Monday, September 07, 2015 14:00 - 16:00
Session: Combustion Aerosol
Sub-session 10: Measurement and Analysis Methods of Combustion Aerosols
Chairs: Jorma Jokiniemi and Natalia Ivleva
Room: Aula U6-07

14:00 - 14:20  10COA_O001
Phase selective laser-induced breakdown spectroscopy (PS-LIBS) diagnostics on the doping mechanism of mixed metal oxide nanoparticles in flame synthesis
Y. Ren, C. Liu, Q. Liu, and S. Li

14:20 - 14:40  10COA_O002
The effect of sampler design on nanoparticle sizing at high temperatures
E. Goudeli, A.J. Gröhn, and S.E. Pratsinis

14:40 - 15:00  10COA_O003
In situ Raman microspectroscopic analysis of soot samples with different OC content: Structural changes during oxidation
N.P. Ivleva, E.D. Kireeva, F.-X. Ouf, and R. Niessner

15:00 - 15:20  10COA_O004
Using soft ionisation GC×GC-ToF-MS to characterise SVOC from nanoparticles in diesel exhaust emissions

15:20 - 15:40  10COA_O005
In-situ characterisation of the composition and surface functionalities of Black Carbon containing particles
A.C. Eriksson, V.B. Malmborg, J. Werner, N.L. Prisle, C. Boman, E. Swietlicki, O. Björneholm, and J.H. Pagels

15:40 - 16:00  10COA_O006
An experimental study of interactive forces and Hamaker constant of flame-formed carbon aerosols from AFM
G. De Falco, M. Commodo, P. Minutolo, and A. D'Anna
Reserve paper 2COA_P028
OC/EC analysis and Raman spectroscopy of flame-generated carbonaceous nanoparticles
L.A. Sgro, M. Commodo, M. Chiari, A. D’Anna, and P. Minutolo
Monday, September 07, 2015 14:00 - 16:00
Session: Aerosol Chemistry
Sub-session 11: Secondary Organic Aerosol 2
Chairs: Yoshi Iinuma and Alex Vogel
Room: Aula U6-08

14:00 - 14:20 11ACH_O008
SOA derived from isoprene epoxydiols: Insights into formation, aging and distribution over the continental US from the DC3 and SEAC4RS campaigns

14:20 - 14:40 11ACH_O009
Modeling SOA formation of α- and β-pinene in smog chambers
K. Gatzsche, Y. Iinuma, A. Mutzel, and R. Wolke

14:40 - 15:00 11ACH_O010
α-pinene secondary organic aerosol yields increase under higher relative humidity and low NOx conditions

15:00 - 15:20 11ACH_O011
Comprehensive chemical characterisation of biogenic volatile organic compounds and secondary organic aerosols at the research station Melpitz
Y. Iinuma, L. Poulain, G. Spindler, and H. Herrmann

15:20 - 15:40 11ACH_O012
Chemical composition of newly formed and growing particles in the atmosphere
A.L. Vogel, J. Schneider, C. Müller-Tautges, J. Nowak, D.R. Worsnop, J. Kirkby, T. Hoffmann, and the CLOUD collaboration

15:40 - 16:00 11ACH_O013
Chemical evolution (aging) of toluene and benzene SOA
E. Kostenidou, E. Louvaris, C. Kaltsounidis, and S.N. Pandis
Reserve paper 3ACH_P064
New particle formation and aerosol chemistry in a hypersaline environment
A. Held, K.A. Kamili, J. Ofner, and P. Schmitt-Kopplin

NOTES
Monday, September 07, 2015 14:00 - 16:00
Session: Aerosol Modelling
Sub-session 12: Emission Inventories and Industrial Applications
Chairs: Monica Crippa and Sabine Wurzler
Room: Aula U6-09

14:00 - 14:20        12AMO_O001
Cancelled

14:20 - 14:40        12AMO_O002
Impact of EURO norms for particulate matter vehicle emissions on global air quality
M. Crippa, G. Janssens-Maenhout, D. Guizzardi, and S. Galmarini

14:40 - 15:00        12AMO_O003
Contribution of traffic to aerosolized black carbon: comparison of an emission/ dispersion model and Aethalometer measurements

15:00 - 15:20        12AMO_O004
Residential heating in Greece and the Greater Athens Area (GAA): changes in the aerosols emissions profiles due to the economical crisis
K.M. Fameli and V.D. Assimakopoulos

15:20 - 15:40        12AMO_O005
Use of airborne measurements to derive emission rate estimates for black carbon from large scale surface mining facilities in the Alberta Oil Sands Region, Canada

15:40 - 16:00        12AMO_O006
Comparing three sea salt emission parameterizations in the North-Western European domain
D. Neumann, J. Bieser, A. Aulinger, A. Backes, V. Matthias, and M. Quante
Monday, September 07, 2015 14:00 - 16:00
Session: Aerosol Modelling
Sub-session 12: Emission Inventories and Industrial Applications
Chairs: Monica Crippa and Sabine Wurzler
Room: Aula U6-09

14:00 - 14:20 12AMO_O001
Representation of the air quality of a medium-sized town with high zonal concentrations of benzene
E. Scagliotti, C. Otta, and M.C. Cirio

14:20 - 14:40 12AMO_O002
Impact of EURO norms for particulate matter vehicle emissions on global air quality
M. Crippa, G. Janssens-Maenhout, D. Guizzardi, and S. Galmarini

14:40 - 15:00 12AMO_O003
Contribution of traffic to aerosolized black carbon: comparison of an emission/dispersion model and Aethalometer measurements

15:00 - 15:20 12AMO_O004
Residential heating in Greece and the Greater Athens Area (GAA): changes in the aerosols emissions profiles due to the economical crisis
K.M. Fameli and V.D. Assimakopoulos

15:20 - 15:40 12AMO_O005
Use of airborne measurements to derive emission rate estimates for black carbon from large scale surface mining facilities in the Alberta Oil Sands Region, Canada

15:40 - 16:00 12AMO_O006
Comparing three sea salt emission parameterizations in the North -Western European domain
D. Neumann, J. Bieser, A. Aulinger, A. Backes, V. Matthias, and M. Quante

NOTES
Monday, September 07, 2015 14:00 - 16:00

Session: Inhalation, Exposures and Health

Sub-session 13: Respiratory Tract Uptake of Particles

Chairs: Otto Hänninen and Christina Isaxon

Room: Aula U6-01A

14:00 - 14:20  2IEH_P023
Deposition of urban ultrafine aerosol particles in the human respiratory system
I. Salma, P. Füri, Z. Németh, I. Balásházy, W. Hofmann, and Á. Farkas

14:20 - 14:40  13IEH_O009
A microfluidic model of the pulmonary acinus for studying particle dynamics and deposition
R. Fishler, Y. Dubowski, and J. Sznitman

14:40 - 15:00  13IEH_O010
Lung deposition of nanoparticles: Normalization of data to improve comparison between subjects
J. Jakobsson, L. Aaltonen, H. Nicklason, P. Wollmer, and J. Löndahl

15:00 - 15:20  13IEH_O011
Kinetic multi-layer model of surface and bulk chemistry in the lung lining fluid (KM-SUB-LLF): An investigation into reactions occurring within the respiratory tract
P. Lakey, U. Pöschl, and M. Shiraiwa

15:20 - 15:40  13IEH_O012
Lobar pulmonary aerosol doses - electronic vs conventional cigarette smokers
M. Manigrasso, G. Buonanno, L. Stabile, P. Avino, and L. Morawska

15:40 - 16:00  13IEH_O013
Experimental determination of deposition of airborne particles in the human respiratory tract depending on particle size
H. Nicklasson, J. Löndahl, A. Gudmundsson, P. Wollmer, E. Swietlicki, and J. Rissler

Cancelled  13IEH_O008
Comparison of particle deposition patterns in mouse and human lungs
W. Hofmann and R. Winkler-Heil
Monday, September 07, 2015 14:00 - 16:00
SPECIAL SESSION: Atmospheric Aerosol Characterization, Sources, Sinks and Climate Interactions at the Subarctic and Boreal Eurasian Region.

Sub-session 14: The Pan Eurasian EXperiment research project, PEEX
Chairs: Konstantinos Eleftheriadis and Hanna Lappalainen
Room: Aula U6-01F

14:00 - 14:20 14SPX_O001
Pan-Eurasian Experiment (PEEX) focused on holistic understanding of feedback loops in the climate and Earth system and their impacts on the development of the Arctic-boreal regions

14:20 - 14:40 14SPX_O002
20 months of particle size distribution measurements at Mt. Tai, central eastern China
X.J. Shen, J.Y. Sun, X.Y. Zhang, and N. Kivekäs

14:40 - 15:00 14SPX_O003
Aerosol in Russian Arctic: BB/FF sources and transport impacts

15:00 - 15:20 14SPX_O004
Connecting in-situ aerosol formation to the properties of clouds

15:20 - 15:40 14SPX_O005
Application of statistical methodology for air quality data evaluation, characterized by a strong seasonal variability series
S. Buratto, C. Otta, and E. Scaglioni
15:40 - 16:00 14SPX_O006
Detection of culturable microorganisms in high-altitude atmospheric aerosol samples in the presence of a point forest fire in the sampling area
V.A. Vechkanov, I.S. Andreeva, A.S. Safatov, G.A. Buryak, N.A. Solovyanova, and M.A. Selivanova

Reserve paper 1SPX_P002
Nocturnal ion events: 11 years of night-time ion activity in Hyytiälä, Finland
S. Buenrostro Mazon, H.E. Manninen, J. Kontkanen, T. Nieminen, V.-M. Kerminen, and M. Kulmala

16:00-16:30
Coffee break
Room: Conference foyer

16:00 - 18:00
Poster Session 1
Room: Poster Hall
Focus on your research, not your equipment.

MSP’s new Flow-Focusing Monodisperse Aerosol Generator™ (FMAG) doesn’t need your attention. Its non-clogging design reliably generates monodisperse aerosol particles, 0.7 micron to 15 micron.

To see it visit the Copley Scientific booth 5.
Tuesday, September 8th
08:45-09:45  Plenary lecture: Toxicology and risk assessment of airborne nano-sized particles
           Plenary speaker: Günter Oberdörster  
           Chairs: Denis Boulaud and Ian Colbeck  
           Room: Aula Magna

09:45-10:00  EAC2016 launch
           Room: Aula Magna

10:00-10:30  Coffee break
           Room: Conference foyer
Tuesday, September 8th

08:45-09:45
Plenary lecture: Toxicology and risk assessment of airborne nanosized particles
Plenary speaker: Günter Oberdörster
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Room: Aula Magna

09:45-10:00
EAC2016 launch
Room: Aula Magna

10:00-10:30
Coffee break
Room: Conference foyer
Tuesday, September 08, 2015 10:30 - 12:50
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 15: Field Measurements and Long-Term Observations
Chairs: Lynn Mazzoleni and Florian Ditas
Room: Aula Magna

10:30 - 10:50 15AAP_O014
Aerosols in Amazonia: Urban impacts on a pristine atmosphere at GoAmazon 2014-15
P. Artaxo, H.M.J. Barbosa, J.F. Brito, S. Carbone, E.T. Sena, B. Holanda, M.A.F. Silva Dias,
G. Cirino, L.V. Rizzo, R. Souza, S. Martin, M.O. Andreae, C. Pöhlker, and J. Saturno

10:50 - 11:10 15AAP_O015
Chemical characterization of submicron aerosol particles during the dry and wet seasons in the
Amazon forest – ATTO station
S. Carbone, J.F. Brito, L.V. Rizzo, B.A. Holanda, J. Saturno, C. Pöhlker, H.M.J. Barbosa, M.O.
Andreae, and P. Artaxo

11:10 - 11:30 15AAP_O016
Seasonal and diurnal cycling of aerosol particles in and above the canopy at the ATTO site in
the Amazon rain forest
F. Ditas, C. Pöhlker, H. Barbosa, J. Brito, X. Chi, I. Hrabe de Angelis, M. L. Krüger, D. Moran,

11:30 - 11:50 15AAP_O017
Properties of free tropospheric aerosols at the Pico Mountain Observatory in the Azores
C. Mazzoleni, P. Fialho, S. China, B. Scarnato, K. Wright, N. Niedermeier, S. Kumar,
Mazzoleni

11:50 - 12:10 3AAP_P099
Long-term aerosol optical properties over Athens, Greece, and their dependence on chemical
composition
D. Paraskevopoulou, E. Liakakou, E. Gerasopoulos, and N. Mihalopoulos
12:10 - 12:30 15AAP_O019
ToF-ACSM measurements at the Jungfraujoch (3580 m a.s.l.) – Sources and origins of alpine aerosols

12:30 - 12:50 15AAP_O020
Long-term monitoring of PM1 chemical composition over the Eastern Mediterranean
I. Stavroulas, A. Bougiatioti, G. Kouvarakis, N. Kalivitis, P. Zampas, C. Theodosi, P. Nicolaou, and N. Mihalopoulos

Cancelled 15AAP_O018
Climatology of physical properties of aerosol particles at GAW global station of Monte Cimone (2165 m a.s.l.), Italy
L. Bourcier, A. Bigi, A. Marinoni, P. Cristofanelli, R. Duchi, M. Busetto, T.C. Landi, D. Putero, F. Calzolari, P. Villani, P. Laj and P. Bonasoni

NOTES
10:30 - 10:50  16AAS_O008
Breath-borne bioaerosol particle shielding efficiencies of respiratory masks
C. Xu, C.-Y. Wu, and M. Yao

10:50 - 11:10  16AAS_O010
Triboelectric charging of fungal spores during resuspension and rebound
H. Kuuluvainen, S. Saari, J. Mensah-Attipoe, P. Pasanen, T. Reponen, and J. Keskinen

11:10 - 11:30  16AAS_O011
A new method for determining bioaerosol mass concentration in atmospheric PM
C. Perrino and F. Marcovecchio

11:30 - 11:50  16AAS_O012
Fluorescent biological aerosol particle concentrations and size distributions measured with
the Waveband Integrated Bioaerosol Spectrometer WIBS-4 in Nanjing China

11:50 - 12:10  1AAS_P014
PM and gaseous emission characterization from residential and commercial
scale wood pellet boilers
P.K. Hopke, D. Thimmaiah, and K. Wang

12:10 - 12:30  1AAS_P012
AIRUSE LIFE+: Biomass burning emission factors and chemical profiles in Southern Europe
C.A. Alves, E. Vicente, C. Gonçalves, M. Duarte, L. Tarelho, T. Nunes, C. Pio, A. Vicente, C. Colombi, V. Gianelle, F. Amato, and X. Querol

12:30 - 12:50  1AAS_P008
Chemical stability of levoglucosan in laboratory and ambient aerosol studies: an isotopic perspective
Moved to Poster Session 2  16AAS_O013
Real-time detection of bacterial bioaerosols using microfluidic-based flow cytometry platform
M. Kang, J. Choi, and J.H. Jung

Cancelled  16AAS_O009
Concentrations of culturable bioaerosols at outdoor air environments in 2015 winter season with snow events
G. Lee, K. Heo, and B.U. Lee

Cancelled  16AAS_O014
Heterogeneous chemistry on pollen grains
N. Visez, S. Gosselin, F. Caron, and O. Naas

NOTES
Tuesday, September 08, 2015 10:30 - 12:50
Session: PMx
Sub-session 17: Source Apportionment
Chairs: Kostas Eleftheriadis and María Cruz Minguillón
Room: Aula U6-07

10:30 - 10:50  17PMX_O008
Identification of the main sources of PM10 impacting the north of France
D. Oliveira, O. Favez, S. Sauvage, E. Perdrix, and V. Riffault

10:50 - 11:10  17PMX_O009
Contribution of one year measurements in Arve valley to the chemical knowledge of alpine valleys and deconvolution of combustion sources

11:10 - 11:30  17PMX_O010
Long-term high time resolution measurements of the submicrometer aerosol chemical composition at the Central European station Melpitz, Germany
L. Poulain, G. Spindler, B. Stieger, W. Birmili, A. Grüner, A. Wiedensohler, and H. Herrmann

11:30 - 12:10  2PMx_P032
An inter-comparison of PM2.5 at urban and urban background sites: chemical characterization and source apportionment
D. Cesari, A. Donateo, M. Conte, E. Merico, A. Giancreco, and D. Contini

12:10 - 12:30  17PMX_O013
PM10 source apportionment based on PMF and chemical tracers during different cruises in Western Mediterranean
M.C. Bove, G. Calzolai, F. Cavalli, M. Chiari, J. Hjorth, D. Massabò, A. Piazzalunga, P. Prati, and C. Schembari
12:30 - 12:50  17PMX_O014
Argon Offline-AMS source apportionment of organic aerosol over a yearly cycle for 3 different stations in Lithuania

Reserve paper 2PMX_P035
Emission sources in the Province of Brescia (Northern Italy)
M. Chiesa, V. Gabusi, I. Hoch, R. Zambianchi, and A. Ballarin Denti

Cancelled  17PMX_O011
Sources and transport of particulate matter at high temporal resolutions
T. Ancelet, P. Davy, W. Trompetter, and A. Markwitz

NOTES
Tuesday, September 08, 2015 10:30 - 12:50
Session: Aerosol Chemistry
Sub-session 18: Anthropogenic Organic Aerosol
Chairs: Stefano Decesari and Johannes Schneider
Room: Aula U6-08

10:30 - 10:50  18ACH_O014
Would vehicle pollution be increasingly dominated by gasoline vehicles?

10:50 - 11:10  18ACH_O015
Secondary organic aerosol formation from the exhaust of a flex-fuel (ethanol) vehicle

11:10 - 11:30  18ACH_O016
Elemental composition and volatility of organic species in primary exhaust particles emitted from a marine diesel engine

11:30 - 11:50  18ACH_O017
Carbonaceous particulate emissions from small-scale wood-burning appliances

11:50 - 12:10  18ACH_O018
Comprehensive insight in the semi-volatile organic fraction of aerosols generated from wood combustion
A. B. Weggler, J. Orasche, T. Gröger, and R. Zimmermann

12:10 - 12:30  18ACH_O019
Contribution of nitrophenols and nitrohydroxybenzoic acids to water-soluble brown carbon light absorption
M. Teich, D. van Pinxteren, and H. Herrmann
12:30 - 12:50 18ACH_O020
Organic source apportionment by NMR and GC/MS techniques at two Po Valley sites in the cold season during the SUPERSITO campaign in 2013
N. Zanca, S. Decesari, M. Paglione, M. Rinaldi, S. Gilardoni, M.C. Pietrogrande, and M. Visentin

Reserve paper 3ACH_P081
Volatile of organic aerosol from heavy fuel oil combustion in a ship research engine and associated secondary organic aerosol formation potential

NOTES
Tuesday, September 08, 2015 10:30 - 12:50
Session: Indoor and Working Place Aerosol
Sub-session 19: Workplace Exposure
Chairs: Kaarle Hämeri and Tunga Salthammer
Room: Aula U6-09

10:30 - 10:50  19IND_O008
Investigations on exposure of nanoparticles in different occupational environments

10:50 - 11:10  19IND_O009
Intense generation of respirable nano-scaled and ultrafine particles during laser processing of ceramic materials

11:10 - 11:30  19IND_O010
Assessment of the specific contributions to occupational exposure of nano-alloying of TiO2 to special steels
C. Vaquero, J. López de Ipiña, C. Gutierrez-Cañas, C.M. Arrabal, Z. Idoyaga, and A. Martínez

11:30 - 11:50  19IND_O011
Testing a Near Field/Far Field model for prediction of particulate matter emissions in a paint factory

11:50 - 12:10  19IND_O012
The application of the Sioutas personal cascade impactor in metal smelters
B. Berlinger, M.D. Bugge, B. Ulvestad, H. Kjuus, K. Kandler, and D.G. Ellingsen

12:10 - 12:30  19IND_P010
Exposure to toxic aerosols related to mycotoxinogenesis on building materials used in indoor furnishings
B. Aleksic, M. Draghi, S. Ritoux, S. Bailly, M. Lacroix, I. Oswald, J.D. Bailly, and E. Robine
12:30 - 12:50  19IND_O014
Aerosols from cleaning spray products: Particle characterization and a human dose-response study
C. Isaxon, K. Lovén, J. Nielsen, G. Wieslander, A. Wierzbicka, and A. Gudmundsson

Cancelled 19IND_O013
Particulate matter emissions from activities of building refurbishment
F. Azarmi, P. Kumar, and M. Mulheron

NOTES
Tuesday, September 08, 2015 10:30 - 12:50
Session: Electrical Effects
Sub-session 20: From Theory to Application
Chairs: Caner Yurteri and Andrei Bologa
Room: Aula U6-01A

10:30 - 10:50        20ELE_O001
Experimental study of the washout of aerosol particles by electrically charged rain drop
M. Sow and P. Lemaître

10:50 - 11:10        20ELE_O002
Electrical discharges within the artificial charged aerosol cloud, with plasma parameters close
to the parameters registered in the long spark discharges
A.Y. Kostinskiy, M.G. Andreev, N.A. Bogatov, L.M. Makal’sky, E.A. Mareev, D.I. Sukharevsky, and V.S. Sysoev

11:10 - 11:30        20ELE_O003
Investigation of corona discharge in high pressure helium
A. Bologa, K. Woletz, and H.-R. Paur

11:30 - 11:50        20ELE_O004
Development of a pin-to-plate electrostatic sampler for airborne virus and bacteria sampling
J.-W. Park, H.R. Kim, and J. Hwang

11:50 - 12:10        20ELE_O005
Dynamics of the droplet formation process in periodic electric microdripping
A.J. Hijano, I.G. Loscertales, S.E. Ibañez, and F.J. Higuera

12:10 - 12:30        20ELE_O006
Incorporating electrophoretic atomization in the simple-jet mode in a multiple effect
distillation desalination system
V.A. Ganesan, S. Porada, J.M.R. Kips, R. Gordon, S.G.J. Heijman, L.L.F. Agostinho, and
J.C.M. Marijnissen

12:30 - 12:50        20ELE_O007
Electrospray plumes dynamics in linearly multiplexed arrays of Taylor cones
N. Sochorakis, E. Bodnár, J. Grifoll, and J. Rosell Llompart
Reserve paper 2ELE_P009
Experimental and numerical study on particle collection in a wet electrostatic precipitator

12:50-14:00
Lunch break
Room: Conference foyer
Tuesday, September 08, 2015 14:00 - 16:00
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 21: Emission, Deposition, Turbulent Transport
Chairs: Andreas Held and Daniele Contini
Room: Aula Magna

14:00 - 14:20  21AAP_O021
Sea spray aerosol: from production to cloud formation
J. Ovadnevaite, D. Ceburnis, A. Manders, G. de Leeuw, S. Marullo, M. Bellacicco, J. Bialek, and C. D. O’Dowd

14:20 - 14:40  21AAP_O022
Resuspension of bacterium and yeast-type bioaerosols from plant canopies at low wind friction velocities: a difference between the living and the inert?
G. Pellerin, D. Maro, P. Laguionie, D. Hébert, M. Morillon, O. Connan, and L. Solier

14:40 - 15:00  21AAP_O023
How important are synoptic-scale storms for desert-dust emission in North Africa?
S. Fiedler, P. Knippertz, K. Schepanski, M.L. Kaplan, B. Heinold, and I. Tegen

15:00 - 15:20  1AAP_P001
Dry deposition and size distribution of particulate sulphate over Sakaerat Biosphere Reserve Forest, Thailand
P. Chanonmuang, P. Khummongkol, S. Sodanin, and T. Artchwakom

15:20 - 15:40  21AAP_O025
Intensive measurements of PM above the city of Naples

15:40 - 16:00  21AAP_O026
Influence of nucleation events on number particles fluxes and size distributions in an urban background area during summer season
M. Conte, A. Donateo, A. Dinoi, F. Belosi, and D. Contini
Reserve paper 3AAP_P146
Wet scavenging of tropospheric pollutants in Oporto
D. Custódio, M. Cerqueira, T. Nunes, C. Pio, and C.A. Alves

Moved to Poster Session 2 21AAP_O024
Size-resolved eddy covariance fluxes of nucleation to accumulation mode aerosol particles over a coniferous forest
M.J. Deventer, A. Held, T. El-Madany, and O. Klemm

NOTES
Tuesday, September 08, 2015 14:00 - 16:00
Session: Atmospheric Aerosol – Specific Aerosol Types
Sub-session 22: Mineral Dust
Chairs: Sara Basart and Berko Sierau
Room: Aula U6-06

14:00 - 14:20        22AAS_O015
Eleven years of Saharan mineral dust transport at Mt. Cimone GAW station

14:20 - 14:40        22AAS_O016
Biodiversity and chemical speciation of desert dust particles
D. Cappelletti, S. Castellini, G. Cenci, S. Crocchianti, E. Federici, A. Franzetti, E. Montalbani, B. Moroni, C. Petroselli, B. Sebastiani, and R. Selvaggi

14:40 - 15:00        22AAS_O017
The WMO SDS-WAS Regional Center Northern Africa, Middle East and Europe: Different approaches to dust forecast evaluation
S. Basart, E. Terradellas, F. Benincasa, K. Serradell, E. Cuevas, and J.M. Baldasano

15:00 - 15:20        22AAS_O018
AIRUSE-LIFE+: Are dust binders efficient in Southern Europe? Alternatives for efficient urban and industrial dust mitigation in Mediterranean areas
F. Amato, A. Escrig, A. Karanasiou, V. Sanfelix, E. Monfort, I. Celades, P. Cordoba, A. Alastuey, F. Lucarelli, S. Nava, G. Calzolai, and X. Querol

15:20 - 15:40        22AAS_O019
Change of the mineral dust size distribution during transport from the Sahara into the Caribbean – Insights from SAMUM and SALTRACE

15:40 - 16:00        2AAS_P084
Desert dust versus local geological dust in Rome area: mineral composition, size distribution, optical properties and downward radiative flux
A. Pietrodangelo, R. Salzano, C. Bassani, and S. Pareti
Reserve paper 2AAS_P085
Dispersion of TSP and PM10 Emissions from Quarries in complex terrain
D.L. Tartakovsky, E. Stern, and D.M. Broday

Cancelled 22AAS_O020
Dust/sand storms over Libya: Their spatial distribution, frequency and seasonality
A.S. Eddenjal

NOTES
Tuesday, September 08, 2015 14:00 - 16:00
Session: PMx
Sub-session 23: Legislation and Policy and Other Topics
Chairs: Teresa Moreno and Silvia Nava
Room: Aula U6-07

14:00 - 14:20        23PMX_O015
Degradation in urban air quality from construction activity and increased traffic arising from a road widening scheme
A. Font, T. Baker, I. S. Mudway, E. Purdie, C. Dunster, and G. W. Fuller

14:20 - 14:40        23PMX_O016
Identification and quantification of the contribution of natural sources to PM10 in Italy: reliability and limitations of the European guidelines
A. Di Menno di Bucchianico, G. Cattani, S. Crocetti, A. Gaeta, G. Leone, and E. Taurino

14:40 - 15:00        23PMX_O017
Choices in commuter exposure to inhalable particulates

15:00 - 15:20        23PMX_O018
Saharan dust impact in central Italy: comparison of the EU method with quantifications based on the particulate elemental composition and PMF analysis
S. Nava, G. Calzoletti, M. Chiari, M. Giannoni, F. Lucarelli, S. Becagli, R. Traversi, R. Udisti, F. Amato, and X. Querol

15:20 - 15:40        23PMX_O019
Source estimation for PM2.5 at a pollution hot spot in New Delhi, India
P. Pant, A. Shukla, A. Goel, S.D. Kohl, J.C. Chow, J.G. Watson, and R.M. Harrison

15:40 - 16:00        23PMX_O020
Seasonally and spatially-resolved source contributions to organic aerosol in Switzerland
Reserved paper 3PMX_P047
Analysis of a PM high pollution episode under high humidity conditions
F. Lollobrigida, M. Sacco, M. M. Grosa, S. Bande, and A. Pannocchia

NOTES
Tuesday, September 08, 2015 14:00 - 16:00
Session: Instrumentation
Sub-session 24: Measurement Methods I
Chairs: Igor Agranovski and Achim Edfelder
Room: Aula U6-08

14:00 - 14:20        24INS_O001
Applications and perspectives of mobile monitoring of particulate matter
F. Gozzi, G. Della Ventura, A. Marcelli, and A. Cecili

14:20 - 14:40        24INS_O002
Laser generated carbonaceous particulates to model black carbon aerosol and for the
controlled investigation of biomass burning
T. Ajtai, N. Utry, M. Pintér, G. Kiss-Albert, R. Puskás, C. Tápai, T. Smausz, B. Hopp, Z. Bozóki,
Z. Kónya, and G. Szabó

14:40 - 15:00        24INS_O003
Assessment of state of the art methods for the determination of carbonate carbon on aerosol
filter samples
Viana, A. Alastuey, C. Theodosi, N. Mihalopoulos, and K.E. Yttri

15:00 - 15:20        24INS_O004
Characterising the evaporation dynamics of bioethanol/gasoline aerosols
S. Corsetti, R.E.H. Miles, J.P. Reid, J. Kiefer, and D. McGloin

15:20 - 15:40        24INS_O005
PAH sampling artifacts: evaluation and strategies to avoid them
C. Balducci, A. Febo, V. Paolini, A. Cecinato, M. Perilli, S. Iacobellis, and C. Tortorella

15:40 - 16:00        24INS_O006
A novel aerosol-into-liquid collector for online measurements of trace metals in ambient
particulate matter (PM)
D. Wang, M.M. Shafer, J.J. Schauer, and C. Sioutas
Reserve paper 3INS_P061
Estimation of organic and elemental carbon using FT-IR absorbance spectra from PTFE filters
M. Reggente, A. M. Dillner, and S. Takahama
Tuesday, September 08, 2015 14:00 - 16:00
Session: Aerosol Modelling
Sub-session 25: New Particle Formation and Growth
Chairs: Pontus Roldin and Michael Boy
Room: Aula U6-09

14:00 - 14:20  25AMO_O007
Contribution of ELVOCs to the formation, growth and properties of SOA particles

14:20 - 14:40  25AMO_O008
Sectional model for aerosol formation in cooled lid-driven cavity flow
E.M.A. Frederix, A.K. Kuczaj, M. Nordlund, and B.J. Geurts

14:40 - 15:00  25AMO_O009
The contribution of sub-grid, plume-scale nucleation to global CCN Concentrations
R.G. Stevens and J.R. Pierce

15:00 - 15:20  25AMO_O010
First comprehensive modelling study on ‘New Particle Formation’ at the SORPES station in Nanjing, China
M. Boy, X. M. Qi, X. Huang, P. Roldin, L. Zhou, and A. J. Ding

15:20 - 15:40  25AMO_O011
Toward accurately predicting the atmospheric particle number concentrations and new particle formation events: Results from the 3-D regional CTM PMCAMx-UF
E. Baranizadeh, B. N. Murphy, J. Julin, T. Olenius, O. Kupiainen-Määttä, L. Ahlm, C. L. Reddington, S. Falahat, C. Fountoukis, A. Virtanen, S. N. Pandis, H. Vehkamäki, A. Laaksonen, K. Lehtinen, and I. Riipinen

15:40 - 16:00  25AMO_O012
Volatility-resolved source apportionment of primary and secondary organic aerosol over Europe
K. Skyllakou, C. Fountoukis, P. E. Haralabidis, and S.N. Pandis
Reserve paper 2AMO_P017
Model studies of volatile diesel exhaust particle formation involving organic vapours
L. Pirjola, M. Karl, T. Rönkkö, and F. Arnold

NOTES
Tuesday, September 08, 2015 14:00 - 16:00
SPECIAL SESSION: Polar Aerosol
Sub-session 26: Aerosol Physical and Chemical Properties - 2
Chairs: Christoph Ritter and Sandro Fuzzi
Room: Aula U6-01A

14:00 - 14:20  26SPA_O007
Relationships among methansulfononic acid in PM10 at Ny Ålesund (Svalbard Island) and
Thule (Greenland), ocean primary production, and sea ice in the surrounding seas.
S. Becagli, L. Lazzara, C. Marchese, S.E. Ascanius, U. Dayan, C. Di Biagio, A. di Sarra, P.
Udisti

14:20 - 14:40  26SPA_O008
Mineral dust composition at Dome C (Antarctica): from ice core dust to present day aerosol
Chiari, and F. Lucarelli

14:40 - 15:00  26SPA_O009
Do herbivore outbreaks increase SOA production in boreal forests?
C.L. Faiola, E. Kari, P. Yli-Pirilä, A.B. Guenther, J. Joutsensaari, J. Holopainen, J. Blande, T. Yli-
Juuti, T. Kühn, H. Kokkola, J.N. Smith, K.E.J. Lehtinen, and A. Virtanen

15:00 - 15:20  26SPA_O010
REE patterns in PM10 collected in the Arctic region.

