EAC2016 TOURS FRANCE

22nd European Aerosol Conference

4th-9th SEPTEMBER

Handbook

Organized by the French Society for Aerosol Research (ASFERA)

CAMBUSTION Instruments

So, you want a true monodisperse aerosol...?

Aerodynamic Aerosol Classifier

Classification of aerosol particles by their *aerodynamic diameter*...

...without charging

...without a radioactive or X-ray source!

Booth #5 - EAC 2016

NEW! Available late 2016!

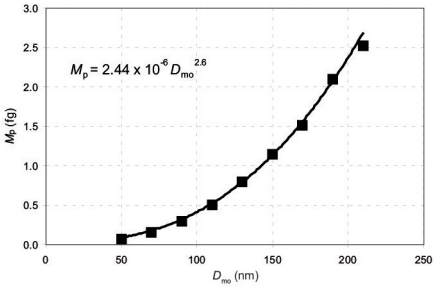
Centrifugal Particle Mass Analyzer

Classification by mass:charge ratio

Forms part of an aerosol mass standard

High throughput, high resolution

Determination of particle density & morphology



Fast Aerosol Mobility Size Spectrometer

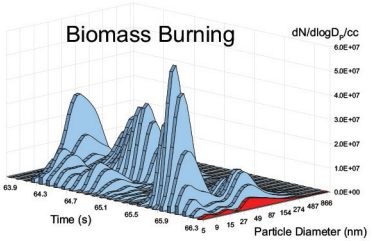
Fastest time response (200 ms $T_{10\text{-}90\%}$ @ 10 Hz)

Widest size range (5 nm – 1 µm or 2.5 µm)

Widest concentration range (9 orders)

Best sensitivity...

...amongst fast response particle mobility sizers



EAC2016 TOURS FRANCE

22nd European Aerosol Conference 4th-9th SEPTEMBER

WELCOME TO TOURS

The 2016 European Aerosol Conference (EAC 2016) will be held in Tours, France, from September 4th to 9th 2016 under the auspices of the European Aerosol Assembly (EAA), a body that now represents 12 national or regional aerosol societies. This is the second time the European Aerosol Conference will take place in France, under the umbrella of the French Aerosol Society (ASFERA).

It is a pleasure and honor for the French Aerosol Society (ASFERA) to organize such important meeting of scientists from all over the world. We will do our utmost to make this event a success, ensuring that every scientist and engineer has a comfortable stay, while providing a variety of programs including up-to-date technical sessions on current topics of interest.

PATRONAGE

The conference will be held under the auspices of:

ASFERA

UPEC
UNIVERSITÉ PARIS-EST CRÉTEIL

Tours événements

Vinci Centre International de Congrès de Tours

GRAND HALL
PARC DES EXPOSITIONS DE TOURS

VILLE DE TOURS

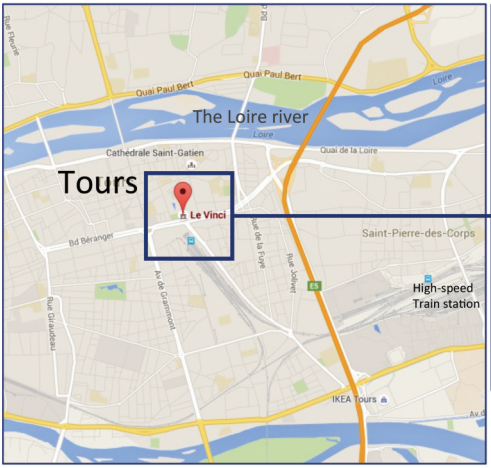
UNIVERSITÉ FRANÇOIS - RABELAIS TOURS

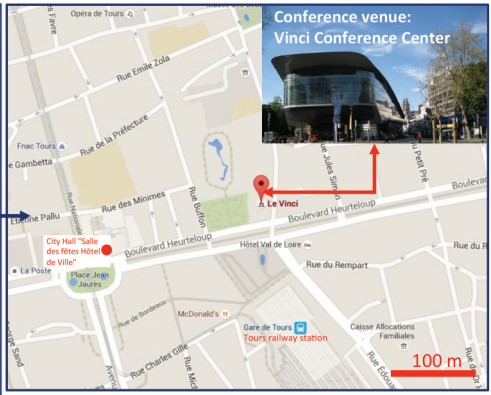
CONTENTS

MAPS

CONFERENCE VENUE

Overlooking the High Speed Railway Station, Vinci, The International Convention Centre of Tours, stands in the heart of Tours. An architectural feat designed by renowned Jean NOUVEL, Vinci is equipped with meeting spaces which can cater to any kind of demand.





Address: Vinci Conference center
26 Boulevard Heurteloup, 37000 Tours, France
http://www.eac2016.fr/program/social_program.htm

SOCIAL PROGRAMME VENUE

WELCOME RECEPTION

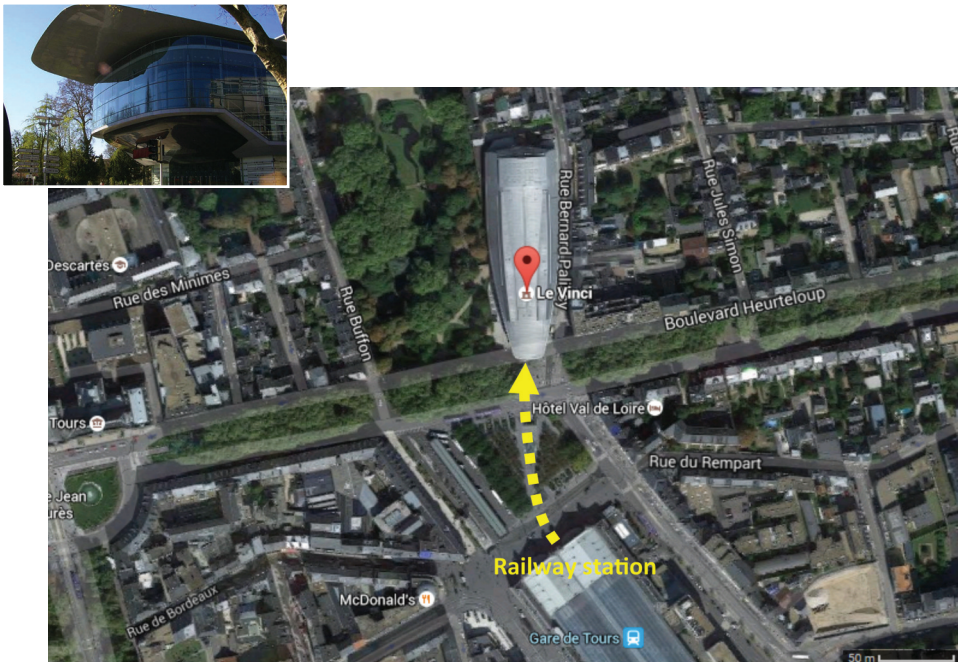
(for all the EAC2016 attendees)

SUNDAY, SEPTEMBER 04

18.00- 20.00

Address: Vinci Conference center, 26 Boulevard Heurteloup, 37000 Tours

How to get there: 2 minutes' walk from the Tours railway station



Overlooking the High Speed Railway Station, Vinci, The International Convention Centre of Tours, stands in the heart of Tours.

An architectural feat designed by renowned Jean NOUVEL, Vinci is equipped with meeting spaces which can cater to any kind of demand.

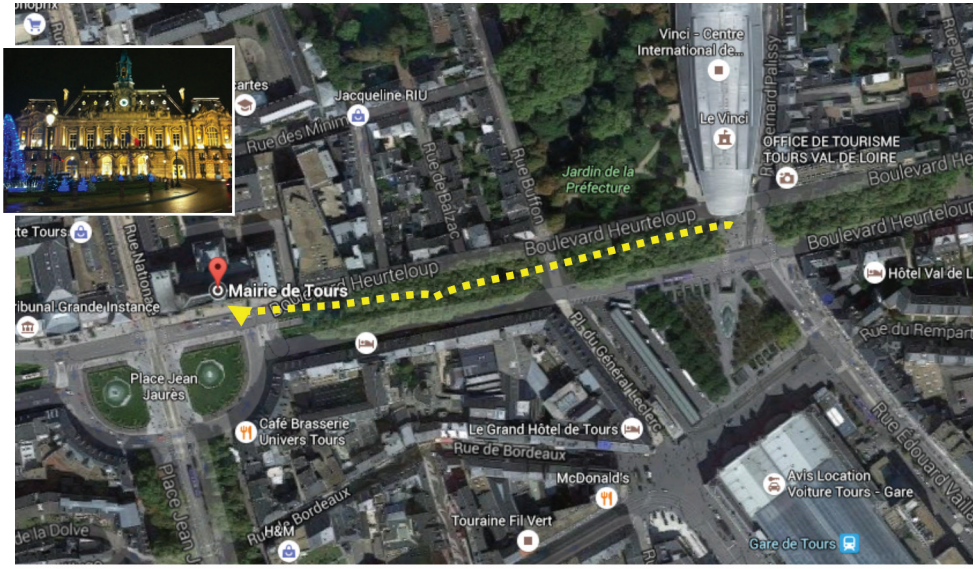
SOCIAL PROGRAMME VENUE

WELCOME RECEPTION BY THE MAYOR OF TOURS

(for all the EAC2016 attendees)

TUESDAY, SEPTEMBER 06
19.00

Address: Rue des Minimes, 37000 Tours
How to get there: 5 minutes' walk from Vinci Conference Center



CONFERENCE DINNER

THURSDAY, SEPTEMBER 08
19.30-23.00

Address: La Grange de Meslay, 37210 Parçay-Meslay
How to get there: 20' drive (12 km) from Vinci Conference Center
(Buses departing from convention center at 18:30 and 19:00)

This admirable construction is the work of the monks of the neighboring Abbey of Marmoutier—Majus monasterium, Latin for "great monastery"—which traced its beginnings to the 4th century and its illustrious founder Saint Martin, and owed its fortune to the counts of Blois, who raised it from ruins and founded it for a second time in 982. To be more precise, the Chronicles of the Abbots of Marmoutier tell us that Hugues des Roches, abbot from 1210 to 1227, the great builder who raised the Portal of the Crosier within the Abbey itself and began the reconstruction of the church, also built "the Grange de Meslay with the portico, dovecote, and walls of the manor": that is to say the architectural ensemble that remains today.

http://www.meslay.com

COMMITTEES

Denis BOULAUD *(co-Chairman)*
Evelyne GEHIN *(co-Chairman)*

INTERNATIONAL ADVISORY BOARD (EAA BOARD MEMBERS)

The board members of EAA, chaired by Jose Luis CASTILLO, have played an important role on the evolution of the structure of future EAC, especially EAC2016.

LOCAL ORGANISING COMMITTEE

Guillaume DA *(Chairman)*
Gérard GOUESBET
Anda IONESCU
Sophie MAZOUE
George TYMEN
Laurent VÉCELLIO

EXHIBITION AND SPONSORSHIP

Brigitte DELPONT

THE SCIENTIFIC COMMITTEE

Jean-Pascal BORRA *(co-Chairman)*
François GENSDARMES *(co-Chairman)*

Lucas Alados ARBOLEDAS
Christoph ASBACH
Gilles BERGAMETTI
George BISKOS
Andrei BOLOGA
Michael BOY
Ian COLBECK
Yannis DROSSINOS
Philippe DUQUENNE
Luca FERRERO
Gérard GREHAN
Otto HÄNNINEN
Andreas HELD
Yoshi INUMA
Ulas IM
Christina ISAXON
Gerhard KASPER
Einar KRUIS
Olivier LEBIHAN
Willy MAENHAUT
Denis MARO
Olivier MASSON
Attila NAGY
Francois-Xavier OUF
Zoran RISTOVSKI
Enric ROBINE
Manabu SHIRAIWA
Olli SIPPULA
Dominique THOMAS
Mar VIANA
Birgit WEHNER
Olivier WITSCHGER
Caner YURTERI

THE EUROPEAN AEROSOL ASSEMBLY

(http://www.gaef.de/eaa/)

The "European Aerosol Assembly" is the organization 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).

For more information, see the EAA website at www.gaef.de/eaa/

THE FRENCH AEROSOL SOCIETY

The "Association Française d'Etudes et de Recherches sur les Aérosols" (ASFERA) was founded in 1984 to provide a national forum whereby various groups in France, who recognized the importance of aerosols, could interact and make a special effort to advance the interdisciplinary cooperation.

The objectives of the ASFERA are as follow:

- To promote and support scientific research in all areas of aerosol science in France
- To maintain a forum for international cooperation and exchange for all aspects of aerosol science
- To provide information with an interdisciplinary base to their members and the public

Today, the ASFERA is an organization with over 100 members coming from different professional areas including universities, research institutes or industries.

For more information, see the EAA website at www.asfera.org/en/presentation.php

CONFERENCE VENUE

Urban walking map and route planner

The European Aerosol Conference 2016 is held at the Vinci-International Conference Centre (ICC) of Tours. ICC is easily accessible by all means of transport.

TRANSPORT TO THE CONFERENCE VENUE

BY TAXI

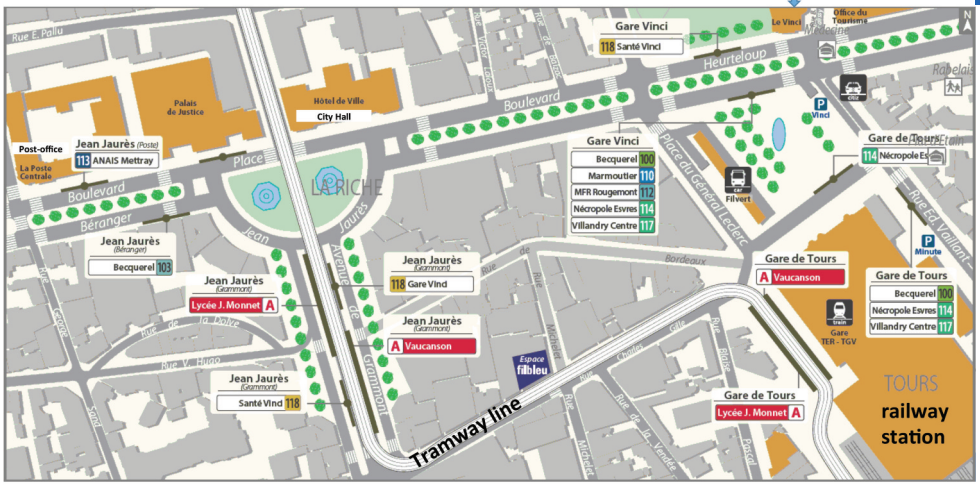
GIE des Taxis de Tours
+ 33 (0)2 47 20 30 40
http://www.taxis-tours.fr/contacts/

BY BUS/TRAM

The Conference Center is easily accessible via Bus and Tram (line A), stop "Gare Vinci" or "Gare de Tours".
Travel with "Fil Bleu transport" (local public transport) is made easy thanks to ticket and card.

GENERAL INFORMATION

CONFERENCE VENUE



You can buy a ticket at the Bus driver, on vending machine, or at "Fil Bleu sales office" (9 rue Michelet, Tours; Monday to Friday from 7:30 am to 7:00 pm without interruption, Saturday from 10:00 am to 5:00 pm. Phone: +33 2 47 66 70 70). Keep it, you can recharge it with trip(s).

You can also buy a card (2€), only at Fil Bleu sales office (9 rue Michelet, Tours). You can charge trip(s) or monthly pass on this card.

To be valid, your ticket or card needs to be charged with a valid pass (see below).

You have to validate your pass any time you use the bus or the tram.

- 1 trip (valid one hour) : 1.50€
- 2 trips : 2.70€
- 24 hours : 3.90€
- 10 trips : 13€

Timetable, Journey and maps available at: https://www.filbleu.fr/en/

BY TRAIN

Tours has two high-speed train (TGV) stations:

-"Tours Centre": railway station facing the Congress Centre

-"St. Pierre-des-Corps": connection to Tours Centre in 5 minutes.

https://uk.voyages-sncf.com/en/#/

AIRPORTS

Tours (TUF) 6.3 km

Roissy-Charles de Gaule (CDG) 263 km

Paris-Orly (ORY) 230 km

GENERAL INFORMATION

NAME BADGES

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

THE REGISTRATION FEE INCLUDES:

- Admission to the scientific program
- Conference materials
- Coffee breaks
- Welcome Reception on Sunday September 4th, 2016
- Wi-fi access (available at the conference location)
- Book of abstracts on USB

THE REGISTRATION FEE DOES NOT INCLUDE:

- Conference Dinner on Thursday September 08, 2016 (additional ticket 75 € per person)
- Accommodation
- Lunches
- Guided tours

For more information about the city and the region please visit : http://www.tours-tourism.co.uk/

LANGUAGE

Tours and The Loire Valley are visited year round by tourists from all over the world, English is frequently spoken.

CURRENCY

The French currency is the Euro, "EUR = €." Exchange rates of participating countries are locked into a common currency. Notes come in denominations of €500, €200, €100, €50, €20, €10 and €5. Coins are in denominations of €2 and €1, and 50, 20, 10, five, two and one cents.

CREDIT CARDS

Major cards such as Visa, MasterCard, Eurocard, Cirrus, Amex are widely accepted.

USEFUL FACTS

Time: GMT/UTC + 1 hour (+ 2 hours in summer)
Telephone area code: (+33) 2
Emergency number: Dial 112

SMOKING

Smoking is FORBIDDEN in all public areas.

CONFERENCE INFORMATION

REGISTRATION DESK

Registration and information desk will be open as follows:

Sunday (September 4th)	16:00-20:00
Monday (September 5th)	08:00-18:00
Tuesday (September 6th)	08:00-18:00
Wednesday (September 7th)	08:00-12:00
Thursday (September 8th)	08:00-18:00
Friday (September 9th)	08:00-12:00

CONTACT DETAILS

In case of emergency, contact the registration desk (entrance hall).
Email (EAC2016 secretariat): secretariateac2016@tours-evenements.com

EXHIBITION

The exhibition is located at the basement (see map) close to poster exhibition, registration and coffee breaks and will be open to all participants throughout the duration of the conference.

SOCIAL PROGRAM

WELCOME RECEPTION

Included in the registration fee

DATE: SUNDAY, SEPTEMBER 04

Venue: Vinci Conference center (Agnes Sorel Lounge)

Address: 26 Boulevard Heurteloup, 37000 Tours

Time: 18.00- 20.00

WELCOME RECEPTION BY THE MAYOR OF TOURS

Included in the registration fee

DATE: TUESDAY, SEPTEMBER 06

Venue: Tours City Hall

Address: Mairie de Tours, Rue des Minimes, 37000 Tours

Time: 19.00

CONFERENCE DINNER

DATE: THURSDAY, SEPTEMBER 08

Venue: La Grange de Meslay,

Address: La Grange de Meslay, 37210 Parçay-Meslay (see map)

Time: 19.30- 23.00

(Buses departing from convention center at 18:30 and 19:00)

Price: 75 € per person (tickets available at the registration desk)

MEETINGS

MONDAY, SEPTEMBER 5TH

18:00-19:00	Working group meetings (rooms on the next page)

TUESDAY, SEPTEMBER 6TH

12:20-13:50	GAeF Board Meeting (Room 4, Level +2)
12:20-13:50	HAAR Meeting (Room 3, Level +2)
18:10-19:00	Working group meetings (rooms on the next page)

WEDNESDAY, SEPTEMBER 7TH

13:00-14:30	EAA Board Meeting
13:00-14:30	GDR-Suie Meeting (Room 3, Level +2)

THURSDAY, SEPTEMBER 8TH

12:20-13:50	WG chairs meeting (Room 4, Level +2)

FRIDAY, SEPTEMBER 9TH

12:40-14:00	ASFERA General Assembly (Auditorium Descartes)

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 **Monday, September 5th, at 18:00**, Working Group meetings will be as follows:

Atmospheric Aerosol Processes (AAP) (Auditorium Ronsard, level +1)
PMx (PMx) (Auditorium Descartes, level +1)
Aerosol chemistry (AC) (Room 1, level +2)
Aerosol modelling (AM) (Room 2, level +2)
Instrumentation (INST) (Room 3, Georges Courteline, level +2)
Indoor and working place aerosols (IND) (Room 4, level +2)

On **Tuesday, September 6th, at 18:10**, Working Group meetings will be as follows:

Inhalation, exposures and health (IEH) (Auditorium Ronsard, level +1)
Fundamentals (FUND) (Auditorium Descartes, level +1)
Electrical effects (EE) (Room 1, level +2)
Combustion aerosols (CA) (Room 2, level +2)
Aerosol-based nanotechnology (ABN) (Room 3, Georges Courteline, level +2)

PRESENTATION INFORMATION

For this EAC2016, the scientific program will be organized according to five main themes, which aim to increase understanding of the main scientific stakes in the conference: AEROSOL TECHNOLOGY, ATMOSPHERIC AEROSOL STUDIES, AEROSOL MEASUREMENT TECHNIQUES, AEROSOL AND HEALTH, BASIC AEROSOL PROCESSES

ABSTRACTS

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

INSTRUCTIONS FOR 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 from 16:00 to 20:00 on September 4th 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.