15:20 - 15:40  26SPA_O011
Preliminary considerations on horizontal variations of AOD and Ångström Exponent over
Spitsbergen
P. Pakszys, T. Zielinski, K. Markowicz, T. Petelski, P. Makuch, J. Lisok, M. Chilinski, A.
Rozwadowska, Ch. Ritter, R. Neuber, R. Udisti, and M. Mazzola

15:40 - 16:00  26SPA_O012
The effects of future anthropogenic aerosol emissions on Arctic and global climate
Iversen, I. Riipinen, and H.C. Hansson

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Reserve paper 1SPA_P002
Long-term comparison of thermal-optical transmittance elemental carbon and optical black carbon in the Arctic
P.K. Hopke and Y. Zhang

NOTES
Tuesday, September 08, 2015 14:00 - 16:00
Session: Combustion Aerosol

Sub-session 27: Biomass and Industrial Combustion Aerosols
Chairs: Olli Sippula and Senem Ozgen
Room: Aula U6-01F

14:00 - 14:20  27COA_O007
Wood and municipal solid waste emissions from the household stoves
H.-L. Kupri, M. Maasikmets, E. Teinemaa, K. Vainumäe, T. Arumäe, H. Orru, and V. Kimmel

14:20 - 14:40  27COA_O008
Physical-chemical properties of ultrafine particle emissions from a domestic pellet stove
S. Ozgen, S. Becagli, V. Bernardoni, L. Corbella, A. Crespi, P. Fermo, R. Gonzalez, G. Lonati,
S. Signorini, R. Tardivo, G. Valli, R. Vecchi, and L. Galli

14:40 - 15:00  27COA_O009
Online characterization of wood combustion emissions and their atmospheric aging products
Tissari, A. Leskinen, A. Hartikainen, H. Koponen, J. Leskinen, T. Torvela, H. Lamberg, J.
Jokiniemi

15:00 - 15:20  27COA_O010
Secondary organic aerosol formation potential of wood burning emissions
A. Keller, J. C. Corbin, A. A. Mensah, B. Sierau, and H. Burtscher

15:20 - 15:40  27COA_O011
Highly time resolved aerosol characterisation in the heart of a petrochemical complex
A. Sylvestre, B. Temime-Roussel, F. Canonaco, A. S. H. Prévôt, H. Wortham, and N. Marchand

15:40 - 16:00  27COA_O012
Gas flaring: Self-consistent estimates of the emission factors of the carbon-containing pollutants
Reserve paper 2COA_P023
Influence of operation conditions of wood chips boiler and electrostatic precipitator on the reduction of particle mass concentration in the exhaust gas

16:00-16:30
Coffee break
Room: Conference foyer

16:00 - 18:00
Poster Session 2
Room: Poster Hall
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info@orion-srl.it  www.orion-srl.it  +39 049-9006911
Wednesday, September 9

08:45 - 09:45
Plenary lecture: Particulate air pollution in Europe: Main drivers and control strategies
Plenary speaker: Laurence Rouil
Chairs: Sabine Wurzler and Xavier Querol
Room: Aula Magna

09:45 - 10:00
Smoluchowski Award
Room: Aula Magna

10:00 - 10:10
Communication by Claudia Sorlini, President of the EXPO Scientific Committee
Room: Aula Magna

10:10 - 10:30
Coffee break
Room: Conference foyer

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Wednesday, September 9th

08:45 - 09:45
Plenary lecture: Particulate air pollution in Europe: Main drivers and control strategies
Plenary speaker: Laurence Rouil
Chairs Sabine Wurzler and Xavier Querol
Room: Aula Magna

09:45 - 10:00
Smoluchowski Award
Room: Aula Magna

10:00 - 10:10
Communication by Claudia Sorlini, President of the EXPO Scientific Committee
Room: Aula Magna

10:10 - 10:30
Coffee break
Room: Conference foyer
Wednesday, September 09, 2015 10:30 - 12:50
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 28: New Particle Formation
Chairs: Birgit Wehner and Michael Boy
Room: Aula Magna

10:30 - 10:50        28AAP_O027
The role of organic compounds in early nano-particle growth

10:50 - 11:10        28AAP_O028
Can spatially varying parameters screw up our analysis of new particle formation events?

11:10 - 11:30        28AAP_O029
Formation and growth of atmospheric nanoparticles in the Eastern Mediterranean: Results from long-term measurements and process studies
N. Kalivitis, V.-M. Kerminen, G. Kouvarakis, E. Tzitzikalaki, M. Kanakidou, H. E. Manninen, M. Boy, M. Kulmala, and N. Mihalopoulos

11:30 - 11:50        28AAP_O030
Airborne measurements of new particle formation in the atmospheric boundary layer under cloudy conditions

11:50 - 12:10        28AAP_O031
New particle formation due to enhanced radiation around trade wind cumuli near Barbados
B. Wehner, F. Ditas, F. Werner, R. A. Shaw, and H. Siebert

12:10 - 12:30        28AAP_O032
Modeling the detection of highly oxidized cyclohexene ozonolysis products using nitrate-based chemical ionization
N. Hyttinen, O. Kupiainen-Määttä, M.P. Rissanen, M. Muuronen, M. Ehn, and T. Kurtén
12:30 - 12:50        28AAP_O033
Observation of new particle formation at a rural site in central Germany

Reserve paper 1AAP_P047
Variation of CCN activity during two types of new particle formation events in the North China Plain

NOTES
Wednesday, September 09, 2015 10:30 - 12:50
Session: Atmospheric Aerosol – Specific Aerosol Types
Sub-session 29: Frontiers in Carbonaceous Aerosol Measurements
Chairs: Gary Fuller and John Wenger
Room: Aula U6-06

10:30 - 10:50 29AAS_O021
Trends of tropospheric black carbon and sub-µm particle number concentration in the German Ultrafine Aerosol Network (GUAN), 2009-2013

10:50 - 11:10 29AAS_O022
Evaluation of the contribution of fossil and biogenic carbonaceous matter to PM10 in the Ruhr area from measurements of BC, EC, OC and levoglucosan
M. Küpper, U. Quass, T.A.J. Kuhlbusch, S. Leinert, L. Breuer, and D. Gladke

11:10 - 11:30 29AAS_O023
Multi-wavelength optical determination of black and brown carbon in atmospheric aerosols

11:30 - 11:50 29AAS_O024
Investigating urban equivalent black carbon using light absorption
P. Davy, A.H. Tremper, E. Nicolosi, and G.W. Fuller

11:50 - 12:10 29AAS_O025
On the real origins of AMS “Cooking Organic Aerosol” (COA) at a Po valley rural site
M. Paglione, M. Dall’osto, S. Decesari, M.C. Facchini, C. O’Dowd, and R. Harrison

12:10 - 12:30 29AAS_O026
Size-resolved black carbon mass distributions and mixing state in India
T. Raatikainen, D. Brus, R.K. Hooda, A.-P. Hyvärinen, E. Asmi, V.P. Sharma, A. Arola, and H. Lihavainen
12:30 - 12:50  29AAS_O027
Long-term airborne black carbon measurements on a Lufthansa passenger aircraft

Reserve paper 1AAS_P026
Spectral signature of black carbon containing aerosols constrained by observations of their chemico-physical properties.
B.V. Scarnato, S. China, and C. Mazzoleni

NOTES
Wednesday, September 09, 2015 10:30 - 12:50
Session: Inhalation, Exposures and Health
Sub-session 30: Toxicological Effects of Particles
Chairs: Ralf Zimmermann and Jeroen Buters
Room: Aula U6-07

10:30 - 10:50  30IEH_O014
Exposure and harm of combustion-derived wood particles

10:50 - 11:10  30IEH_O015
Toxicity of PM: experimental protocols in vivo and in vitro towards an integrated risk assessment

11:10 - 11:30  30IEH_O016
Biological effects of ultrafine particles from combustion processes
E. Longhin, L. Capasso, R. Bengalli, C. Battaglia, S. Mollerup, M. Gualtieri, and M. Camatini

11:30 - 11:50  30IEH_O017
Oxidative stress and inflammation induced by Diesel Exhaust Particles: pilot in-vitro and in-vivo studies
C. Milani, F. Farina, L. Botto, E. Lonati, G. Sancini, A. Bulbarelli, and P. Palestini

11:50 - 12:10  30IEH_O018
Effect of settling on the in vitro cytotoxicity evaluation of nanoparticles
A. Spyrogianni, G.A. Sotiriou, D. Brambilla, J.-C. Leroux, and S.E. Pratsinis

12:10 - 12:30  30IEH_O019
Biological effects of combustion aerosols on human lung cells exposed at the air liquid interface: Comparison of the molecular biological effects of log wood and pellet combustion aerosols with the effects of ship engine emissions

12:30 - 12:50  30IEH_O020
A lab scale measurement technique for the air-liquid-interface exposure of human lung cell cultures towards airborne particles

Reserve paper 1IEH_P011
Assessment of genotoxicity of PM: Echinogammarus veneris as bioindicator
M. Marcoccia, L. Ronci, and S. Canepari

NOTES
Wednesday, September 09, 2015 10:30 - 12:50
Session: Aerosol Chemistry

Sub-session 31: Latest Development in Aerosol Chemical Characterisation Techniques
Chairs: Stefania Gilardoni and Andreas Held
Room: Aula U6-08

10:30 - 10:50 31ACH_O021
On the current role of PIXE in atmospheric aerosol research
W. Maenhaut

10:50 - 11:10 31ACH_O022
Ultrahigh resolution mass spectrometry fragmentation analysis for functional groups and structural insights of WSOC collected at the Storm Peak Laboratory
L.R. Mazzoleni, V. Samburova, Y. Zhao, M.M. Dalbec, D.M.A. Habib, M.A. Brege, P. Saranjampour, A.G. Hallar, B. Zielinska, and D. Lowenthal

11:10 - 11:30 31ACH_O023
Vacuum ultraviolet photoionization of atmospherically relevant aerosol components using an Aerodyne aerosol mass spectrometer

11:30 - 11:50 31ACH_O024
Comparison between on- and off-line measurements of particles from air, rock and snow water with the compact portable laser mass spectrometer LAMPAS 3
C. Barth, K.-P. Hinz, and B. Spengler

11:50 - 12:10 31ACH_O025
Chemometric analysis of multisensor hyperspectral images of atmospheric particulate matter

12:10 - 12:30 31ACH_O026
Detection sensitivity of the SP-AMS

89
12:30 - 12:50  31ACH_O027
Field evaluation of a high time resolution elemental monitor (XACT 625) at Marylebone Road, London, UK
*D.C. Green, A.H. Tremper, M. Priestman, and S.H. Hamad*

Reserve paper 2ACH_P032
Fluorescence microscopy analysis advantages while characterizing Heterogeneous aerosol from biomass burning
*P. Garra, S. Kohler, A. Dieterlen, and G. Trouvé*

**NOTES**
Wednesday, September 09, 2015 10:30 - 12:50
Session: Aerosol Modelling
*Sub-session 32: Atmospheric Applications*
Chairs: Olli Pakarinen and Gabriele Curci
Room: Aula U6-09

10:30 - 10:50        32AMO_O013
Role of lattice mismatch in heterogeneous nucleation of ice
_O.H. Pakarinen and H. Vehkamäki_

10:50 - 11:10        32AMO_O014
Will electric vehicles really reduce air pollution? A sensitivity study

11:10 - 11:30        32AMO_O015
Evaluating the spatiotemporal variability of WRF-Chem aerosol particle properties and extreme concentrations over eastern North America
_P. Crippa, R.C. Sullivan, A. Thota, Z. Li, and S.C. Pryor_

11:30 - 11:50        3AMO_P037
A high resolution hybrid modelling system for the evaluation of urban concentrations
_N. Pepe, G. Pirovano, A. Balzarini, G.M. Riva, A. Toppetti, G. Lonati, and M. Bedogni_

11:50 - 12:10        3AMO_P035
Modelling the size resolved composition and numbers of traffic induced ultrafine particles in a street canyon

12:10 - 12:30        32AMO_O018
Effects of dynamic modelling of ammonium nitrate aerosol
_M. Karl, S. Tsyro, and W. Aas_
12:30 - 12:50  32AMO_O019
Analysis of a summertime case study in Milan: insights on the formation of aerosol layers in and above the boundary layer, and their contribution to ground-level particulate matter

Cancelled  32AMO_O016
Impact of the Standard Nomenclature for Air Pollution (SNAP) categories on PM2.5 concentration over Europe
R.E.P. Sotiropoulou, E. Tagaris, N. Gounaris, S. Andronopoulos, and D. Vlachogiannis

Cancelled  32AMO_O017
Spatial and seasonal variability of BC emissions and estimate of population exposure over Europe

NOTES
Wednesday, September 09, 2015 10:30 - 12:50
Session: Fundamentals
Sub-session 33: Gas-to-Particle Conversion: Nucleation and Growth
Chairs: Alexander Shchekin and Ari Laaksonen
Room: Aula U6-01A

10:30 - 10:50        33FUN_O007
Insight into acid–base nucleation experiments by comparison of the chemical composition of positive, negative, and neutral clusters

10:50 - 11:10        33FUN_O008
Heterogeneous nucleation of water vapour: the influence of nanoparticle adsorption properties
A. Laaksonen and J. Malila

11:10 - 11:30        33FUN_O009
LES-MMC modelling of nucleation and condensation of DBP droplets in a turbulent jet
G. Neuber, N. Seubert, A. Kronenburg, O. T. Stein, and M.J. Cleary

11:30 - 11:50        33FUN_O010
How the nonstationary diffusion concentration and temperature shells mix at the stage of nucleation of supercritical droplets
A.K. Shchekin, A.E. Kuchma, and M.N. Markov

11:50 - 12:10        33FUN_O011
Aerosol growth mechanism study for elongated particles by molecular dynamics
D. Suh and K. Yasuoka

12:10 - 12:30        33FUN_O012
The effect of monolayer films on aerosol mass transport
R.E.H. Miles, J.F. Davies, A.E. Haddrell, and J.P. Reid

12:30 - 12:50        33FUN_O013
Types of aerosol formed by condensation
C. Clement
Reserve paper 3FUN_P036
Experimental study of homogeneous nucleation of the cesium chloride vapor
V.D. Zelik, S.V. Valiulin, S.V. Vosel, V.V. Karasev, and A.A. Onischuk
Wednesday, September 09, 2015 10:30 - 12:50
Session: Indoor and Working Place Aerosol
Sub-session 34: Society Interactions
Chairs: Ian Colbeck and Gianluigi De Gennaro
Room: Aula U6-01F

10:30 - 10:50  34IND_O015
What are we breathing in rail subway systems, and why?
T. Moreno, V. Martins, M.C. Minguillón, C. Reche, F. Amato, M. Capdevila, E. de Miguel, S. Centelles, and X. Querol

10:50 - 11:10        34IND_O016
Chemical composition and source apportionment of PM2.5 in subway stations of Barcelona, Spain
V. Martins, T. Moreno, M.C. Minguillón, B.L. van Drooge, and X. Querol

11:10 - 11:30  34IND_O017
Size distributions and volatility of ultrafine particles in a metro station
L. Mendes, G. Biskos, and K. Eleftheriadis

11:30 - 11:50        3IND_P046
Evidential monitoring of particulate matter from institutional indoor locations of Pakistan, China and UK

11:50 - 12:10        34IND_O019
Indoor particle sources and spatial variation of particle concentration in a prison
C. He, L.D. Knibbs, Q. Tran, H. Wang, and L. Morawska

12:10 - 12:30        34IND_O020
Are we protecting Da Vinci’s Last Supper from Milan’s particulate air pollution?
D. Westerdahl, A. Ruprecht, and G. Gasparini

12:30 - 12:50        34IND_O021
Aerosol sources and deposition in the indoor environment of historic churches
M. Strojecki, A. Mleczkowska, L. Bratasz, and R. Kozłowski
Cancelled 34IND_O018
Levels and behaviour of ultrafine particles in garage operations
*P. Avino, M. Manigrasso, P. Carrai, and C. Rocchi*

Free Afternoon
Sunset Laboratory Inc.
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These instruments utilize the latest advances in electronic and optical technology for the measurement of organic (OC), elemental (EC), black (BC), and total carbon (TC), coupled with an optimized oven and detector, designed for sensitive and reliable field operation. These carbon aerosol particulate analyzers are rack mountable and offered in a rugged and more compact design. Some of the new features include an easy access panel for filter service and calibration, new safety mechanisms and inline pressure regulators for superior flow control. Pick up a brochure for more details.

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Sunset Laboratory performs analysis of samples from an extensive array of sources and for a wide variety of applications using the OC/EC lab instrument. NIOSH method 5040, IMPROVE protocols, and EUSAAR2, among others can be selected for analysis.

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Suite G
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Phone: 919.245.3151
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Sunset Laboratory B.V.
Science Park 408
1098 XH, Amsterdam
The Netherlands
Phone: +31 20 70 52 300
Fax: +31 20 70 52 309

Or find us online:
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Thursday, September 10th
09:00-10:00
Plenary lecture: The potential of aerosol technology for structuring and characterizing multi-scale functional material
Plenary speaker: Gerhard Kasper
Chairs: José Castillo and Mansoo Choi
Room: Aula Magna
10:00-10:30
Coffee break
Room: Conference foyer
Thursday, September 10th
Thursday, September 10th

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Plenary lecture: The potential of aerosol technology for structuring and characterizing multi-scale functional material
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10:00-10:30
Coffee break
Room: Conference foyer
Thursday, September 10, 2015 10:30 - 12:50
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 35: Aerosol - Cloud Interactions and Climate Effects of Aerosols
Chairs: Claudia Mohr and Darrel Baumgardner
Room: Aula Magna

10:30 - 10:50        35AAP_O034
Sensitivity studies of ice formation in convective clouds by using new particle dependant parameterizations of heterogeneous freezing processes
K. Diehl and S.K. Mitra

10:50 - 11:10        35AAP_O035
Effect of black carbon on radiation fog
Z. Maalick, T. Kühn, and S. Romakkaniemi

11:10 - 11:30        35AAP_O036
Effects of humidity on water uptake to freshly nucleated particles in a boreal forest
H. Wang, A. Pajunoja, L. Hao, P. Miettinen, J.S. Kim, M. Kulmala, T. Petäjä, and A. Virtanen

11:30 - 11:50        35AAP_O037
Aircraft and ground-based measurements of Cloud Condensation Nuclei (CCN) in and over the tropical rain forest of Amazonia

11:50 - 12:10        35AAP_O038
Study of droplet activation in thin clouds using ground-based Raman lidar and ancillary remote sensors
M. Rosoldi, F. Madonna, P. Gumà Claramunt, and G. Pappalardo

12:10 - 12:30 35AAP_O039
Black carbon over Italian basin valleys (Po Valley, Terni Valley and Passiria Valley): direct radiative forcing, heating rate and feedbacks along vertical profiles
L. Ferrero, M. Castelli, B.S. Ferrini, M. Moscatelli, M.G. Perrone, G. Sangiorgi, G. Rovelli, L. D'Angelo, B. Moroni, F. Scardazza, G. Morčnik, E. Bolzacchini and M. Petitta, and D. Cappelletti

12:30 - 12:50 35AAP_O040
Experimental and model-based determination of mineral dust radiative effects in the short- and long-wave spectral range at a Central Mediterranean site
S. Romano and M.R. Perrone

Reserve paper 1AAP_P020
A5-Unibo: an experiment on aerosols and cloud formation on-board Bexus 18 stratospheric balloon
E. Serrano Castillo, E. Brattich, R. Lasagni Manghi, L. Tositti, and F. Giulietti
12:10 - 12:30  35AAP_O039
Black carbon over Italian basin valleys (Po Valley, Terni Valley and Passiria Valley): direct radiative forcing, heating rate and feedbacks along vertical profiles

12:30 - 12:50  35AAP_O040
Experimental and model-based determination of mineral dust radiative effects in the short- and long-wave spectral range at a Central Mediterranean site
S. Romano and M.R. Perrone

Reserve paper 1AAP_P020
A5-Unibo: an experiment on aerosols and cloud formation on-board Bexus 18 stratospheric balloon
E. Serrano Castillo, E. Brattich, R. Lasagni Manghi, L. Tositti, and F. Giulietti

NOTES
Thursday, September 10, 2015 10:30 - 12:50
Session: Atmospheric Aerosol – Specific Aerosol Types
Sub-session 36: Urban Aerosol: Properties, Evolution and Applications
Chairs: Imre Salma and Manuel Dall’Osto
Room: Aula U6-06

10:30 - 10:50 36AAS_O028
PM2.5 aerosol chemical composition and sources in China during extreme haze events

10:50 - 11:10 36AAS_O029
Local secondary processes and aging of aerosol in a heavily trafficked street canyon in central London (UK)
C. Giorio, A. Tapparo, M. Dall’Osto, D.C.S. Beddows, J.K. Esser-Gietl, R.M. Healy, and R.M. Harrison

11:10 - 11:30 36AAS_O030
Organic aerosol source apportionment by offline AMS over a full year in Marseille

11:30 - 11:50 3AAS_P092
Comparison of summer and winter highly time resolved submicron aerosol composition measured at a suburban site in Prague
L. Kubelová, P. Vodička, O. Makeš, J. Schwarz, and V. Ždímal

11:50 - 12:10 36AAS_O032
Physical and chemical properties of real exhaust particle emissions from city buses

12:10 - 12:30 36AAS_O033
Contribution of local and transported atmospheric aerosol in a European air pollution hot-spot
N. Zikova, C. Leoni, J. Hovorka, J. Ondracek, and J. Schwarz

12:30 - 12:50 3AAS_P092
Evaluation of stone decay hazard due to PM pollution using an “Heritage Climatology” approach: the case study of Milan
12:30 - 12:50  36AAS_O034
Evaluation of stone decay hazard due to PM pollution using an “Heritage Climatology”
approach: the case study of Milan
M. Casati, G. Rovelli, G. Sangiorgi, L. D’Angelo, M.G. Perrone, C. Rizzi, E. Bolzacchini, and
L. Ferrero

Cancelled 36AAS_O031
Relationship among meteorology, road traffic and PM10 concentrations in Madrid
P.J. Pérez-Martínez and R.M. Miranda

NOTES
Thursday, September 10, 2015 10:30 - 12:50  
Session: Combustion Aerosol  
Sub-session 37: Automotive Engine Emissions  
Chairs: James Whitehead and Svetlana Stevanovic  
Room: Aula U6-07  

10:30 - 10:50  37COA_O013  
Application of a validation method for remote sensing vehicle exhaust emissions: high emitter determination on soot, PM, and PN basis  
A. Maggioni, S. Casadei, L. Ferrero, and F. Riccobono

10:50 - 11:10  37COA_O014  
Thermal evolution and dynamic changes in diesel emission  

11:10 - 11:30  37COA_O015  
Evolution and characteristics of in-cylinder diesel soot  

11:30 - 11:50  37COA_O016  
Influence of biodiesel quota in the fuel and engine operation parameters on reactivity and structure of soot  
M.N. Ess, H. Bladt, N.P. Ivleva, and R. Niessner

11:50 - 12:10  37COA_O017  
Diesel engine exhaust particle measurements using a particle size magnifier (PSM)  

12:10 - 12:30  37COA_O018  
Chamber measurements of light-duty diesel exhaust  
12:30 - 12:50  37COA_O019
The oxidative potential of gas phase and its relationship to the overall ROS emission and the composition of combustion precursors
S. Stevanovic, F. Hedayat, A.M. Pourkhesalian, M. Rahman, N. Nabi, R. J. Brown, and Z.D. Ristovski

Reserve paper 1COA_P015
Experimental investigation of diesel engine exhaust particle relevant to oxidation catalysts
L. Xinling and H. Zhen

NOTES
Thursday, September 10, 2015 10:30 - 12:50
SPECIAL SESSION: Source Apportionment
Sub-session 38: Source Apportionment Advanced Studies and Comparison of Models
Chairs: Claudio Belis and Franco Lucarelli
Room: Aula U6-08

10:30 - 10:50        38SSA_O001
Implementing multi-time approach in ME-2: results from PM2.5 sampling campaign in Florence (Italy)
A. Crespi, V. Bernardoni, G. Calzolai, F. Lucarelli, S. Nava, G. Valli, and R. Vecchi

10:50 - 11:10        38SSA_O002
Contribution of regional background aerosols to PM2.5 concentrations in the Po Valley in the summer season during the 2012 PEGASOS-SUPERSITO campaign

11:10 - 11:30        38SSA_O003
A comprehensive analysis of the rotational ambiguity of PMF solutions for ACSM data

11:30 - 11:50        38SSA_O004
Wood burning as a main source of winter aerosol in residential district in proximity to a large automobile factory in Central Europe
J. Hovorka, P. Pokorná, P.K. Hopke, K.Křímal, P. Mikuška, and M. Pišová

11:50 - 12:10        38SSA_O005
Variations in the chemical composition of the submicron aerosol and sources of its organic fraction at a regional background site of the Po Valley (Italy)
12:10 - 12:30  38SSA_O006
Local and regional sources of submicron aerosol in the Po Valley during wintertime
S. Gilardoni, P. Massoli, M. Paglione, M. Rinaldi, M. C. Pietrogrande, V. Poluzzi, C. Carbone,
V. Gianelle, C. Colombi, R. Hillamo, M. Aurela, M. C. Facchini, and S. Fuzzi

12:30 - 12:50  38SSA_O007
AIRUSE-LIFE+: Synergistic daily and hourly PM source apportionment in urban environments of
Southern Europe
Amato, A. Alastuey, A. Karanasiou, V.L. Gianelle, C. Colombi, C. Alves, D. Custódio, T.
Nunes, M. Duarte, C. Pio, K. Eleftheriadis, E. Diapouli, M. Manousakas, S. Vratolis, P.
Fetfatzis, and R. Harrison

Reserve paper 3SSA_P003
Rolling PMF analysis for a full-year source apportionment of organic aerosols

NOTES
Thursday, September 10, 2015 10:30 - 12:50
Session: Aerosol-based Nanotechnology
Sub-session 39: Aerosol-based Nanotechnology
Chairs: Johannes Ofner and George Biskos
Room: Aula U6-09

10:30 - 10:50 39ANT_O001
Lifecycle of commercial photocatalytic nanocoatings: Nanoparticles aerosol emission during mechanical and environmental stresses application
N. Shandilya, O. Le Bihan, C. Bressot, and M. Morgeneyer

10:50 - 11:10 39ANT_O002
Thermal decomposition of a carbon nanotube/epoxy nanocomposite and resultant particle release
L. Schlagenhauf, Y.-Y. Kuo, Y.K. Bahk, F. Nüesch, and J. Wang

11:10 - 11:30 39ANT_O003
The toxicity mechanism of nanosized metal oxides is driven by NP physical-chemical properties and the modality of bio-interactions in human lung cells
P. Mantecca, E. Moschini, M. Camatini, G. Colombo, I. Dalle Donne, I. Perelshtein, and A. Gedanken

11:30 - 11:50 39ANT_O004
Novel optical approaches for studying biogenic nanoparticles
P.S. Bauer, H. Amenitsch, H. Peterlik, C. Rentenberger, and P.M. Winkler

11:50 - 12:10 39ANT_O005
Fractal geometry and effective density for agglomerates of airborne carbon nanotubes
Y.K. Bahk, S.C. Chen, and J. Wang

12:10 - 12:30 39ANT_O006
Weathering of an epoxy/CNT nanocomposite: Impact on abrasion, release and toxicity
L. Schlagenhauf, B. Kianfar, T. Buerki-Thurnherr, Y.-Y. Kuo, A. Wichser, F. Nüesch, P. Wick, and J. Wang
12:30 - 12:50  39ANT_O007
Tip-enhanced Raman spectroscopy of nucleation-mode aerosol: New frontiers in image-based
analysis of atmospheric nanoparticles

Reserve paper 2ANT_P011
Focusing of charged aerosols via electric-field applied stencil mask

NOTES
Thursday, September 10, 2015 10:30 - 12:50
Session: Instrumentation
Sub-session 40: Miniaturized Equipment
Chairs: Wladyslaw Szimansky and Oliver Bischof
Room: Aula U6-01A

10:30 - 10:50        40INS_O007
Miniature electrical nanoparticle detector for simultaneous measurement of particle number, average size and lung-deposited surface area
D. Meier, D. Egli, P. Steigmeier, H. Burtscher, and M. Fierz

10:50 - 11:10        40INS_O008
Portable nanoparticle instrumentation based on diffusion charging for oncoming motor vehicle regulations
L. Cachón, R. Stich, S. Gerkens, and A. Brödel

11:10 - 11:30        40INS_O009
Field applicability of personal monitors for assessing worker exposure to airborne nanomaterials

11:30 - 11:50        40INS_O010
Towards PM monitoring in Smartphones: Capacitive single microparticle detection
M. Carminati, G. Ferrari, P. Ciccarella, E. Bianchi, G. Dubini, and M. Sampietro

11:50 - 12:10        40INS_O011
Comparability between portable and stationary instruments for urban air quality monitoring
M. Viana, I. Rivas, C. Reche, A. Fonseca, X. Querol, A. Alastuey, M. Álvarez-Pedrerol, and J. Sunyer

12:10 - 12:30        40INS_O012
Evaluation of a personal sampler for the assessment of mass-based exposure to airborne nanoparticles
S. Clavaguera, B. Faure, C. Brovard, H. Giraud, H. Dozol, A. Guiot, A.M. Todea, and C. Asbach
12:30 - 12:50  40INS_O013
Miniature rapid bioaerosol detection technique
I.E. Agranovski, O. Usacheva, and E.V. Usachev

Reserve paper 1INS_P014
Field measurements with a portable device for wide range aerosol size distributions
A. Edfelder, M. Pesch, M. Richter, F. Tettich, and V. Ziegler

12:50-14:00
Lunch break
Room: Conference foyer
Thursday, September 10, 2015 14:00 - 16:00
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 41: Transport and Transformation, Processes
Chairs: Annele Virtanen and Paul Zieger
Room: Aula Magna

14:00 - 14:20  41AAP_O041
Exploring air mass source identification using data from surface in situ aerosol monitoring stations
M. Fiebig, G.H. Hansen, C.R. Lunder, A. Stohl, R.L. Thompson, K.E. Yttri, and W. Aas

14:20 - 14:40  41AAP_O042
The impact of anthropogenic emissions on the otherwise pristine Amazonian rainforest: Insights on aerosol dynamics as observed during GoAmazon2014/5

14:40 - 15:00  41AAP_O043
Ammonia evaluation in the Po Valley during the last 7 years and its role in the PM secondary formation
C. Colombi, R. Cosenza, and V. Gianelle

15:00 - 15:20  41AAP_O044
Aerosol properties within the convective cloud-topped planetary boundary layer above the megacity of Athens, Greece
A. Argyrouli, A. Papayannis, I. Binietoglou, P. Kokkalis, P. Fefatzis, A. Bougiatioti, V. Amiridis, D. Müller, and A. Nenes

15:20 - 15:40  41AAP_O045
Broad supersaturation scanning CPC applied as a nano-CCN counter for size-resolved analysis of the hygroscopicity and chemical composition of nanoparticles
15:40 - 16:00  41AAP_O046
A reference data set for validating vapour pressure measurement techniques: Homologous series of polyethylene glycols
U.K. Krieger, C. Marcolli, and F. Siegrist

Reserve paper 3AAP_P142
Evolution of organic aerosol during transport observed at Mt. Cimone (2165 m asl), Italy, during PEGASOS
M. Rinaldi, S. Gilardoni, S. Decesari, S. Fuzzi, P. Cristofanelli, P. Bonasoni, V. Poluzzi, P. Massoli, and M.C. Facchini

NOTES
Thursday, September 10, 2015 14:00 - 16:00
Session: Atmospheric Aerosol – Specific Aerosol Types
Sub-session 42: Marine/Urban Aerosol
Chairs: Silvia Becagli and Claudio Mazzoleni
Room: Aula U6-06

14:00 - 14:20  42AAS_O035
Organic aerosol characterization and source apportionment at Mace Head coastal station
M. Rinaldi, M. Paglione, S. Decesari, M.C. Facchini, J. Ovadnevaite, D. Ceburnis, and C.D. O’Dowd

14:20 - 14:40  42AAS_O036
A marine source of biogenic atmospheric ice nucleating particles

14:40 - 15:00  42AAS_O037
Environmental and health benefits from designating the Marmara Sea and the Turkish Straits as an emission control area (ECA)
M. Viana, N. Fann, A. Tobías, X. Querol, D. Rojas-Rueda, A. Plaza, G. Aynos, and C. Fernández

15:00 - 15:20  42AAS_O038
Submicron aerosol measurement over the sea around the Korean Peninsula
M. Park, S.S. Yum, J.H. Kim, and N. Kim

15:20 - 15:40  42AAS_O039
Aerosol chemistry between two Oceans: Auckland’s urban aerosol
G. Coulson, G. Olivares, J. Salmond, and N. Talbot
15:40 - 16:00  42AAS_O040
AIRUSE-LIFE+: Contribution of biomass burning to ambient PM2.5 in 5 Southern European cities.

Reserve paper 2AAS_P071
Ship aerosol in the central Mediterranean Sea from measurements of PM10 chemical composition at Lampedusa (35.5°N, 12.6°E) and Capo Granitola (36.6°N, 12.6°E)

NOTES
Thursday, September 10, 2015 14:00 - 16:00
Session: Combustion Aerosol
Sub-session 43: Ship, Aircraft and Automotive Engine Emissions
Chairs: Ismael Ortega and Prem Lobo
Room: Aula U6-07

14:00 - 14:20  43COA_O020
Chemical characterization of volatile organic compounds emitted by aircraft engines
A. Setyan, Y.-Y. Kuo, B.T. Brem, L. Durdina, A.C. Gerecke, N.V. Heeb, and J. Wang

14:20 - 14:40  43COA_O021
Gas and particle composition and properties of photochemically aged ship plumes using chemical ionization and aerosol mass spectrometry

14:40 - 15:00  43COA_O022
Chemical and structural characterization of airplane soot and surrogates

15:00 - 15:20  43COA_O023
Impact of alternative fuel blend ratios on the non-volatile PM emissions of an aircraft auxiliary power unit
P. Lobo, S. Christie, B. Kandelwal, S. Blakey, D. Hagen, P. Whitefield, and D. Raper

15:20 - 15:40  1COA_P016
Internal combustion engines are still the dominant source of nanoparticles in residential neighborhoods
M. Vojtisek, M. Pechout, L. Dittrich, M. Fenkl, and J. Štolcpartová

15:40 - 16:00  43COA_O025
Gas turbine engine PM exhaust spatial non-uniformity
D.E. Hagen, P.D. Whitefield, and P. Lobo
Moved to Poster Session 1 43COA_O024
Energy and pollution improvement by hydrous short chain alcohol-diesel blends
S.-I. Shih, S.-L. Lin, J.H. Tsai, Y.-C. Lai, Y.-M. Kuo, and C.H. Tsai

NOTES
Thursday, September 10, 2015 14:00 - 16:00
Session: Aerosol Chemistry
Sub-session 44: Heterogeneous and Multiphase Chemistry of Aerosols
Chairs: Manabu Shiraiwa and Andreas Tilgner
Room: Aula U6-08

14:00 - 14:20        44ACH_O028
Heterogeneous reactions of ozone and hydroxyl radicals with commonly used pesticides
adsorbed on particles
J. Socorro, A. Durand, B. Temime-Roussel, S. Ravier, S. Gligorovski, H. Wortham, and E. Quivet

14:20 - 14:40        3ACH_P062
Formation of reactive oxygen species by secondary organic aerosols formed from ozonolysis of
monoterpenes

14:40 - 15:00        44ACH_O030
Multiphase chemical kinetics of ozone uptake on organic aerosol particles in glassy solid, semi-
solid and liquid phase state

15:00 - 15:20        44ACH_O031
Effect of atmospheric processing on nutrient solubility in coal fly ash
N. Davidson, F. Pope, and Z. Shi

15:20 - 15:40        44ACH_O032
A new aerosol source from photochemistry at the ocean microlayer
P.A. Alpert, R. Ciuraru, F. Bernard, S. Rossignol, M. Passananti, L. Tinel, S. Perrier, Y. Dupart,
S. S. Steimer, M. Ammann, and C. George

15:40 - 16:00        44ACH_O033
Fate of aromatic pollutants in the atmospheric waters and ecological perspective of their aging
A. Krofić, M. Grilč, and I. Grgić
Cancelled  44ACH_O029
Exploring multi-phase processing of secondary organic aerosol in the atmosphere
C. Knote, A. Hodzic, and B. Aumont

NOTES
Thursday, September 10, 2015 14:00 - 16:00

Session: Aerosol Modelling

Sub-session 45: Global and Large Scale Modelling

Chairs: Alexandra Tsimpidi and Elisabetta Vignati

Room: Aula U6-09

14:00 - 14:20        45AMO_O020
Investigating the regional scale impacts of amine-sulphuric acid nucleation
J. Julin, B.N. Murphy, T. Olenius, O. Kupiainen-Määttä, L. Ahlm, S. Falahat, D. Patoulias, C. Fountoukis, H. Vehkamäki, S.N. Pandis, and I. Riipinen

14:20 - 14:40        45AMO_O021
Modelling results on neutral and ion-induced nucleation in the free troposphere based on CERN CLOUD data
H. Gordon, J. Almeida, K. Carslaw, K. Sengupta, E. Dunne, and the CLOUD collaboration

14:40 - 15:00        45AMO_O022
Aerosol particle representation in a regional climate model: validation of and constraints on optical properties with monitored data

15:00 - 15:20        45AMO_O023
Contribution of biomass burning and fuel combustion emissions and their chemical aging to global organic aerosol budget
A.P. Tsimpidi, V.A. Karydis, S.N. Pandis, and J. Lelieveld

15:20 - 15:40        45AMO_O024
Evaluation of particulate matter (PM) simulation ability in Central Europe by a regional chemistry-transport model: COSMO-MUSCAT
Y. Chen, R. Wolke, W. Birmili, G. Spindler, and A. Wiedensohler

15:40 - 16:00        45AMO_O025
A modelling system to evaluate the concentration of PM2.5 and its major chemical components in Tuscany Region in the framework of PATOS project
Reserve paper 1AMO_P015
Aerosol modelling with the global online NMMB/BSC chemical transport model

NOTES

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Thursday, September 10, 2015 14:00 - 16:00
Session: Instrumentation
Sub-session 46: New Instrumentation
Chairs: Marc Stettler and Tibor Ajtai
Room: Aula U6-01A

14:00 - 14:20        46INS_O014
A new method for composition specific, single particle differentiation using dual-wavelength light scattering
Zs. Jurányi, E. Weingartner, M. Loepfe, M. Nenkov, and H. Burtscher

14:20 - 14:40        46INS_O015
Method for size-resolved chemical analysis of nano-aerosol particles

14:40 - 15:00        46INS_O016
PoCAMon - Personal Online Continuous Airmonitor not only for Radon and Thoron decay products
T. Streil and V. Oeser

15:00 - 15:20        1INS_P015
A new facility for cross-disciplinary research in the high Arctic

15:20 - 15:40        46INS_O018
Calibrating particle size magnifier for number size distribution measurements in the 1-3nm size range
J. Vanhanen, J. Kangasluoma, M. Attoui, and M. Väkevä

15:40 - 16:00        46INS_O019
Measuring sub-3 nm neutral cluster distributions using a novel DMA technique, the GANS A.
Franchin, S. López-Vidal, P. Dohányosová, H.E. Manninen, K. Lehtipalo, J. Vanhanen, T. Petäjä, E. Ramiro, and M. Kulmala

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Reserve paper 3INS_P054
Handheld personal airborne nanoparticle detector CANTOR – performance test
H.S. Wasisto, S. Merzsch, A. Waag, E. Peiner, and E. Uhde

Cancelled 46INS_O017
Characterization of a robust sub-3 nm nanoparticle source
J. Kangasluoma, M. Attoui, H. Junninen, F. Korhonen, N. Sarnela, A. Schmidt-Ott, D. Worsnop, M. Kulmala, and T. Petäjä

NOTES
Thursday, September 10, 2015 14:00 - 16:00
Session: PMx
Sub-session 47: AIRUSE LIFE+ and Source Apportionment
Chairs: John Wenger and Roy Harrison
Room: Aula U6-01F

14:00 - 14:20  47PMX_O021
AIRUSE LIFE+: Review of the efficiency of major air quality measures for road traffic in Europe for abatement of particulate matter
R.M. Harrison, C. Holman, and X. Querol

14:20 - 14:40  47PMX_O022
AIRUSE-LIFE+: A harmonized PM speciation and source apportionment of ambient PM in five Southern European cities

14:40 - 15:00  47PMX_O023
AIRUSE LIFE+: Natural contributions to urban PM in Southern Europe and strategies to minimise human exposure

15:00 - 15:20  47PMX_O024
PM2.5 source apportionment in the Po Valley: a 4 city study in Emilia-Romagna region
F. Scotto, I. Ricciardelli, D. Bacco, A. Vagheggi, A. Trentini, S. Ferrari, V. Poluzzi, C. Maccone, and R. Vecchi

15:20 - 15:40  47PMX_O025
Chemical composition and source apportionment of PM2.5 at kerbside, London, UK
D.C. Green, A.H. Tremper, M. Priestman, S.H. Hamad, and F. Canonaco

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15:40 - 16:00  47PMX_O026
Contribution of solid fuel burning to PM2.5 in residential areas of Ireland

Reserve paper 1PMX_P004
AIRUSE-LIFE+: Are industrial emissions inventories accurate enough to develop air quality plans?
E. Monfort, V. Sanfelix, I. Celades, S. Gomar, X. Querol, F. Amato, and A. Karanasiou

16:00-16:30
Coffee break
Room: Conference foyer

16:00 - 18:00
Poster Session 3
Room: Poster Hall

19:30 – 23:00
CONFERENCE DINNER
VENUE: MUSEO NAZIONALE DELLA SCIENZA E DELLA TECNOLOGIA LEONARDO DA VINCI.
Via Olona 6 Bis or Via S.Vittore 21 - Milan City Centre
Capturing the hidden is our challenge!

Emission Test

Isostack G4: your ideal partner
Automatic Isokinetic sampler

Air Quality

Skypost PM HV
Automatic outdoor station for PM

The perfect solution even in extreme ambient conditions...

Hygiene and Health

AYRON
Personal sampling pump

GABIE II
VOC passive Badge

CIP 10
Personal sampler

commercial@tecora.com  www.tecora.com
Friday, September 11th
08:45 - 09:45
Plenary lecture: Characterization of residential indoor aerosols and their sources
Plenary speaker: Tunga Salthammer
Chairs: José Castillo and Mansoo Choi
Room: Aula Magna

09:45 – 10:00
Best Poster Awards
Room: Aula Magna

10:00-10:30
Coffee break
Room: Conference foyer
Friday, September 11th
Friday, September 11th

08:45 - 09:45
Plenary lecture: Characterization of residential indoor aerosols and their sources
Plenary speaker: Tunga Salthammer
Chairs: Joakim Pagels and Vladimír Zdímal
Room: Aula Magna

09:45 – 10:00
Best Poster Awards
Room: Aula Magna

10:00-10:30
Coffee break
Room: Conference foyer
Friday, September 11, 2015 10:30 - 12:50
Session: Atmospheric Aerosol - Aerosol Processes and Properties
Sub-session 48: Laboratory and Basic Properties
Chairs: Martin Gysel and Paul Zieger
Room: Aula Magna

10:30 - 10:50  48AAP_O047
On the hygroscopicity of laboratory generated inorganic sea spray aerosol
P. Zieger, M.E. Salter, J. Acosta, J. Corbin, M. Gysel, E. Hamacher-Barth, M. Johnson, C. Leck,
D. Nilsson, D. Partridge, N. Rastak, I. Riipinen, B. Rosati, J. Ström, O. Väisänen, A. Virtanen,
and J. Werner

10:50 - 11:10  48AAP_O048
Hygroscopicity of aminium sulphates from comparative kinetics measurements in a cylindrical
electrodynamic balance
G. Rovelli, R.E.H. Miles, S.L. Clegg, and J.P. Reid

11:10 - 11:30  48AAP_O049
Surfactant properties of water soluble nitro-aromatic compounds and their contribution to
HULIS fraction of size segregated organic aerosols
S. Frka and I. Grgić

11:30 - 11:50  48AAP_O050
Single particle properties of glassy aerosol: water transport and viscosity
Y.-c. Song, A.M.J. Rickards, A. E. Haddrell, R.E.H. Miles, F.H. Marshall, and J.P. Reid

11:50 - 12:10  48AAP_O051
Compositions of biogenic SOA generated under different oxidation regimes in atmospheric
simulation chamber experiments and comparison with field samples
I. Kourichev, J.-F. Doussin, C. Giorio, B. Mahon, S.J. Fuller, N. Maurin, E. Pangui, E.M. Wilson,
R.M. Healy, I. O’Connor, J.R. Sodeau, D.S. Venables, J.C. Wenger, J. Aalto, T.M. Ruuskanen,
M. Kulmala, W. Maenhaut, and M. Kalberer

12:10 - 12:30  48AAP_O052
Identification, quantification, and volatility of compounds in the gas and particle phase during
new particle formation events
C. Mohr, F. Lopez-Hilfiker, D. Covert, A. Lutz, M. Hallquist, R. Hillamo, and J. Thornton
12:30 - 12:50  48AAP_O053
Particle bounce and inferred viscosities of anthropogenic and biogenic SOA particles with ranging oxidation state
A. Virtanen, A. Pajunoja, R. Alfarra, A. Lambe, Y. Song, D. Topping, P. Davidovits, I. Riipinen, D. Worsnop, J. Reid, and G. McFiggans

Reserve paper 3AAP_P100
Deliquescence and crystallization of aerosol in the Po Valley: measurements, comparison with model outputs and applications
L. Ferrero, L. D’Angelo, G. Rovelli, M. Casati, M.G. Perrone, G. Sangiorgi, and E. Bolzacchini

NOTES
Friday, September 11, 2015 10:30 - 12:50

Session: Atmospheric Aerosol – Specific Aerosol Types

Sub-session 49: Urban Aerosol: Sources and Impact on the Air Pollution

Chairs: Xavier Querol and Imad El Haddad

Room: Aula U6-06

10:30 - 10:50 49AAS_O042
Steelwork impact assessment into the local area based on three different approaches:
Biomonitoring technique, PM10 monitoring and soil contamination
J. Lage, S.M. Almeida, and H.Th. Wolterbeek

10:50 - 11:10 49AAS_O041
Impact of industrial emissions on ambient aerosol particles concentrations: from sources profiles to receptor sites

11:10 - 11:30 49AAS_O043
Characterization of fresh and aged organic aerosol emissions from meat charbroiling
C. Kaltsonoudis, E. Kostenidou, E. Louvaris, M. Psichoudaki, E. Tsiligiannis, K. Florou, and S.N. Pandis

11:30 - 11:50 49AAS_O044
Kathmandu: A case study of urban pollution in South Asia
S. Gilardoni, A. Marinoni, S. Sandrini, E. N. Kirillova, S. Decesari, D. Putero, P. Cristofanelli, E. Vuillermoz, A. Bhupesh, P. Bonasoni, and S. Fuzzi

11:50 - 12:10 49AAS_O045
Road dust profiles data set and non-exhaust traffic in Lombardy for PM10 and PM2.5: differences in chemical composition and number size distributions
C. Colombi, A. Algieri, U. Dal Santo, and V. Gianelle

12:10 - 12:30 49AAS_O046
Anthropogenic and natural air pollutants in Rome: The influence of Saharan dust advection events
C. Struckmeier, F. Drewnick, F. Freutel, G.P. Gobbi, and S. Borrmann
12:30 - 12:50  49AAS_O047
Mapping of ultrafine particle concentrations with high spatial and temporal resolution in the city of Zurich, Switzerland
M. Mueller, D. Hasenfratz, O. Saukh, M. Fierz, and C. Hueglin

Reserve paper 3AAS_P093
The mobile platform measuring urban pollutant cross sections of the Perugia city
S. Crocchianti, D. Cappelletti, M.G. Ranalli, S. Del Sarto, B. Moroni, S. Castellini, C. Petroselli, K.S. Bakar, M. Angelucci, and M. Vecchiocattivi

NOTES
Friday, September 11, 2015 10:30 - 12:50
Session: Aerosol-based Nanotechnology
Sub-session 50: Aerosol-based Nanotechnology 2
Chairs: Sotiris E. Pratsinis and José Castillo
Room: Aula U6-07

10:30 - 10:50  50ANT_O008
Numerical study of the efficiency of a facepiece filtering respirator using a model of an idealized spherical sampler with porous layer
S.K. Zaripov, I.T. Muhametzanov, A.K. Gilfanov, and S.A. Grinshpun

10:50 - 11:10  50ANT_O009
Generation of Indium antimony nanoparticles using spark discharge
L. Ludvigsson, M. Ghasemi, M. E. Messing, K. D. Thelander, J. Johansson, S. Gorji Ghalamestani, and K. Deppert

11:10 - 11:30  50ANT_O010
Selective sensing of NH3 by Si-doped Cr-MoO3 for breath analysis
A.T. Güntner, M. Righettoni, and S.E. Pratsinis

11:30 - 11:50  50ANT_O011
Production of photocatalytic nanostructured TiO2 powders by flame spray pyrolysis
L.G. Bettini, M.V. Dozzi, F. Della Foglia, G.L. Chiarello, E. Selli, P. Piseri, and P. Milani

11:50 - 12:10  50ANT_O012
Photocatalytic degradation of nitrogen oxides assisted by nanocrystalline TiO2
P. Ielpo, G. Lasorella, G. Mascolo, M.L. Curri, and R. Comparelli

12:10 - 12:30  50ANT_O013
Development of size controlled nanoparticle fabrication system using thermophoretic separation
B. Kim, D.-Y. Chung, J.-Y. Kim, J. Hwang, and D. Park

12:30 - 12:50  50ANT_O014
Depositing particles on a substrate during their liquid-like phase of growth
J. Feng, M. Messing, G. Biskos, and A. Schmidt-Ott
Reserve paper 3ANT_P030
Screening and advanced instrumentation for on-site distinction of the background and release signals in a nanoSiO2 production plant
J. Lopez de Ipiña, C. Vaquero, T. Oroz, C. Salazar, G. Aragon, I. Ibarra, T. Tritscher, and C. Gutierrez-Canas

NOTES
Friday, September 11, 2015 10:30 - 12:50
Session: Aerosol Chemistry
Sub-session 51: Elucidation of Chemical Mechanisms and Transformation Processes in Aerosol
Chairs: Harald Saathoff and Manabu Shiraiwa
Room: Aula U6-08

10:30 - 10:50        51ACH_O034
Collection and investigation of individual freshly nucleated particles
Z. Németh, M. Pósfai, I. Nyirő-Kósa, and I. Salma

10:50 - 11:10        51ACH_O035
Size dependence of phase transitions in aerosol nanoparticles
Y. Cheng, H. Su, T. Koop, E. Mikhailov, and U. Pöschl

11:10 - 11:30        51ACH_O036
Viscosity measurements of single aerosol particles using fluorescence lifetime imaging
C. Fitzgerald, A. Athanasiadis, M. Kalberer, M. Kuimova, S. Botchway, A. Ward, and F. Pope

11:30 - 11:50        51ACH_O037
The effect of viscosity on volatility and reactivity of organic aerosol
F.H. Marshall, Y.C. Song, R.E.H. Miles, A.E. Haddrell, and J.P. Reid

11:50 - 12:10        51ACH_O038
Surface properties for atmospheric surfactant aqueous solutions and their variation with environmental parameters observed directly with synchrotron XPS
N.L. Prisle, G. Öhrwall, J. Werner, V. Ekholm, M.-M. Walz, and O. Björnholm

12:10 - 12:30        51ACH_O039
Development of a new method for the characterisation of atmospherically important organic radicals in the gas and particle phase
C. Giorio, S.J. Campbell, A.J. Wedlake, F. Tampieri, A. Tapparo, A. Barbon, A. Toffoletti, and M. Kalberer
12:30 - 12:50  51ACH_O040
Chemical characterization and source investigations of PM10 in Central Europe with the MARGA
B. Stieger, G. Spindler, K. Müller, L. Poulain, A. Grüner, M. Wallasch, and H. Herrmann

Reserve paper 2ACH_P059
MD simulation of surface tension of organic droplets based on energy different method and evaporation correction
X. Wang, H. Su, U. Pöschl, and Y. Cheng

NOTES
Friday, September 11, 2015 10:30 - 12:50
Session: Instrumentation
Sub-session 52: Measurement Methods II
Chairs: Christoph Asbach and Martin Fierz
Room: Aula U6-09

10:30 - 10:50        52INS_O020
Application of a high-temperature dilution probe for measuring size distributions of ultrafine emission particles
F. Tettich, M. Richter, L. Keck, M. Pesch, and H. Grimm

10:50 - 11:10        52INS_O021
A DMA-Train for precision quantification of early nanoparticle growth
D. Stolzenburg and P.M. Winkler

11:10 - 11:30        52INS_O022
A new certified device for measuring tailpipe number concentrations of solid particulate matter
J. Spielvogel, A. Avenido, J. Johnson, B. Osmondson, and H.-G. Horn

11:30 - 11:50        52INS_O023
An inexpensive tubular precipitator for aerosol nanoparticle segregation
S. Bezantakos, L. Huang, K. Barmpounis, M. Attoui, A. Schmidt-Ott, and G. Biskos

11:50 - 12:10        52INS_O024
Advantages of planar DMA’s for nanoparticle studies
A.Á. Carballido, D.Z. Pérez, R. Cuesta Barbado, M. Amo González, G. Fernández de la Mora, and J. Fernández de la Mora

12:10 - 12:30        52INS_O025
Dust detection with IASI measurements in the weather forecast
J. Letertre-Danczak and T. McNally

12:30 - 12:50        52INS_O026
SMPS measurements with high number concentrations at the upper size limit – introduction of a new correction method
H. Kaminski, B. Stahlmecke, C. Asbach, and T.A.J. Kuhlbusch
Reserve paper 3INS_P063
Steady-state and transient effective density of cigarette smoke particles
T.J. Johnson, J.S. Olfert, C.U. Yurteri, R. Cabot and J. McAughey

NOTES
Friday, September 11, 2015 10:30 - 12:50

SPECIAL SESSION: Polar Aerosol

Sub-session 53: Aerosol Studies from Flying and Naval Platform

Chairs: Megan Willis and Ezio Bolzacchini
Room: Aula U6-01A

10:30 - 10:50  53SPA_O013
Sources of aerosols in the Arctic troposphere identified during the 2013 ACCACIA campaign

10:50 - 11:10  53SPA_O014
Airborne single particle composition measurements in background and polluted air in the Arctic summer

11:10 - 11:30  53SPA_O015
Open ocean new particle formation in Antarctica
M. Dall’Osto, R. Simo, D. Worsnop, D. Beddows, R.M. Harrison, P. Vaattovaara, J. Ovadnevaite, D. Ceburnis, and C. O’Dowd

11:30 - 11:50  53SPA_O016
Retrieval of aerosol single-scattering profiles based on synergy of in-situ and remote sensing techniques during iAREA campaigns in Ny-Alesund.

11:50 - 12:10  53SPA_O017
Airborne submicron aerosol composition measurements in the Arctic in spring 2014 during RACEPAC
C. Schulz, J. Schneider, H. Bozem, and S. Borrmann

12:10 - 12:30  53SPA_O018
Observations of aerosol composition in the summertime Arctic

12:30 - 12:50  53SPA_O019
Aircraft observations of ultrafine particles and CCN in the Arctic summertime
J. Burkart, R. Leaitch, M. Willis, F. Köllner, J. Schneider, H. Bozem, P. Hoor, A. Herber, and J. Abbatt

Reserve paper 1SPA_P003

Arctic aerosol-cloud interactions during ASCOS
R.G. Stevens, A.A. Hill, B.J. Shipway, P.R. Field, and K.S. Carslaw

12:50-13:20 Conference Closure
12:10 - 12:30  53SPA_O018
Observations of aerosol composition in the summertime Arctic

12:30 - 12:50  53SPA_O019
Aircraft observations of ultrafine particles and CCN in the Arctic summertime
J. Burkart, R. Leaitch, M. Willis, F. Köllner, J. Schneider, H. Bozem, P. Hoor, A. Herber, and J. Abbatt

Reserve paper 1SPA_P003
Arctic aerosol-cloud interactions during ASCOS
R.G. Stevens, A.A. Hill, B.J. Shipway, P.R. Field, and K.S. Carslaw

12:50-13:20
Closing Ceremony
SEQENTIAL SYSTEM LIFETEK PMS

The system LIFETEK PMS allows you to perform sequential sampling of inhalable particles $\text{PM}_{10}$, respirable fraction of $\text{PM}_{2.5}$, that conform with the norm UNI EN 12341: 2014

- Chassis suitable for outdoor installation.
- Autonomy of 16 filters.
- Pumps for 6 m³/h of high prevalence with useable range from 5 to 70 l/min.
- Automatic compensation of pressure drop.
- Sensors for the measurement of pressure drop on the filter, atmospheric pressure, ambient temperature, temperature of the sampling filter and the temperature of the sampled filters.
- Air conditioning system for the conservation of the filters at a controlled temperature.
- USB port for data download on pen drive.
- Managing and recording events in case of power failure.
- GSM module for remote management of the sampling and alarms.
- Installable sampling heads: $\text{PM}_{10}$, $\text{PM}_{2.5}$ and $\text{PM}_{1}$ from 2.3 to 1 m³/h.
- Management of the Select 8 for the sampling of TSP in accordance with relevant standards.
Monday, September 07, 2015
16:00 - 18:00
Poster Session 1
Room: Poster Hall

Session: Atmospheric Aerosol - Aerosol Processes and Properties

1AAP_P001
Moved to oral sub-session #21

1AAP_P002
Effect of aerosols on freezing drops, hail and precipitation in a mid-latitude storm
E. Ilotoviz, A.P. Khain, V.T.J. Phillips, and A.V. Ryzhkov

1AAP_P003
Characterization of major chemical components of fine particulate matter in North Saitama early winter of 2010 using a Time-of-flight Aerosol Mass Spectrometer
H. Hagino, T. Morikawa, S. Hasegawa, S. Yonemochi, and H. Hayami

1AAP_P004
Long-term study of Cloud Condensation Nuclei (CCN) concentrations associated with New Particle Formation (NPF) events in the urban background of Vienna
C. Dameto de España, A. Wonaschuetz, G. Steiner, A. Demattio, and R. Hitzenberger

1AAP_P005
Multiyear in-situ measurements of atmospheric aerosol absorption properties in Valencia (Spain)
Wood combustion impact on winter local air quality in a industrial/semi-rural site near Brindisi (Italy)

Atmospheric particles phase-transitions and time-of-wetness in Milan

Factors influencing ambient concentrations of $^{7}$Be over “Demokritos GAW station”
E. Dalaka, M. Anagnostakis, and K. Eleftheriadis

Dependence of Cloud Condensation Nuclei activity of Secondary Organic Aerosol (SOA) on particle size

New field data for dry deposition velocity of aerosol particle as function of size from bare soil to forest: data acquisition, data processing and modeling inter-comparison

Seasonal variation of the chemistry of submicron aerosols in Po Valley, Italy
M. Aurela, S. Saarikoski, S. Carbone, S. Gilardoni, M. Paglioni, and R. Hillamo

Ultrafine particles, $^{13}$C, trace elements and ionic water soluble species in PM10 in a suburban area of Galicia, NW Spain
S. Iglesias-Samitier, M. Piñeiro-Iglesias, P. López-Mahía, S. Muniategui-Lorenzo, and D. Prada-Rodríguez
1AAP_P013
Meteoritic material in aerosol particles observed in the lowermost stratosphere over Western Europe
J. Schneider, T. Klimach, and S. Borrmann

1AAP_P014
The origin of particles at Vavihill

1AAP_P015
Analysis of the functional form of aerosol size distribution
K. Cugerone, C. Colombi, A. Ghezzi, V. Gianelle, and C. De Michele

1AAP_P016
Further developments of ACTRIS for coordinated long-term observation of aerosols, cloud-aerosol interactions, and trace gases in Europe
G. Pappalardo and P. Laj

1AAP_P017
LANDEX - Episode zero: A preliminary atmospheric field study in the Landes forest (France)

1AAP_P018
Particle number concentrations and size distributions in Po Valley (Northern Italy)
A. Trentini, G. Lonati, F. Scotto, S. Ozgen, D. Bacco, I. Ricciardelli, J. Joutsensaari, S. Patti, S. Ferrari, A. Laaksonen, and V. Poluzzi

1AAP_P019
Comparison of the influence of aerosols on the impairment of visibility in Taipei and Yunlin

1AAP_P020
A5-Unibo: an experiment on aerosols and cloud formation on-board Bexus 18 stratospheric balloon
E. Serrano Castillo, E. Brattich, R. Lasagni Manghi, L. Tositti, and F. Giuliani
1AAP_P021
Monitoring and forecasting dust haze over West Africa using satellite imageries and Numerical Weather Prediction output
A.A. Abdoul Aziz Abebe

1AAP_P022
Ice nuclei measurements in a rural area and at a high altitude remote station
F. Belosi, G. Santachiara, F. Prodi, M. Rinaldi, and M.C. Facchini

1AAP_P023
The Lille Ice Nucleation Chamber (LINC). A practical approach to investigate the heterogeneous nucleation of ice on soot emitted by jet airplane engines
A. Faccinetto, S. Batut, D. Petitprez, and P. Desgroux

1AAP_P024
Seasonal variation in particle hygroscopicity and CCN number concentration at a central European regional background site (Melpitz, Germany)
S. Henning, A. Beyer, V. Brock, W. Birmili, L. Poulain, A. Grüner, A. Wiedensohler, H. Herrmann, and F. Stratmann

1AAP_P025
The new INKA instrument for the study of ice nucleating particles

1AAP_P026
Overview on ACTRIS cloud condensation nuclei measurements results

1AAP_P027
Below-cloud scavenging of fine particles by convective precipitation events in Milan’s metropolitan area
G. Rossini, K. Cugerone, A. Ghezzi, and C. De Michele
1AAP_P028
Quantification of organic content and coating on laboratory generated dust particles and their effect on ice nucleation processes
C. Mohr, H. Saathoff, O. Möhler, N. Hiranuma, and FIN-01 team

1AAP_P029
Characterization of emissions from various local sources and their effects on cloud droplet formation in Puijo semi-urban site
A. Ruuskanen, A. Leskinen, H. Portin, A. Arola, S. Romakkaniemi, K.E.J. Lehtinen, and M. Komppula

1AAP_P030
A study of aerosol effect in cloud system with direct numerical simulations
N. Babkovskaia, M. Boy, U. Rannik, H. Siebert, B. Wehner, and M. Kulmala

1AAP_P031
First measurements and test of proper operation of the Finnish Meteorological Institute Aerosol Cloud Interaction Tube (FMI – ACIT)
K.M. Doulgeris and D. Brus

1AAP_P032
Influence of aging on the cloud condensation nuclei (CCN-)activity of black carbon in the city of Zurich

1AAP_P033
Connecting the solubility and hygroscopic behavior of complex organic aerosols using solubility distributions
N. Rastak, A. Pajunoja, A. Virtanen, S.N. Pandis, and I. Riipinen

1AAP_P034
In-cloud observations highlighting the importance of aerosol chemical composition on CCN activation
O. Väisänen, P. Miettinen, A. Ylisirniö, S. Romakkaniemi, and A. Virtanen
The effect on cloud properties of the co-condensation of semi-volatile organics onto externally mixed aerosol
M. Crooks, P. Connolly, and D. Topping

Aerosol research network Poland-AOD

Atmospheric aerosols variability at regional background, foothills of central Himalayas

Light absorption by atmospheric aerosol brown carbon in the high Himalayas
E.N. Kirillova, S. Decesari A. Marinoni, P. Bonasoni, M.C. Facchini, S. Fuzzi, and E. Vuillermoz

Aerosol-radiation interactions from space spectrometers over the tropical Atlantic
M. de Graaf, L.G. Tilstra, and P. Stammes

Analysis of particles and meteorology in Shanghai during a haze event in December 2014
R. Han, S. Wang, and W. Shen

Sources of ultrafine particles over Germany, an airborne survey
W. Junkermann

New particle formation events observed in the lower free troposphere
The effect on cloud properties of the co-condensation of semi-volatile organics onto externally mixed aerosol
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Sources of ultrafine particles over Germany, an airborne survey
W. Junkermann

New particle formation events observed in the lower free troposphere

Timing and coincidence of atmospheric nucleation events in a region

Cancelled

Tracking ambient new particle formation by an expansion-type CPC
T. Pinterich, P.M. Winkler, T. Petäjä, M. Kulmala, and P.E. Wagner

Characterisation and sources of ultrafine particles in an inner city urban area
M.M. Rahman, M. Mazaheri, S. Clifford, and L. Morawska

Variation of CCN activity during two types of new particle formation events in the North China Plain

Insights into the roles of sulphuric acid and organic compounds in new particle formation in southern Africa

Measurements of sub-3nm atmospheric clusters and particles in different environments

Problems with ionization rate in the research of atmospheric aerosols
U. Hörrak, J. Salm, K. Komsaare, A. Luts, M. Vana, and H. Tammet
1AAP_P051
Effect of ammonia and sulphuric acid to new particle formation in Po Valley, Italy

1AAP_P052
Impact of aerosol definition on regional climate simulations over North Africa, Middle East and Europe
M. Gonçalves-Ageitos, O. Jorba, C. Pérez García-Pando, and M. Schulz

1AAP_P053
Physical and chemical characteristics of aerosol in Anmyeondo, Korea

1AAP_P054
The Agia Marina Xyliatou Observatory: A remote supersite in Cyprus to monitor changes in the atmospheric composition of the Eastern Mediterranean and Middle East
Session: Atmospheric Aerosol – Specific Aerosol Types

1AAS_P001
Chemical composition of wildland and agricultural biomass burning particles measured downwind during BBOP study
T.B. Onasch, J. Shilling, E. Fortner, M. Pekour, D. Chand, S. Collier, Q. Zhang, L. Kleinman, A. Sedlacek, A. Freedman, and D. Worsnop

1AAS_P002
Effect of operating conditions of residential wood combustion appliances on PM2.5 emissions
V. Tschamber, G. Leyssens, G. Trouvé, C. Le-Dreff, S. Labbé, S. Postel, and S. Kohler

1AAS_P003
Light absorbing carbonaceous particulates from biomass burning: dependence on combustion conditions and photochemical processing

1AAS_P004
AMS and Radiocarbon coupled source apportionment of carbonaceous aerosols during one year in Magadino

1AAS_P005
Impact of residential wood combustion on wintertime atmospheric aerosol in Emilia Romagna region (Northern Italy)
M.C. Pietrogrande, D. Bacco, S. Ferrari, and M. Visentin

1AAS_P006
Influence of biomass burning on aerosol optical properties in Indonesia and Vietnam
N. Bukowiecki, B. Satria, E. Kurniawan, L. Duong Hoang, G. Wehrle, M. Gysel, and U. Baltensperger

1AAS_P007
Continuous aerosol and gaseous properties of transported biomass burning smoke coupled with fog at a high-elevation site in East Asia
1AAS_P008
Moved to oral sub-session #16

1AAS_P009
Optical properties of aerosol particles over the Amazon rain forest: From background to biomass burning conditions

1AAS_P010
Aging of the aerosols emitted from biomass burnings in Northern Australia

1AAS_P011
CCN in an urban and remote location during wintertime: the role of biomass burning
A. Bougiatioti, D. Paraskevopoulos, L. Fourtziou, I. Stavroulas, G. Kouvarakis, S. Vratolis, B. Psiloglou, A. Nenes, K. Eleftheriadis, G. Kallos, and N. Mihalopoulos

1AAS_P012
Moved to oral sub-session #16

1AAS_P013
Hygroscopic properties of atmospheric particles during winter biomass burning episodes in Athens
M. Psychoudaki, A. Nenes, K. Florou, C. Kaltsonoudis, and S.N. Pandis

1AAS_P014
Moved to oral sub-session #16
AAS_P008
Chemical stability of levoglucosan in laboratory and ambient aerosol studies: an isotopic perspective

AAS_P009
Optical properties of aerosol particles over the Amazon rain forest: From background to biomass burning conditions

AAS_P010
Aging of the aerosols emitted from biomass burnings in Northern Australia

AAS_P011
CCN in an urban and remote location during wintertime: the role of biomass burning
A. Bougiatioti, D. Paraskevopoulou, L. Fourtziou, I. Stavroulas, G. Kouvarakis, S. Vratolis, B. Psiloglou, A. Nenes, K. Eleftheriadis, G. Kallos, and N. Mihalopoulos

AAS_P012
AIRUSE LIFE+: Biomass burning emission factors and chemical profiles in Southern Europe
C.A. Alves, E. Vicente, C. Gonçalves, C. Colombi, and V. Gianelle

AAS_P013
Hygroscopic properties of atmospheric particles during winter biomass burning episodes in Athens
M. Psichoudaki, A. Nenes, K. Florou, C. Kaltsonoudis, and S.N. Pandis