All presentations should be brought to the Speaker's Preview Room 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 opening schedule:

Sunday, September 4th	16:00-20:00
Monday, September 5th	08:00-12:00 and 14:00-18:00
Tuesday, September 6th	08:00-12:00 and 14:00-18:00
Wednesday, September 7th	10:00-11:00
Thursday, September 8th	08:00-12:00 and 14:00-18:00
Friday, September 9th	08:00-12:00 and 13:30-14:30

You are also invited to contact the session chairs at least 15 minutes before the beginning of the session.

Please note that the presentation time is 20 minutes in total, i.e. 15 minutes for the talk and 5 minutes for discussion. In view of 5 sessions running in parallel and the audience possibly moving from one session to another, the 20 minutes schedule will be observed very precisely.
Best Poster Awards (BPA): The EAA will award the best posters at the conference. (Friday 09 September, 09:30-09:45)

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 PRESENTATIONS

For poster presentation participants are kindly asked to follow the EAC2016 poster format: panel size is 100 cm (width) x 240 cm (height), usable area for poster is 90x145 cm. Poster panels are of forex material, scotch tape will be provided.

Posters must be displayed on the scheduled day preferably not later than 12:00 and taken down at the end of the poster session.

Best Poster Awards (BPA): The EAA will award the best posters at the conference. Friday 09 September, 09:30-09:45)

POSTER SESSIONS SCHEDULE

Posters will be located on the same floor of the exhibition hall. 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 the speaker preview room (level+2) 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 sessions 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 5TH
Time to display:	Monday morning
Presentation time:	Monday, 16:00-18:00
Time to uncover:	Monday evening

POSTER SESSION 2:

Days:	TUESDAY, SEPTEMBER 6TH
Time to display:	Tuesday morning
Presentation time:	Tuesday, 16:10-18:10
Time to uncover:	Tuesday evening

POSTER SESSION 3:

Days:	THURSDAY, SEPTEMBER 8TH
Time to display:	Thursday morning
Presentation time:	Thursday, 16:10 - 18:10
Time to uncover:	Thursday evening

LATE 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.

INVITED SPEAKERS

PLENARY LECTURES

PL1-MONDAY SEPTEMBER 5TH

Prof. Urs Baltensberger
Paul Scherrer Institute,
Laboratory of Atmospheric Chemistry - Villigen, Switzerland

Title of Lecture: Formation and transformation of atmospheric aerosols, and impact on health and climate

Short CV: Urs Baltensperger started his aerosol research in his PhD, which he got from the University of Zurich in 1985. He has been head of the newly founded Laboratory of Atmospheric Chemistry at the Paul Scherrer Institute, Villigen, Switzerland since 2000, and professor at ETH Zurich since 2006. He is advisor of 18 currently ongoing PhD theses. Within the Swiss National Science Foundation he is a member of the Presiding Board and chairman of the Specialized Committee for International Cooperation. He published more than 380 peer-reviewed publications (of which 12 in Nature and Science) which received >18000 citations. He has an h-index of 70 and is a highly cited researcher.

He has obtained a number of awards, including the Fellow of the American Geophysical Union (2012), the Vilhelm Bjerknes Award of the European Geosciences Union (2014), the Fuchs Memorial Award of the International Aerosol Research Assembly (2014), and the Spiers Memorial Award of the Royal Society of Chemistry (2016). His research focuses on 'aerosols from cradle to grave', and includes studies on nucleation, secondary organic aerosol formation from individual precursors as well as from emission exhausts, aerosol source apportionment, health effects, as well as the aerosol impact on climate through aerosol-radiation interaction and aerosol-cloud interaction.

PL2-TUESDAY SEPTEMBER 6TH

Prof. Paolo Milani
University of Milano
Department of Physics - Milano, Italy

Title of Lecture: Supersonic Cluster Beam Deposition of Nanostructured Devices and Nanocomposites for Biomedical and Clinical Applications

Short CV: Paolo Milani is Full Professor at the Department of Physics of the University of Milano. His research focuses on cluster-assembled nanostructured materials and their integration on microfabricated platforms by exploiting the supersonic cluster beam deposition technology. He is active in the field of nanostructured systems and devices for stretchable electronics, optics, soft robotics, biotechnology and medicine. He has published more than 230 papers on refereed journals, several review papers and a monograph on supersonic cluster beam deposition for the synthesis of nanostructured thin films.

Currently, Milani serves as Director of the Interdisciplinary Centre for Nanostructured Materials and Interfaces of the University of Milano. He is also Coordinator of the PhD School in Medical Nanotechnology supported by the European School of Molecular Medicine and the University of Milano. He is co-editor of the Springer book series Carbon Materials Chemistry and Physics, regional editor for Europe of the Journal of Nanoparticle Research, member of the editorial board of Advances in PhysicsX and of KONA Powder and Particle Journal.

He is co-founder of three start-up companies: TETHIS spa active in the field of nanostructured systems for biomedical microdevices, WISE srl producing stretchable electronics for neuromodulation, and EOS srl producing optical systems for nanoparticle sizing in biological media.

INVITED SPEAKERS
PLENARY LECTURES

PL3-WEDNESDAY SEPTEMBER 7TH

Prof. J. Brian A. Mitchell
University of Rennes I, France

Title of Lecture: Free nanoparticle studies using synchrotron radiations

Short CV: J. Brian A. Mitchell was born in Northern Ireland and received his BsC Hons. Degree and PhD (in the field of Atomic Collisions Research) from Queen's University, Belfast. After graduation he emigrated to Canada where, first as a postoctoral research fellow and then as a research associate and finally as a Full Professor, he worked in and later directed the Atomic Collisions research there, in a pioneering laboratory in the use of the Merged Electron-Ion Beam technique for the study of low energy, electron-ion collision processes. As an interim, during his early years in North America, he spent two years at the Brookhaven National Laboratory in New York, where he designed a molecular physics beamline for the National Light Source (NLS) synchrotron, under development, at that time. While at Brookhaven, and later again in Canada, he developed an interest in combustion research, working on additives for smoke reduction in large fires. This work led, in collaboration with Imperial Oil, EXXON Chemical Co. and the US Air Force, to the development of « Tekflame », a low smoke product used for firefighter training.
In 1996, he returned to Europe to take up a professorship at the University of Rennes I in Brittany, France. His work on recombination continued there but in 2002, he returned again to synchrotron radiation, this time to study soot formation processes in combustion using Small Angle X-Ray Scattering, X-Ray Photoelectron Spectroscopy, and X-ray induced ionisation. He then extended this combustion work to the examination of nanoparticle formation processes in other extreme environments such as microwave air plasmas, electrical arcs and laser ablation plumes. Other research interests include the use of mass spectrometry for buried oil detection, and Ball Lightning Research. He has over 150 journal and conference articles published and is the co-author of a text book on Heavy Particle Atomic Collisions.

PL4-THURSDAY SEPTEMBER 8TH

Prof. Kari Lethinen
University of Eastern Finland and Finnish Meteorological Institute, Head of Department - Kuopio, Finland

Title of Lecture: On theory, modelling and data analysis of atmospheric aerosol formation and growth

Short CV: Kari Lehtinen received his degrees (M.Sc. 1992, Lic. Tech. 1993, Ph.D. 1997) at Helsinki University of Technology (HUT), Dept. Technical Physics. Before becoming Professor of Atmospheric Physics and Chemistry he was assistant of mechanics and computational dynamics at HUT, a researcher and a senior researcher at VTT Energy and a senior researcher and a university lecturer at Helsinki University, Dept. Atmospheric Sciences. He was a visiting scientist in UCLA Los Angeles in 1994-1995 and University of Minnesota Minneapolis in 2000-2001.

The professorship is a joint position between UEF and the Finnish Meteorological Institute (FMI). In 2004-2013 Lehtinen was head of FMI Kuopio Unit, a research unit with research groups in atmospheric modeling, measurements and radiation as well as aviation and military weather service. Since then, from Jan 2014, he has been the head of UEF Department of Applied Physics.
His main research interests are aerosol microphysics theory and modeling related to various applications in atmospheric science, nanomaterial synthesis and environmental health.

Kari Lehtinen has published more than 170 peer reviewed international journal Articles (2 in Science) and supervised 16 Ph.D. theses. He is an editor of 'Atmospheric Chemistry and Physics' and and a member of FAAR, GAEF, AAAR and AGU. His teaching experience includes courses in computational dynamics, aerosol physics and dynamics, transport phenomena, statistical physics as well as basic undergraduate physics.

PL5-FRIDAY SEPTEMBER 9TH

Dr. Nathalie Heuzé-Vourc'h
National Institute of Biomedical Research
INSERM, University of Tours
Tours, France

Title of Lecture: Aerosoltherapy of Monoclonal Antibodies for Respiratory Diseases

Short CV: Nathalie Heuzé-Vourc'h (Ph.D., INSERM CR1) is a senior research scientist at the National Institute of Biomedical Research in Tours, France. She co-leads a multidisciplinary team in the Research Centre for Respiratory Diseases (CEPR, INSERM U1100) dedicated on Aerosoltherapy and Biologics for Respiratory Diseases (team 3). After graduating her PhD in oncology in France, she focused her research on lung diseases and obtained a postdoctoral position in the Division of Pulmonary and Critical Care Medicine (Dr Steven M. Dubinett) at UCLA, California. She gained interest in biotherapeutics working in a start-up (Agensys Inc., Santa Monica, California) developing anticancer monoclonal antibodies and was recruited in 2005 by INSERM as a young research scientist to continue working on this topic. Joining Pr Patrice Diot's research group specialized on the delivery of drug by aerosol in Tours offered her new perspectives on her research projects as she started investigating the local delivery of monoclonal antibodies through the airways. She is currently supervising several projects on the multifaceted aspects of the delivery of biotherapeutics through the airways for treatments of lung diseases, from formulation to preclinical safety, with both academic and private partners. She is a member of the labEx MAbImprove, labeled "Laboratoire d'Excellence" as part of the "Investment for the Future" project launched by the French government and funded for 10 years, and co-lead one of its research axis. Presently, she is co-author of more than 40 publications.

www.addair.fr / contact@addair.fr
+33 (0) 9 86 22 20 30

ADDAIR is a French company, based near Paris, specialized in air pollution and aerosol measurement. With its experience and its recognized expertise ADDAIR proposes a wide range of technically advanced products for both aerosol and gas measurements in many applications:

- **Automotive Emissions**
- **Industrial Emission**
- **Indoor and outdoor air quality**
- **Health effects / occupational**
- **Aerosol physical and chemical characterization**
- **Filtration and Nano monitoring**

ADDAIR develops and proposes his own product like PEMS-Lab but also represent and support our partner for the French market:

pegasor

- **High dynamic particle measurement device for particle Mass/number in high concentration**

PALAS®

- **Counter/optical particle size analyzers**
- **SMPS / CPC : 0.005 – 10 µm**
- **Aerosol generator and diluter**

U-SMPS

Fidas Frog

DEKATI

- **Particle size analyzers**
- **Impactors 3 to 15 stages**
- **Aerosol conditioning and dilution**

ELPI+

E-filter

AERODYNE RESEARCH, Inc.