AAS_P014
PM and gaseous emission characterization from residential and commercial scale wood pellet boilers
P.K. Hopke, D. Thimmaiah, and K. Wang

AAS_P015
Cancelled

AAS_P016
Emissions of anhydrosugars from diverse residential biomass combustion equipment
C.A. Alves, E. Vicente, C. Gonçalves, C. Colombi, and V. Gianelle

AAS_P017
Emission of parent, nitrated and oxygenated polycyclic aromatic hydrocarbons from manually and automatically fired residential combustion appliances
E.D. Vicente, A. Vicente, M. Duarte, T. Nunes, L. Tarelho, B.A. Bandowe, X. Querol, and C.A. Alves

AAS_P018
Chemical markers in urban PM2.5 aerosol during and after festival-related burning activities
Y.I. Tsai, L.-Y. Hsieh, S.-C. Kuo, and S.-P. Yu

AAS_P019
Emission characterization of pellet stoves in non-standard operations
I. Vassura, E. Venturini, F. Agostini, A. Pizzi, G. Toscano, E. Bernardi, and F. Passarini

AAS_P020
Primary organic aerosols in the atmosphere of Belgrade
R. Zangrando, E. Barbaro, T. Kirchgeorg, M. Vecchiato, E Scalabrin, M. Radaelli, and A. Gambaro

AAS_P021
Intercomparison of chromatographic methods used for quantification of levoglucosan in ambient aerosol filters
M.C. Pietrogrande, D. Bacco, C. Colombi, M. Visentin, E. Cuccia, V. Gianelle, and P. Lazzeri

AAS_P022
Residential wood combustion: links between ion content, organic and elemental carbon and aerosol size distributions
M. Duarte, A.I. Calvo, T. Nunes, L. Tarelho, R. Fraile, A. Castro, and C. Alves
The contribution of wood burning and other sources to wintertime organic aerosol levels in two Greek cities

AIRUSE LIFE+: Mitigation strategies for biomass burning emission in Southern Europe
C.A. Alves, E. Vicente, M. Duarte, L. Tarelho, F. Amato, and X. Querol

Biomass burning aerosols optical properties constrained by observations of their chemico-physical properties
B.V. Scarnato, S. China, and C. Mazzoleni

Spectral signature of black carbon containing aerosols constrained by observations of their chemico-physical properties
B.V. Scarnato, S. China, and C. Mazzoleni

Enhanced approaches to characterise organic aerosol in the Po Valley area (Italy)
A. Meroni, C. Colombi, V. Gianelle, S. Gilardoni, M.C. Facchini, G. Lonati, G. Pirovano, A. Balzarini, and G.M. Riva

Characterization of light absorbing organic aerosols in Pearl River Delta region, China

Organic compounds in fine particulate matter across the Veneto region, Italy: Spatial-temporal variations and meteorological influences

Sources and processes affecting carbonaceous aerosol in urban and rural areas in Emilia-Romagna region (Northern Italy)
M.C. Pietrogrande, D. Bacco, S. Ferrari, I. Ricciardelli, A. Trentini, and M. Visentin
1AAS_P031
Re-interpretation of Raman spectra of carbonaceous materials: A molecular approach
I.K. Ortega, B. Chazallon, Y. Carpentier, and C. Focsa

1AAS_P032
Aerosol concentrations during a combined Saharan dust and wildfire event observed at
Sonnblick Observatory
A. Kasper-Giebl, G. Schauer, M. Kistler, E.C. Cetintas, and G. Mocnik

1AAS_P033
The contribution of fossil sources to carbonaceous aerosol derived from the LOTOS-EUROS
model and radiocarbon measurements

1AAS_P034
Annual variation of solvent-extractable organic compounds in PM2.5 in Malaysia – Influence
of Indonesian peatland fires
Y. Fujii, M. Oda, N. Amil, S. Tohno, and M.T. Latif

1AAS_P035
First measurements of aerosol black carbon in a very humid area using the “dual-spot”
Aethalometer with a new drier
M. Piñeiro-Iglesias, S. Iglesias-Samitier, N. Gallego-Fernández, A. Saunders, I. Fraga, L.
Drinovec, G. Mocnik, M.L. Macho, S. Muniategui-Lorenzo, P. López-Mahía, and D. Prada-
Rodríguez

1AAS_P036
Isolation and $^{14}$C analysis of humic-like substances (HULIS) from ambient aerosol samples M.
Vonwiller, G.A. Salazar Quintero, and S. Szidat

1AAS_P037
Climatology of aerosol organic fraction (EC/OC) at a mid-altitude rural background site in
Central Italy
S. Castellini, M. Galletti, B. Moroni, C. Petroselli, S. Crocchianti, and D. Cappelletti

1AAS_P038
The correction for positive sampling artifacts in ambient organic carbon measurements
I. Hwang and K. Na
1AAS_P039
Characterization of carbonaceous aerosol in Emilia-Romagna in the Supersito Project: Influences of the thermal-optical measurement protocols
V. Costa, D. Bacco, S. Castellazzi, I. Ricciardelli, C. Zigola, and M.C. Pietrogrande

1AAS_P040
Chemical characteristics and formation routes of humic-like substances in PM2.5
S.-C. Son, M.-S. Bae, and S. Park

1AAS_P041
Comparison of black carbon and EC-OC measurements at ACTRIS site Košetice-Křešín u Pacova
M. Vana and A. Holubová Šmejkalová

1AAS_P042
Carbonaceous particles speciation in PM10-PM2.5 collected in port cities

1AAS_P043
Temporal trend of HUmic Like Substances-Carbon (HULIS-C) concentrations and major factor determining their concentrations in Seoul, Korea

1AAS_P044
Source apportionment of the carbonaceous aerosols during winter at an urban background site of Vilnius (Lithuania)

1AAS_P045
Characterising organic carbon sources in the London area
E. Nicolosi, G.W. Fuller, and P. Quincey

1AAS_P046
$^{13}$C- and $^{14}$C-based sources apportionment of submicron carbonaceous aerosol particles in Vilnius, Lithuania
1AAS_P047
Fossil and non-fossil source contributions to atmospheric carbonaceous aerosols during grassland fires

1AAS_P048
Wintertime PM1 sources in Nicosia (Cyprus): Major influence of biomass burning from domestic heating
M. Pikridas, S. Kleanthous, N. Bonnaire, P. Chazette, K. Oikonomou, H. Merabet, N. Mihalopoulos, M. Vrekoussis, F. Dulac, and J. Sciare

1AAS_P049
Mapping the spatial variability of black carbon and fine particle concentrations in Londrina, Brazil, using bicycles as mobile sampling plataforms

1AAS_P050
Evaluation of the associations between airborne real-time concentrations of black carbon and fine particulate matter (PM2.5) in urban hotspots of South Korea
S. Yu, B. Kim, D. Yun, D. Lee, S. Lee, and S. Kim

1AAS_P051
Measurement of atmospheric elemental carbon concentrations for the past about 150 years using lake sediments
L. Husain, T. Ahmed, S. Sarkar, and V.A. Dutkiewicz

1AAS_P052
Black Carbon over the region of Paris (France): spatial distribution, sources, and trends

1AAS_P053
Retrieval of atmospheric trace elements concentrations using lake sediments for the past about 120 years: Impact of pollution control regulations
S. Sarkar and L. Husain
Session: Aerosol Chemistry

1ACH_P001
Solvent extraction of Molybdenum with D2EHPA under aerosol phase
A. Boucherit, H. Khalaf, E. Paredes, and J. L. Todoli

1ACH_P002
Investigation of metals in PM2.5 and coarse PM at typical urban environment in Hong Kong
S.Y.N. Jiang, F. Yang, K.L. Chan, and Z. Ning

1ACH_P003
Modelling of the non-radical aqueous phase chemistry of tropospherically relevant organic carbonyl compounds and acids
A. Tilgner, E.H. Hoffmann, L. Schöne, R. Wolke, and H. Herrmann

1ACH_P004
Evaporation of ammonium nitrate in coastal sites
M. Catrambone, A. Ianniello, S. Dalla Torre, E. Rantica, and T. Sargolini

1ACH_P005
Disposal of pollutants metal (\(\text{Cu}^{2+}, \text{Ni}^{2+}, \text{Cr}^{3+}, \text{Cd}^{2+}\) and \(\text{Cr}^{6+}\)) by Moroccan oil shale
S. Mansouri, M. Oumam A. Abourriche, and H. Hannache

1ACH_P006
Characteristics of PM2.5 carbonaceous aerosol using PILS-TOC and GC/MS-TD in two megacities, Rep. of Korea

1ACH_P007
On-line measurement of reactive oxygen species (ROS) in ambient air
J. Zhou, J. Dommen, M. Krapf, U. Baltensperger, R.J. Huang, Q.Y. Wang, H Y. Ni, and J.J. Cao

1ACH_P008
Relationship between c-PAHs concentration and elemental composition of urban size-segregated aerosol in winter
J. Bendl, J. Hovorka, and J. Topinka
The characteristics of high PM episodes occurred in spring 2014, Korea
H.J. Shin, S.M. Park, J.S. Park, I.H. Song, and Y.D. Hong

Characteristics of submicron particle during high concentration episodes in spring, 2014 at Seoul, Korea, using the aerosol mass spectrometer
H.J. Shin, J.S. Park, I.H. Song, S.M. Park and Y.D. Hong

Mechanism of aqueous phase guaiacol nitration relevant for atmospheric waters
A. Kroflič, M. Grilc, and I. Grgić

Regional contribution to PM1 pollution during winter haze in Yangtze River Delta, China
L.L. Tang, H.X. Yu, Y.J. Zhang, and A.J. Ding

Kinetics of in-direct and direct sulfation of limestone
S. Jeong and S.S. Kim

Suppression of aerosol reactivity towards ozone by organic aerosol matter
A.M. Batenburg, C. Gaston, J.A. Thornton, and A. Virtanen

Study of hygroscopic properties of four alkyl aminium sulphate salts using micro-Raman spectroscopy
Y. Chu, M. Sauerwein, and C.K. Chan

Reactivity of organic sulfur compounds deposited on the surface of sea salts: Influence of humidity and UV-Vis light
L. Juncal, A.L. Picone, S. Seng, M. Moreau, I. De Waele, R.M. Romano, Y. Tobón, and S. Sobanska

Photo-transformation of nitrate levitated particles and influence on their hygroscopic properties
S. Seng, Y. Tobón, L. Juncal, M. Moreau, and S. Sobanska
1ACH_P018
Moved to Poster Session 3

1ACH_P019
Aerosol mass spectrometry of biogenic aerosols in Amazonia during the dry season
R. Stern, J.F. Brito, S. Carbone, and P. Artaxo

1ACH_P020
Proteome analysis in ambient coarse and fine particles
F. Liu, C. Kampf, K. Reinmuth-Selzle, V.R. Després, and U. Pöschl

1ACH_P021
A one-year study on coarse mode aerosol cycling in the Amazonian rainforest

1ACH_P022
PM10 in a residential area of Naples (Southern Italy): chemical and microbiological characterisation
E. Chianese, G. Tirimberio, N. Piccolo, V. Pasquale, and A. Riccio

1ACH_P023
Seasonal variation of organic compounds in the ambient aerosols over Seoul, South Korea

1ACH_P024
Temporal variation of Potassium in PM2.5 aerosols and backward trajectory analysis at Central Delhi, India
S. Chandra, M.J. Kulshrestha, B. Kumar, and R. Singh

1ACH_P025
Seasonal variability in biomass and primary production in the Eastern Mediterranean Sea, determined by saccharidic tracers in atmospheric aerosols
C. Theodosi, C. Panagiotopoulos, A. Nouara, P. Zarpas, K. Violaki, and N. Mihalopoulos
Evolution of geochemical anomalies of arsenic in airborne particles from smelting activities: influence on air quality during the period 1999-2014
A.M. Sánchez de la Campa, D. Sánchez-Rodas R. Fernandez Camacho, Y. Gonzalez Catanedo, L. Alsioufi, V. Oliveira, and J.D. de la Rosa

Sb species as geochemical tracer of the industrial origin in atmospheric particulate matter
Y. González-Castanedo, D. Sanchez-Rodas, L. Alsioufi, A.M. Sánchez de la Campa, R. Fernández-Camacho, and J.D. de la Rosa

Sr-Nd isotope characterization of TSP during North Africa air mass outbreaks in SW Europe
A.M. Sánchez de la Campa, J. Rodríguez Aller, J. I. Gil Ibarguchi, R. Fernandez Camacho, Y. Gonzalez Catanedo, A. Stein, and J.D. de la Rosa

Source apportionment of PM10 during North African outbreak over SW of Europe
R. Fernández-Camacho, A.M. Sánchez de la Campa, J.D. de la Rosa Díaz, and A.F. Stein

Differences between workdays and weekends daytime O₃ concentrations at coastal site on the western part of Saudi Arabia

Cancelled

Analysis of taxi times effect on aircraft exhausts emissions
E. Pecorari, E. Innocente, C. Franceschini, D. Zannoni, S. Sollecito, D. Bassano, and G. Rampazzo

Improving the scavenging kernel of aerosol particles by small water drops
G. Cherrier, E. Belut, A. Tanière, N. Rimbert, and F. Gerardin
Session: Aerosol Modelling

1AMO_P001
Black carbon, particle number and NOx emission factors of in-use vehicles measured with the on-road chasing method
I. Ježek, T. Katrašnik, D. Westerdahl, and G. Močnik

1AMO_P002
Researches on the source profile of particulate matter in China
W. Zhang, X. Zhao, Z. Bai, W. Yang, Y. Liu, B. Han, and X. Wang

1AMO_P003
Sources and fate of aerosols from biomass domestic heating in Apulia Region

1AMO_P004
Trajectory based PM10 emission sensitivity experiments: Po Valley, Northern Italy
B. Arvani, R.B. Pierce, G. Ghermandi, and S. Teggi

1AMO_P005
Particulate matter (PM10) and nitrogen dioxide pollution zoning for regulatory purposes: Riga case study
I. Steinberga, J. Bikshe Jr, J. Kleperis, and A. Eindorfa

1AMO_P006
Analysis of taxi times effect on aircraft exhausts emissions
E. Pecorari, E. Innocente, C. Franceschini, D. Zannoni, S. Sollecito, D. Bassano, and G. Rampazzo

1AMO_P007
Improving the scavenging kernel of aerosol particles by small water drops
G. Cherrier, E. Belut, A. Tanière, N. Rimbert, and F. Gerardin
Aerosol in a coastal town in Central Italy: PM10 and PM2.5 analysis and forecast using a recursive neural network model
F. Biancofiore, M. Busilacchio, M. Verdeccchia, B. Tomassetti, E. Aruffo, S. Bianco, S. Di Tommaso, C. Colangeli, and P. Di Carlo

High pressure spray: experimental study on aerosol–droplets interaction and modeling
S. Morandi, A. Cavallari, A. Del Corno, F. Parozzi, L. Araneo, and F. Casella

PM10 levels and chemical composition over Apulia region (Southern Italy): application of FARM model

Elaboration of a combined method to characterize spatial representativeness of PM10 monitoring stations
B.P. Andreini, C. Collaveri, F. Giovannini, A. Barbaro, F. Calastrini, C. Busillo, and F. Gurnieri

Molecular corridor based approach for modelling secondary organic aerosols and its application in a regional air quality model
Y. Li, U. Pöschl, and M. Shiraiwa

Use of back-trajectory analysis with aircraft measurements to study trans-boundary advection of particulate matter in Southern Italy

Cancelled

Aerosol modelling with the global online NMMB/BSC Chemical Transport Model
1AMO_P016
First development to model aerosol emission from engineering materials subjected to mechanical stresses
N. Shandilya, M. Morgeneyer, and O. Le Bihan
Session: Aerosol-based Nanotechnology

1ANT_P001
Collection efficiency of different porous filter media for removing nanoparticles
A.C.C. Bortolassi, V.G. Guerra, and M.L. Aguiar

1ANT_P002
Achieving high yields of nanoparticles and suppressing “splashing” in high frequency sparks
J. Feng, G. Biskos, and A. Schmidt-Ott

1ANT_P003
Formation mechanism of Cu nanoparticles synthesized by photoreduction method
T. Aoki, M. Yonemura, and H. Tanaka

1ANT_P004
SCR catalyst based on Aerosol synthesized nanoparticles (CVC-TiO2) for low temperature SCR catalytic activity at pilot scale test
H.D. Jung, E.S. Park, M.S. Kim, S.T. Yun, and J. Jurmg

1ANT_P005
Macroporous Tungsten trioxide particles: Synthesis, characterization, and application in photocatalytic under visible light
T. Ogi, O. Arutanti, R. Balgis, and K. Okuyama

1ANT_P006
Multifunctional nanoparticles for targeted theranostics
F.H.L Starsich, M.C. Wurnig, G.A. Sotiriou, A. Boss, and S.E. Pratsinis

1ANT_P007
Investigation on the characteristic on Nylon-6 polymer nanofiber membrane
A. Sadighzadeh, A. Anvari, and A.R. Noorpoor

1ANT_P008
Application of aerosol technology for making reference materials of SiO2 nanoparticles immobilized on silicon substrate
A.A. Efimov, A.A. Lizunova, D.A. Mylnikov, V.S. Sukharev, and V.V. Ivanov

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1ANT_P009
Scattering of a plane monochromatic wave on bimetallic nanoparticles with geometrically different arrangement of the core and shell
Y.S. Burenok and L.A. Uvarova

1ANT_P010
High-speed fabrication of superhydrophobic nanocoatings by liquid flame spray
Session: Combustion Aerosol

1COA_P001
Affected atmospheric concentrations of Persistent Organic Pollutants (POPs) in biomass burning regions of Southeast Asia
Y.-Y. Lee, W.-J. Lee, L.-C. Wang, and G.-P. Chang-Chien

1COA_P002
Effects of bioalcohols in gasoline on PAHs and particle emission from a direct injection spark ignition engine
J. Štolcpartová, V. Beranek, M. Machala, M. Ciganek, and M. Vojtisek

1COA_P003
An analytical model of a gas-droplet jet with application to fuel sprays in internal combustion engines
J. Tenenbaum, M. Shapiro, and L. Tartakovsky

1COA_P004
Influence of biofuel oxygen content on particulate oxidative potential
F. Hedayat, A. Milic, S. Stevanovic, B. Miljevic, M.N. Nabi, S. Bottle, R. Brown, and Z.D. Ristovski

1COA_P005
Influence of water-containing acetone addition to diesel–biodiesel blend on PM, particulate carbon, PAHs, and NOx emissions of a diesel-generator
J.-H. Tsai, S.-J. Chen, W.-Y. Lin, K.-L. Huang, C.-C. Tsai, and C.-C. Lin

1COA_P006
Effects of the butanol-biodiesel and diesel blends fueled on carbonyl compounds emissions from a diesel engine

1COA_P007
An investigation of catalytic reaction mechanism of Ag Al₂O₃ for the decomposition of NOx in exhaust gases
R. Li, Q. Tang, S. Yin, and T. Sato
1COA_P008
Emission reductions of particulate matter and polycyclic aromatic hydrocarbons from a diesel engine fueled with green diesel blends
J.K. Mwangi, W.-J. Lee, J.-H. Tsai, and T.S. Wu

1COA_P009
Foot printing of particle number concentrations around signalised traffic intersections
A. Goel and P. Kumar

1COA_P010
Different types of non-volatile nanoparticles in off-road diesel engine exhaust

1COA_P011
The effect of transient operation on diesel particulate emission
A. Zare, T. Bodisco, Md. M. Rahman, Z. Ristovski, and R.J. Brown

1COA_P012
Overview of the LIFE BIOSEVILLE project and activities focused on particle emission reduction from bus fleet in Seville
C.C. Barrios, A. Domínguez-Sáez, P. Álvarez, G. Pinna, A. Urueña, and D. Díez

1COA_P013
Mixed fleet traffic particulate emission factors of EC, OC and trace metals by a tunnel study in Turkey
E.O. Gaga, A. Ari, M. Kara, J.C. Chow, J.G. Watson, and M. Odabasi

1COA_P014
Exhaust particles and NOx emission factors of a modern heavy duty truck equipped with the SCR in real-world driving conditions
S. Saari, P. Karjalainen, L. Pirjola, L. Ntziachristos, J. Keskinen, and T. Rönkkö

1COA_P015
Experimental investigation of diesel engine exhaust particle relevant to oxidation catalysts
L. Xinling and H. Zhen
1COA_P016
Moved to oral sub-session #43

1COA_P017
High peak concentrations of alveolar lung deposited surface area and particle number
during overflights before touchdown
M. Gregor, H. Gerwig, and K. Wirtz

1COA_P018
Moved to Poster Session 3

1COA_P019
How to measure vehicles particle emission rates under real driving conditions
F. Riccobono and B. Giechaskiel

43COA_O024
Energy and pollution improvement by hydrous short chain alcohol-diesel blends
S.-I. Shih, S.-L. Lin, J.H. Tsai, Y.-C. Lai, Y.-M. Kuo, and C.H. Tsai
Session: Electrical Effects

1ELE_P001
Electrospray generated synthesis of highly porous PLGA TIPS microspheres

1ELE_P002
The advanced studying of the electrization of the solid aerosol particles formed at the
destruction of metal bodies
A.B. Vatazhin, D.A. Golentsov, V.A. Likhter, and K.E. Ulibishev

1ELE_P003
Inactivation of Zygosaccharomyces rouxii in seawater using 2-rooms electrolytic treatment
T. Oku, M. Susuki, A. Zukeran, R. Wada, J. Sawai, T. Inui, and H. Toyama

1ELE_P004
Charging efficiency of a single-wire unipolar particle charger
V. Wattanamekhinkul, P. C. Wu, and C.J. Tsai

1ELE_P005
Unipolar diffusion charging characteristics of silver nanowires
W.G. Shin and M. Park

1ELE_P006
Modelling of nanofiber formation process by electrospinning
S. Daidai, H. Higashi, M. Kumita, T. Seto, and Y. Otani

1ELE_P007
Inactivation of Zygosaccharomyces rouxii in seawater by pulsed electric field
Y. Nakada, Y. Hirata, T. Oku, A. Zukeran, R. Wada, J. Sawai, T. Inui, and H. Toyama

1ELE_P008
Humidification effect on inactivation rate of Staphylococcus aureus by ozone generated in
corona discharge
A. Zukeran, T. Miura, T. Oku, R. Wada, and J. Sawai
Bactericidal effect of air ion and ozone generated by plasma discharge
Session: Fundamentals

1FUN_P001
Urban substrates: atmospheric particle-bound radionuclide traps? - The example of beryllium-7
P. Laguionie, D. Maro, P. Roupsard, L. Solier, M. Rozet, D. Hébert, M. Morillon, G. Pellerin,
and O. Connan

1FUN_P002
Conversion efficiency for alkalizing seawater in Mg-air electrode
H. Toyozumi, Y. Okuyama, A. Zukeran, T. Inui, H. Toyama, and Y. Ehara

1FUN_P003
Effective heat conductivity of fractal-like aerosol aggregates for aerosol dynamics applications
L.B. Kochneva, S.A. Beresnev, V.I. Gryazin, and M.S. Vasiljeva

1FUN_P004
Moved to Poster Session 2

1FUN_P005
Photophoretic motion of soot particles: about possibility of the quantitative theoretical
description
S.A. Beresnev, V.I. Gryazin, L.B. Kochneva, and M.S. Vasiljeva

1FUN_P006
Oxidative fragmentation of fractal-like aggregates: An algorithmic study
A.D. Melas, M. Kostoglou, L. Isella, Y. Drossinos, and A.G. Konstandopoulos

1FUN_P007
Investigation of the dynamics and sampling of airborne semi-volatile substances
Zimmermann

1FUN_P008
Temperature dependence of the stability of CeO\textsubscript{2}-nanoparticles in a premixed flame
N. Teuscher, W. Baumann, M. Hauser, I. Lang, and H.-R. Paur
1FUN_P009
The interactions of the exhaust ultrafine particle with the vehicle near-wake flow
A. Mehel and F. Murzyn

1FUN_P010
A new approach to compute the photophoretic motion of soot particles
V.I. Gryazin, S.A. Beresnev, L.B. Kochneva, and M.S. Vasiljeva

1FUN_P011
Cancelled

1FUN_P012
Synthesis and characterization of V2O5-impregnated TiO2 nanoparticles for antibacterial performance in visible light irradiation
M.Y. Song, E. S. Park, and J. Jurng

1FUN_P013
The rebound behaviour of open (Df < 2) and more closely packed (Df > 2) nanoparticle-agglomerates in the low pressure regime
M. Gensch and A.P. Weber
**Session: Inhalation, Exposures and Health**

1IEH_P001
Evaluation of the contribution of aerosols in the contamination of the environment in the Greater Casablanca and health impact
K. Hader, A. Nejjar, R. Belkadı, and A.M. El Khamlichi

1IEH_P002
Evaluation of mass-dependent toxicity of organic compounds extracted from size segregated urban aerosol

1IEH_P003
Intraperitoneal nebulization of local anesthetic to provide post-operative analgesia after gynecologic laparoscopic surgery
S. Scalia Catenacci, F. Loisari, M. Somaini, M. Allegri, M. Greco, A. Buda, D. Bugada, P.M. Ingelmo, and R. Fumagalli

1IEH_P004
New optical method for MMAD determination of the metered dose inhalators
S. Kugler, A. Kerekes, A. Nagy, I. Rigó, M. Veres, and A. Czitrovszky

1IEH_P005
Determination amount of impactor settled pharmacies with optical microscope methods

1IEH_P006
Evaluation of personal inhalable aerosol samplers with different filters for collecting surrogates of Bacillus Anthracis
S.A. Grinshpun, M. Yermakov, R. Indugula, T. Reponen, and A.M. Weber

1IEH_P007
Broadening the perspective on the airborne transmission of respiratory infection
The structure of bioaerosols in an urbanized area and the potential health risk in inhabitants of Silesia region.
M. Kowalski, J. Pastuszka, and M. Kowalska

Potential sources of airborne olive tree pollen in the eastern Iberian Peninsula
M. Varea, C. Chofre, R. Castañer, S. Caballero, N. Galindo, J. Gil-Moltó, J.F. Nicolás, C. Pastor, E. Yubero, and J. Crespo

Pla a 1 in the aerosol of Valladolid (Spain) and its implications on public health

Assessment of genotoxicity of PM: Echinogammarus veneris as bioindicator
M. Marcoccia, L. Ronci, and S. Canepari

Effect of airborne particulate pollution on calcium signaling in human pulmonary artery endothelial cells

Differential proteomic analysis of cellular responses to ship diesel combustion particles
T. Kanashova, R. Zimmermann, and G. Dittmar
Session: Indoor and Working Place Aerosol

1IND_P001
Investigation of the key factors that influence the loading capacity and filtration efficiency of the cabin air filters used in automobiles
X. He, B. Brem, and J. Wang

1IND_P002
Pattern of contaminant deposition on human body surrounded by porous clothing
M.K. Cho and J.W. Lee

1IND_P003
Aerosol and deposited particle measurements in Laser MegaJoule
I. Tavena Pecault and M. Pasquinelli

1IND_P004
Moved to oral sub-session #05

1IND_P005
Assessment of polybrominated diphenyl ethers exposure to human in the house environment S.I. Shih, H.R. Chao, Y.Y. Guo, M.C. Chuang, Y.M. Kuo, and C.H. Tsai

1IND_P006
Characteristics of bio-aerosol levels at childcare centers in various indoor and outdoor environments in Seoul, Korea
N.N. Jung, H.J. Oh, J.H. Yang, W.B. Ji, and J.Y. Sohn

1IND_P007
Exposure of people to PM10/PM2.5 during indoor physical working at a retrofitted commercial building
W.B. Ji, N.N. Jung, H.J. Oh, J.H. Yang, and J.Y. Sohn

1IND_P008
Rural and urban exposure to indoor air pollution from fuel combustion across Lucknow-Third most polluted city of India
A. Lawrence
PM2.5 in indoor air of a bakery: chemical characterization and application of a Computational Fluid Dynamics model

Moved to oral sub-session #19

Profile of particulate matter dispersion during preventive maintenance of MOCVD in the semiconductor Industry
H.H. Chan, C.P. Hung, Y.C. Tsao, and Y.H. Hwang

Profiling time varying aerosol sources from distant measurements
F. Chata, E. Belut, F.X. Keller, and A. Tanière

Variation of particle decay rate for the number of operating air cleaners and barrier locations in a room
K.C. Noh and B. Soh

Particulate matter analysis in the public transport microenvironment of Pakistan and England
Session: Instrumentation

1INS_P001
A new inversion algorithm for the Differential Mobility Particle Sizer
B. Mølgaard, J. Vanhatalo, P. Aalto, N.L. Prisle, and K. Hämeri

1INS_P002
Numerical analysis of the aerosol inlet-to-outlet flow rate ratio upon DMA resolution
M.A. Lobato, P. Dohányosová, S. López-Vidal, and I.G. Loscertales

1INS_P003
Isotopic approach for sources deconvolution of atmospheric NH$_4$NO$_3$
A. Barbero, N. Caillon, J. Erbland, O. Favez, B. Golly, J.-L. Jaffrezo, and J. Savarino

1INS_P004
Characterization of a piezoelectric inkjet aerosol generator for bioaerosol survivability study
Y.M. Kuo, T.H. Kuo, S.H. Huang, C.W. Lin, W.J. Wu, and C.C. Chen

1INS_P005
Quantitative and simultaneous determination of the surface tension and viscosity of airborne microdroplets
B.R. Bzdek, R.M. Power, and J.P. Reid

1INS_P006
Evaluation of the impact of sulfur poisoning on catalytic stripper technology
J.J. Swanson, H.-J. Schulz, and A.M. Boies

1INS_P007
PM turbulent fluxes by eddy covariance techniques measured in an urban environment with a high frequency micro-balance
A. Riccio, E. Chianese, G. Tirimberio, R. Battaglia, G. Ferrini, and M. Mauro

1INS_P008
Statistical evaluation of PM2.5 chemical composition measurements using near real-time monitoring at Seoul supersite in Korea
K.J. Moon, S.M. Park, J.S. Park, I.H. Song, Y.D. Hong, J.S. Han, and S.Y. Cho
Investigation of artifacts during filtration efficiency measurement
P. Sachinidou and J. Wang

Generation of neutral calibration clusters
G. Steiner, A. Franchin, J. Kangasluoma, M. Rissanen, T. Petäjä, and M. Kulmala

Transmission measurement of the high flow and high resolution Hermann-type DMA in the sub 2 nm range
M. Attoui, J. Kangasluoma, F. Korhonen, E. Siivola, M. Kulamla, and T. Petäjä

First experiences and results implementing ISO 27891 for CPC calibration
H.-G. Horn

A novel instrument for ground-based measurement of aerosol and trace gas using ultraviolet-visible (UV-VIS) continuum spectra
H. Wang, Y. Wang, and E. Shi

Field measurements with a portable device for wide range aerosol size distributions
A. Edfelder, M. Pesch, M. Richter, F. Tettich, and V. Ziegler

Moved to oral sub-session #46

Laser scattering for in situ monitoring of aerosol particles and growth of nanowires by Aerotaxy
M.H. Magnusson, P. Samuelsson, Z.S. Li, W. Metaferia, F.F. Yang, B.O. Meuller, M.E. Messing, and K. Deppert
1INS_P017
Development and field evaluation of a multiple slit nozzle-based high volume PM2.5 impactor assembly (HVIA)
A. Kumar and T. Gupta

1INS_P018
Development of an aerosol generation technique for continuously produced carbon nanotube aerosols containing a large fraction of individual fibers
B.K. Dettlaff, D. Wenzlaff, A. Meyer-Plath, and S. Plitzko

1INS_P019
Development of a “Deposition Box” for sampling Total Suspended Particles on not-filter substrates and to perform exposure studies for decay of materials

1INS_P020
Possible influence of vibrations during cycling on variability of DiSCmini
H. Gerwig and K. Wirtz

1INS_P021
New portable ice nuclei counter SPIN: Key specifications and one approach for distinction between observed liquid droplets and ice crystals
K.Korhonen, M.Komppula, K.E.J. Lehtinen, and A.Virtanen

1INS_P022
Elemental chemical analysis of particulate matter collected on filters by means of Total Reflection X-Ray Fluorescence Spectroscopy
L. Borgese, A. Zacco, E. Bontempi, M. Zonca, and L.E. Depero
Session: PMx

1PMX_P001
Characterization of fine and coarse particulate matter and Polycyclic Aromatic Hydrocarbons at urban and rural location in Agra, India
J. Masih, A.S. Uzgare, and A. Taneja

1PMX_P002
Size segregated particle-bound polycyclic aromatic compounds in a road tunnel
C.A. Alves, A.M.P. Vicente, J. Gomes, T. Nunes, M. Duarte, and B.A.M. Bandowe

1PMX_P003
AIRUSE LIFE+: Size segregated chemical patterns of PMx in Barcelona, NE Spain
A. Karanasiou, P. Sanderson, F. Amato, A. Alastuey, X. Querol, J.M. Delgado-Saborit, and R.M. Harrison

1PMX_P004
AIRUSE-LIFE+: Are industrial emissions inventories accurate enough to develop air quality plans?
E. Monfort, V. Sanfelix, I. Celades, S. Gomar, X. Querol, F. Amato, and A. Karanasiou

1PMX_P005
Organic characterization of PM2.5 in the Emilia-Romagna region (I)
S. Ferrari, F. Scotto, D. Bacco, I. Ricciardelli, A. Trentini, M.C. Pietrogrande, M. Visentin, P. Ugolini, T. D'Alessandro, and V. Poluzzi

1PMX_P006
Investigation of airflow velocity and particle concentration distributions under the subway train
S.H. Woo, J.B. Kim, K.H. Kim, G.N. Bae, S.J. Yook, H.K. Park, and H.H. Yoon

1PMX_P007
Cancelled

1PMX_P008
Spatial patterns of PM10 at multiple air monitoring sites in Queensland, Australia
J.P. Brady and G.A. Ayoko
1PMX_P009
Researches on atmospheric single particle characteristics during haze periods in October, 2014 in Beijing, China
W. Zhang, L. Liu, Z. Bai, R. Zhang, B. Han, and W. Yang

1PMX_P010
Stereoscopic and chemical characteristics of single particles by the dual focused-ion beam/SEM/EDX

1PMX_P011
Characterization of traffic-related PM emissions in a roadway tunnel in Birmingham, UK

1PMX_P012
Concentration and composition gradients of exhaust and non-exhaust particles near a major road

1PMX_P013
Reconciliation of PM mass values obtained from gravimetric measurements, chemical determinations and optical counter data in the metro system of Rome, Italy
F. Marcovecchio, S. Canepari, and C. Perrino

1PMX_P014
PM2.5 source profiles for traffic and dust sources in Raipur, India
S. Pervez, J.L. Matawle, S. Dewangan, A. Shrivastava, S. Tiwari, and P. Pant

1PMX_P015
Chemical composition of submicron aerosols at a regional background site in the western Mediterranean basin
N. Galindo, E. Yubero, J.F. Nicolás, M. Varea, R. Castañer, S. Caballero, J. Gil-Moltó, C. Pastor, and J. Crespo

1PMX_P016
Temporal evolution of organic markers from residential wood combustion appliances
1PMX_P017
Size-fractionated distribution characteristics of ionic constituents in urban atmospheric aerosols, Busan, Korea
G.H. Park, E.-C. Yoo, and B.K. Lee

1PMX_P018
Factors driving intra-day variation of submicron aerosols in Barcelona
M.C. Minguillón, A. Ripoll, C. Reche, X. Querol, and A. Alastuey

1PMX_P019
PART’AERA: Comparison of PM10 emission sources and measurement methods on both sides of the Alps
A. Bruno, A. Giordano, M. Pellerano, A. Armengaud, and J.L. Jaffrezo

1PMX_P020
One year monitoring of PAHs, nitro-PAHs and oxy-PAHs in Grenoble (France): seasonal variability, gas/particle partitioning, source and cancer risk estimation
S. Tomaz, N. Nuttens, N. Guillaumet, J.-L. Jaffrezo, O. Favez, E. Perraudin, E. Villenave, and A. Albinet

1PMX_P021
Particulate measurements in the mangrove ecosystem of the Sundarbans for the period 2006-2007
I. Mukherjee and T. Chakraborty

1PMX_P022
Air Pollution at a coastal city of the Northern Aegean Sea
SPECIAL SESSION: Polar Aerosol

1SPA_P001
Moved to oral sub-session #07

1SPA_P002
Long-term comparison of thermal-optical transmittance elemental carbon and optical black carbon in the Arctic
P.K. Hopke and Y. Zhang

1SPA_P003
Arctic aerosol-cloud interactions during ASCOS
R.G. Stevens, A.A. Hill, B.J. Shipway, P.R. Field, and K.S. Carslaw

1SPA_P004
Source apportionment by PMF and source area identification of Arctic aerosol sampled at Ny Alesund (Svalbard Islands – Norway)

1SPA_P005
Moon-photometric aerosol optical depth measurements during polar night
M. Mazzola, V. Vitale, A. Lupi, R. S. Stone, C. Wehrli, N. Kouremeti, and K. Stebel

1SPA_P006
Aerosol optical properties during iAREA campaign (Spitsbergen, 2014).

1SPA_P007
PMF application to size distribution data collected at an Arctic site
E. Venturini, I. Vassura, R. Traversi, S. Becagli, and R. Udisti

1SPA_P008
Aerosol measurements at South Pole: Impact of local contamination events
P.J. Sheridan, L.N. Schmeisser, and J.A. Ogren
1SPA_P009
Observation of ultrafine particles size distribution at two different heights in an Arctic site

1SPA_P010
Determination of size-segregated aerosol mass concentration at Terra Nova Bay (Ross Sea, Antarctica)
S. Illuminati, A. Annibaldi, G. Libani, C. Mantini, C. Truzzi, and G. Scarponi

1SPA_P011
Clouds observations with newly developed high resolution FMCW cloud profiling radar FALCON-A in arctic station
SPECIAL SESSION: Atmospheric Aerosol Characterization, Sources, Sinks and Climate Interactions at the Subarctic and Boreal Eurasian Region. The Pan Eurasian EXperiment research project, PEEX

1SPX_P001
Comparison of organic/elemental carbon and total protein concentrations in atmospheric aerosol of Southwestern Siberia during intense forest fires and in their absence

1SPX_P002
Nocturnal ion events: 11 years of night-time ion activity in Hyytiälä, Finland
S. Buenrostro Mazon, H.E. Manninen, J. Kontkanen, T. Nieminen, V.-M. Kerminen, and M. Kulmala

1SPX_P003
PM2.5 in the surface air of Moscow and its relation to meteorology and atmospheric optical thickness
A.I. Skorokhod, D.P. Gubanova, I.B. Belikov, and N.E. Chubarova

1SPX_P004
Seasonal and temporal variations of ultrafine particle concentration in urban Leicester
S.M.L. Hama, P.S. Monks, and R.L. Cordell

1SPX_P005
On the natural ionising capacity in the lower atmosphere
X. Chen, V.-M. Kerminen, J. Paatero, H. E. Manninen, T. Petäjä, and M. Kulmala

1SPX_P006
Characterization of SOA types and sources by clustering of air pollution events
M. Äijälä, M. Ehn, H. Junninen, F. Canonaco, R. Fröhlich, T. Petäjä, M. Kulmala, and D. Worsnop

1SPX_P007
Global simulations of BVOC-aerosol-climate feedbacks
Aircraft-borne measurements over Southern Finland during PEGASOS 2013

Aging of biomass burning aerosol after long-range transport from large scale wildfires in the PEEX region
K. Eleftheriadis, E. Diapouli, S. Vratolis, and O. Popovicheva

Regional emission inventory of Lombardy for 2012, particulate and micro pollutants estimates
A. Marongiu, G. Fossati, M. Moretti, and E. Angelino

Last minute posters

Elemental Analysis of Semiconductor Gases using a Gas Exchange Device Coupled to High Sensitivity ICP-MS
T. Vincent, K. Nishiguchi, K. Utani, J.D. Wills, and L. Rottmann

Effective “near reference” air quality analyses with smart sensors for measurement of PM10, O3, NO2 and NOx
R. Boarelli and B. Vazquez

Autooxidation reactions of volatile organic compounds
D. Pitton and T. Hoffmann
Tuesday, September 08, 2015

16:00 - 18:00
Poster Session 2
Room: Poster Hall

Session: Atmospheric Aerosol - Aerosol Processes and Properties

2AAP_P052
Evaluation of the Cavity Attenuated Phase Shift Single Scattering Albedo Monitor CAPS PMssa
A. Petzold, U. Bundke, J. Perim de Faria, T. B. Onasch, P. Kebabian, and A. Freedman

2AAP_P053
Statistical analysis of aerosols optical properties and backward trajectories to find possible aerosol source regions
A. Pietruczuk and A. Szkop

2AAP_P054
Morphology and optical properties of mixed aerosol particles
M. Fard, U. Krieger, Y. Rudich, C. Marcolli, and T. Peter

2AAP_P055
Retrieval of broadband aerosol optical depth from Linke-Feussner actinometer long-term observation at Mt. Kasperowy Wierch (Poland)
K.M. Markowicz and J. Uscka-Kowalkowska

2AAP_P056
Seasonal variations of AOD and Angstroem Exponent over the Baltic Sea based on the AERONET measurements
T. Zielinski, A. Strzalkowska, T. Petelski, P. Makuch, A. Smirnov, and V. Ulevicius
2AAP_P057
Ground based analysis of aerosol optical properties and their radiative effects over selected regions in Indian subcontinent
K. Taneja, V.K. Soni, S.D. Attri, K. Ahmad, and S. Ahmad

2AAP_P058
Optical properties of light absorbing carbon from wood burning emissions

2AAP_P059
Atomistic calculations of the mass absorption cross sections of carbonaceous nanoparticles modelling soot
C. Garcia-Fernandez, S. Picaud, and M. Devel

2AAP_P060
Aerosol optical properties at Uccle (Belgium) and in particular during a 2014 smog period
V. De Bock, A. Mangold, and H. De Backer

2AAP_P061
Sensitivity of the single scattering albedo to the size spectrum of absorbing substance
S.A. Terpugova, M.V. Panchenko, V.S. Kozlov, and V.V. Polkin

2AAP_P062
Effect of biomass burning and dust on the spectral dependency of aerosol light absorption

2AAP_P063
Carbonaceous aerosol AAE at a high altitude location in the Mediterranean coast
R. Castañer, M. Pandolfi, M. Ealo, S. Caballero, N. Galindo, J. Gil-Moltó, J.F. Nicolás, C. Pastor, M. Varea, E. Yubero, A. Alastuey, and J. Crespo

2AAP_P064
Intensive optical properties of continental and regional background aerosols in the Western Mediterranean during Saharan dust outbreaks and biomass burning events
M. Ealo, A. Alastuey, A. Ripoll, N. Pérez, M.C. Minguillón, X. Querol, and M. Pandolfi
Determining the angular correction for the TSI 3563 Integrating Nephelometer: results from observed sub- and super- micron size distributions, Mie and T-matrix Codes

The effect of aerosol representation on calculated aerosol extinction: size-resolved vs. bulk-mass EMEP/MSC-W model
S. Tsyro, M. Karl, and J.J. Griesfeller

Measurement of particle optical properties using the CAPS PMssa monitor
T. Onasch, A. Lambe, P. Massoli, P. Kebabian, and A. Freedman

Aerosol optical properties from an urban site in the Indo-Gangetic Plain: Temporal variability
K. Ram, S. Singh, M.M. Sarin, and S.N. Tripathi

Four years of aerosol absorption coefficient measurements at Mt. Cimone: study of processes affecting their variability
D. Putero, A. Marinoni, P. Cristofanelli, M. Busetto, R. Duchi, T.C. Landi, F. Calzolari, G. Mocnik, and P. Bonasoni

Visibility as a proxy for long term particulate pollution in Greece
D. Founda, M. Lianou, E. Gerasopoulos, S. Kazadzis, and N. Mihalopoulos

Optical properties of molecular clusters consisting of sulfuric acid and bases
J. Elm, P. Norman, M. Bilde, and K.V. Mikkelsen

Retrieval of complex index of refraction of mineral aerosol from the ultraviolet to the thermal infrared
P. Hubert, H. Herbin, O. Pujol, N. Visez, and D. Petitprez
Light absorption properties of laboratory generated tar ball particles
Á. Tóth, A. Hoffer, I. Nyirő-Kósa, M. Pósfai, and A. Gelencsér

Seasonal variation of aerosol properties from columnar observations over a remote background station at 1574 m a.s.l.
Y. Sola and J. Lorente

Retrieval of asymmetry factor of scattering phase function from scattering and extinction measurements
M.A. Sviridenkov

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P. Fetfatzis, A. Argyrouli, J. Vande Hey, M. Komppula, S. Vratolis, A. Papayannis, and K. Eleftheriadis

Probing the microphysics and optics of diesel soot particles by measuring single particle scattering and mass

Optical absorption measurement experiences in urban environment
A. Nagy, A. Czitrovszky, A. Kerekes, and W.W. Szymanski

Light absorption by aerosol particles in Amazonia

Vertical profiles of aerosol properties from 3-wavelength elastic lidar signals and collocated sun/sky photometer measurements
M.R. Perrone and P. Burlizzi
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Meteorological, atmospheric and climatic perturbations during major dust storms over Indo-
Gangetic basin
S. Kumar and A.K. Singh

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Comparison of NASA/MAN and MODIS obtained AODs over the Baltic Sea
A. Strzalkowska, T. Zielinski, T. Petelski, and P. Makuch

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Combined Lidar and Ceilometer networks for aerosol monitoring
W. Thomas, H. Flentje, I. Mattis, G. Mueller, and F. Wagner

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A scanning lidar for plume detection, identification and tracking
Y. Zheng, S. Mathur, A. Slagel, and E. De Marco

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Effect of humidity on formation of the aerosol vertical structure in the atmospheric boundary
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G.P. Kokhanenko and S.A. Terpugova

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PM2.5 and PM10 monitoring by satellite remote sensing and in-situ data in urban areas in
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M. Zoran, R. Savastru, and D. Savastru

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SEVIRI based aerosol optical depth retrieval
S. Nevens, N. Clerbaux, A. Velazquez Blazquez, E. Baudrez, S. Dewitte, A. Ipe, and M.
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Determination of aerosol properties using MAX-DOAS and radiative transfer modelling
J.D. Halla, T. Wagner, S. Beirle, and R. McLaren
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Biomass burning aerosols characterization using mass spectrometry and depolarization lidar
J. Vasilescu, L. Marmureanu, L. Belegante, A. Nemuc, and D. Nicolae

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LOCAL AIR project: LOCAL Aerosol monitoring combining In-situ and Remote sensing observations
V. Sarli, S. Trippetta, V. Giannini, N. Papagiannopoulos, R. Caggiano, A. Donvito, and L. Mona

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Validation of MODIS aerosol products at level 3 over different coastal sites in the Mediterranean
M.A. Pesántez, S. Segura, V. Estellés, M.P. Utrillas, and J.A. Martínez-Lozano

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Atmospheric circulation patterns and Sahara-dust transport pathways over Greece
D.G. Kaskaoutis, H.D. Kambezidis, and B.E. Psiloglou

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iSPEX-EU 2015: A European-wide citizen science campaign for the measurement of aerosols with Smartphones
E. Hendriks and F. Snik, representing the iSPEX team

2AAP_P094
Aerosol typing – key information from aerosol satellite measurements
L. Mona, R. Kahn, N. Papagiannopoulos, G. Pappalardo, and T. Holzer-Popp

2AAP_P095
Multiwavelength lidar study of biomass burning aerosol layers in West Siberia
S.V. Samoilova, Yu.S. Balin, G.P. Kokhanenko, and I.E. Penner

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Characterization of mineral dust in the Asian region by means of an innovative multiwavelength polarization LIDAR system
A. Sannino, A. Boselli, C. Song, N. Spinelli, X. Wang, and Y. Zhao
2AAP_P097
Study of the impact of mineral dust on the solar irradiance using ground-based remote sensors
F. Madonna, F. Amato, and M. Rosoldi

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Multi-scale monitoring of anthropogenic effects on air quality and climate change in Lombardy region (SINOPIAE project)
W. Di Nicolantonio, E. Bolzacchini, M. Bresciani, A. Cacciari, L. Cazzaniga, L. Ferrero, R. Gianfreda, and G. Ober

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Ground- and ship-based measurements of refractory Black Carbon
T. Miyakawa, F. Taketani, X. Pan, Y. Komazaki, and Y. Kanaya

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Significant effect of meteorological parameters in Alaknanda Valley at Srinagar, Garhwal Himalaya Uttarakhand
A.S. Gautam and R.S. Negi

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Size-resolved eddy covariance fluxes of nucleation to accumulation mode aerosol particles over a coniferous forest
M.J. Deventer, A. Held, T. El-Madany, and O. Klemm
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G. Balakrishna and S. Pervez

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Characterization of carbon isotopes in PM2.5 at Fukuoka city located in the western part of Japan  
F. Ikemori, A. Soda, H. Higo, M. Kinoshita, D. Nakajima, N. Kaneyasu, M. Minami, and T. Nakamura

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Environmental impact assessment of high efficiency pellet boilers  
M. Chiesa, G. Maffeis, S. Greco, B. Monteleone, A. Cherubini, and M.L. Venuta

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Ultrafine particles and Black Carbon at an urban area in South-eastern Spain  

2AAS_P052  
Residential wood combustion: time-resolved particle size distribution and morphological features  
A.I. Calvo, C. Alves, E. Coz, M. Duarte, T. Nunes, L. Tarelho, A. Castro, and R. Fraile

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PAHs and n-alkanes in PM1 collected near the busy highway A57 of Mestre (Italy)  

2AAS_P054  
Characterization of fine particles’ chemical composition at the Demokritos suburban background station, in Athens Greece. The influence of Saharan dust  

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Sources and diurnal cycles of Black Carbon (BC) concentrations at urban and rural sites in Spain  
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Impact of ship emissions and harbour activities on gas pollutants and size segregated particles concentrations
A. Donateo, D. Contini, D. Cesari, E. Merico, A. Dinoi, and F.M. Grasso

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Fatty acids and other oxygenated compounds in particulate matter from cooking emissions
A.M. Vicente, S. Rocha, M. Duarte, T. Nunes, and C.A. Alves

2AAS_P058
Multiplexing detection of 13 pathogens from human exhaled breath and throat swabs by Loop Mediated Isothermal Amplification (LAMP)
Y. Zheng, X. Li, J. Xu, and M. Yao

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Bioaerosol emissions and detection of airborne antibiotic resistance genes from a wastewater treatment plant
J. Li, L. Zhou, X. Zhang, C. Xu, L. Dong, and M. Yao

2AAS_P060
Rapid destruction of Ricin by nanosecond pulsed electric fields
K. Wei, W. Li, S. Gao, J. Wang, J. Zhang, and M. Yao

2AAS_P061
Miniaturized set-up for generation and sampling of pathogenic Legionella Pneumophila containing shower bioaerosols
B. Kiwull, A. Wunderlich, R. Niessner, and M. Seidel

2AAS_P062
Evaluation of five sampling techniques for quantifying bacterial and fungal aerosols
C.W. Chang and C.J. Yang

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Complexes of microscopic fungi in atmospheric aerosols of Southwestern Siberia at the altitudes of 500 - 7000 m in 2014
Characterization of airborne microbes and particulate matter in museum environments
E. Katsivela, M. Lazaridis, I. Kopanakis, L. Raisi, and G. Panagiaris

Real-time characterization of bioaerosol collection efficiencies of SKC BioSampler using UV-APS
Y. Zheng, C.-y. Wu, and M. Yao

Field evaluation of sampling bias with plastic Petri dishes for size-fractionated bioaerosol sampling
Y.-M. Kuo and H.-C. Hsieh

Emission and dispersal of bioaerosol from a sediment biotreatment plant
V. Bertolini, I. Gandolfi, R. Ambrosini, G. Bestetti, M. Papacchini, and A. Franzetti

Influence of PM chemical composition and meteorological condition on airborne bacteria
E. Innocente, G. Rampazzo, S. Squizzato, F. Visin, V. Bertolini, A. Franzetti, I. Gandolfi, and G. Bestetti

Free and combined amino acids in ultrafine, fine and, coarse airborne particles
D. Pomata, P. Di Filippo, C. Riccardi, F. Buiarelli, V. Gallo, and C.A. Quaranta

Fine bioaerosols in outdoor air – characterization and associations with chemical co-pollutants in urban and rural airsheds
P.M. Nathan, A.H. Rickard, and J.T. Dvonch

Ship aerosol in the central Mediterranean Sea from measurements of PM10 chemical composition at Lampedusa (35.5°N, 12.6° E) and Capo Granitola (36.6°N, 12.6° E)
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Influence of marine sources on PM10 levels and composition in the northern coast of France
C. Roche, M. Borgie, F. Ledoux, D. Dewaële, F. Cazier, T. Delaunay, O. Favez, and D. Courcot

2AAS_P073
Latitude/season-dependent source contributions of marine boundary layer aerosols over the
Atlantic Ocean
S. Huang, L. Poulain, Z. J. Wu, W. Birmili, H. Herrmann, and A. Wiedensohler

2AAS_P074
The POAEMM project: prediction of marine aerosol concentration in coastal area
G. Tedeschi, J. Piazzola, L. Gardenal, and V. Pourret

2AAS_P075
Aerosol size distribution in the European Arctic and Baltic Sea regions – Comparison of
measurement results
P. Markuszewski, T. Petelski, T. Zieliński, J. Piskozub, P. Pakszys, P. Makuch, A. Strzałkowska,
and D. Gutowska

2AAS_P076
Organic compounds in the air of the Mediterranean Sea: the 2013 cruise of Urania
P. Romagnoli, C. Balducci, M. Perilli, E. Perreca, and A. Cecinato

2AAS_P077
Sea salt aerosol at Lampedusa: size distribution, contribution to PMx, optical properties and
aging processes
M. Marconi, S. Becagli, C. Bommarito, A. di Sarra, D. Frasini, D. Meloni, G. Pace, M. Severi,
D.M. Sferlazzo, R. Traversi, and R. Udisti

2AAS_P078
Chemical characterization of polar marine aerosol in summer (Arctic Glacial Sea, 2011-2012
AREX oceanographic campaigns)
G. Sangiorgi, M.G. Perrone, L. Ferrero, G. Rovelli, F. Marazzi, A. Molinelli, M. Casati, L.
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2AAS_P079
Single particle chemical composition of natural dusts and its link to ice nucleation

2AAS_P080
Cloud condensation nucleation activities of calcium carbonate and its atmospheric ageing products

2AAS_P081
Direct radiative effect of an intense Mediterranean desert dust outbreak, based on NMMB/BSC-Dust model simulations: the case of 2 August 2012
A. Gkikas, V. Obiso, S. Basart, O. Jorba, C. Pérez García-Pando, N. Hatzianastassiou, S. Gassó, and J.M. Baldasano

2AAS_P082
Modelling mineral dust emission over North Africa and Middle East using high-resolution surface properties from satellite retrievals
S. Basart, O. Jorba, C. Pérez García-Pando, C. Pringet, and J.M. Baldasano

2AAS_P083
Spectral responses of two component organo-clay complexes

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Dispersion of TSP and PM10 Emissions from Quarries in complex terrain
D.L. Tartakovsky, E. Stern, and D.M. Broday

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Determination of road dust loadings and chemical composition using in situ and laboratory resuspension experiments
C.A. Alves, P.M.A. Silva, T. Nunes, M. Duarte, X. Querol, and F. Amato
2AAS_P087
Mineral dust and heavy metal deposition on glaciers in the Northern Pamir and Central Tien Shan
J. Schmale, S. Kang, Q. Zhang, R. Peltier, M. Sprenger, Y. Li, and J. Guo

2AAS_P088
Does increasing horizontal resolution produce better dust predictions? Evaluation of the NMMB/BSC-Dust model for Northern Africa, Middle East and Europe
L. Vendrell, S. Basart, J.M. Baldasano, and O. Jorba

2AAS_P089
Influence of Saharan dust transport events on PM composition in Veneto region (Italy)
S. Squizzato, S. Doglioni, M. Masiol, E. Innocente, F. Visin, G. Formenton, E. Molinaroli, and G. Rampazzo

2AAS_P090
Near real time detection of dust events over South Italy: a new tool
M. Busetto, P. Cristofanelli, A. Lupi, T.C. Landi, R. Duchi, C.R. Calidonna, D. Contini, A. Marinoni, F. Calzolari, and P. Bonasoni

2AAS_P091
Single particle characterization of a snow pit at northwest Greenland

2AAS_P092
Characteristics of carbonaceous PM2.5 at an urban area (Daejeon, Korea, 2012)
H. Kim, J. Jung, J. Lee, and S. Lee

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Real-time detection of bacterial bioaerosols using microfluidic-based flow cytometry platform
M. Kang, J. Choi, and J.H. Jung
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2ACH_P032
Fluorescence microscopy analysis advantages while characterizing Heterogeneous aerosol from biomass burning
P. Garra, S. Kohler, A. Dieterlen, and G. Trouvé

2ACH_P033
Improvement of aerosol counterflow two-jets unit for continuous measurement of water soluble components of atmospheric aerosols
P. Mikuška, A. Kořinková, and Z. Večeřa

2ACH_P034
Validation study of a simple agitation/sonication extraction method to determine selected PACs in PM by HPLC
S. García-Alonso, R.M. Pérez-Pastor, V. Archilla-Prat, J. Rodríguez-Maroto, M. Izquierdo-Díaz, E. Rojas, and D. Sanz

2ACH_P035
Comparison of bulk and imaging-based analysis of aerosol particles, collected at the Sonnblick Observatory in Austria: First attempts towards image based quantification

2ACH_P036
Evaluation of PAH and Black Carbon automatic analyzers in a coke oven plant

2ACH_P037
Optimization of the LAMPAS 3 laser mass spectrometer for improved on-line single particle analysis
K.-P. Hinz, C. Barth, and B. Spengler

2ACH_P038
Organic composition of PM2.5 in a suburban location in Turkey
A. Ari, E.O. Gaga, and P. Erturk
2ACH_P039
Inorganic constituents of PM2.5 aerosols in a suburban location in Turkey
E.O. Gaga, A. Ari, P. Erturk, and N. Polat

2ACH_P040
Real-time chemical analysis of semi-volatile submicron particulate matter
P. Eichler, M. Müller, B. D’Anna, and A. Wisthaler

2ACH_P041
Chemical composition of particles generated by a domestic wood heating appliance with environmental high performance
V. Tschamber, G. Leyssens, G. Trouvé, C. Le-Dreff, J.L. Jaffrezo, F. Cazier, S. Labbé, and S. Kohler

2ACH_P042
Source apportionment and toxicity evaluation of particle sized primary and secondary organic compounds in urban and rural atmospheres
B.L. van Drooge, S. Mesquita, M. Casado, B. Piña, and J.O. Grimalt

2ACH_P043
Daily modulation of PAHs in the atmosphere
A. Febo, C. Balducci, P. Romagnoli, A. Cecinato, S. Iacobellis, and C. Tortorella

2ACH_P044
Chemical nature of size segregated water soluble organic aerosols and their nitro-aromatic constituents
S. Frka, M. Šala, J. Turšič, and I. Grgić

2ACH_P045
Comparison of organic compounds in exhaust emissions from gasoline cars powered by gasoline and alcohol-gasoline blends under different driving cycles
P. Mikuška, K. Krůmal, P. Coufalík, Z. Večeřa, and M. Vojtíšek

2ACH_P046
Determination and characterization of water in size-segregated PM samples
G. Simonetti, C. Farao, S. Canepari, and C. Perrino
2ACH_P047
Characterization of atmospheric ions at the high altitude station Jungfraujoch (Switzerland)

2ACH_P048
Seasonal characteristics of PM2.5 mass closure in urban environment, Busan, Korea
G.-H. Park, E.-C. Yoo, and B.-K. Lee

2ACH_P049
Real-time analysis of wood combustion by-products from a masonry heater: Molecular patterns during different burning stages

2ACH_P050
Molecular characterization of atmospheric organic aerosols in PM2.5 at an urban and a rural site in Northern India
R. Singh and M.J. Kulshrestha

2ACH_P051
Formation of highly-oxidized organic compounds from isoprene and α-pinene under low and high NOx concentrations in the CLOUD chamber at CERN

2ACH_P052
Secondary organic aerosol formation during aqueous phase processing in the CLOUD chamber at CERN

2ACH_P053
Evaluation of models for size-segregated gas-particle partitioning of polycyclic aromatic hydrocarbons in continental air in Europe
G. Lammel, P. Shahpoury, A. Holubová Šmejkalová, J. Klánová, L. Landlová, P. Přibylová, and M. Váňa
2ACH_P054
Condensation properties of low volatile α-pinene oxidation products at the CLOUD experiment
M. Heinritzi, M. Simon, M. Breitenlechner, J. Tröstl, A.-K. Bernhammer, A. Kürten, A. Hansel,
J. Kirkby, J. Curtius, and the CLOUD collaboration

2ACH_P055
A new source of methyl glyoxal in the aqueous phase
M. Rodigast, A. Mutzel, Y. Iinuma, O. Böge, and H. Herrmann

2ACH_P056
The difference between particle- and gas-phase reactions of Fluoranthene and Pyrene with
N₂O₅/NO₃/NO₂
B. Yang, P. Zhang, and J.N. Shu

2ACH_P057
Multiphase chemical kinetics of OH radical uptake by molecular organic markers of biomass
burning aerosols: Humidity and temperature dependence, surface reaction and bulk diffusion

2ACH_P058
Heterogeneous reaction of HO₂ radicals with airborne TiO₂ particles and its implications for
stratospheric injection and NO₂ abatement in the urban environment
D.R. Moon, P. Lakey, L. Whalley, G. Cousins, C. Kidd, P.W. Seakins, G. Taverna, M.
Chipperfield, and D.E. Heard

2ACH_P059
MD simulation of surface tension of organic droplets based on energy different method and
evaporation correction
X. Wang, H. Su, U. Pöschl, and Y. Cheng

2ACH_P060
Secondary organic aerosol from Glyoxal: Seed effects and product distributions
Jakob, C. Kampf, F. Klein, T. Koenig, M. Krapf, N.K. Kumar, A. Laskin, B.S. Oyama, A.
Prévôt, and R. Volkamer
Fe₃O₄@ZrO₂ magnetic nanoparticles modified electrode for sensitive determination of organophosphorus insecticides
T.-F. Kang and N.-N. Li

Electrochemical immunosensors for 2,4-dichlorophenoxyacetic acid based on 3-aminopropyltrimethoxysilane modified electrodes
T.-F. Kang and R. Xue

Comparison between conventional filter based method and AMS
R. Chakraborti and T. Gupta

Speciation and source apportionment of atmospheric Polycyclic Aromatic Hydrocarbons (PAHs) present during fog time collected PM1 in ambient aerosol of the Indo Gangetic Plain (IGP) of India
D.K. Singh and T. Gupta

Effects of biogenic-anthropogenic interactions on the molecular composition of organic aerosols from Amazonian rainforest (Brazil): an ultra-high resolution mass spectrometry study

Microbial tracers in marine aerosols from the western North Pacific Rim: one-year observation of hydroxy fatty acids over Gosan site, Jeju Island
P. Tyagi, T. Kariya, M. Lee, and K. Kawamura

Chemical analysis of particulate matter PM 2.5 and PM 10 at Sinhagad (Pune)- A high altitude station
N. Pathak, P.S.P. Rao, and V. Singh
2ACH_P068
Online measurements of aerosol composition at a rural site in Germany during 2014 and application to a volcano event
M. Elsasser, J.K. Esser-Gietl, H. Flentje, B. Briel, and W. Thomas

2ACH_P069
Functional group distribution of secondary organic aerosol generated using the Master Chemical Mechanism: similarities and discrepancies with environmental controlled chamber studies
G. Ruggeri, S. Takahama, F.A. Bernhard, S. Shipley, and B. Henderson
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2AMO_P017
Model studies of volatile diesel exhaust particle formation involving organic vapours
L. Pirjola, M. Karl, T. Rönkkö, and F. Arnold

2AMO_P018
Contribution of vehicular emissions on the PM2.5 aerosols concentration in the Sao Paulo Metropolitan Area
A. Vara Vela and M. de Fatima Andrade

2AMO_P019
New particle formation events with double onset in a near-city background of Budapest
I. Salma, Z. Németh, P. Aalto, and M. Kulmala

2AMO_P020
Modelling new particle formation and growth using combined power-law and log-normal distribution model
M. Olin and M. Dal Maso

2AMO_P021
Mathematical modelling of nanoparticle formation using ANSYS/Fluent
A.K. Gilfanov, S.K. Zaripov, and W. Koch

2AMO_P022
Numerical simulation for the design and performance of nanostructured transparent conducting oxide membranes for Hydrogen production from water splitting at low-temperatures

2AMO_P023
Complex model of coagulating processes
V.A. Zagaynov, A.A. Lushnikov, V.V. Maksimenko, and I.E. Agranovski

2AMO_P024
Simulation of atmospheric nanoparticles over Europe
D. Patoulias, C. Fountoukis, I. Riipinen, and S.N. Pandis
2AMO_P025
Sensitivity of a global aerosol model to uncertainties in aqueous phase sulphur chemistry investigated at the CERN CLOUD experiment
H. Gordon, U. Baltensperger, K. Carslaw, C. Fuchs, C. Hoyle, and the CLOUD collaboration

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Cancelled

2AMO_P027
PMCAMx evaluation during the PEGASOS southern and northern campaigns
K. Kiari, C. Fountoukis, D. Patoulias, E. Hasa, and S.N. Pandis

2AMO_P028
Assessing the impact of mineral dust on global cloud droplet formation
V.A. Karydis, A.P. Tsimpidi, A. Nenes, and J. Lelieveld

2AMO_P029
Investigation of multi-decadal trends in aerosol direct radiative effect from anthropogenic emission changes over North America by using a multiscale two-way coupled WRF-CMAQ model
C. Wei, J. Xing, D. Wong, J. Pleim, R. Mathur, C.-M. Gan, S.T. Rao, and F.S. Binkowski

2AMO_P030
Calculating equilibrium phase distribution during the formation of secondary organic aerosol using COSMOtherm
C. Wang, F. Wania, and K.-U. Goss

2AMO_P031
A comparative study of long range transport effect on Taiwan’s PM2.5 using various methods K.-H. Chang, T.-F. Chen, and C.-Y. Tsai

2AMO_P032
Performance of the planetary boundary layer height estimation by COSMO-2
M. Collaud Coen, Y. Barton, and P. Kaufmann
2AMO_P033
Impact of black carbon and fine particles on air quality in a small city in South Brazil

2AMO_P034
Numerical simulation of the dust emission and convection in Algerian desert
N. Djouad and M. Ferhat
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2ANT_P011
Focusing of charged aerosols via electric-field applied stencil mask

2ANT_P012
Catalytic performance of porous materials prepared from the deposition of electrosprayed inks
J.L. Castillo, B. Martinez-Vazquez, and P.L. Garcia-Ybarra

2ANT_P013
The characteristics of charged droplets produced by electrospray

2ANT_P014
Efficiency of kinetic energy transfer in collisions between nano particles
M.S. Choi, I.H. Kim, and J.W. Lee

2ANT_P015
Generation of water soluble standards ions in the sub 2 nm range
M. Attoui

2ANT_P016
Measurement of particles size distribution: comparison of three approaches
E.A. Kolesnikov, A.Yu. Godymchuk, V.V. Levina, B.B. Khaudarov, and D.V. Kuznetsov

2ANT_P017
Occupational exposure to titanium dioxide nanoparticles
A. Spinazzè, A. Cattaneo, M. Limonta, and D.M. Cavallo

2ANT_P018
Encapsulation of inorganic nanoparticles by aerosol-polymerization
J. Poostforooshan, A. Badiei, and A.P. Weber