- **Aerosol and gas-phase mass spectrometers**
- **Laser trace gas monitors**

HR-ToF-AMS

CAPS PM_{SSA} monitor

TISCH Environmental | jing | BGI by Mesa Labs | Aerosol Devices Inc | ENVIRONMENTAL Instruments

PROGRAMME

SUNDAY 04 SEPTEMBER
MONDAY 05 SEPTEMBER

ATMOSPHERIC AEROSOL STUDIES

AAP: Atmospheric Aerosol Processes

AEROSOL TECHNOLOGY

ABN: Aerosol Based Nanotechnology / **CA:** Combustion Aerosol / **EE:** Electrical Effect

AEROSOL MEASUREMENT TECHNIQUES

INST: Instrumentation/ **PMX:** PMx

AEROSOL AND HEALTH

IND: Indoor and working place aerosol/ **IEH:** Inhalation, Exposures and Health

BASIC AEROSOL PROCESSES

AC: Aerosol Chemistry/ **AM:** Aerosol Modelling/ **FUND:** Fundamentals

Sunday, September 4

16:00 - 20:00 Pre-Registration
18:00 **Welcome Reception - Vinci Conference Center**

Monday, September 5

08:00 - 18:00 Registration

	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
08:30 - 09:00	**Opening Ceremony**				
09:00 - 10:00	**Plenary Lecture 1** **Formation and transformation of atmospheric aerosols, and impact on health and climate.** Urs BALTENSBERGER Chairmen: Roberta VECCHI and Birgit WEHNER				
10:00 - 10:30	Coffee break				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
10:30 - 12:30	**1-AAS-AAP1** **ATMOSPHERIC AEROSOL STUDIES** **Optical properties and remote sensing of atmospheric aerosols** Chairs: Luca FERRERO and Helmuth HORVATH	**2-AAS-AAP2** **ATMOSPHERIC AEROSOL STUDIES** **Carbonaceous and biogenic aerosols** Chairs: Ulrike DUSEK and Martin GYSEL	**3-AT-ABN1** **AEROSOL BASED NANOTECHNOLOGY** **Characterization and novel measurement techniques** Chairs: George BISKOS and Jyrki MÄKELÄ	**4-AT-CA1** **COMBUSTION AEROSOL** **New measurements methods of soot particles for a better modeling of their formation and behavior** Chairs: Stéphanie GAGNÉ and Eric THERSSEN	**5-AT-EE** **ELECTRICAL EFFECT** **Charge effects and particle generation** Chairs: Andrei BOLOGA and Caner YURTERI
12:30 - 14:00	Lunch				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
14:00 - 16:00	**6-AAS-AAP3** **ATMOSPHERIC AEROSOL STUDIES** **Optical properties and remote sensing of atmospheric aerosols** Chairs: Maria Rita PERRONE and Patrick SHERIDAN	**7-AAS-AAP4** **ATMOSPHERIC AEROSOL STUDIES** **Marine aerosols and aerosol sources** Chairs: E. Douglas NILSSON and Birgit WEHNER	**8-AAS-SS5** **SPECIAL SESSION 5: FUKUSHIMA** **Characteristics and behaviour of Fukushima aerosols** Chairs: Denis MARO and Olivier MASSON	**9-AT-SS3** **SPECIAL SESSION 3: SOOT** **Physico-chemical characterization of soot particles and their evolution** Chairs: Sylvain PICAUD and Jérôme YON	**10-AT-SS1** **SPECIAL SESSION 1: PLASMA** **Plasma-based aerosol processes for the production and coating of nanoparticles** Chairs: Jean-Pascal BORRA and Alfred WEBER
16:00 - 16:30	Coffee break				

16:00 - 18:00 **Poster session 1 - Authors' presentations - POSTER AREA**

18:00 **Working Group Meetings**

SUNDAY 04 SEPTEMBER

18:00 - 20:00 WELCOME RECEPTION *Vinci Conference Center*

MONDAY 05 SEPTEMBER

08:00 - 18:00 REGISTRATION *Welcome Desk*

08:30 - 09:00 OPENING CEREMONY *Auditorium Pierre de Ronsard*

PL1 **ATMOSPHERIC AEROSOL STUDIES**

09:00 - 10:00 PLENARY LECTURE 1 *Auditorium Pierre de Ronsard*

FORMATION AND TRANSFORMATION OF ATMOSPHERIC AEROSOLS, AND IMPACT ON HEALTH AND CLIMATE

Chairmen: Roberta VECCHI (Milan, ITALY), Birgit WEHNER (Leipzig, GERMANY)

Plenary Speaker: Urs BALTENSBERGER (Villigen, SWITZERLAND)

10:00 – 10:30 COFFEE BREAK *Exhibition Hall*

1-AAS-AAP1 **ATMOSPHERIC AEROSOL STUDIES**

10:30 - 12:30 ATMOSPHERIC AEROSOL STUDIES *Auditorium Pierre de Ronsard*

OPTICAL PROPERTIES AND REMOTE SENSING OF ATMOSPHERIC AEROSOLS

Chairmen: Gilles BERGAMETTI (Créteil, FRANCE), Helmuth HORVATH (Vienna, AUSTRIA)

10:30 - 10:50

O1-AAS-AAP-01 Integrating chemical and optical properties of atmospheric aerosols depending on composition and sources; Link air quality-climate.

Marina EALO, Andrés ALASTUEY, Noemí PÉREZ, Anna RIPOLL, Xavier QUEROL, Grisa MOCNIK, Marco PANDOLFI

10:50 - 11:10

O1-AAS-AAP-02 A multi-year study of aerosol optical properties from four North American regions.

Patrick SHERIDAN, James SHERMAN, John OGREN, Elisabeth ANDREWS, Derek HAGEMAN, Lauren SCHMEISSER, Anne JEFFERSON, Sangeeta SHARMA

11:10 - 11:30

O1-AAS-AAP-03 Evaluation of the absorption Ångström exponents for traffic and wood burning in the Aethalometer based source apportionment using radiocarbon measurements of ambient aerosol.

Peter ZOTTER, Andre PRÉVÔT, Hanna HERICH, Martin GYSEL, Imad EL-HADDAD, Yanlin ZHANG, Grisa MOCNIK, Christoph HÜGLIN, Urs BALTENSPERGER, Sönke SZIDAT

11:30 - 11:50

O1-AAS-AAP-04 High time-resolved measurements of fine aerosol (PM2.5) in a hot-spot area during wintertime: Multi-wavelength optical absorption properties and source apportionment.

Vera BERNARDONI, Giulia CALZOLAI, Franco LUCARELLI, Dario MASSABÒ, Silvia NAVA, Paolo PRATI, Gianluigi VALLI, Roberta VECCHI

11:50 - 12:10

O1-AAS-AAP-05 Retrieving aerosol complex refractive index from IR and UV-visible extinction spectra: application to SiO2 particles and volcanic ashes.

Patrice HUBERT, Hervé HERBIN, Olivier PUJOL, Lieven CLARISSE, Alexandre DEGUINE, Nicolas VISEZ, Denis PETITPREZ

12:10 - 12:30

O1-AAS-AAP-06 Internally mixed aerosols observed by individual particle analysis and effect on optical properties.

Florin UNGA, Marie CHOËL, Yevgeny DERIMIAN, Karine DEBOUDT, Philippe GOLOUB

RESERVE PAPER / P1-AAS-AAP-035 Aerosol properties over the Paris megacity monitored using a multi-wavelength Raman Lidar.

Juan Antonio BRAVO-ARANDA, Christophe PIETRAS, Martial HAEFFELIN

2-AAS-AAP2 ATMOSPHERIC AEROSOL STUDIES

10:30 - 12:30 ATMOSPHERIC AEROSOL STUDIES *Auditorium Descartes*

CARBONACEOUS AND BIOGENIC AEROSOLS

Chairmen: Ulrike DUSEK (Groningen, THE NETHERLANDS), Martin GYSEL (Villigen Psi, SWITZERLAND)

10:30 - 10:50

O2-AAS-AAP-07 Metaproteomic analysis of atmospheric aerosol samples.

Fobang LIU, Senchao LAI, Kathrin REINMUTH-SELZLE, Jan SCHEEL, Janine FRÖHLICH-NOWOISKY, Viviane DESPRÉS, Thorsten HOFFMANN, Ulrich PÖSCHL, Christopher KAMPF

10:50 - 11:10

O2-AAS-AAP-08 The results of long-term monitoring of atmospheric aerosols biogenic components at altitudes 500 – 7000 m in the South of Western Siberia.

Alexander SAFATOV, Irina ANDREEVA, Galina BURYAK, VIadimir VECHKANOV, Irina VOROBYEVA, Sergei OL'KIN, Irina REZNIKOVA, Nadezhda SOLOVYANOVA, Mickhail ARSHINOV, Boris BELAN, Geprgii IVLEV, Mickhail PANCHENKO, Denis SIMONENKOV, Gennadii TOLMACHEV

11:10 - 11:30

O2-AAS-AAP-09 Seasonal and spatial variation of organic composition and source contributions of ambient particulate matter in the ultrafine and accumulation mode size range.

Fengxia LI, Erwin KARG, Jianwei GU, Josef CYRYS, Jürgen ORASCHE, Annette PETERS, Gülcin ABBASZADE, Ralf ZIMMERMANN, Jürgen SCHNELLE-KREIS

11:30 - 11:50

O2-AAS-AAP-10 Quantitative analysis of long-term source contributions to the organic aerosol in Europe.

Kaspar R. DAELLENBACH, Giulia STEFENELLI, Carlo BOZZETTI, Athanasia VLACHOU, Paola FERMO, Raquel GONZALEZ, Andrea PIAZZALUNGA, Cristina COLOMBI, Jay Gates SLOWIK, Federico BIANCHI, Francesco CANONACO, Urs BALTENSPERGER, Imad EL HADDAD, André S. H. PRÉVÔT

11:50 - 12:10

O2-AAS-AAP-11 Investigation of primary and secondary processes in the formation of oxy-PAHs and nitro- PAHs in Paris (France) by conjoining on-line and off-line measurements.

Deepchandra SRIVASTAVA, Olivier FAVEZ, Nicolas BONNAIRE, Emilie PERRAUDIN, Valerie GROS, Eric VILLENAVE, Alexandre ALBINET

12:10 - 12:30

O2-AAS-AAP-12 Major sources of carbonaceous PM2.5 in Emilia Romagna Region (Northern Italy) from four–year observations.

Maria Chiara PIETROGRANDE, Dimitri BACCO, Silvia FERRARI, Isabella RICCIARDELLI, Fabiana SCOTTO, Arianna TRENTINI, Marco VISENTIN

RESERVE PAPER / P2-AAS-AAP-145 A new aethalometer model for PM source apportionment in mixed solid fuel environments.

Stig HELLEBUST, Paul BUCKLEY, Jovanna ARNDT, Eoin MCGILLICUDDY, Ian O'CONNOR, Grisa MOCNIK, Eleonora NICOLOSI, Paul QUINCEY, Gary FULLER, John WENGER

3-AT-ABN1 AEROSOL TECHNOLOGY

10:30 - 12:30 AEROSOL BASED NANOTECHNOLOGY *Room 1 (Level 2)*

CHARACTERIZATION AND NOVEL MEASUREMENT TECHNIQUES

Chairmen: George BISKOS (Delft, THE NETHERLANDS), Jyrki MÄKELÄ (Tampere, FINLAND)

10:30 - 10:50

O3-AT-ABN-01 Characterization and Modelling of a Novel Particle Number Detector.

Mario Anton SCHRIEFL, Alexander BERGMANN, Martin FIERZ

10:50 - 11:10

O3-AT-ABN-02 Introduction of the new Differential Aerodynamic Particle Sizer (DAPS).

Dennis KIESLER, Frank Einar KRUIS

11:10 - 11:30

O3-AT-ABN-03 Using aerosol instruments to study the residual particles formed in the Liquid Flame Spray.

Juha HARRA, Sonja KUJANPÄÄ, Janne HAAPANEN, Paxton JUUTI, Jyrki MÄKELÄ

11:30 - 11:50

O3-AT-ABN-04 Catalytic nanoparticles generated by a UV-mediated spark discharge generator.

Kaiqi HU, Stuart SCOTT, Adam BOIES

11:50 - 12:10

RESERVE PAPER / P2-AT-ABN-021 Study of ZnO nanoparticle generation for long lasting exposure experiments.

Pavel MORAVEC, Jaroslav KUPČÍK

4-AT-CA1 AEROSOL TECHNOLOGY

10:30 - 12:30 COMBUSTION AEROSOL *Room 2 (Level 2)*

NEW MEASUREMENTS METHODS OF SOOT PARTICLES FOR A BETTER MODELING OF THEIR FORMATION AND BEHAVIOR

Chairmen: Stéphanie GAGNÉ (Ottawa, CANADA), Eric THERSSEN (Villeneuve D'ascq, FRANCE)

10:30 - 10:50

O4-AT-CA-01 Characterization of soot particles and their precursors in diffusion flame of methane by in-situ laser diagnostics and ex-situ laser desorption / ionization / mass spectrometry.

Eric THERSSEN, Cornelia IRIMIEA, Alessandro FACCINETTO, Yvain CARPENTIER, Cristian FOCSA

10:50 - 11:10

O4-AT-CA-02 Nascent Soot Formation by Agglomeration and Surface Growth.

Georgios A. KELESIDIS, Eirini GOUDELI, Sotiris E. PRATSINIS

11:10 - 11:30

O4-AT-CA-03 Application of a tri-thermal thermophoretic precipitator for the study of soot aggregates morphological influence on their thermophoretic behaviour.

Lyes AIT ALI YAHIA, Evelyne GEHIN , Benoit SAGOT

11:30 - 11:50

O4-AT-CA-04 Comprehensive structural analysis of soot samples with different OC content by means of HRTEM, FTIR spectroscopy and Raman microspectroscopy.

Michaela ESS, Daniel FERRY, Elena KIREEVA, Reinhard NIESSNER, Francois-Xavier OUF, Natalia IVLEVA

11:50 - 12:10

O4-AT-CA-05 VUV characterization of soot particles and hydrogenated carbons of astrophysical interest.

Lisseth GAVILAN, T.k.c. LE, Ivan ALATA, Alexandre GIULIANI, Thomas PINO, Emmanuel DARTOIS

12:10 - 12:30

O4-AT-CA-06 Marine Black Carbon emissions: an instrument comparison.

Stéphanie GAGNÉ, Yu JIANG, Kevin THOMSON, Tak CHAN, Bryan COMER, Wayne MILLER, Kent JOHNSON

RESERVE PAPER / P1-AT-CA-030 Effective density measurement of ultra-fine particle emitted from residential coal combustion.

Zhen LI, Lei DUAN, Jingkun JIANG

RESERVE PAPER / P1-AT-CA-016 Thermal analysis of diesel emitted particulate matter.

Tibor AJTAI, Noémi UTRY, Máté PINTÉR, Gergely KISS-ALBERT, Gábor SZABÓ, Zoltán BOZÓKI

5-AT-EE AEROSOL TECHNOLOGY

10:30 - 12:30 ELECTRICAL EFFECT *Room 3 (Level 2)*

CHARGE EFFECTS AND PARTICLE GENERATION

Chairmen: Andrei BOLOGA (Karlsruhe, GERMANY), Caner YURTERI (Southampton, UK)

10:30 - 10:50

O5-AT-EE-01 Measurement of aerosol charge distributions.

Anssi JÄRVINEN, Paavo HEIKKILÄ, Jorma KESKINEN, Jaakko YLI-OJANPERÄ

10:50 - 11:10

O5-AT-EE-02 A Study of Spark Discharger for Stability Control in High Frequency Region.

Seung Ryul NOH, Dongjoon LEE, Sei Jin PARK, Dae Seong KIM, Mansoo CHOI

11:10 - 11:30

O5-AT-EE-03 Corona discharge in high temperature high pressure gases.

Andrei BOLOGA, Klaus WOLETZ, Hanns-Rudolf PAUR

11:30 - 11:50

O5-AT-EE-04 Modeling simple-jet mode EHDA droplets' trajectories and spray pattern for a single nozzle system.

Obed ONDIMU, V. A. GANESAN, M. J. GATARI, J. C. M. MARIJNISSEN, L. L. M. AGOSTINHO

11:50 - 12:10

O5-AT-EE-05 Polymer particle formation by electrospray drying.

Eszter BODNÁR, Jordi GRIFOLL, Joan ROSELL-LLOMPART

12:10 - 12:30

O5-AT-EE-06 Dynamic 3D Nanoparticle Assembly Technique based on Electric-field Assisted Aerosol Lithography.
Hoseop CHOI, Wooik JUNG, Yoon-Ho JUNG, Kyungyeon HA, Dae Seong KIM, Mansoo CHOI

RESERVE PAPER / P1-AT-EE-012 Electrohydrodynamic spraying from extractor-free one-dimensional arrays.
Nikolas SOCHORAKIS, Jordi GRIFOLL, Joan ROSELL-LLOMPART

12:30 - 14:00 FREE LUNCH BREAK *Vinci Conference Center*

6-AAS-AAP3 ATMOSPHERIC AEROSOL STUDIES

14:00 - 16:00 ATMOSPHERIC AEROSOL STUDIES *Auditorium Pierre de Ronsard*

OPTICAL PROPERTIES AND REMOTE SENSING OF ATMOSPHERIC AEROSOLS
Chairmen: Maria Rita PERRONE (Lecce, ITALY), Patrick SHERIDAN (Boulder, USA)

14:00 - 14:20

O6-AAS-AAP-13 The first multi-year observation-based study of aerosol direct radiative forcing in the southern appalachian mountain region of the southeast US.
Sherman JAMES, Nicholas HALL, Chastity HOLT

14:20 - 14:40

O6-AAS-AAP-14 Global and regional trends of aerosols in the boundary layer and free troposphere using CALIOP satellite observations from 2007 to 2015.
Quentin BOURGEOIS, Annica EKMAN, Radovan KREJCI, Abhay DEVASTHALE

14:40 - 15:00

O6-AAS-AAP-15 Evaluation of aerosol vertical distribution from the emep model using earlinet measurements.
Svetlana TSYRO, Lucia MONA, Augustin MORTIER, Michael SCHULZ

15:00 - 15:20

O6-AAS-AAP-16 Optical and physicochemical properties of brown carbon aerosol: light scattering, FTIR extinction spectroscopy, and hygroscopic growth.
Mingjin TANG, Jenn ALEXANDER, Deokhyeon KWON, Armando ESTILLORE, Olga LASKINA, Mark YOUNG, Kleiber PAUL

15:20 - 15:40

O6-AAS-AAP-17 The growth of sulfuric acid films on mineral dust for stratospheric science; a laboratory and modelling study.
Rosalie SHEPHERD, Martin KING, Andy WARD, Francis POPE, Nicholas DAVIDSON, Matt WATSON, Don GRAINGER

15:40 - 16:00

O6-AAS-AAP-18 Detection and quantification of water-based aerosols using active open-path FTIR.
Oz KIRA, Raphael LINKER, Yael DUBOWSKI

RESERVE PAPER / P1-AAS-AAP-044 Aerosol optical properties of Western Mediterranean basin from multi-year AERONET data.
Jamel BENKHALIFA, Jean-François LÉON, Mabrouk CHAABANE

7-AAS-AAP4 ATMOSPHERIC AEROSOL STUDIES

14:00 - 16:00 ATMOSPHERIC AEROSOL STUDIES *Auditorium Descartes*

MARINE AEROSOLS AND AEROSOL SOURCES
Chairmen: E. Douglas NILSSON (Stockholm, SWEDEN), Birgit WEHNER (Leipzig, GERMANY)

14:00 - 14:20

O7-AAS-AAP-20 Different approaches for crustal and marine contribution estimates: which are the uncertainties?
Giulia CALZOLAI, Massimo CHIARI, Martina GIANNONI, Franco LUCARELLI, Silvia NAVA, Silvia BECAGLI, Rita TRAVERSI, Roberto UDISTI, Xavier QUEROL, Fulvio AMATO, Celia ALVES, Casimiro PIO, Kostas ELEFTHERIADIS, Evangelia DIAPOULI