2ANT_P019
Deposition of graphene/carbon nanoflower films on the substrate by spraying
A. Lähde, L. Modesto, M. Miettinen, T. Torvela, and J. Jokiniemi
2ANT_P020
Seeded growth of monodisperse and spherical silver nanoparticles
S. Zihlmann, F. Lüönd, J.K. Spiegel, and K. Vasilatou

2ANT_P021
One step aerosol synthesis of porous SiO$_2$-Cobalt-catalyst for Fischer-Tropsch reaction
A. Martínez Arias, L. Zeng, and A.P. Weber

2ANT_P022
Correlation between liquid media method and air media method of anti-viral efficiency of an anti-viral air filter
D.-H. Park, Y.-H. Joe, and J. Hwang
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2COA_P017
Particle sampling in boilers of waste incineration plants: Development and characterisation of a novel probe
S. Schumacher, J. Lindermann, B. Stahlmecke, T. Zeiner, T. van der Zwaag, H. Nordsieck, R. Warnecke, and C. Asbach

2COA_P018
Particle processes in power plant flue gas: effects of substituting coal with biofuel pellets

2COA_P019
Agglomerate structure and size distribution by coagulation and surface growth
G. Kelesidis, E. Goudeli, and S.E. Pratsinis

2COA_P020
Analysis of soot nanostructure using a HRTEM image analysis algorithm and correlation with its oxidative behaviour
A. Zygogianni, M. Syrigou, M. Kostoglou, and A.G. Konstandopoulos

2COA_P021
A study of a condensing heat exchanger and electrostatic precipitator combination for small-scale wood combustion
J. Grigonyte, O. Sippula, J. Tissari, A. Laitinen, J. Keskinen, M. Kortelainen, H. Lamberg, and J. Jokiniemi

2COA_P022
Investigation of the release of engineered nanoparticles in the pilot scale combustion chamber BRENDA
W. Baumann, M. Hauser, N. Teuscher, I. Lang, and H.-R. Paur

2COA_P023
Influence of operation conditions of wood chips boiler and electrostatic precipitator on the reduction of particle mass concentration in the exhaust gas
High temperature particle deposition for aircraft engine applications
P.R. Forsyth and M. McGilvray

High-temperature formation of tungsten oxide microstructures
S.G. Orlovskaya, J.A. Shevchenko, and M.S. Shkoropado

Cancelled

PPS correction for soot concentration measurement for real scale fire tests
A. Bellivier, D. Ledur, A. Coppalle, J. Yon, A. S. Loo, L. Decoster, S. Dupont, and H. Bazin

OC/EC analysis and Raman spectroscopy of flame-generated carbonaceous nanoparticles
L.A. Sgro, M. Commodo, M. Chiari, A. D’Anna, and P. Minutolo

Hourly chemical composition and source identification of aerosol in the high polluted industrial area of Taranto (Italy)

Using ratios of metals and particulate matter to nitrogen oxides to detect emissions from municipal waste incinerators in ambient air pollution data in United Kingdom
Session: Electrical Effects

2ELE_P009
Experimental and numerical study on particle collection in a wet electrostatic precipitator

2ELE_P010
Definition of a non-dimensional inertial and electric force ratio in the EHDA simple-jet mode as a tool to define spray dispersion
V.A. Ganesan, V. Fujita, A. Mwaura, L.L.F. Agostinho, and J.C.M. Marijnissen

2ELE_P011
Application of a multi-nozzle electrohydrodynamic atomizer to enhance evaporation in a single-effect evaporator

2ELE_P012
Generation of nano-particles by ion-induced nucleation using plasma processing in diesel exhaust gas
S. Yoshihiro, A. Zukeran, Y. Kawada, and Y. Ehara

2ELE_P013
Analysis of particle behavior in hole-type electrostatic precipitator
H. Miyashita, S. Tou, Y. Ehara, T. Inui, and Y. Aoki

2ELE_P014
Fine particles removal from lead smelting fume using electrostatic agglomeration
F. Wang, R. Chen, T. Zhu, and M.J. Li

2ELE_P015
Development of dielectric barrier discharge electrostatic precipitator
H. Iwabuchi, Y. Ehara, Y. Oishi, T. Inui, and Y. Aoki

2ELE_P016
Enhanced antimicrobial activity using air ion and grapefruit seed extract on air filters
C.G. Woo, B.Han, H.-J. Kim, and Y.-J. Kim
Generalization of current-voltage characteristics of corona discharge by similarity theory methods

Session: Fundamentals

2FUN_P014
Clogging of pleated HEPA filters with soot particles: effect of relative humidity
P. Nerisson and F.X. Ouf

2FUN_P015
Air filtration and antimicrobial capabilities of electrospun PLA/PHB nanofibers

2FUN_P016
Experimental investigation on clogging stage of fiber filtration: Effect of particle size, flow velocity and filter structure
R. Tao, S. Li, and M. Yang

2FUN_P017
Experimental investigation and numerical model of consecutive droplets-solid particles and solid particles-droplets filtration in fibrous filters
J.M. Gac and A. Jackiewicz

2FUN_P018
Preparation of uncharged filter media by organic solvent exposure of electret filter
M.-H. Lee, H.-J. Choi, and E.-S. Park

2FUN_P019
Aerosol filtration in specially designed fibrous filters of gradient structure
A. Jackiewicz, Ł. Werner, and L. Gradoń

2FUN_P020
Calculation of deposition on fibrous filters as a function of time
S.J. Dunnett and C.F. Clement

2FUN_P021
Filter cleaning effectiveness of pulse jet bag filter
H.-S. Park
2FUN_P022
On the need of the transfer functions when diffusers are used to expand compressed aerosols
W.M. Moelter-Siemens, J. Blattner, and C. Asbach

2FUN_P023
Elimination of Methylene blue by adsorption on raw ore graphite (deposit point 214 - area Sidi Bouothmane - Marrakech)
S. Sabir, N. Nadi, M.L. Bouamrani, R. Atmani, S.Youfi, and M. Elkouali

2FUN_P024
L’Air et Moi: free educational tools to raise awareness of the air quality
M.A. Le Meur, V.H. Espinosa, and D. Robin

1FUN_P004
A new device for mobile monitoring of particulate matter. Preliminary result in an urban environment
F. Gozzi, G. Della Ventura, A. Marcelli, and A. Cecili
Session: Inhalation, Exposures and Health

2IEH_P014
Optimisation of an electrostatic cross-flow precipitator for air-liquid interface devices
H. Wiegand and G. Kasper

2IEH_P015
Enhanced particle deposition efficiency in air-liquid interface of a cell exposure chamber by electrostatic force
Y. Fujitani, Y. Sugaya, M. Hashiguchi, A. Furuyama, S. Hirano, and A. Takami

2IEH_P016
UFIREG project: Ultrafine particles – an evidence based contribution to the development of regional and European environmental and health policy

2IEH_P017
Do ferrous-minerals in Artic circle coal fly-ash mediate respiratory toxicity in humans?

2IEH_P018
Allergic airway inflammation induced by ambient particles in mice
S.-Y. Liu, C. CK. Chou, and T.-J. Cheng

2IEH_P019
The TOBICUP (TOxicity of Biomass COmbustion generated Ultrafine Particles) project: first results

2IEH_P020
Characterization of an Air Liquid Interface (Vitrocell® 24/48) aerosol exposure system using mainstream cigarette smoke
S. Majeed, S. Frentzel, D. Kuehn, P. Leroy, P.A. Guy, A. Knorr, A.K. Kuczaj, M. Nordlund, J. Hoeng, and M.C. Peitsch
2IEH_P021
Health effects of reactive oxygen species measured with an on-line instrument
D.M. Lienhard and M. Kalberer

2IEH_P022
Influence of smoking on fine and ultrafine air pollution PM in their pulmonary genetic and epigenetic toxicity

2IEH_P023
Moved to oral sub-session #13

2IEH_P024
Hygroscopicity measurements of cigarette smoke particles
T.J. Johnson, J.S. Olfert, C.U. Yurteri, R. Cabot, and J. McAughey

2IEH_P025
Comparison of particle deposition efficiency of nano-particles between Taiwanese and Caucasians upper respiratory tract
D.-J. Hsu and H.-Y. Lin

2IEH_P026
Pulmonary consequences of concentrated atmospheric nanoparticle inhalation in rats

2IEH_P027
Particulate matter personal dose in a subway microenvironment
V. Martins, T. Moreno, M.C. Minguillón, X. Querol, and M. Lazaridis

2IEH_P028
Age-specific aerosol doses deposited in the respiratory system of electronic and conventional cigarette smokers
M. Manigrasso, G. Buonanno, F.C. Fuoco, L. Stabile, and P. Avino

2IEH_P029
The regional deposition of inhaled porous particles in the human respiratory airways
M. Belka, J. Lippay, J. Jedelsky, F. Lizal, and M. Jicha
2IEH_P030
The change of the MMAD of inhaled drugs in humidified air measured by next generation impactor and optical analysis
A. Kerekes, A. Nagy, M. Veres, S. Kugler, and A. Czitrovszky

2IEH_P031
Passenger exposure to black carbon particles from ferryboat emissions
P. Krecl, A. Targino, and J.P. Moraes Ribeiro

2IEH_P032
Environmental implications of mining and quarrying activities at Umoughara, Ezza North, Ebonyi State
O.N. Omaka, N.C. Chidinma, and G.I. Nwovu

3IEH_P048
Monitoring the transport behaviour of toluene through protective polymer gloves using quartz crystal microbalance
M.J. Chen, L.H. Cheng and T.P. Tseng

3IEH_P054
Initial development of a Personal Electrostatic Bioaerosol Sampler (PEBS)
T. Han and G. Mainelis
Session: Indoor and Working Place Aerosol

2IND_P015
Cancelled

2IND_P016
Electron microscopy characterization of nanoparticles at three different workplaces
M. Miettinen, T. Torvela, J. Leskinen, A. Lähde, J. Tissari, and J. Jokiniemi

2IND_P017
Influence of wood-fired domestic heating on indoor PM concentration and composition
D. Frasca, M. Marcoccia, G. Simonetti, S. Canepari, L. Tofful, and M.L. Astolfi

2IND_P018
Indoor air pollution and local public transport: the subway system
S. Brini, S. Canepari, G. Cattani, F. De Maio, A. Di Menno di Bucchianico, and A. Lepore

2IND_P019
Assessment of indoor PM2.5 in different residential settings of Lahore, Pakistan
S. Sidra, Z. Ali, I. Colbeck, and Z.A. Nasir

2IND_P020
Source apportionment of urban indoor PM2.5: A comparative study of different USEPA receptor model approaches
J.L. Matawle, S. Pervez, S. Dewangan, S. Tiwari, and D. Singh Bisht

2IND_P021
Airborne characteristics of four potential allergenic fungi released from agar media
S.-A. Lee, Y.-C. Teng, Y.-R. Chen, and J.-K. Chen

2IND_P022
Household smoking habits effect on particle pollution level stability and fractional distribution
I. Steinberga and S. Vesere
UFP from gas cooking appliances: characterization and inflammatory potential
P. Pedata, L. Malorni, D. Voccia, M. Sirignano, N. Sannolo, and A. D’Anna

Concentrations of combustion particles during mass in a church
B. Polednik, M. Skwarczyński, M. Dudzińska, S. Dumala, and I. Bilska

Nanoparticles in a dental office
B. Polednik, M. Skwarczyński, M. Dudzińska, S. Dumala, and I. Bilska

Photochemical variation of carboxylic acid in PM2.5 aerosol from incense burning
S.-C. Kuo and Y.I. Tsai

Organic and elemental carbon and metals in particulate matter (PM) emitted during heating corn oil (frying) and ground beef (grilling)
M.A. Torkmahalleh, S. Gorjinezhad, H.S. Ünlüevcek, E. Cihan, B. Tanış, N. Soy, N. Özaslan, M. Keleş, and F. Öztürk

Performance tests of new and aged indoor air cleaners
H. Finger, U. Schneiderwind, and C. Asbach

Welding aerosol concentrations in workplace air depending on welding material
I. Martinsone, A. Seile, Z. Martinsone, P. Sudmalis, and I. Vanadzins

Size resolved penetration of filters from respirator masks
N. Serfozo, J. Ondráček, V. Ždímal, and M. Lazaridis

Inhalable and respirable particles produced in the lathe work in heavy industry
P. Avino, M. Manigrasso, P. Pandolfi, C. Tornese, D. Settimi, and N. Paolucci
Commuters' exposure to black carbon particles on a public bus route
A.C. Targino, J.P Ribeiro, and P. Krecl
Session: Instrumentation

2INS_P022
Comparison of a new and 10 years old TSI 3077 neutralizer
M. Attoui

2INS_P023
Development of thermal desorption method for PAHs determination
S. Iacobellis, C. Tortorella, A. Giove, M. Amodio, G. de Gennaro, and M. Tutino

2INS_P024
Behaviours and answers of the different devices used for characterize a potential aerosol emission occurring when nanopowder is handling in an industrial process
C. Philippot, S. Artous, and D. Locatelli

2INS_P025
Application of the soft X-ray TSI Advanced Aerosol Neutralizer to aerosol measurements made by a Grimm SMPS
A. Nicosia, F. Belosi, G. Santachiara, B. Vazquez, F. Prodi, D. Bacco, I. Ricciardelli, A. Trentini, and L. Manodori

2INS_P026
Comparison of sample delivery methods for electrospray aerosol generation
A. Avenido, J.H.T. Scheckman, and A. Zerrath

2INS_P027
Data inversion of Tandem-DMA measurements: Comparison of the TDMAfit and TDMAinv algorithms
M. Giamarelou, E. Papapanagiotou, M.R. Stolzenburg, M. Gysel, and G. Biskos

2INS_P028
The suitability of adsorption-denuders for the quantification of gas phase SVOCs
Aerosol Mass Spectrometer vs Scanning Mobility Particle Sizer seasonal comparison in a urban site located in the Po Valley (Northern Italy).
A. Trentini, S. Gilardoni, M. Rinaldi, I. Ricciardelli, D. Bacco, F. Scotto, S. Ferrari, M.C. Facchini, and V. Poluzzi

Is the performance of sensor technologies for air quality monitoring improving?
M.C. Minguillón, M. Viana, C. Reche, X. Querol, J. García Vidal, O. Trullols, J.M. Barceló, M. Viader, and P. Speranza

Intercomparison of portable and stationary SMPSs for nanoscale aerosol measurements
A.S. Fonseca, M. Viana, X. Querol, N. Pérez, A. Alastuey, A.M. Todea, C. Monz, and C. Asbach

Absorption measurements by CAPS PMssa (Cavity Attenuated Phase Shift single scattering albedo monitor) and AE33 Aethalometer at DEM Athens suburban background station
S. Vratolis, T. Onasch, A. Freedman, and K. Eleftheriadis

An empirical comparison of aerosol layer detection capabilities between Lufft CHM_15k “Nimbus” and Vaisala CL31 ceilometers
A. Szkop and A. Pietruczuk

Limitations in the use of unipolar charging for electrical mobility sizing instruments

Response variation of real time Black Carbon mass concentration instruments to freshly emitted particles
K.A. Thomson, A. Momenimovahed, M.P. Johnson, A.P. Crayford, Y.A. Sevcenco, P.I Williams, B. Brem, and G.J. Smallwood
2INS_P036
A Miniature Plate Differential Mobility Classifier (mini-Plate DMC)
Q. Liu and D.-R. Chen

2INS_P037
New data processing equation for improving slow response sensors – Illustrated by an ECC ozonesonde

2INS_P038
Performance of a Soft X-Ray Ionizer for Charge Neutralization In Electrospray Aerosol Generation
J.H.T. Scheckman and A. Zerrath

2INS_P039
Laboratory calibration of a low-cost optical particle counter
A. Rappazzo, A. Nicosia, and F. Belosi

2INS_P040
Pattern based clustering of raw single particle time of flight mass spectra for an improved, automated mass calibration

2INS_P041
An Aerodyne mini-AMS for UT/LMS measurements within the Civil Aircraft for Regular Investigation of the Atmosphere Based on an Instrument Container (CARIBIC) project
F. Rubach, M. Hermann, J. Schneider, A. Wiedensohler, and S. Borrmann

2INS_P042
Data acquisition and processing along with surveillance, protection and validation of the measurement device by new software methods
A. Edfelder, M. Pesch, and A. Jaksch

2INS_P043
Prediction and estimation inhalation intake of complex radioactive gas-aerosol mixtures (CoRGAM) in case of emergency response
2INS_P044
Integral Mobility Analyzer as a nanoparticle sensor for emission control
M. Alonso, J.P. Santos, M. Larrion, and C. Gutierrez-Canas

2INS_P045
Development of a new particles deposition system on not-filtering substrates to perform corrosion studies

2INS_P046
Cancelled

2INS_P047
Photothermal detection of spark-generated black carbon particles
J. Lee and J. Lee

2INS_P048
Intercomparison of impactors for ultrafine particle sampling

2INS_P049
The Aerosol Chemical Monitor Calibration Center (ACMCC): a new facility for the quality control of ACTRIS-2 Aerosol Chemical Speciation Monitor (ACSM) measurements
E. Freney, O. Favez, V. Gros, J. Sciare, F. Truong, and T. Amodeo

2INS_P050
Development and evaluation of nano particle sizer

2INS_P051
Advances in flow modulated comprehensive GCXGC-MS at full sensitivity applied to profiling complex indoor&outdoor air samples
E. Sebastiani

2INS_P052
Towards inexpensive 3-D printed Differential Mobility Analyzers
K. Barmpounis, A. Maisser, A. Schmidt-Ott, and G. Biskos
2INS_P053
Pilot scale wet electrostatic scrubber for submicron particle removal
F. Di Natale, M. Giavazzi, L. Manna, M. Esposito, C. Carotenuto, M. Bailo, and A. Lancia

2INS_P054
A heterogeneous condensation assisted three-phase bed column to remove submicronic particles
F. La Motta, F. Di Natale, A. D’Ascoli, M. Tammaro, and A. Lancia
**Session: PMx**

2PMX_P023  
A study for introducing multivariate synthetic indices in a receptor model  
M. Ragosta, M. Pandolfi, and G.A. Giorgio

2PMX_P024  
Modelling of both particle composition and size distribution from a background site in London  
D.C.S. Beddows, R.M. Harrison, D. Green, and G. Fuller

2PMX_P025  
How the driving conditions influence the road dust composition  

2PMX_P026  
Characterization of road dust collected in Venice mainland  
D. Zannoni, G. Valotto, A. Quaranta, F. Visin, and G. Rampazzo

2PMX_P027  
Influences of beehive firework displays on ambient water-soluble ions in fine particles  

2PMX_P028  
The N stable isotopes from particulate ammonium nitrate: understanding of the atmospheric processes and the sources of PM10 in France  

2PMX_P029  
Source apportionment of chemically resolved PM2.5 and particle size spectra collected downwind of London Heathrow (UK)  
M. Masiol, R.M. Harrison, Tuan V. Vu, S. Squizzato, and F. Visin

2PMX_P030  
AIRUSE-LIFE+: 2003-2014 trends of PM10 and PM1 source contributions in Barcelona, NE Spain  
M. Pandolfi, F. Amato, A. Alastuey, C. Reche, N. Pérez, and X. Querol
A comprehensive source apportionment of submicron aerosols in Metz, France, by PMF$^2$

Moved to oral sub-session #17

Black carbon and particle number size distributions collected at an international airport located in an area affected by a complex emission scenario
M. Masiol, T.V. Vu, and R.M. Harrison

Chemical composition and source apportionment of daily winter PM2.5 in Modena, Po valley, Italy
A. Bigi, A. Piazzalunga, L. Pontoni, F. Pirozzi, S. Teggi, and G. Ghermandi

Emission sources in the Province of Brescia (Northern Italy)
M. Chiesa, V. Gabusi, I. Hoch, R. Zambianchi, and A. Ballarin Denti

Source apportionment of particulate matter from the port of Gothenburg, Sweden
S.M Gaita, F. Qvick, D. Gall, J.B.C. Pettersson, E.S. Thomson, and J. Boman

Online measurements of composition and source apportionment at the Birkenes observatory, Norway
S.M. Platt, W. Aas, K. E. Yttri, K.E. Espem, and M. Fiebig

Characterization of submicron aerosol in Prague by combined ME-2 factor analysis of AMS data
O. Makeš, P. Vodička, J. Schwarz, and V. Ždímal
2PMX_P039
OPC, aerometry, gravimetric and speciative analyses for characterizing PM impacts on an inhabited area close to an industrial hot spot

2PMX_P040
Source apportionment of polycyclic aromatic hydrocarbons in urban environment
N. Mishra, G.A. Ayoko, and L. Morawska
SPECIAL SESSION: Polar Aerosol

2SPA_P010
Organic carbon, carboxylic acids and nitrate in atmospheric aerosol at Ny Alesund

2SPA_P011
Atmospheric aerosol and surface snow at Dome C (Antarctic plateau): a comparison of chemical composition from long-term continuous records
D. Frosini, S. Becagli, D. Karlicek, M. Marconi, M. Severi, R. Traversi, and R. Udisti

2SPA_P012
Characterization and transport processes of selected elements associated with atmospheric PM10 in the Arctic region (Ny-Ålesund, Svalbard Islands)

2SPA_P013
Composition of Arctic aerosol size-segregated samples: insights on analytical methodology and results of the 2010 and 2011 campaigns

2SPA_P014
Atmospheric aerosol properties at Princess Elisabeth station, East Antarctica: seasonality and indication of new particle formation

2SPA_P015
First all year round measurements of Organic Carbon and Elementary Carbon in central Antarctic plateau: preliminary results of continuous 7-year long campaign
Seasonal changes of aerosol optical properties in the Svalbard region between 2000 and 2014
P. Pakszys and T. Zielinski

Complex studies of the role of absorbing aerosols on climate change in the European Arctic – project iAREA

Last minute posters

Better Upscaling and Optimization of Nanoparticle and Nanostructure Production by means of Electrical Discharges
F.E. Kruis and M. Stein
Thursday, September 10, 2015
16:00 - 18:00
Poster Session 3
Room: Poster Hall

Session: Atmospheric Aerosol - Aerosol Processes and Properties

3AAP_P099
Moved to oral sub-session #15

3AAP_P100
Deliqesence and crystallization of aerosol in the Po Valley: measurements, comparison with model outputs and applications
L. Ferrero, L. D’Angelo, G. Rovelli, M. Casati, M.G. Perrone, G. Sangiorgi, and E. Bolzacchini

3AAP_P101
Megacity levels of Black and Brown Carbon in Valparaiso, Chile: A toxic mix of bus, truck, ship, industrial and wood burning emissions

3AAP_P102
Seasonal variation of airborne particles characteristics and sources in Beijing during 2010/2011
3AAP_P103
Analysis of physical and chemical properties on stagnant haze events of megacity in Korea
J.W. Cha, J.E. Kim, S. Song, H.-J. Lee, and S.B. Ryoo

3AAP_P104
IMAA (Integrated Measurements of Aerosol in Agri valley) campaign close to the biggest European oil/gas pre-treatment plant
M. Calvello, R. Caggiano, F. Esposito, A. Lettino, M. Lorusso, S. Trippetta, and G. Pavese

3AAP_P105
An investigation into the particle size distribution collected from an automotive brake caliper test rig

3AAP_P106
Characteristics of concentrations and metal compositions for fine and coarse particles in central Taiwan during a winter episode of elevated particulate matters
Y.-C. Chen, C.-Y. Hsu, M.-J. Chen, and H.-C. Chiang

3AAP_P107
Water content and pH of Aerosols over the Eastern Mediterranean
P. Nikolaou, A. Bougiatioti, I. Stavroulas, A. Nenes, N. Mihalopoulos, and M. Kanakidou

3AAP_P108
Morphology, mixing state and aging of biomass burning particles
G. Girotto, S. China, A. Aiken, R.I Huempfner, K. Gorkowski, M. Dubey, and C. Mazzoleni

3AAP_P109
Microbial aerosol characteristics in highly polluted and pristine environments

3AAP_P110
Molecular dynamics simulations of the interaction between organic acid aggregates and water molecules
B. Radola, D. Vardanega, P. Jedolvszky, and S. Picaud
3AAP_P111
Physico-chemical characterization of aerosol sampled in a remote background station during an intense and prolonged event of long range transport
C. Petroselli, B. Moroni, S. Castellini, S. Crocchianti, R. Selvaggi, G. Calzolai, S. Nava, F. Lucarelli, and D. Cappelletti

3AAP_P112
Chemical characterisation of the aerosol at a background site in southern England with emphasis on the organic fraction and nitrogen compounds
C.F. Di Marco, B. Langford, J. Lingard, M. Twigg, and E. Nemitz

3AAP_P113
Ozone, aerosols and UV radiation during high intensity pyrotechnic displays
S. Caballero, N. Galindo, R. Castañer, J. Giménez, J.F. Nicolás, E. Yubero, M. Varea, J. Gil-Moltó, C. Pastor, and J. Crespo

3AAP_P114
Seasonal dynamics of aerosol size distribution, number concentration and gaseous pollutants in Prague center
C. Leoni and J. Hovorka

3AAP_P115
Role of the ionic and carbonaceous fractions in aerosol conductivity
G. Rovelli, L. D’Angelo, M. Casati, L. Ferrero, M.G. Perrone, G. Sangiorgi, and E. Bolzacchini

3AAP_P116
Physicochemical properties of ambient aerosol particles at a suburban background site in Athens
M. Gini, S. Vratolis, E. Diapouli, C. Helmis, and K. Eleftheriadis

3AAP_P117
Seasonal variation of aerosol size distributions based on long term measurements at GAW Global Monte Cimone Station (2165 m asl), Italy
A. Marinoni, A. Lupi, P. Cristofanelli, F. Calzolari, R. Duchi, M. Busetto, P. Bonasoni, and K. Sellegri
Detection and quantification of reactive oxygen species and related free radicals in atmospheric aerosol particles by Electron Paramagnetic Resonance spectroscopy
A.M. Arangio, H. Tong, U. Pöschl, and M. Shiraiwa

Digging into hygroscopicity in Cabauw
J. Mikkilä, T. Nieminen, H. Junninnen, L. Riutinanen, J. Hong, M. Ehn, and T. Petäjä

Mixing state and hygroscopic properties of ultrafine aerosol particles observed at the cabauw experimental site for atmospheric research in The Netherlands.
S. Bezantakos, K. Barmpounis, and G. Biskos

Chemical analysis of d<30 nm particles collected during new particle formation in urban environment
G. Kiss, A. Hoffer, A. Kallós, Z. Németh, and I. Salma

Cloud condensation nuclei activity, droplet growth kinetics and hygroscopicity of biogenic and anthropogenic Secondary Organic Aerosol (SOA)

Volatile of source apportioned wintertime organic aerosol in the city of Athens
E.E. Louvaris, K.K. Florou, G.I. Gkatzelis, and S.N. Pandis

Temporal and spatial variation of the atmospheric particle size distribution at seven measurement stations within Spain

Aerosol hygroscopic properties during a local stagnation episode in an urban background site in Madrid, Spain
E. Alonso-Blanco, F.J. Gómez-Moreno, M. Becerril, E. Coz, and B. Artiñano
The effect of hygroscopicity and oxidation on the phase state of ambient SOA particles in the Southeastern United States

A comprehensive range of gas and particle phase pollutants sampled at 1-hour time resolution in urban background Milan during summer 2012

Modelling the surface tension of atmospheric aerosols based on direct surface structure observations
M. Dalirian, J. Werner, J. Julin, O. Björnehholm, and I. Riipinen

Intercomparison of black carbon and its mixing state measurements between single particle soot photometer (SP2) and volatility tandem differential mobility analyzer (VTDMA) during CAREBeijing campaign

Transformation of Black Carbon aerosol morphology in combustion systems and the atmosphere

Source apportionment of PM2.5 at Seoul Supersite using near real-time monitoring and aerosol mass spectrometer in 2012
K.-J. Moon, J.-S. Han, and S.-Y. Cho

Laboratory investigations on ultrafine particles from the volatilization of the tire
S. H. Lee
3AAP_P133
Physical characterization of tire particles from tire simulator measurements
S. H. Lee

3AAP_P134
Elemental and ionic composition analysis of PM samples collected in the urban area of Naples
E. Chianese, B. Gioli, P. Toscano, V. Magliulo, G. Tirirmerio, A. Zaldei, and A. Riccio

3AAP_P135
Temperature and relative humidity dependence of optical properties of ambient aerosols at two forest sites in South East USA
A. Khlystov, A.P. Grieshop, P. Saha, and R. Subramanian

3AAP_P136
Analysis of organic aerosol measured at urban and rural sites in Japan
A. Yoshino, A. Takami, N. Kaneyasu, S. Hatakeyama, K. Hara, and M. Hayashi

3AAP_P137
Comparative analysis on characteristics of suspended particles in Taiwan during 2014

3AAP_P138
Nitropolycyclic aromatic hydrocarbons in marine and continental background air – gas-particle partitioning, mass size distribution, and formation along transport

3AAP_P139
Transport conditions between an urban coastal area and a high mountain site during winter pollution episodes
J.F. Nicolás, N. Galindo, E. Yubero, J. Crespo, and R. Soler

3AAP_P140
Polluted air masses advection in South Italy: SEM/EDX characterization of aerosols on 13-stages DLPI filters
A. Lettino, M. Calvello, F. Esposito, S. Fiore, M. Lorusso, and G. Pavese

3AAP_P141
Futures of radon, thoron and their decay products dynamics in urban environment
A.G. Kondratyeva, V.S. Yakovleva, M.S. Cherepnev, P.M. Nagorsky, and N.S. Mishina
3AAP_P142
Evolution of organic aerosol during transport observed at Mt. Cimone (2165 m asl), Italy, during PEGASOS
M. Rinaldi, S. Gilardoni, S. Decesari, S. Fuzzi, P. Cristofanelli, P. Bonasoni, V. Poluzzi, P. Massoli, and M.C. Facchini

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B.P. Lee, Y.J.Li, J.Z.Yu, P.K.K. Louie, and C.K. Chan

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G. Pavese, M. Calvello, F. Esposito, and M. Lorusso

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M. Fierz, D. Hasenfratz, C. Walser, O. Saukh, and H. Burtscher

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Ultrafine particle monitoring at two urban background sites of Northern Italy
S. Ozgen, G. Lonati, M. Sacco, F. Lollobrigida, and A. Pannocchia

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B. Psiloglou, N. Mihalopoulos, and A. Paliatsos

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A. Di Menno di Bucchianico, G. Cattani, A. Gaeta, C. Ancona, and F. Forastiere

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D. Bermejo, A.I. Calvo, A. Castro, J.M. Fernández-Guisuraga, C. Alves, and R. Fraile

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J. Gil-Moltó, N. Galindo, M. Varea, C. Chofre, J. Crespo, S. Caballero, J.F. Nicolás, E. Yubero, R. Castañer, and C. Pastor

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F. Drewnick, F. Freutel, S.-L. von der Weiden-Reinmüller, J. Fachinger, and S. Borrmann

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J. Kozakova, J. Hovorka, and J. Schwarz

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Relation between aerosol number and atmospheric potential gradient in an urban area
M.D. Wright, J.C. Matthews, A. Bacak, H.G. Silva, C.J. Percival, and D.E. Shallcross

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I. Rumskaitė, A. Garbaras, A. Masalaite, and V. Remeikis
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Organic compounds and elemental carbon in PM of Milan (Italy): effect of a Low Emission Zone
C. Rizzi, G. Sangiorgi, M.G. Perrone, L. Ferrero, M. Casati, G. Rovelli, L. D’Angelo, and E. Bolzacchini

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E. Liakakou, M. Lianou, E. Gerasopoulos, B. Psiloglou, J. Sciare, and N. Mihalopoulos

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A.M. Vicente, A. Calvo, M. Gustafsson, A. Karanasiou, F. Amato, X. Querol, and C.A. Alves

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M. Seidl, G. Da, E. Gehin, and P. Ausset

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Monitoring and characterization of aerosol particulate matter (TSP) for the conservation of urban cultural heritage: San Marco Museum (Florence, Italy)
A. Bonazza, P. Fermo, L. Barbagallo, N. Ghedini, R. Gonzalez, and E. Re

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Biomass burning tracers in aerosols over Athens, Greece during winter time

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J. Bendl, J. Hovorka, and J. Topinka

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Monitoring of aircraft emissions at a small-scale international airport
C. Psanis and G. Biskos

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S. Katkevica, J. Simon, and A. Held

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New particle formation and aerosol chemistry in a hypersaline environment
A. Held, K.A. Kamilli, J. Ofner, and P. Schmitt-Kopplin

3ACH_P065
Quantification and characterization of HULIS – comparison between ambient aerosols and
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3ACH_P066
Modelling secondary organic aerosol formation and aging for three completely different
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K.-H. Naumann, G. McFiggans, A. Muñoz, and H. Saathoff

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Markers of reaction products from the photochemical reaction of gas phase PAHs in the real
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H.B. Lim, N.R. Choi, Y.G. Ahn, Y.P. Kim, and J.Y. Lee

3ACH_P068
Secondary Organic Aerosol from benzene and D6-benzene
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Single particle measurements of organic aerosols from biogenic precursors
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3ACH_P071
How chemistry affects SOA hygroscopicity

3ACH_P072
Photooxidation of naphthalene and 2-methylnaphthalene: acidity, humidity and seed aerosol effects on chemical mechanisms
S. Tomaz, M. Riva, T. Cui, K. Le Menach, A. Gold, A. Albinet, H. Budzinski, E. Perraudin, J.D. Surratt, and E. Villenave

3ACH_P073
Investigation on elemental composition of Secondary Organic Aerosol from α-Pinene using 15 T FT-ICR-MS
H.J. Lim, J.H. Park, J.A. Kang, S.J. Baek, and H.S. Kim

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Slow evaporation of α-pinene SOA - volatility, particle phase mass transport and vapor wall losses
T. Yli-Juuti, A. Pajunoja, C. Faiola, O. Väisänen, E. Kari, L. Hao, O. Peräkylä, O. Garmash, M. Ehn, and A. Virtanen

3ACH_P075
Chemical reaction for secondary organic aerosol formation in salon – A case study in Taiwan
W.K. Chen and M.F. Liu