14:20 - 14:40

O7-AAS-AAP-21 Connecting marine productivity to sea-spray via nanoscale biological processes.
Darius CEBURNIS, Jurgita OVADNEVAITE, Dagmar STENGEL, Cristina FACCHINI, Roberto DANOVARO, Colin O'DOWD

14:40 - 15:00
07-AAS-AAP-22 Modelling the impact of inland shipping on ambient air quality: some questions.
Sabine WURZLER, H. HEBBINGHAUS1, I. STECKELBACH, U. SENGER, T. SCHULZ, J. GEIGER, M. MEMMESHEIMER, H. JAKOBS
15:00 - 15:20
07-AAS-AAP-23 A modeling perspective of the ChArMEx intensive campaign: organic aerosol formation.
Arineh CHOLAKIAN, Matthias BEEKMANN, Guillaume SIOUR, Isabelle COLL, Augustin COLETTE, Marchand NICOLAS, Stéphane SAUVAGE, Jean SCIARE, Valerie GROS, Aurélie COLOMB, François GHEUSI
15:20 - 15:40
07-AAS-AAP-24 Improving the representation of biomass burning emissions and their aging in the VBS-CAMx based on novel smog chamber experiments conducted at wintertime temperatures.
Giancarlo CIARELLI, Imad EL HADDAD, Emily BRUNS, Urs BALTENSPERGER, Andre PREVOT, Sebnem AKSOYOGLU
15:40 - 16:00
RESERVE PAPER / P2-AAS-AAP-187 Sea spray aerosol fluxes comparison: European Arctic vs. the Baltic Sea.
Piotr MARKUSZEWSKI, Tomasz PETELSKI, Przemysław MAKUCH, Tymon ZIELIŃSKI, Paulina PAKSZYS

8-AAS-SS5 ATMOSPHERIC AEROSOL STUDIES

14:00 - 16:00 SPECIAL SESSION 5: FUKUSHIMA *Room 1 (Level 2)*
CHARACTERISTICS AND BEHAVIOUR OF FUKUSHIMA AEROSOLS
Chairmen: Denis MARO (Cherbourg, FRANCE), Olivier MASSON (Cadarache, FRANCE)

14:00 - 14:20
08-AAS-SS5-01 Study of the formation of aerosols of FPs (I, Cs, Mo) and control rod material (Cd) in conditions representative of the RCS during a severe accident and consequences on gaseous iodine release.
Anne Cécile GRÉGOIRE, Emmanuel ASSAF, Sophie SOBANSKA
14:20 - 14:40
08-AAS-SS5-02 Atmospheric dispersion and ground deposition induced by the Fukushima Nuclear Power Plant accident.
Anne MATHIEU, A. QUEREL, O. SAUNIER, M. KAJINO, T. SEKIYAMA, I. KORSAKISSOK, R. PERILLAT, D. QUÉLO, K. ADACHI, T. MAKI, Y. IGARASHI, D. DIDIER
14:40 - 15:00
08-AAS-SS5-03 Activity size distribution of the Fukushima aerosol.
Jochen TSCHIERSCH, Takehisa OHKURA, Oliver MEISENBERG, Taeko SHINONAGA
15:00 - 15:20
08-AAS-SS5-04 Novel hypothesis for Fukushima re-suspension: Biological processes.
Yasuhito IGARASHI, K. KITA, T. KINASE, T. MAKI, C. TAKENAKA, M. KAJINO, K. ADACHI, M. ISHIZUKA, T. T. SEKIYAMA, Y. ZAIZEN, K. NINOMIYA, H. OKOCHI, A. SORIMACHI
15:20 - 15:40
08-AAS-SS5-05 Releases of radioactive particles from the Fukushima Daiichi NPP site caused by debris removal operations. Georg
STEINHAUSER, T. NIISOE, K. H. HARADA, K. SHOZUGAWA, S. SCHNEIDER, H. A. SYNAL, C. WALTHER, M. CHRISTL, K. NANBA, H. ISHIKAWA, A. KOIZUMI
15:40 - 16:00
08-AAS-SS5-06 Long-term assessment of airborne radio-cesium after the Fukushima nuclear accident: re-suspension from soil and vegetation.
Mizuo KAJINO, Masahide ISHIZUKA, Yasuhito IGARASHI, Kazuyuki KITA, Chisato YOSHIKAWA, Masaru INATSU

9-AT-SS3 AEROSOL TECHNOLOGY

14:00 - 16:00 SPECIAL SESSION 3: SOOT *Room 2 (Level 2)*
PHYSICO-CHEMICAL CHARACTERIZATION OF SOOT PARTICLES AND THEIR EVOLUTION
Chairmen: Sylvain PICAUD (Besancon, FRANCE), Jérôme YON (Saint Etienne Du Rouvray, FRANCE)

14:00 - 14:20
09-AT-SS3-01 A detailed multivariate model for soot growth and coagulation based on particle volume, surface area, reactivity, and H/C ratio.
Achim WICK, Heinz PITSCH

14:20 - 14:40

O9-AT-SS3-02 Impact of fuel and driving cycle on the chemical composition of particulate matter emitted by various automobile engines.

Olga POPOVICHEVA, Elena KIREEVA, Natalia SHONIJA, Jaroslav SCHWARZ, Michal VOJTISEK, Cornelia IRIMIEA, Ismael Kenneth ORTEGA, Yvain CARPENTIER, Cristian FOCSA

14:40 - 15:00

O9-AT-SS3-03 Particle Types Occuring in Fresh and Processed Emissions from Biomass Combustion.

Joakim PAGELS, Axel C ERIKSSON, Lindgren ROBERT, Christina ANDERSEN, Nielsen INGEBORG E, Jacob K NOJGAARD, Johan MARTINSSON, Erik AHLBERG, Robin NYSTRÖM, Erik NORDIN, Vilhelm B MALMBORG, William H BRUNE, Erik SWIETLICKI, Birgitta SVENNINGSSON, Christoffer BOMAN

15:00 - 15:20

O9-AT-SS3-04 Cloud condensation nuclei activation of Diesel and Kerosene flame soot particles aged in a smog chamber.

Symphorien GRIMONPREZ, Denis PETITPREZ, Pascale DESGROUX, Alessandro FACCINETTO, Sebastien BATUT, Lorenzo CAPONI, Matthieu CAZAUNAU, Edouard PANGUI, Michel MAILLE, Paola FORMENTI, Jean-François DOUSSIN

15:20 - 15:40

O9-AT-SS3-05 Interaction of chlorinated species with soot surfaces and influence on water adsorption. A theoretical study.

Carlos GARCIA-FERNANDEZ, Bastien RADOLA, Balazs FABIAN, Ludovic MARTIN-GONDRE, Sylvain PICAUD, Jean-Claude RAYEZ, Marie-Thérèse RAYEZ

15:40 - 16:00

O9-AT-SS3-06 Soot oxidation and thermal stability of nanoparticles in flames, a SAXS approach.

Jérôme YON, François-Xavier OUF, Nadine TEUSCHER, James Brian MITCHELL, Jean-Luc LE GARREC, Alexandre BESCOND, Werner BEAUMANN

RESERVE PAPER / P1-AT-SS3-001 Broadband measurements of the mass absorption coefficient of soot emitted by an inverted methane diffusion flame.

Lindsay RENBAUM-WOLFF, AI FISCHER, Taylor HELGESTAD, Andrew LAMBE, Geofffrey SMITH, Christopher CAPPA, Arthur SEDLACEK, Paul DAVIDOVITS, Timothy ONASCH, Andrew FREEDMAN

10-AT-SS1 AEROSOL TECHNOLOGY

14:00 - 16:00 SPECIAL SESSION 1: PLASMA *Room 3 (Level 2)*

PLASMA-BASED AEROSOL PROCESSES FOR THE PRODUCTION AND COATING OF NANOPARTICLES

Chairmen: Jean-Pascal BORRA (Gif-Sur-Yvette, FRANCE), Alfred WEBER (Clausthal, GERMANY)

14:00 - 14:20

O10-AT-SS1-01 Plasma-based aerosol processes for the production of nanoscale materials.

Jean-Pascal BORRA

14:20 - 14:40

O10-AT-SS1-02 On the difficulty to form alloy nanoparticles by interaction of spark discharges with electrode surfaces in dielectric liquids.

Hiba KABBARA, Cédric NOËL, Jaafar GHANBAJA, Thierry BELMONTE

14:40 - 15:00

O10-AT-SS1-03 Aerosol based manufacturing of single walled carbon nanotube thin films for flexible electronics applications.

Esko KAUPPINEN

15:00 - 15:20

O10-AT-SS1-04 Post-DBD-plasma silica coating of gasborne metal nanoparticles.

Alfred WEBER, Patrick POST, Nicolas JIDENKO, Jean-Pascal BORRA

15:20 - 15:40

O10-AT-SS1-05 Preparation of multifunctional organic-inorganic nanocomposite thin films by aerosol-assisted atmospheric cold plasma deposition.

Fiorenza FANELLI, Anna Maria MASTRANGELO, Francesco FRACASSI

15:40 - 16:00

O10-AT-SS1-06 Plasma based aerosol processes for nanocomposite thin film deposition at low temperature and atmospheric pressure.

Francoise MASSINES, Paul BRUNET, Jean-Michel MARTINEZ, Rocio RINCON, Ali HENDAOUI, Laura GAUDY, Mohamed CHAKER

RESERVE PAPER / P2-AT-SS1-001 From liquid conversion to nanoparticle synthesis by submerged spark discharges.

Hiba KABBARA, Cédric NOËL, Thierry BELMONTE

16:00 - 16:30 COFFEE BREAK

Exhibition Hall

P1-AAS-AAP1 ATMOSPHERIC AEROSOL STUDIES

16:00 - 18:00 POSTER SESSION *Poster area*

AEROSOL CLOUD INTERACTIONS

P1-AAS-AAP-001 Aerosol impact on fog microphysics.
Marie MAZOYER, Frédéric BURNET, Greg ROBERTS, Martial HAEFFELIN, Jean-Charles DUPONT, Thierry ELIAS

P1-AAS-AAP-003 The effects of ice nucleating particle types in the immersion mode on ice formation and precipitation in a convective cloud: Model simulations with COSMO-SPECS.
Karoline DIEHL, Verena GRÜTZUN, Jens STOLL, Martin SIMMEL, Ralf WOLKE

P1-AAS-AAP-004 Ice nucleating particles atmospheric concentration at San Pietro Capofiume (Italy): local sources and long range transport.
Matteo RINALDI, Franco BELOSI, Alessia NICOSIA, Gianni SANTACHIARA, Stefano DECESARI, Maria Cristina FACCHINI

P1-AAS-AAP-005 10 years of cloud droplet activation data from Pallas GAW station in sub-Arctic Finland.
Niku KIVEKÄS, Eija ASMI, David BRUS, Mika KOMPPULA, Heikki LIHAVAINEN

P1-AAS-AAP-006 Determination of fog droplet deposition velocity based on weighing method.
Jackie TAV, Olivier MASSON, Pascal PAULAT, Thierry BOURRIANNE, Anne DE VISMES, Sébastien CONIL, Frédéric BURNET

P1-AAS-AAP-007 Measurement of the steady state concentration of hydroxyl radicals in cloud water.
Audrey LALLEMENT, Virginie VINATIER, Martine SANCELME, Laurent DEGUILLAUME, Anne-Marie DELORT, Gilles MAILHOT

P1-AAS-AAP-008 Vertical profiling of aerosol and cloud properties during Pallas Cloud Experiment 2015.
David BRUS, Priit TISLER, Konstantinos DOULGERIS, Ewan O'CONNOR, Komppula MIKA, Maria FILIOGLOU, Eija ASMI

P1-AAS-AAP-236 Analysis of aerosol properties dynamics in relation to the air mass transport during BAECC campaign.
Ksenia TABAKOVA, Veli-Matti KERMINEN, Pasi AALTO, Jenni KONTKANEN, Markku KULMALA, Tuukka PETÄJÄ

P1-AAS-AAP2 ATMOSPHERIC AEROSOL STUDIES

16:00 - 18:00 POSTER SESSION *Poster area*

CLIMATE EFFECTS OF AEROSOLS AND GLOBAL MODELLING

P1-AAS-AAP-009 Determination of the Heating Rate of black carbon at high time resolution: a new methodology for experimental measurements of source-identified radiative forcing effects.
Luca FERRERO, Grisa MOCNIK, Sergio COGLIATI, Biagio DI MAURO, Roberto COLOMBO, Ezio BOLZACCHINI

P1-AAS-AAP-010 How wind and water temperature drives sea spray aerosol emissions, based on in situ eddy covariance fluxes and compared to laboratory tank experiments.
E. Douglas NILSSON, E. M. MÅRTENSSON, M. SALTER, A. RUTGERSSON

P1-AAS-AAP-011 Dust and climat over kuwait.
Ismail SABBAH, Jean-François LÉON, Benjamin GUINOT

P1-AAS-AAP-012 A global simulation of brown carbon aerosol and its implications.
Rokjin PARK, D.s. JO, S. LEE, S. W. KIM

P1-AAS-AAP-013 Black carbon aging and its impact on the spatial distribution and radiative forcing using a MRI global climate model.
Naga OSHIMA, T. Y. TANAKA, T. KOSHIRO, H. KAWAI, M. DEUSHI, M. KOIKE

P1-AAS-AAP-014 Satellite remote sensing and in-situ data for assessment of aerosol climate effects on.
Maria ZORAN, Roxana SAVASTRU, Dan SAVASTRU

P1-AAS-AAP-015 Estimation of errors in modelling of clear-sky direct aerosol radiative forcing in the Arctic due to plane-parallel approach.
Anna ROZWADOWSKA, Izabela GORECKA, Michal CHILINSKI, Justyna LISOK, Przemyslaw MAKUCH, Krzysztof MARKOWICZ, Piotr MARKUSZEWSKI, Paulina PAKSZYS, Tomasz PETELSKI, Iwona STACHLEWSKA, Tymon ZIELINSKI

16:00 - 18:00 POSTER SESSION *Poster area*

NEW PARTICLE FORMATION

P1-AAS-AAP-016 Observation of new particle formation on Curonian Spit.
Genrik MORDAS, Kristina PLAUSKAITE, Nina PROKOPCIUK, Vadimas DUDOITIS, Vidmantas ULEVICIUS

P1-AAS-AAP-017 Neutral and ion-induced H2SO4 - H2O particle formation 2: CLOUD experimental data spanning all atmospheric conditions.
Jonathan DUPLISSY, Joonas MERIKANTO, Anni MÄÄTTÄNEN, Henning HENSCHEL, Neil DONAHUE, David BRUS, Markku KULMALA, Hanna VEHKAMÄKI

P1-AAS-AAP-018 Neutral and ion-induced H2SO4 - H2O particle formation 3: new improved parameterization.
Anni MÄÄTTÄNEN, Joonas MERIKANTO, Henning HENSCHEL, Jonathan DUPLISSY, Ismael K. ORTEGA, Hanna VEHKAMÄKI

P1-AAS-AAP-019 The first global picture of observation-based estimate on continental boundary layer new particle formation.
Tuomo NIEMINEN, Veli-Matti KERMINEN, Hanna MANNINEN, Tuukka PETÄJÄ, Markku KULMALA

P1-AAS-AAP-020 Observations of increased new-particle formation along horizontal roll vortices.
Janne LAMPILAHTI, Hanna MANNINEN, Riikka VÄÄNÄNEN, Katri LEINO, Antti MANNINEN, Stephany BUENROSTRO MAZON, Matti LESKINEN, Tuukka PETÄJÄ, Markku KULMALA, Tuomo NIEMINEN

P1-AAS-AAP-021 Links between chemical composition of positive and negative air ions.
Tiia-Ene PARTS, Urmas HÕRRAK, Kaupo KOMSAARE, Aare LUTS, Madis NOPPEL

P1-AAS-AAP-022 First direct observations on sub-3 nm molecular clusters in lower atmosphere using airborne measurements.
Katri LEINO, Stephany MAZON, Riikka VÄÄNÄNEN, Janne LAMPILAHTI, Antti MANNINEN, Hanna MANNINEN, Tuukka PETÄJÄ, M. KULMALA

P1-AAS-AAP-023 On a meteor mechanism of aerosol formation in the upper atmosphere.
Oleksandr GIRIN

P1-AAS-AAP-024 Interactions between urban air and regional atmospheric nucleation.
Imre SALMA, Zoltan NÉMETH, Veli-Matti KERMINEN, Aalto PASI, Nieminen TUOMO, Tamás WEIDINGE, Ágnes MOLNÁ, Kornélia IMRE, Markku KULMALA

P1-AAS-AAP-025 Computational approach for studying the participation of ketodiperoxy acids in atmospheric new particle formation.
Nanna MYLLYS, Jonas ELM, Theo KURTÉN, Hanna VEHKAMÄKI

P1-AAS-AAP-026 Nanoparticle generations from the brake friction of subway train.
Hyeong-Gyu NAMGUNG, Tae-Suk OH, Sung-Joon BAE, Yeo Gyeong YUN, Soon-Bark KWON

P1-AAS-AAP-027 Long-term analysis of non-cloudy new particle formation events over Hyytiälä.
Lubna DADA, Tuomo NIEMINEN, Stephany B. MAZON, Pauli PAASONEN, Jenni KONTKANEN, Veli-Matti KERMINEN, Jaana BÄCK, Markku KULMALA

P1-AAS-AAP-028 How does ionising radiation contribute to air ion formation in the lower atmosphere?
Chen XUEMENG, Veli-Matti KERMINEN, Pauli PAASONEN, Jussi PAATERO, Hanna MANNINEN, Tuukka PETÄJÄ, Markku KULMALA

P1-AAS-AAP-029 New particle formation events in a rural and an urban sites in Po Valley, Italy.
Arianna TRENTINI, Dimitri BACCO, Fabiana SCOTTO, Vanes POLUZZI, Isabella RICCIARDELLI, Claudio MACCONE, Ari LAAKSONEN, Silvia FERRARI, Jorma JOUTSENSAARI

P1-AAS-AAP-237 Chemical ionization of clusters formed from sulfuric acid and dimethylamine or diamines.
Coty JEN, Jun ZHAO, Peter MCMURRY, David HANSON

P1-AAS-AAP-238 Comparing night-time with day-time ion cluster events in a boreal forest.
Stephany BUENROSTRO MAZON, Jenni KONTKANEN, Hanna E. MANNINEN, Tuomo NIEMINEN, Veli-Matti KERMINEN, Markku KULMALA

P1-AAS-AAP-239 Nano-particle measurements downstream Vienna in the direct surroundings of an oil refinery and the Vienna airport.
Sophia BRILKE, Dominik STOLZENBURG, Victoria KAINZ, Bettina RAFFALT, Alexander MAYER, Andreas KROPF, Paul WINKLER

P1-AAS-AAP4 ATMOSPHERIC AEROSOL STUDIES

16:00 - 18:00 POSTER SESSION *Poster area*

OPTICAL PROPERTIES OF ATMOSPHERIC AEROSOLS

P1-AAS-AAP-030 Aerosol optical properties package for the In-service Aircraft Global Observing System IAGOS: Setup and first airborne application.
Ulrich BUNDKE, Andrew FREEDMAN, Andreas HERBER, Ina MATTIS, Marcel BERG, Julia DE FARIA, Andreas PETZOLD

P1-AAS-AAP-031 Scattering properties of aerosols at an urban station over the Indo-Gangetic Basin: Meteorological impacts and implications to regional climate.
Atul SRIVASTAVA, S TIWARI, Deewan Singh BISHT

P1-AAS-AAP-032 Aerosol absorption and single-scattering albedo measurements at a remote European site: evaluation of the CAPS-PMssa monitor.
Joel C. CORBIN, Thomas MÜLLER, Birgit WEHNER, Thomas TUCH, Nicolas BUKOWIECKI, Urs BALTENSPERGER, Martin GYSEL

P1-AAS-AAP-033 Determination of the complex refractive index and microstructure of atmospheric aerosol using the data on scattering and extinction of radiation.
Svetlana TERPUGOVA, Mikhail PANCHENKO, Victor UZHEGOV, Yuri PKHALAGOV

P1-AAS-AAP-034 Aerosol optical properties and BC mass concentration in Saint Petersburg suburb.
Mikhail SVIRIDENKOV, Evgeniy NEBOSKO, Eugene MIKHAILOV

P1-AAS-AAP-035 Aerosol properties over the Paris megacity monitored using a multi-wavelength Raman Lidar.
Juan Antonio BRAVO-ARANDA, Christophe PIETRAS, Martial HAEFFELIN