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Carboxylic acid oxidation products from limonene ozonolysis and their role in SOA formation
J. Hammes, A. Lutz, C. Faxon, R. Pathak, T. Mentel, and M. Hallquist

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Calculation of partitioning coefficients for organic acids
A. Lutz, C. Mohr, F. D. Lopez-Hilfiker, J. A. Thornton, and M. Hallquist
Seasonal variation of aerosol chemical composition in the boreal forest
L. Heikkinen, M. Äijälä, M. Ehn, T. Petäjä, M. Kulmala, and D. Worsnop

Study of in-situ SOA formation and chemistry using an oxidation flow reactor

Thermodynamics of the formation of sulfuric acid dimers in the binary (H2SO4-H2O) and ternary (H2SO4-H2O-NH3) system

Volatility of organic aerosol from heavy fuel oil combustion in a ship research engine and associated secondary organic aerosol formation potential

Atmospheric absorption by Brown Carbon aerosols generated from gaseous PAH photooxidation
S. Tomaz, M. Riva, T. Cui, A. Gold, E. Perraudin, J.D. Surratt, and E. Villenave

NOx dependency of HOM formation in chamber studies
I. Pullinen, J. Wildt, E. Kleist, M. Ehn, C. Wu, A. Wahner, and Th.F. Mentel
Conversion of primary aerosol from Spruce wood combustion in a smog chamber

Measurement of NO$_2$ photodissociation rate in Central Taiwan

Ozone estimation model in Portugal: urban and rural behaviour

Crystallization kinetics of inhalable size amorphous salbutamol as a function of relative humidity and temperature
S. Zellnitz, O. Narygina, C. Resch, H. Schroettner, and A. Paudel

Characterization of a flow tube reactor used for gas-to-particle conversion studies
T. Vogl, J. Ortega, A. Held, and J.N. Smith

Chemical composition of radiolytically formed particles using aerosol mass spectrometry
A. Wonaschuetz, P. Kallinger, W. Szymanski, and R. Hitzenberger

Organic coating of sea-salt aerosol particles: a molecular perspective
J. Lovrić, S. Briquez, D. Duflot, M. Monnerville, B. Pouilly, and C. Toubin

Semi-continuous OC/EC measurement in SORPES station, Nanjing, China
X. Chi and Y.J. Xie

Profiling of 3-hydroxy fatty acids as environmental markers of lipopolysaccharide (endotoxin) using liquid chromatography coupled to tandem quadrupole mass spectrometry
S. Uhlig, M. Negård, K.K. Heldal, A. Straumfors, L. Madsø, B. Bakke, and W. Eduard
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Simultaneous determination of hydrogen sulphide and methyl mercaptan via “click”-reaction with ethyl propiolate
S. Uhlig, M. Negård, F. Rise, B. Bakke, and K.K. Heldal

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Thermodynamic and physical explanation of mass accommodation coefficient reduction on organic coated surfaces: A molecular dynamic study
G. Ergin and S. Takahama

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Characteristics of the particle refining in thermal plasma process
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3AMO_P033
A green solution for assessing dermal exposures and health-risk from Polycyclic Aromatic Hydrocarbons (PAHs) in a fastener manufacturing industry
H.I. Hsu, P.J. Tsai, and M.R. Chen

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Evaluating the effect of regional scale emission reductions on air quality over Europe
A. Balzarini and G. Pirovano

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Mixing layer height estimates and air pollution dispersion processes
F. Guarnieri, C. Busillo, F. Calastrini, G. Messeri, and B. Gozzini

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M.M. Rahman, M. Cope, M. Mazaheri, and L. Morawska

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Modeling of exposure to ambient particulate matter across an urban area using IMMIS model coupled with ArcGIS
J.i Gu, J. Cyrys, K. Wolf, A. Schneider, and A. Peters

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Coagulation of aerosol particles with radioactive additives; modelling of experimental data
3AMO_P041
Reconstruction of PM concentration components over Naples conurbation

3AMO_P042
Realistic modelling of fugitive sources to obtain emission factor estimates
V. Sanfelix, A. Escrig, A. López-Lilao, E. Monfort, and I. Celades

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Soot deposition during an enclosed heptane pool fire - Experiments and numerical simulation comparison
L. Decoster, A. Bellivier, O. Vauquelin, F. Candelier, and H. Bazin

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PM2.5 composition inter-comparison between modelled and measured data
C. Colombi, E. Peroni, E. Angelino, and V. Gianelle

3AMO_P045
Source-resolved simulation of organic aerosol
G.N. Theodoritsi and S.N. Pandis

3AMO_P046
Pool scrubbing system for aerosol removal: focus on bubble characteristics and modeling
S. Morandi, A. Del Corno, F. Parozzi, A. Cavallari, G. Besagni, M. Imò, and F. Inzoli

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Model simulations of special events, such as legionnaire’s disease outbreak or fires in industrial facilities, on a regional scale: difficulties, odds, and ends
S. Wurzler, H. Hebbinghaus, and W. Straub

3AMO_P048
Analysis of the episodes of unusually high particle concentrations in Europe in March and April 2014: field observations and model simulations
Towards a better understanding of uncertainty in aerosol forcing from CMIP6 models
S. Fiedler, B. Stevens, T. Mauritsen and S. Kinne
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One-step flame-assisted spray synthesis of Pd/CeO$_2$ in stagnation configurations: the improved CH$_4$ catalytic activity
N. Wang, Y. Zong, Q. Yao, and S. Li

3ANT_P022
Simultaneously aerosol synthesis and direct coating of Mn-based TiO$_2$ nanoparticles on glass beads using CVC process and catalytic oxidation of gaseous acetaldehydes
E.S. Park, M.S. Kim, H.D. Jung, and J. Jurng

3ANT_P023
Synthesis of titania nanoparticles by MOCVD method in two different reactors
P. Moravec, J. Smolík, J. Schwarz, P. Vodička, V.V. Levdanski, and M. Koštejn

3ANT_P024
High-rate production of functional nanostructured films and devices by coupling flame spray pyrolysis with supersonic expansion
P. Milani, L.G. Bettini, S. Vinati, K. Wegner, P. Piseri, and E. Barborini

3ANT_P025
On the correlation of the emission spectrum and nanoparticle yield in a spark discharge generator

3ANT_P026
Hydrogen assisted generation and reshaping of metal particles by spark discharge
R.T. Hallberg, K.A. Dick, M.H. Magnusson, and M.E. Messing

3ANT_P027
Size distribution of DEP-bound PAHs emitted from a diesel-generator fuelled with waste-edible-oil-biodiesel
In vitro cytotoxicity of nanoparticles, accounting for agglomeration & settling
A. Spyrogianni, G.A. Sotiriou, D. Brambilla, J.-C. Leroux, and S.E. Pratsinis

Surface area detection of nanomaterials for exposure and toxicological assessments

Screening and advanced instrumentation for on-site distinction of the background and release signals in a nanoSiO2 production plant
J. Lopez de Ipiña, C. Vaquero, T. Oroz, C. Salazar, G. Aragon, I. Ibarra, T. Tritscher, and C. Gutierrez-Canas

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Aerosol synthesis of hierarchical nanostructured carbon particles using a dual polymer system
R. Balgis and K. Okuyama

Synthesis and optical response of Ag triangular nanoplates protected by photochromic azobenzene
K. Iwai, H. Nanjyo, N. Kinoshita, N. Nishida, and H. Tanaka

Plasmonic Ag-Au nanoalloys with reduced cytotoxicity for biomedical applications
G.A. Sotiriou, G.D. Etterlin, A. Spyrogianni, and S.E. Pratsinis
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M.N. Ess, B. Grob, N.P. Ivleva, and R. Niessner

3COA_P032
Particle emissions from LNG and other low sulphur marine fuels
M. Anderson, K. Salo, and E. Fridell

3COA_P033
Characteristics of PM emissions from coal combustion
M.L.M. Barabad and D. Park

3COA_P034
Nanoparticles formation in coal mines and their explosion hazard

3COA_P035
Simple sampling method for type testing of PM emissions from small-scale wood combustion appliances

3COA_P036
Study on the aging of log wood combustion aerosols using aerosol mass spectrometer

3COA_P037
Contribution of combustion sources to Black Carbon in Milan (Italy)
S. Gilardoni, M. Paglione, S. De Iuliis, F. Migliorini, V. Gianelle, C. Colombi, G. Lonati, S. Ozgen, M.C. Facchini, and S. Fuzzi
3COA_P038
Novel photo-oxidation tube reactor for simulation of the atmospheric aging of combustion emissions

3COA_P039
ACSM study to assess possible municipal solid waste incineration in household stoves
M. Maasikmets, H.-L. Kupri, E. Teinemaa, K. Vainumäe, T. Arumäe, and V. Kimmel

3COA_P040
Measurements of particulates and gas phase precursors emissions from fresh ship plumes during the Big Glenn 2014 Campaign
C. Faxon, M. Psychoudaki, H. Kuuluvainen, E.S. Thomson, A. Eriksson, A. Kristensson, B. Svenningsson, J. Mellqvist, Å. Hallquist, K. Salo, M. Hallquist, and J. Pettersson

3COA_P041
PM emissions measurements and size distribution in a turbojet engine test facility
V. Archilla, J. Rodríguez-Maroto, M. Izquierdo, E. Rojas, D. Sanz, M. Johnson, M. Pujadas, and R. Díaz

3COA_P042
Characterisation of particulate bound PAHs emitted from aircraft turbofan engines
V. Archilla, J. Rodríguez-Maroto, M. Izquierdo, S. García-Alonso, R.M. Pérez-Pastor, E. Rojas, D. Sanz, M. Pujadas, and M. Johnson

3COA_P043
Wood combustion aerosols from short rotation coppice grown on contaminated areas of sewage farms

3COA_P044
Characteristics of biomass combusted carbonaceous aerosol in chamber using GC/MS

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On road stationary measurements of vehicle emissions
L. Possenti, F. Riccobono, S. Casadei, A. Maggioni, I. Jezek, G. Mocnik, E. Bolzacchini, and L. Ferrero
Investigations of laser aerosols during different types of laser processing
S. Blei, R. Heidenreich, D. Kesslau, and N. Schilling
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Methodology for a certain class of comparative measurements of aerosol nanoparticles
M. Alonso and J.P. Borra

3FUN_P026
Aerosol emission from the burst of a single bubble
W.R. Ke, Y.M. Kuo, S.H. Huang, C.W. Lin, and C.C. Chen

3FUN_P027
Investigations on diffusiophoresis as aerosol particle deposition mechanism
B. Kiwull and R. Niessner

3FUN_P028
Crystallinity dynamics during coalescence of gold nanoparticles
E. Goudeli and S.E. Pratsinis

3FUN_P029
Impact of carrier modification on the capsule filling processability and on aerosolization performance of carrier-based dry powder inhalation (DPI) formulation
E. Faulhammer, V. Wahl, S. Zellnitz, H. Schröttner, J.G. Khinast, and A. Paudel

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Towards an understanding of the impact of chemical functionality on aerosol hygroscopicity
R.E.H. Miles, G. Rovelli, S.L. Clegg, and J.P. Reid

3FUN_P031
Influence of size effects on concentration of impurity (dopant) in aerosol nanoparticles growing in supersaturated vapor
V.V. Levdansky, J. Smolik, V. Zdimal, and P. Moravec

3FUN_P032
Size effects in formation of nanoparticles in a gas phase
V.V. Levdansky, J. Smolik, and V. Zdimal
3FUN_P033
Radial diffusion and penetration of gas molecules and aerosol particles through laminar flow reactors, denuders and sampling tubes
D.A. Knopf, U. Pöschl, and M. Shiraiwa

3FUN_P034
Radius, temperature and composition of free microdroplet in multicomponent environment as functions of time
D.S. Martyukova, A.K. Shchekin, A.E. Kuchma, and A.A. Lezova

3FUN_P035
Modeling of diffusion of nitric acid in polyethylene vinyl acetate
R. Atmani, M. Elkouali, M. Talbi, and A. El Brouzi

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Experimental study of homogeneous nucleation of the cesium chloride vapor
V.D. Zelik, S.V. Valiulin, S.V. Vosel, V.V. Karasev, and A.A. Onischuk

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Sulphuric acid monomer vs. total sulphate in nucleation studies

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The orientation dynamics of small spheroids in linear shear flows
E. Gavze, M. Pinsky and A. Khain
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Which grain dust composition in microorganisms impacts the respiratory health of grain workers and farmers?

3IEH_P032
Monitoring of PM and $^{222}$Radon concentrations levels and possible health effects
M. Zoran, R. Savastru, D. Savastru, M.R. Dida, and A. Dida

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Characterization of personal exposure to PM2.5 and BC in various micro-environments in New Delhi, India
P. Pant and R.E. Peltier

3IEH_P034
Geochemistry, structure, bioaccessibility and toxic potential of inhalable Fe-bearing minerals from Saharan dust outbreaks

3IEH_P035
The estimation of some microorganisms inactivation rates on filter elements of Tion A air cleaners
A.S. Safatov, O.V. Pyankov, V.A. Vechkanov, V.V. Solodkii, G.A. Buryak, and D.A. Trubitsyn

3IEH_P036
Practical application of Health Impact Assessment (HIA) procedure to estimate the potential benefits of improving air quality in the Silesian voivodeship, Poland
M. Kowalska and M. Kowalski

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Using dispersion models to account for secondary PM2.5 formation in health impact assessment
C. Mangia, M. Cervino, and E.A.L. Gianicolo
3IEH_P038
Reduction potential of PM2.5 health effects by local decision in Kuopio
A. Asikainen, E. Pärjälä, J.T. Tuomisto, and O. Hänninen

3IEH_P039
Nanoparticles exposure assessment at workspace – Comparison of the potential emission of aerosol while handling a powder and a nanopowder on the same process
S. Artous, C. Philippot, D. Locatelli, and C. Ducros

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Passenger exposure to PM and gas air pollutants in urban public transport microenvironments
F. Yang, S. Ye, K.C. Wong, H. Huang, L. Sun, P. Wei, D. Westerdahl, and Z. Ning

3IEH_P041
Development of a route specific PM and gas sensor network for 2015 Standard Chartered Hong Kong International Marathon
L. Sun, S. Ye, P. Wei, K.C. Wong, H. Huang, D. Westerdahl, and Z. Ning

3IEH_P042
Quantification and characterization of in vehicle exposure on city roads in Kanpur, India: Passenger car vs. school bus
M. Agrawal and A. Goel

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Inhaled particle surface area dose: stationary vs personal monitoring
M. Mazaheri, S. Clifford, and L. Morawska

3IEH_P044
Methods and instrumentation for generation of aerosols of fiber carbon nanomaterials in inhalation toxicological experiments
V.I. Sigaev, A.D. Tolchinsky, A.V. Vorobiev, and E.V. Zvyagina

3IEH_P045
Assessment of workers' personal exposure to atmospheric black carbon in different urban environments in southern Brazil
T. Caporal and A.C. de Lima Targino
3IEH_P046
Particulate matter personal exposure in the Athens metro system
E. Mammi-Galani, K. Eleftheriadis, and M. Lazaridis

3IEH_P047
Multi-metric exposure characterization to ultrafine particles in urban microenvironments
A. Spinazzè, A. Cattaneo, D.R. Scocca, and D.M. Cavallo

3IEH_P048
Moved to Poster Session 2

3IEH_P049
The application of an exposure system developed for the in vitro assessment of electronic nicotine delivery devices and tobacco heating products
H. Green, O.M. Camacho, and D. Azzopardi

3IEH_P050
Modelling dynamics of cigarette smoke in denuder tubes
L. Pichelstorfer and W. Hofmann

3IEH_P051
Population exposure to ultrafine particles: retrospective exposure modeling
A. Spinazzè, A. Cattaneo, and D.M. Cavallo

3IEH_P052
Uncertainty in exposure estimates and imputation of missing aerosol data in an epidemiological study
S. Clifford, M. Mazaheri, B. Yeganeh, K. Mengersen, G. Marks, and L. Morawska

3IEH_P053
OECD-WPMN Dossiers from the Sponsorship Programme – A first draft review of the physical/chemical testing results
H. Bresch

3IEH_P054
Moved to Poster Session 2
Session: Indoor and Working Place Aerosol

3IND_P032
Chemical characterization of indoor PM2.5 in urban areas of the Mediterranean basin
L. Tofful, M. Balzan, S. Canepari, M. Catrambone, F. Cibella, and C. Perrino

3IND_P033
Cancelled

3IND_P034
Outdoor infiltration and indoor sources of UFP, BC and PM2.5 components in schools
I. Rivas, M. Viana, T. Moreno, L. Bouso, M. Pandolfi, M. Alvarez-Pedrerol, J. Forns, A. Alastuey, J. Sunyer, and X. Querol

3IND_P035
Particle size, mass and chemical transitions from an outdoor to indoor environment in Prague, Czech Republic with attention to nitrate

3IND_P036
Indoor/outdoor particulate matter and bioaerosol measurements in museum microenvironments

3IND_P037
Chemical analysis of size classified aerosol samples collected during personal monitoring

3IND_P038
Moved to oral sub-session #05
3IND_P039
Particulate distributions and penetration characteristics at buildings in Seoul, Korea
H.J. Oh, J.H. Yang, Y.G. Jung, I.B. Shim and J.Y. Sohn

3IND_P040
Ambient and indoor particulate matter in operating theatres in two hospitals in Lahore, Pakistan
A. Nimra, Z. Ali, I. Colbeck, and Z.A. Nasir

3IND_P041
Personal, home and workplace exposure to PM2.5, polycyclic aromatic hydrocarbons, quinones, black carbon and volatile organic compounds in the general population
J.M. Delgado-Saborit, B. Macias-Hernandez, M. Mascelloni, J. Gil-Molto, N. Galindo-Corral, M. Varea, and R.M. Harrison

3IND_P042
Generation of characteristic traffic emission aerosol in particulate filter collection efficiency tests
S. Saari, P. Karjalainen, T. Kalliohaka, A. Taipale, and T. Rönkkö

3IND_P043
Particulate matter (PM2.5 and PM10) in the indoor air of classrooms at the Federal University of São Carlos, Brazil
T. Tagino Comin and M. Lopes Aguiar

3IND_P044
Cancelled

3IND_P045
Determining indoor bioaerosols using molecular techniques
N. Grydaki, I. Colbeck, and C. Whitby

3IND_P046
Moved to oral sub-session #34

3IND_P047
Characterization of dust and ultrafine particles emitted from a small-medium recycling plant M. Lasithiotakis, C. Psanis, and G. Biskos

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3IND_P048
Environmental diagnostics to assess the risk of built environment on exposure to bioaerosols under different indoor environmental conditions
Z.A. Nasir, L.C. Campos, L. Ciric, M. Canales, and I. Colbeck

3IND_P049
Impact of built environment characteristics on risk of TB transmission in slums

3IND_P050
Removal of model bacterial bioaerosol in a lab-scale electrostatic precipitator
F. La Motta, G. de Falco, R. Colicchio, P. Salvatore, A.G. Cicatiello, C. Pagliuca, C. Carotenuto, and F. Di Natale

3IND_P051
Investigation of exhaled particle dispersion in indoor environment: an experimental study in a classroom
G. Da, E. Géhin, S. Gooly, S. Delaby, S. Ritoux, T.-L. Ha, and E. Robine
Session: Instrumentation

3INS_P046
Development of methods for on line measurement
S. Iacobellis, C. Tortorella, A. Giove, and R. Nacci

3INS_P047
Cancelled

3INS_P048
Electric wind in a Differential Mobility Analyzer
M. Palo, E. Tamm, M. Eller, and J. Uin

3INS_P049
Estimating impactors loading mechanism using reflection microscopy
P. Garra, S. Kohler, A. Dieterlen, and G. Trouvé

3INS_P050
Flow cytometry as a rapid and multi-parametric tool to characterize bioaerosol in atmospheric particulate matter
S. Amalfitano, F. Marcovecchio, and C. Perrino

3INS_P051
High time-resolved multi-wavelength measurements of light absorption properties of atmospheric aerosol using a polar photometer

3INS_P052
Sub-3 nm particle detection with commercial TSI 3772 and Airmodus A20 fine condensation particle counters
J. Kangasluoma, M. Attoui, L. Ahonen, H. Vuollekoski, M. Kulmala, and T. Petäjä

3INS_P053
On the interpretation of a loading correction of the aethalometer
3INS_P054
Handheld personal airborne nanoparticle detector CANTOR – performance test
H.S. Wasisto, S. Merzsch, A. Waag, E. Peiner, and E. Uhde

3INS_P055
ChAMBRe – The development of an atmospheric chamber for bioaerosol study
P. Brotto, R. Cereseto, F. Parodi, V. Vigo, and P. Prati

3INS_P056
Mapping spatial variation in Black Carbon concentrations in the urban environment: approaches and challenges using mobile measurements

3INS_P057
First airborne measurements of the IAGOS-IIc aerosol package
U. Bundke, A. Ibrahim, M. Berg, N. Houben, and A. Petzold

3INS_P058
A novel approach for online measurement of stable carbon isotope ratio of carbonaceous atmospheric aerosols
Z. Ning, D. Kaul, D. Westerdahl, and B. Cary

3INS_P059
Online coupling of thermal-optical and radiocarbon analysis – deeper insight into sources of organic aerosols
K. Agrios, G. Salazar, and S. Szidat

3INS_P060
Application of a Particle Size Magnifier under high relative humidity conditions
D. Wimmer, A. Franchin, J. Backmann, K. Lehtipalo, and T. Petäjä

3INS_P061
Estimation of Organic and Elemental Carbon using FT-IR absorbance spectra from PTFE Filters
M. Reggente, A. M. Dillner, and S. Takahama
3INS_P062
Instrumental setup for flow-scanning CCN measurements and complementary aerosol characterization onboard the HALO aircraft

3INS_P063
Steady-state and transient effective density of cigarette smoke particles
T.J. Johnson, Ja.S. Olfert, C.U. Yurteri, R. Cabot and J. McAughey

3INS_P064
Performance evaluation of three co-located ultrafine particle monitors near the 710 in California
A. Mehadi, D. Hammond, J. Wright, A. Polidori, T. Morphy and R. C. Anderson

3INS_P065
Airborne studies with combined flights of research aircraft and multicopter unmanned aerial vehicles (UAVs)
K. Weber, C. Fischer, T. Pohl, M. Lange, and C. Boehlke

3INS_P066
A new sunshine duration sensor
M. Cataldi, F. Pasquini, E. Consiglio, E. Bolzacchini, and L. Ferrero
Session: PMx

3PMX_P040
Estimation of emission factor of wind-generated PM from open areas using a portable mini wind tunnel

3PMX_P041
PM10 concentrations in the urban area of Volos, Greece
G.T. Proias, P.T. Nastos, and A.G. Paliatsos

3PMX_P042
Refining the geographical origins of fine particulate pollution in Paris, France
J.-E. Petit, O. Favez, J. Sciare, V. Crenn, G. Mocnik, and E. Leoz-Garziandia

3PMX_P043
Increment of PM10 and CO2 during the rush hour in the underground subway station
S.-B. Kwon, S.-J. Bae, T.-S. Oh, J. Song, D. Park, and W. Jeong

3PMX_P044
Density assessment method of chemical components in urban submicron aerosol particles
J. Šakalys, D. Valiulis, E. Meinorė, V. Dudoitis, K. Kvietkus, and V. Ulevičius

3PMX_P045
PM10 metal composition and air mass origin at a coastal industrial site
M.A. Barrero, J.A.G. Orza, M. Cabello, and L. Cantón

3PMX_P046
Temporal trends of atmospheric PM10 levels in Atlantic Western Europe
M.A. Barrero, J.A.G. Orza, M. Cabello, and L. Cantón

3PMX_P047
Analysis of a PM high pollution episode under high humidity conditions
F. Lollobrigida, M. Sacco, M. M. Grosa, S. Bande, and A. Pannocchia
3PMX_P048
PM1 composition in an urban site in Venice (Italy): seasonal differences, relationship with meteorological condition and source identification
S. Squizzato, C. Agostini, M. Masiol, F. Visin, G. Formenton, R.M. Harrison, and G. Rampazzo

3PMX_P049
PM2.5 features variability among three warm seasons (2012, 2013, 2014) in the same urban background site in Po Valley
D. Bacco, F. Scotto, A. Trentini, S. Ferrari, G. Bonafè, C. Zigola, and I. Ricciardelli

3PMX_P050
Geochemical characterization of fine particulate matter (PM2.5): comparison between an urban and an airport site in Treviso (Veneto - Italy)
S. Squizzato, M. Cazzaro, F. Visin, S. Sollecito, D. Bassano, and G. Rampazzo

3PMX_P051
ZeFir, a new integrated tool for wind sector apportionment by Non-parametric Wind Regression
J.-E. Petit, O. Favez, F. Canonaco, A. Ockler, T. Amodeo, and J. Sciare

3PMX_P052
Study of air pollution in the proximity of a waste incinerator

3PMX_P053
Removal of particulate matter in wet flue gas desulfurization system
J. Zhang, C.J. Li, C. H. Zheng, and X. Gao

3PMX_P054
Spatial distribution and potential sources of trace elements in PM10 monitored in urban and rural sites of Piedmont Region
M. Malandrino, E. Padoan, A. Giacomino, M.M. Grosa, F. Lollobrigida, S. Martini, and O. Abollino
3PMX_P055
PM characterization in a high mountain site during 2014
E. Yubero, N. Galindo, R. Castañer, J. Giménez, J.F. Nicolás, S. Caballero, M. Varea, J. Gil-Moltó, C. Pastor, and J. Crespo

3PMX_P056
Tracers of traffic emissions in urban aerosols: application of Zn isotopes for source fingerprinting
R. Ochoa Gonzalez, S. Strekopytov, F. Amato, X. Querol, C. Reche, and D. Weiss
SPECIAL SESSION: Polar Aerosol

3SPA_P018
Role of coarse and fine nitrate particulate as source of snow nitrate in the high Arctic
F. Spataro, A. Ianniello, R. Salvatori, M. Valt, G. Esposito, and M. Montagnoli

3SPA_P019
Seasonal evolution and neutralization processes of anthropic sulfate at 3 Arctic sites: Ny Ålesund (Svalbard Island), Station Nord, and Thule (Greenland).

3SPA_P020
Five years of aerosol size distribution during spring-summer campaigns at Ny Ålesund (Svalbard Islands, Norway)

3SPA_P021
Source identification of atmospheric particle-bound metals at Terra Nova Bay, Antarctica
A. Bazzano, F. Soggia, and M. Grotti

3SPA_P022
A closure experiment between Lidar and tethered balloon measurements in the Arctic: comparison of optical properties along vertical profiles

3SPA_P023
Three years of aerosol vertical profiles in the Arctic (Ny-Ålesund, Svalbard)

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3SPA_P024
Atmospheric aerosol study through ICESat-2: potentialities and limits
L. Mona, A. Amodeo, and G. D’Amico

3SPA_P025
Aerosol composition and CCN activation measured at coastal site in Antarctica

3SPA_P026
Water-soluble trace elements in Artic aerosol: possible indicators of extreme events?
C. Turetta, E. Barbaro, R. Zangrando, A. Gambaro, and C. Barbante
SPECIAL SESSION: Source Apportionment

3SSA_P001
Source apportionment with uncertainty estimates of PM2.5 in Ostrava, Czech Republic using Positive Matrix Factorization
T. Vossler, L. Černikovský, J. Novák, and R. Williams

3SSA_P002
Integration of meteorological variables in ME-2 applied to datasets from different environments
A. Crespi, V. Bernardoni, G. Valli, and R. Vecchi

3SSA_P003
Rolling PMF analysis for a full-year source apportionment of organic aerosols

3SSA_P004
Ambient particulate source apportionment in a complex-topography coastal area in NW Italy
L. Tositti, E. Brattich, S. Parmeggiani, S. Scarselli, M. Chiari, P. Fermo, and S. Nava

3SSA_P005
SPECIEUROPE: The European database for PM source profiles
D. Pernigotti, C.A. Belis, and L. Spanò

3SSA_P006
Assessment of organic markers for source apportionment in a suburban area
L. Marmureanu, J. Vasilescu, F. Canonaco, A.S.H. Prévôt, D. Nicolae, and C. Talianu

3SSA_P007
Organic aerosol sources in London 2013: Exploring the solution space within ME-2
E. Reyes-Villegas, D.C. Green, F. Canonaco, H. Coe, and J.D. Allan

3SSA_P008
PMF source apportionment study of outdoor and indoor PM10 during a period of extensive biomass burning in Athens, Greece
**3SSA_P009**

Improvement of PMF methodology using an extended suite of specific organic tracers: What benefits/what drawbacks?

B. Golly, A. Waked, O. Favez, A. Albinet, M. Pellerano, A. Armengaud, A. Bruno, A. Giordano, J.-L. Besombes, and J.-L. Jaffrezo

**3SSA_P010**

Source apportionment of PM2.5 during haze events in Beijing, China

M. Zheng, Y. Zhang, C. Yan, and X. Li

**3SSA_P011**

Composition and sources of aerosol in Chinese megacities


**3SSA_P012**

Cancelled

**3SSA_P013**

Source apportionment of fine PM using hourly species concentrations in a background area of the Po Valley: Preliminary results

C.A. Belis, M. Bressi, V. Pedroni, J.P. Putaud, A. Malaguti, E. Petralia, M. Berico, F. Cercato, and S. Rossetto

**3SSA_P014**

PM source apportionment by Positive Matrix Factorization (PMF) using an extended aerosol chemical characterization including specific molecular markers


**3SSA_P015**

A comparison of four receptor models for the source apportionment of PM2.5 in Halifax, Nova Scotia during the BORTAS-B experiment

T. Barnett, H. Qadoumi, J. Haelssig, J.R. Pierce, J.E. Franklin, A.J. Wheeler, S.E. Craig, C. Wilson, E. Patrick, and M.D. Gibson

**Last minute posters**

**3LP_001**

Autooxidation reactions of volatile organic compounds

Dominik Pitton and Thorsten Hoffmann
Sponsors and Exhibitors

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AIRMODUS

Address: Pietari Kalminkatu 1 F 1,
FI-00560 Helsinki, Finland
Phone: +358 50 5666043
E-mail: sales@airmodus.com
Website: www.airmodus.com

Airmodus products enable the detection and monitoring of ultrafine particles and the early stages of aerosol particle formation. Airmodus expertise serves the purposes of atmospheric sciences and aerosol research, as well as any industrial applications where nano sized particles are generated on purpose or as an unwanted by-product.

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Airmodus offers Particle Size Magnifier systems that allow you to detect particles as small as 1 nm in diameter; easy to use Condensation Particle Counters with a cut-off size fit for your measurement needs; and special mass spectrometer inlets for the detection of challenging gaseous compounds.
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AMS Analitica is an Italian air sampling equipment manufacturer dedicate to ambient and emission monitoring. Stack emission sampling lines and impactors, ambient PM10 and PM2.5 in compliance with international requirements as per EPA and CEN, asbestos samplers and accessories and all spare tarts and accessories dedicated to ambient monitoring.
Biral (Bristol Industrial & Research Associates Ltd)

Address: Unit 8 Harbour Road
Portishead
Bristol BS20 7BL UK
Phone:+44 (0) 1275 847787
Email: Enquiries@biral.com
Website: www.biral.com

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Cambustion Ltd.

Address: J6 The Paddocks
347 Cherry Hinton Road CB1 8DH Cambridge, UK
Phone: +44 1223 210250
Fax: +44 1223 210190
Email: cambustion@cambustion.com
Web: www.cambustion.com

The Cambustion Centrifugal Particle Mass Analyzer (CPMA) continues to find new applications as an aerosol laboratory tool for generating a monodisperse aerosol by mass, with a growing group of researchers publishing around the world.

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Meet us at the Cambustion exhibit – booth No. 11
Catalytic Instruments GmbH & Co. KG

Address: Lug ins Land 53
D-83024 Rosenheim Germany
Phone: +49 8031 901 777-6
Mobile: +49 171 621 6947
Fax: +49 8031 901 777-5
Email: info@catalytic-instruments.com
Website: www.catalytic-instruments.com

Catalytic Instruments is a German company specializing in the production of innovative aerosol instruments based on “catalytic stripper” technology. A catalytic stripper is a heated catalytic element used to remove the particle and gas phase semi-volatile fraction of an aerosol. Applications include measurement of diesel, locomotive, and gas turbine exhaust. Current products include the CS08 and CS015 - catalytic strippers designed for aerosol flowrates of 8 and 1.5 L/min, respectively. A CVF100 or Catalytic Vapor Filter is also offered for the removal of CPC exhaust vapor. For unique applications, Catalytic Instruments will work with the customer to provide individual solutions.
Comde-Derenda GmbH

Address: Kieler Strasse, 9
14532 Stahnsdorf GERMANY
Phone: +49 332969027-10
Email: info@orion-srl.it
Website: www.orion-srl.it

Comde-Derenda GmbH is a manufacturer of devices for sampling and measuring fine dust. The sampling devices for particulate matter PM$_{10}$ and PM$_{2.5}$ are reference devices according to European Guidelines CEN 12341 (PM$_{10}$) and CEN 14907 (PM$_{2.5}$).

Our company is certified according to DIN EN ISO 9001:2008

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Copley Scientific is considered the world's leading manufacturer of test equipment for Metered-Dose Inhalers (MDIs), Dry Powder Inhalers (DPIs), Nebulizers and Nasal Sprays. In cooperation with aerosol characterisation equipment experts, MSP Corporation (MN, USA), Copley Scientific also offers a comprehensive range of aerosol sampling and particle sizing equipment for use in industrial and academic applications. This includes the world-renowned MOUDI and Nano-MOUDI range of cascade impactors, the Wide Range Particle Spectrometer Model 1000XP, the Real-Time Fibre Monitor Model 7400AD and Water-based Condensation Particle Counters (WCPCs). Copley Scientific has offices and product experts based in Nottingham, UK and Basel, Switzerland, serving the European market.
Dekati Ltd.

Address: Tykkitie 1
FI-36240 Kangasala, Finland
Phone: +358 3357 8100
Email: sales@dekati.fi
Website: www.dekati.com

Dekati Ltd. has provided high quality instrumentation for fine particle measurements successfully for over 20 years. Our measurement solutions include complete fine particle measurement setups including both sample conditioning and particle detection for <10µm particles. All Dekati® instruments are developed, manufactured and calibrated in Finland with strict quality requirements and provided with a standard two year warranty. Dekati® Instruments are used for example in the following application areas:

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- Pharmaceutical Drug Screening and Inhalator R&D
- Nanotechnology and Material Processing

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Digitel Elektronik AG

Address: Alte Gasse 18
CH-8604 Hegnau, Switzerland
Phone: + 41 44 908 20 30
Fax: +41 44 908 20 31
Email: info@digitel-ag.com
Website: www.digitel-ag.com

Since 1970 Digitel Elektronik AG designs and manufactures successfully measurement instrumentation for environmental monitoring. Digitel Elektronik AG is located in Switzerland and sells worldwide over a network of local resellers. Their experience and the state-of-the-art production processes stand for approved first-class quality products. Digitel provides a full range of High and Low Volume sampler products for immission measurement such as PM10 and PM2.5 according to the directives EN12341:2014. In addition to their standard products Digitel offers customer-specific solutions with specialized know-how and profound experience of over 40 years as environmental professionals. Digitel sets high quality standards and is well known to be the leading company when it comes to precision and reliability. All instruments made by Digitel have a long lifetime, low power consumption and a low noise level.

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Ecotech Pty Ltd.

Address: 1492 Ferntree Gully Road
Knoxfield, Victoria, Australia 3180
Phone: +61 3 9730 7800
Email: enquiries@ecotech.com
Website: www.ecotech.com

The curiosity for scientific solutions that got us started in this business still remains at the heart of Ecotech. We are acutely aware of the ever changing nature of our world and the need to stay connected with the developments. Our collaborative work with the global research community funnels the insight for continuous innovation of products to support research and science.

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WINAQMS used for data collection for ambient air and emission monitoring applications

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Address: Via Aurora 15
Fonte Nuova, RM 00013, Italy
Phone: (+39) 06 9050248
Email: info@fai-instruments.it
Website: www.fai-instruments.it

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Grimm Aerosol Technik GmbH & Co. KG

Adress: Dorfstraße 983404 Ainring, Germany
Phone:+49-8654-578-0
Fax:+49-8654-578-35
mail: info@grimm-aerosol.com
Website: www.grimm-aerosol.com

GRIMM Aerosol Technik GmbH & Co.KG was founded over 30 years ago by Dr.-Ing. Hans-Jürgen Grimm in Bavaria/Germany. Today, GRIMM Aerosol Technik is one of the worldwide leading companies in the field of high-tech aerosol measurement instrumentation due to its innovations and quality manufacturing. GRIMM Aerosol Technik offers a wide range of complete solutions for the continuous measurement of fine and ultrafine aerosols. Instruments such as Environmental Dust Monitors, Aerosol Spectrometers, Particle Counters and Sizers, Filter Testers, and Aerosol Generators consistently meet the requirements of a world-wide increasing number of customers in research and industry.

Specialists in-house will advise about the correct instruments for particular applications, e.g. for ambient air, emission, occupational health, filter efficiency and / or exhaust gas measurements, for quality control and for pharmaceutical, atmospheric or epidemiological studies.

Recently expanded production facilities are located in Pouch/Saxony-Anhalt/Germany. World-wide first-class customer service is offered through our subsidiaries and offices in USA, Canada, UK, Russia, India, China and South-East Asia, and supplemented by a close network of international representatives.
Gruppo Sapio

Address: Via S. Pellico, 48
20900 Monza, Italy
Phone: +39 039 83981
Email: gruppo@sapio.it
Website: www.grupposapio.it

COMPANY OVERVIEW
Founded in 1922 in Monza, Sapio has been operating for over 90 years in the Italian technical and medical gas sectors. Today Sapio is an industrial Group capable of satisfying the market’s demands and requirements with the ability to develop new technologies and personalised services both in the industrial and in the public/private health sectors. Thanks to our network of production facilities, sales branches and 50 subsidiaries, we operate in the Italian market and abroad in France, Germany, Slovenia and Turkey.

OUR MISSION
Even though they cannot be seen or touched, these gases are essential for improving life and for providing a better future.
Each day, we at Sapio make the most of our passion, know-how and resources to offer innovative products, technologies and services designed to improve quality of life.
Today’s creators of a better tomorrow for everyone.

BUSINESS
Through our dedicated company SAPIO, we produce, develop and market gases, special mixers, new technologies and integrated services for the industrial sector. Instead, for the public and private health sectors we produce medical gases and provide integrated domiciliary assistance services through SAPIO LIFE.
We are also present in the world of biotechnology through the company BIOREP who can provide services on behalf of third parties for the cryopreservation of biological material and management of clinical trials.
LabService Analytica was created in 1984 to commercialise certified reference material and dedicated instruments for the analysis of samples in food and environment laboratories. During this years LabService focused its attention to environmental monitoring in terms of sampling and monitoring, being partner of the most European Instruments producers. Then, with this experience, since the beginning of 2013, LabService has been developing a technology for the real-time detection and rapid evaluation of olfactory annoyance, through the integration of automatic remote systems able to record the olfactory perception of human receptors and perform representative odour samples when the odour episode is in progress.
The AethalometerR, the world’s most relied upon real-time monitor for aerosol black carbon was invented by Magee Scientific 35 years ago and is manufactured by Aerosol d.o.o., Slovenia.
Over 1500 Aethalometers operating throughout the world, stationed on all seven continents, have resulted in an unequalled history of in-the-field performance, as well as dozens of published scientific reviews, intercomparisons and applications.
The newest model, the AE-33, has patented DualSpotT technology to eliminate aerosol loading effects of other filter-based measurements, seven wavelengths for superior discrimination between biomass burning, combustion emissions and detection of mineral dusts and validation to a world reference standard.
The AE-33 Aethalometer is unsurpassed for aerosol black carbon monitoring, especially for source apportionment, woodsmoke, diesel particulate emissions, kiln and other industrial process studies and engine testing.
Please review our website for more specifications, proof of performance, application notes and user support.
Mega System Srl

Address: Via Don Fracassi, 41  
20010 Bareggio (MI), Italy  
Phone: +39 02 9036 1622  
Email: info@megasystemsrl.com  
Website: www.megasystemsrl.com

Mega System has been manufacturing equipments for the control and monitoring of the atmospherically pollution since 1981.  
We are the only company in our field that offer high quality and precision instruments at competitive prices and totally made in Italy.  
The hardware and software engineering, the realization of electronic boards, the assembling, the star up, the calibration and the relevant assistance are completely in-sourced and carried out with efficiency and accuracy by our highly qualified and trained personnel.  
Moreover, we offer flexibility in the configuration of the systems we propose in according to our customers needs.  
Our constant commitment is finalized to guarantee a high level of quality for our products and for the offered services, to ensure customers satisfaction.  
We want to take this opportunity to introduce the sequential system LIFETEK PMS, for the control and continuous monitoring of particulate matter by gravimetric method.  
The instrument is built in accordance to the European standard EN 12341:2014 and it is currently undergoing certification by TUV Rheinland in Cologne.
Metrohm Applikon B.V.

Address: De Brauwweg 13
3125AE Schiedam, The Netherlands
Phone: +31 (0)10 29 83 555
Email: analyzers@metrohm-applikon.com
Website: www.metrohm-applikon.com

Metrohm Applikon, headquartered in Schiedam, the Netherlands has more than 35 years' experience in delivering solutions for laboratory, at-line and on-line wet chemical analysis. As part of the worldwide Metrohm AG group, Metrohm Applikon has access to Metrohm's know-how and expertise in ion analysis.

MARGA (Monitor for AeRosols and Gases in ambient Air) is an on-line ion chromatography system that measures the concentration of soluble inorganic species in aerosols and their related gas phase components in ambient air. Simultaneous hourly results for gases and aerosols can be accessed from a remote workstation, with result quality being maintained by an internal standard and detailed system diagnostics.

Jointly developed with ECN, The Netherlands, MARGA is distributed world-wide through Metrohm Applikon's distributor network; most members of which belong to the Metrohm group of companies.
MSP Corporation

Address: 5910 Rice Creek Parkway, Suite 300
Shoreview, MN 55126
Phone: 651-287-8100
Fax: 651-287-8140
Email: sales@mspcorp.com
Website: www.mspcorp.com

MSP Corporation is an instrument and equipment company creating products for scientific research and industrial applications. We are known world-wide for our expertise in micro- and nanoparticles and their creative use in research and manufacturing. Our products are user friendly and designed as productivity enhancing tools for aerosol research, pharmaceutical inhaler testing, thin-film deposition in semiconductor device fabrication, contamination control, and life science applications. Contact us today to solve your own application challenges and connect to our world-wide distribution network. Get acquainted with our Micro Technologies, and Big Ideas.
Naneos particle solutions is a Swiss company that builds miniature particle detectors. We strive to build instruments that are more portable, simpler to use and need less maintenance than traditional nanoparticle detectors.

The partector, our main product, is the world’s smallest nanoparticle detector and measures the health relevant metric “lung deposited surface area” by induced currents, a new and robust detection technique.

The partectorTEM is an ultra-portable nanoparticle surface area dosimeter with integrated TEM sampling for workplace and exposure monitoring.

Our nanoparticle dosimeters are used in:
- Personal exposure monitoring & health studies
- Laboratory and industrial production facility surveillance
- Mobile and stationary environmental monitoring
- Airborne measurements with drones and blimps
- Onboard car emission measurements
- TEM sampling
Orion srl

Address: Via A. Volta, 25/B
35030 Veggiano PD, Italy
Phone: +39 0499006939
Email: info@orion-srl.it
Website: www.orion-srl.it

Look further! This is ORION’s goal in the Searching for Innovation. ORION gives clients complete support in continuous environmental monitoring: we are always looking for the last best technological solutions and business experts. Customer satisfaction is the main focus of our projects.

Established in 1988 ORION has achieved customer-focused market leadership in the design, production, supply, commissioning and maintenance of Air, Emission and Water continuous monitoring systems.

Orion provides rapid and flexible responses to monitor the quality parameters of environment such as continuously measure of chemical and physical variables of an industrial process. This is the way we design and build integrated solutions for our business partners.

Orion supplies certified instruments compliant with Italian and European environment monitoring regulatory standards, and QAL1 certified systems.

Stop by our booth and see the new THERMO 5030i for PM-10 and PM-2.5 monitoring, the THERMO MAAP 5012 for the measurement of black carbon and aerosol light absorption properties, and THERMO PDR 1500 Aerosol monitor.

Orion is also exclusive distributor for Italy for the Xact analyzer, the innovative automatic instrument for on-site metal monitoring in PM10 or PM2.5.

Visit www.orion-srl.it and see what we can do for you!
PALAS GmbH

PALAS® – MORE THAN 30 YEARS OF EXPERTISE IN AEROSOL TECHNOLOGY

Address: Greschbachstrasse 3b
76229 Karlsruhe, Germany
Phone: +49 721 96213-0
Fax: +49 721 9621-333
Email: mail@palas.de
Website: www.palas.de

With over 50 patents submitted, Palas® has set the standard in aerosol and particle technology for more than 30 years. Through continuous innovations, we achieve extraordinary quality and durability in our products.

The result is unique technical and economic advantages for our customers. Palas® has established itself as a global market leader in the fields of aerosol generation, aerosol dilution and aerosol particle measurement technology. Renowned companies, universities and research institutions in approximately 60 countries put their trust in Palas® precision technology.

OUR CORE COMPETENCIES

- Filter test systems *
- Aerosol spectrometer
- systems Fine dust monitoring
- systems Nanoparticle measurement technology
- Particle generation systems *
- Dilution systems *
- Clean room particle technology Special developments Calibration systems
- Services
- Training courses and seminar
Perma Pure LLC

Address: 8 Executive Dr.
Toms River, NJ 08755
Phone: +1 732-244-0010
Email: info@permapure.com
Website: www.permapure.com

Perma Pure LLC Makes Analysis Possible by providing solutions to reduce and control the moisture content of your sample gas stream. We offer a wide range of Sample Gas Dryers, Humidifiers, Moisture Exchangers and Accessories for virtually any analytical application using our exclusive Nafion tubing as the moisture transfer membrane. Featured at this conference is the MD-700 Large Diameter Gas Dryer developed to control the humidity and limit particle losses for PM and Aerosol analysis applications. With over 40 years of experience, we can help you select or design the right component for your equipment or choose the right product for your analysis project.
Project Automation SpA

Address: Viale Elvezia, 42
20900 Monza (MB) Italy
Phone: +39039.2806.1
Email: info@p-a.it
Website: www.p-a.it

Project Automation has been active for over thirty years in environmental monitoring, with an offer of products and services that includes monitoring networks for the main environmental issues (Air, Water, Electromagnetism, Noise...), environmental information systems, modelling and maintenance and support services before and after sale.

Project Automation in-depth field experience allows us to update continuously our environmental solutions keeping a close attention towards new regulations and technological innovations together with an ongoing search for quality.

The availability of accurate and reliable environmental data is the key element for a serious environmental policy and proper public information. To achieve this objective it is essential to assure the overall quality of the detection process and, therefore, the quality of collected data.

Project Automation supports the Customer in the environmental maintenance activities, from data collection and transmission to its subsequent processing, publication and circulation, all achieved using most advanced technologies.

The offer related to the air pollution monitoring consists mainly in monitoring networks made up of fixed stations and/or mobile units conforming to the European and national laws in force. A detection network allows the carrying out of a careful and uninterrupted control of air pollution problems meeting the requirements of current laws.

The maintenance service ensures monitoring network efficiency and functionality. The service includes maintenance activities at different levels (pre-emptive, corrective and evolutionary) offered by qualified technicians.
SRA Instruments SpA

Address: Via alla Castellana, 3
20063 Cernusco sul Naviglio (MI), Italia
Phone: +39 02 92143258
Email: info@srainstruments.com
Website: www.srainstruments.com

SRA the Solution Provider of excellence analytical and personalized systems

SRA Instruments directly present in Italy and France, operates in the field of research, development and customization of new analytical solutions dedicated to environmental, food, petrochemical and energy areas.
SRA is a one of the most important European Premier Solution Partner of Agilent Technologies on whose instrumentation GC, GC-MS, LC, LC-MS, ICP, ICP-MS and FT-IR the company builds its own solutions.
The SRA products are aimed to increase the instrumental performance and the laboratory productivity starting from sample preparation systems up to solutions dedicated to speed up or improve the analytical process.

SRA Instruments manufactures specific analyzers, developed to satisfy the protocols required by the various Institutions and to meet the specific industry needs, employing the best analytical technologies available on the market, and applying its experience in providing useful solutions to the analytical methodology as a whole.

SRA Instruments acts on the territory through a commercial network of vendors and agencies. A capillary and professional organization able to guarantee an efficient and quality response in a short time.
The SRA organization provides a team of application specialists and assistance technicians to ensure everywhere in Italy and France the overtime maintenance of the results obtained at the initial testing.
Sunset Laboratory Inc.

Address: 10180 SW Nimbus Avenue Suite J/5
Tigard, OR 97223-4341
Phone: 503-624-100
Fax: 503-620-3505
Website: www.sunlab.com

Sunset Laboratory Inc. has specialized in the analysis of air pollution for carbon aerosols since 1984. As well as performing the OCEC analysis, Sunset Laboratory also provides instrumentation for carbon aerosol analysis. Our equipment is suitable for the laboratory or in the field, and ready for use with the NIOSH method 5040, IMPROVE-A, and EUSAAR 2 protocols. Clients include researchers working for government regulatory agencies, private companies, commercial laboratories, and universities.
Tecora

Address: 211-213-215 rue la fontaine
94134 Fontenay sous bois, France
Phone: 0039-024505501
Email: aedo.marri@tecora.com
Website: www.tecora.com

Tecora group is an international company, born from the merger between the French company Arelco ARC and the Italian company TCR Tecora. Tecora, a division of Omnisense Technologies, is headquartered in Paris, and has offices in Milan (Italy).

Tecora is a leading supplier of stack emissions sampling systems, continuous dioxin emission samplers, gravimetric samplers, industrial hygiene devices, oxygen and combustion control analyzers.

Our mission is to design products compliant to international standards, to improve the productivity of environmental engineers, and to reduce off-spec products in industrial processes. Tecora is ISO 9001, ISO14001 and OSHAS 18001 certified, while some of our products are certified by Tuv and mCERTs. Quality is ensured through robust company processes, where the customer is informed constantly about predicted delivery terms, while components and suppliers are screened and checked to ensure conformity to requirements.

Tecora is a recognized brand in Europe and serves a large customer base worldwide, thanks to its network of 40 distributors specialized in environmental and process applications, which can ensure technical and service support.

Tecora’s main customers are Environmental Agencies, environmental laboratories, indoor air quality consultants and industries such as cement, power, oil refining, steel and metal. Tecora’s product specialists are able to answer any queries regarding application issues and to develop with the customer the right solution for any environmental investigation.
Testo AG

Address: Testo-Strasse 1
79853 Lenzkirch, Germany
Phone: +49 7653 681 5062
Email: sales-nanoparticle@testo.de
Website: www.testo-particle.com

Testo AG, with its headquarters in the Black Forest in Germany, has recently integrated the subsidiary Matter Aerosol as developer of innovative nanoparticle technologies like the DiSCmini - Diffusion Size Classifier miniature. Testo AG is a world market leader in the field of portable and stationary measurement solutions. In 30 subsidiary companies around the world, 2,500 employees research, develop, produce and market for the high-tech company. The measurement technology expert convinces over 650,000 customers worldwide with highly precise measuring instruments and innovative solutions for the measurement data management of tomorrow. Products from Testo AG help to protect the environment and the health of humans, to save time and resources, and increase the quality of products and services.
Thermo Fisher Scientific

Address: Strada Rivoltana
20090 Rodano (MI), Italy
Phone: +39 02 95059 238
Email: sara.gagliardi@thermofisher.com
Website: www.thermoscientific.com

Thermo Fisher Scientific Inc. is the world leader in serving science, with revenues of $17 billion and approximately 50,000 employees in 50 countries. Our mission is to enable our customers to make the world healthier, cleaner and safer. We help our customers accelerate life sciences research, solve complex analytical challenges, improve patient diagnostics and increase laboratory productivity. Through our premier brands – Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific and Unity Lab Services – we offer an unmatched combination of innovative technologies, purchasing convenience and comprehensive support.
Topas GmbH

Technologie-orientierte Partikel-, Analysen- und Sensortechnik

Address: Oskar-Röder-Str. 12 01237 Dresden GERMANY
Phone: +49 (351) 21 66 43 - 0
E-mail: office@topas-gmbh.de
Website: www.topas-gmbh.de

Topas GmbH Dresden is a specialist company in the field of aerosol and particle technology. Our standard product range comprises:

- aerosol generators (mono- and polydisperse, solid and liquid particles)
- particle size measuring instruments for aerosols and liquids
- aerosol dilution systems
- electrostatic aerosol neutralizers
- process aerosol monitors
- filter testing technology and instruments
- clean room measuring equipment
- pore size measuring instruments

Topas also provides solutions for special applications like the dispersion of complex powders, test systems for particle filters and for adsorptive filters, filter media testing, blow-by measuring etc. Our corporate philosophy allows us to meet a variety of customer needs. Many years of experience, our know-how as well as close cooperation with universities, research centres and industrial partners is the ideal basis for the development of new and innovative solutions. Our reliable measuring and testing equipment has proven successful worldwide.
As an international leader in measurement technology for over 50 years, TSI Incorporated (www.tsi.com) designs and manufactures precision instruments for aerosol measurement which are recognized worldwide such as our SMPS, CPC, APS, EEPS and many more. During EAC 2015, the TSI Team will present its new products:

- The new Electrospray Aerosol Generator with Soft-X-Ray neutralizer which generates high concentrations of particles in the 2 to >150 nm size range. A Combination with the SMPS allows sizing of nanoparticles in liquid phase or macromolecules.
- The recently introduced “Nanoparticle Emission Tester (NPET)”, a portable, easy to use, cost effective instrument dedicated to Engine exhaust and combustion emissions researches.

TSI instruments are used in different application areas such as:
+ Air quality monitoring
+ Atmospheric and climate studies
+ Combustion Processes
+ Inhalation toxicology
+ Filter testing
+ Nanotechnology and Material Processing

TSI Electrospray, NPET, SMPS and the portable Nanoscan and OPS will be demoed on the TSI booth.

Stop by at our booth and learn more about our products!
URG Corporation

Address: 116 South Merritt Mill Road
Chapel Hill, NC 27516 USA
Phone: 919.941.2753
Email: info@urgcorp.com
Website: www.urgcorp.com

URG designs and manufactures complete air sampling systems as well as individual components. Our state-of-the-art Ambient Ion Monitor (AIM) provides continuous real-time measurements of nitrate, sulfate, nitrite, phosphate, chloride, ammonium, sodium, calcium, potassium, magnesium, hydrogen chloride, nitric acid, sulfur dioxide, ammonia, and water soluble organics. We also offer many manual sampling systems such as the Versatile Air Pollutant Sampler (VAPS), Medium Volume Particulate Sampler, and the Annular Denuder System which was used by the USEPA to create the Compendium Method IO-4.2. Our product line includes Teflon coated cyclones with various cut-points and flow rates, Stainless Steel cyclones and filter holders for diesel emissions, and many different sizes of annular denuders.
Xearpro srl

Address: Via Giulio Vegni, 13
20825 – Barlassina (MB), Italy
Phone: (+39) 0362 525801
Email: info@xearpro.com
Website: www.xearpro.com

Xearpro manufactures instrument for the sampling of aerosol particles and gas in emission, immission and hygiene and health area.
We consider Life Cycle Assessment of all our activities and products, and we constantly monitor how to improve our quality.
Isokinetic probe, nozzle, heated box, sampling system and a new concept of personal sampler device will be presented at the EAC, visit our booth.
In conjunction with University of Brescia and Smart Solutions we developed a Smart Store technology, a simple solution for chemical preparation of sampled filter or food, for qualitative and semi-quantitative analysis of elements from Aluminium to Uranium.
Xearpro – X Earth Protection
Waters SpA

Waters

THE SCIENCE OF WHAT’S POSSIBLE.

Address: Viale Dell’Innovazione, 3
20126 Milan, Italy
Phone: +39 022650983
Email: servizioclienti@waters.com
Website: www.waters.com

Since 1958, Waters Corporation has been in the business of making innovative analytical instruments that assist scientists in reaching their scientific goals, increase productivity, and earn laboratory-based organizations a higher return on their investments in research, development, and quality control.

Waters creates business advantages for laboratory-dependent organizations by delivering practical and sustainable scientific innovation to enable significant advancement in healthcare delivery, environmental management, food safety, and water quality. Waters products are used by pharmaceutical, life science, biochemical, industrial, academic and government organizations working in research and development, quality assurance and other laboratory applications. Waters UPLC, HPLC and MS instruments and consumables are used in a broad range of industries to measure the chemical, physical and biological composition of materials.

Customer success is our mission. Waters creates business advantages for laboratory-dependent organizations by delivering practical and sustainable scientific innovation to enable significant advancements in such areas as healthcare delivery, environmental management, food safety, water quality, consumer products, and high value-added chemicals. Bringing keen understanding and deep experience to those responsible for laboratory infrastructure and performance, Waters helps customers make profound discoveries, optimize lab operations, deliver product performance, and ensure regulatory compliance. Pioneering a connected portfolio of separation and analytical science, laboratory informatics, and mass spectrometry, Waters’ technology breakthroughs and laboratory solutions provide an enduring platform for customer success.
MCV, SA

Address: Highway A-2, km 575. ES08293 Collbató (Barcelona) SPAIN
Phone: +34 93 777 05 00
Fax: +34 93 777 05 50
Web: www.mcvsa.com
E-mail: cial@mcvsa.com

MCV is a company established for more than 30 years in order to design and develop instrumentation, equipment and systems related to the environment, especially in the areas of air quality control and meteorology.

The main field of activity of the company includes the design of equipments, management, control and monitoring systems, data acquisition systems, software and civil works.

MCV due to its experience and leadership in the environmental engineering field offers their clients the development of customize solutions to their needs.

The facilities of the company allow us to face any kind of project as the construction of mobile units, monitoring stations for automatic networks, radars and meteorological towers, production of equipments for the sampling of gases and particles or data acquisition systems.

MCV has the certifications for quality and environmental management systems ISO9001, ISO 14001, EMAS and OHSAS 18001 and also accreditation ISO/IEC 17025 for Calibration.

MCV develops, manufactures and distributes equipment to measure and control the air quality as: HVS (PM10, PM2.5, PM1, HAP, TSP heads), VOC’s samplers, Calibration systems with air zero generator and automatic analyzers for SO\textsubscript{2}, NO\textsubscript{x}, O\textsubscript{3}, CO, H\textsubscript{2}S, BTX...

MCV carries out tasks of maintenance, technical assistance, verification and calibration of the measurement instruments either on site or in the company facilities. Our team, formed by technical specialists in mechanics, electronics and informatics, possesses the technical resources to give an effective response to the customer requirements and incorporates the last updates and innovations. Therefore MCV supports their customers in order to give an integral service.
Europa Environmental is a consortium of independent companies in Europe and Africa dedicated to the supply and support of advanced environmental monitoring technology. Our aim is to bring you the world's best instrumentation, spare parts, service, technical support and training.

All members of the **Europa Environmental Group**

- advise - sell - support- hire and provide a range of air quality monitoring services including field operation, analysis and reporting. They are all specialized in monitoring particulate matter and gaseous pollutants in the air, indoors and outdoors and in just about any location imaginable. They would be happy to discuss your particular application and hopefully suggest a practical and affordable solution.

This group of high skilled people throughout Europe and Africa (with other Worldwide links) have more than 25 years of experience in serving their local Authorities and support their scientific partners. Using their vast network of contacts the EEL group is on top of most recent technologies in their domain.

The Group regularly introduce new advanced monitoring technology into the market for monitoring and control the air quality as: HVS (PM10, PM2.5, PM1, TSP heads), VOC's samplers, Calibration systems with air zero generator and automatic analyzers for SO2, NOx, O3, CO, H2S, BTEX, Particulate monitors, Black Carbon monitors,

On the EAC 2015 we introduce the revolutionary AQ Mesh monitoring system, a miniaturized monitoring station for NO-NO2-CO-O3-SO2 and very soon PM!! together with Ambient Temp. Pressure and %RH. All components in a 2 kg station, battery operated for 2 years. Visit our booth and see the system live.

**Also see:** www.aqmesh.com

We will also show the World’s Smallest Black Carbon Monitor (pocket size). The Model AE-51 Micro Aethalometer from AETHLABS USA. Visit our booth and see the monitor live.

**Also see:** www.aethlabs.com
HEALTH EMERGENCY

- Always inform the reception desk about what happened;
- If within a few minutes after the call no one intervene, call the medical first aid (118);
- If possible assist the person till the first responders arrive;
- Cooperate with responders if necessary.

FIRE

- Go away as fast as you can from the fire area;
- Do not use lifts;
- Inform the reception desk if there is not a fire alert already;
- In case of smoke move away on all fours, close to the floor, with a wet handkerchief on your mouth and nose;
- Intervene only if strictly necessary never forgetting your and other people’s safety;
- Follow emergency operators instructions (green and orange vest) and of first responders (firemen, police, and so on);
- Move keeping close to the walls in case of poor visibility;
- In case of fire out of the place you are in: close the door, seal every split to avoid smoke entering and inform responders.
- If someone’s clothes catch fire: don’t let him/her run, lay him/her down and wrap him/her with a blanket or other not synthetic clothes to put the flames out.

EVACUATION

- During lectures the teacher supervises the evacuation. He/she makes students and other people leave the classroom, makes sure that no more people are in and then gets out closing the door behind him/her without locking.
- Follow the instructions given by the emergency operators to reach the safe places or go out of the building.
- Help people who find it difficult to move: disabled people, pregnant women, people with crutches and so on. In case you have to stay in a place, inform people outside the building about your location.

LET’S DO PREVENTION TOGETHER:

- Stay calm, think to your own and other people safety and cooperate with responders.
- Know the places you live in: in classroom, library and so on always look where the green signal for escape routes are;
- Know the places you live in: check the phone number of the nearest reception desk to alert in case of emergency (reception desks inform first responders and emergency operators).

USEFUL NUMBERS

Reception desk 02-6448-6099
Emergency number 112
Firemen 115
First medical aid 118
Security 113
Health and Safety manager
(Dr:ssa Caterina Giuliani)
02 6448 6188
320-4341677

GENERAL INSTRUCTIONS IN CASE OF EMERGENCY BUILDING U6

WHAT TO DO IN CASE OF
HEALTH EMERGENCY
• ALWAYS INFORM THE RECEPTION DESK ABOUT WHAT HAPPENED;
• IF WITHIN A FEW MINUTES AFTER THE CALL NO ONE INTERVENE CALL THE MEDICAL FIRST AID (118);
• IF POSSIBLE ASSIST THE PERSON TILL THE FIRST RESPONDERS ARRIVE;
• COOPERATE WITH RESPONDERS IF NECESSARY.

FIRE
• GO AWAY AS FAST AS YOU CAN FROM THE FIRE AREA;
• DO NOT USE LIFTS;
• INFORM THE RECEPTION DESK IF THERE IS NOT A FIRE ALARM ALREADY;
• IN CASE OF SMOKE MOVE AWAY ON ALL FOURS, CLOSE TO THE FLOOR, WITH A WET HANDKERCHIEF ON YOUR MOUTH AND NOSE;
• INTERVENE ONLY IF STRICTLY NECESSARY NEVER FORGETTING YOUR AND OTHER PEOPLE'S SAFETY;
• FOLLOW EMERGENCY OPERATORS INSTRUCTIONS (GREEN AND ORANGE VEST) AND OF FIRST RESPONDERS (FIREMEN, POLICE, AND SO ON.);
• MOVE KEEPING CLOSE TO THE WALLS IN CASE OF POOR VISIBILITY;
• IN CASE OF FIRE OUT OF THE PLACE YOU ARE IN: CLOSE THE DOOR, SEAL EVERY SPLIT TO AVOID SMOKE ENTERING AND INFORM RESPONDERS.
• IF SOMEONE'S CLOTHES CATCH FIRE: DON'T LET HIM/HER RUN, LAY HIM/HER DOWN AND WRAP HIM/HER WITH A BLANKET OR OTHER NOT SYNTHETIC CLOTHES TO PUT THE FLAMES OUT.

EVACUATION
• DURING LECTURES THE TEACHER SUPERVISES THE EVACUATION. HE/SHE MAKES STUDENTS AND OTHER PEOPLE LEAVE THE CLASSROOM, MAKES SURE THAT NO MORE PEOPLE ARE IN AND THEN GETS OUT CLOSING THE DOOR BEHIND HIM/HER WITHOUT LOCKING.
• FOLLOW THE INSTRUCTIONS GIVEN BY THE EMERGENCY OPERATORS TO REACH THE SAFE PLACES OR GO OUT OF THE BUILDING.
• HELP PEOPLE WHO FIND IT DIFFICULT TO MOVE: DISABLED PEOPLE, PREGNANT WOMEN, PEOPLE WITH CRUTCHES AND SO ON. IN CASE YOU HAVE TO STAY IN A PLACE, INFORM PEOPLE OUTSIDE THE BUILDING ABOUT YOUR LOCATION.

LET'S DO PREVENTION TOGETHER:
• STAY CALM, THINK TO YOUR OWN AND OTHER PEOPLE SAFETY AND COOPERATE WITH RESPONDERS.
• KNOW THE PLACES YOU LIVE IN: IN CLASSROOM, LIBRARY AND SO ON ALWAYS LOOK WHERE THE GREEN SIGNAL FOR ESCAPE ROUTES ARE;
• KNOW THE PLACES YOU LIVE IN: CHECK THE PHONE NUMBER OF THE NEAREST RECEPTION DESK TO ALERT IN CASE OF EMERGENCY (RECEPTION DESKS INFORM FIRST RESPONDERS AND EMERGENCY OPERATORS).

USEFUL NUMBERS
- Reception desk 02-6448-6099
- Emergency number 112
- Firemen 115
- First medical aid 118
- Security 113
- Health and Safety manager (Dr.ssa Caterina Giuliani) 02 6448 6188 320-4341677
<table>
<thead>
<tr>
<th>EXHIBITOR</th>
<th>BOOTH</th>
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<tbody>
<tr>
<td>WATERS SPA</td>
<td>1</td>
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<td>LABSERVICE ANALYTICA SRL</td>
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<tr>
<td>TECORA</td>
<td>3</td>
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<td>MAGEE SCIENTIFIC CORPORATION</td>
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Centrifugal Particle Mass Analyzer

- Classification of aerosol particles by mass : charge ratio
  - Bench-top instrument
- Forms an aerosol mass standard
  - (when combined with a unipolar charger and aerosol electrometer - below)
- Determination of particle density and morphology
- Higher particle throughput at high resolution due to unique design

Unipolar Diffusion Aerosol Charger

Places a high level of charge on aerosol particles.

Use in mass standard below.

Electrostatic Precipitator

Use in mass standard below, to quantify uncharged particles.

Includes high voltage supply.

Source → UDAC → CPMA

\[ M = \text{mass setpoint (fg)} \]

Mass conc. instrument to be calibrated

Fast Aerosol Mobility Size Spectrometer

- Fastest time response (200 ms \( T_{10.00\%} \) @ 10 Hz)
- Widest size range (5 nm – 1 μm or 2.5 μm)
- Widest concentration range (9 orders)
- Best sensitivity — amongst fast response particle mobility sizers

\[ m_{\text{total}} = \text{mass setpoint} \times \text{indicated electrometer concentration} + \text{zero charge correction} \]

(Symonds et al., Aerosol Science and Technology 47:8 i–iv)

HQ UK
sales@cambusion.com

For Local Agents/Distributors
www.cambusion/contact

www.cambusion.com/aerosol
(+44) 1223 210250