P1-AAS-AAP-036 Study of columnar aerosol size distribution at Mexico City.
Giovanni CARABALI, Mauro VALDÉS-BARRÓN, E. R. ESTÉVEZ, R. BONIFAZ, D. RIVEROS-ROSAS, F. VÁSQUEZ-GÁLVEZ

P1-AAS-AAP-037 Can we identify the aerosol chemical composition with spectral optical properties at the MCOH site in the northern Indian Ocean? *Friederike HÖPNER, Frida BENDER, Caroline LECK*

P1-AAS-AAP-038 Aerosol optical properties by simultaneous nephelometer and aethalometer measurements.
Salvatore ROMANO, Mariarosaria CALVELLO, Francesco ESPOSITO, Giulia PAVESE, Pasquale BURLIZZI, Maria Rita PERRONE

P1-AAS-AAP-039 Light absorption of brown carbon aerosol in the PRD region of China.
Jinfeng YUAN, Xiaofeng HUANG, Liming CAO, Jie CUI, Qiao ZHU, Congni HUANG, Zijuan LAN, Lingyan HE

P1-AAS-AAP-040 Equivalent Refractive Index of the urban background aerosol in Athens.
Stergios VRATOLIS, P. FETFATZIS, A. PAPAYANNIS, A. ARGYROULI, Kostas ELEFTHERIADIS

P1-AAS-AAP-041 Single scattering albedo observed at a high altitude location in the Mediterranean coast.
Ramón CASTAÑER, Ramón CASTAÑER, Marco PANDOLFI, Marina EALO, Sandra CABALLERO, Nuria GALINDO, Juan GIL-MOLTÓ, José Francisco NICOLÁS, Carlos PASTOR, Montserrat VAREA, Eduardo YUBERO, Andrés ALASTUEY, Javier CRESPO

P1-AAS-AAP-042 Chemical characterization and optical properties of submicron particles measured in M'Bour, Senegal during 2015/2016 dry season.
Laura-Hélèna RIVELLINI, Isabelle CHIAPELLO, Suzanne CRUMEYROLLE, Philippe GOLOUB, Thierry PODVIN, Emmanuel TISON, Véronique RIFFAULT

P1-AAS-AAP-043 Morphology and Optical Properties of Mixed Aerosol Particles.
Mehrnoush MOUSAVI FARD, Ulrich KRIEGER, Yinon RUDICH, Thomas PETER

P1-AAS-AAP-044 Aerosol optical properties of Western Mediterranean basin from multi-year AERONET data.
Jamel BENKHALIFA, Jean-François LÉON , Mabrouk CHAABANE

P1-AAS-AAP-045 Variation of the aerosols properties observed in the mixing layer and in the free troposphere from remote sensing and in-situ measurements performed at high altitude sites.
Aurelien CHAUVIGNÉ, Karine SELLEGRI, Maxime HERVO, Nadège MONTOUX, Patrick FREVILLE, Philippe GOLOUB, Diego ALIAGA, Fernando VELARDE, Isabel MORENO, Marcos ANDRADE, Paolo LAJ

P1-AAS-AAP-046 Aerosol optical characteristics at Ouarzazate, Morocco in 2012.
Mohammed DIOURI, Abdelouahid TAHIRI, Hanae STELI, Jamal BARKANI

P1-AAS-AAP-047 Aerosol cloud activation: optical properties at Puijo semi-urban site.
Antti RUUSKANEN, Harri PORTIN, Sami ROMAKKANIEMI, Antti AROLA, Annele VIRTANEN, Kari E. J. LEHTINEN, Mika KOMPPULA, Ari LESKINEN

P1-AAS-AAP-048 Aerosol Physical and Optical properties using Aerodynamic Particle Sizer and Skyradiometer at Seoul in 2013~2014. *Seungjoo SONG, Jeongeun KIM, Sang-Sam LEE, Joo Wan CHA, Sang Boom RYOO*

P1-AAS-AAP-049 Optical investigations of soot of different maturity
Sandra TÖRÖK, Vilhelm MALMBORG, Johan SIMONSSON, Axel ERIKSSON, Johan MARTINSSON, Joakim PAGELS, Per-Erik BENGTSSON

P1-AAS-AAP-050 Optical and hygroscopic properties of long-range transported haze plumes over the Korean Peninsula under the Asian continental outflows.
Jinsang JUNG, Joong Bo PARK

P1-AAS-AAP-240 Distribution, optical properties, and radiative effect of pollution aerosols in the western Mediterranean basin from TRAQA and SAFMED airborne observations.
Claudia DI BIAGIO, Cecile GAIMOZ, Noel GRAND, Gerard ANCELLET, Marc MALLET, Jean-Luc ATTIÉ, Matthias BEEKMAN, Agnes BORBON, Silvia BUCCI, Federico FIERLI, Lionel DOPPLER, Philippe DUBUISSON, Jean-Christophe RAUT, Francois RAVETTA, Karine SARTELET, Paola FORMENTI

P1-AAS-AAP-241 Seasonal variability and North-South gradients of aerosol optical, microphysical and radiative properties in the western Mediterranean.
Michaël SICARD, Ruben BARRAGAN, François DULAC, Lucas ALADOS-ARBOLEDAS, Marc MALLET

P1-AAS-AAP5 ATMOSPHERIC AEROSOL STUDIES

16:00 - 18:00 POSTER SESSION *Poster area*

PHYSICAL AND CHEMICAL PROPERTIES OF ATMOSPHERIC AEROSOLS

P1-AAS-AAP-051 PM2.5 chemical composition at Košetice; relation with seasons, meteorology, and size segregated particle number concentration.
Jaroslav SCHWARZ, Michael CUSACK, Jindřich KARBAN, Eva CHALUPNÍČKOVÁ, Vladimír HAVRÁNEK, Jiří SMOLÍK, Vladimír ŽDÍMAL

P1-AAS-AAP-052 Characterization of secondary inorganic aerosol and their precursor gases at a suburban site in Northern France.
Roger ROIG RODELAS, Esperanza PERDRIX, Laurent ALLEMAN, Bruno MALET, Benoît HERBIN, Véronique RIFFAULT

P1-AAS-AAP-053 Hygroscopicity of sub 30nm SOA particles during CLOUD10.
Angela BUCHHOLZ, Pasi MIETTINEN, Aki PAJUNOJA, Hao WANG, Arttu YLISIRNIÖ, Annele VIRTANEN

P1-AAS-AAP-054 Quantification of imidazoles in ambient aerosol particles from different environments in Europe and China.
Monique TEICH, Dominik VAN PINXTEREN, Simonas KECORIUS, Zhibin WANG, Herrmann HARTMUT

P1-AAS-AAP-055 Changes in the aerosol size distribution depending on raindrop size distribution in León (Northwest Spain).
C. BLANCO-ALEGRE, A. CASTRO, A.i. CALVO, C.a. ALVES, Estela VICENTE, Fernández-González D., Alonso-Blanco E., R. FRAILE

P1-AAS-AAP-056 Seasonality of the chemical composition of PM1 over Cyprus using near real-time measurements. Sources and geographic origins.
Iasonas STAVROULAS, Michael PIKRIDAS, Crysanthos SAVVIDES, Michael VREKOUSSIS, Nikolaos MIHALOPOULOS, Valerie GROS, Jean SCIARE

P1-AAS-AAP-057 Chemical and stable carbon isotope composition, sources and chemical processing of fine aerosol at urban, coastal and forest background sites.
Agne MASALAITE, Rupert HOLZINGER , Vidmantas REMEIKIS, Thomas RÖCKMANN, Ulrike DUSEK

P1-AAS-AAP-058 Aerosol classification using a neural network algorithm.
Jeni VASILESCU, Doina NICOLAE, Camelia TALIANU, Luminita MARMUREANU

P1-AAS-AAP-059 Hygroscopic Properties of Fine Aerosol Dust Particles over the Background Site of Ag. Marina in Cyprus.
Spyridon BEZANTAKOS, Michael PIKRIDAS, M. VREKOUSSIS, N. MIHALOPOULOS, J. SCIARE, George BISKOS

P1-AAS-AAP-060 Investigating the chemical composition and morphology of natural mineral dust samples.
Manolis ROMANIAS, Nitesh JOSHI, Mohamad ZEINEDDINE, Habib OURRAD, Marie CHOEL, Frédéric THEVENET, Véronique RIFFAULT

P1-AAS-AAP-061 Atmospheric aerosol volatility at a suburban and rural measurement site.
Lucie KUBELOVA, Petr VODICKA, Otakar MAKES, Jaroslav SCHWARZ, Vladimir ZDIMAL

P1-AAS-AAP-062 Researches on the source profile of particulate matter in China.
Zhang WENJIE, Liu YAYONG, Zhao XUEYAN, Bai ZHIPENG , Yang WEN, Han BIN, Wang XINHUA

P1-AAS-AAP-063 Chemical composition of PM1, PM2.5-1 and PM10-2.5 in an urban environment.
Jana KOZAKOVA, Jaroslav SCHWARZ, Cecilia LEONI, Miroslav KLAN, Jan HOVORKA

P1-AAS-AAP-064 Aerosol monitoring activities at the Navarino Environmental Observatory, a new ACTRIS site in the Eastern Mediterranean.
Evangelos GERASOPOULOS, Giorgos MANEAS, Nikolaos KALIVITIS, Aggelina METAXATOS, Eleni LIAKAKOU, Radovan KREJCI, Peter TUNVED, Hans Christen HANSSON, Jean SCIARE, Nikolaos MIHALOPOULOS, Christos ZEREFOS

P1-AAS-AAP-065 Characterization of organic nitrates from biogenic and anthropogenic SOA: dimer formation and relation to volatility.
Cameron FAXON, Julia HAMMES, Mattias HALLQUIST, Ravi PATHAK

P1-AAS-AAP-066 Profiling sources of airborne particulate matter at a background site in Gothenburg region.
Samuel Mwaniki GAITA, Charlotta NEJMAN, Johan BOMAN, Jan B.c. PETTERSSON, Karin PERSSON

P1-AAS-AAP-067 Chemical characterization of PM2.5 and PM10 at five sites in Southern Italy during wintertime and spring.
Marinoni ANGELA, Bonasoni PAOLO, Cristofanelli PAOLO, Calidonna CLAUDIA ROBERTA , Ammoscato IVANO , Gulli DANIEL, Dinoi ADELAIDE, Contini DANIELE, Cesari DANIELA, Sprovieri FRANCESCA, Andreoli V., Naccarato A., Tirimperio G., Chianese ELENA, Riccio ANGEO

P1-AAS-AAP-068 Similarities and discrepancies when surface and columnar aerosol data are jointly analysed in a background environment.
Victoria CACHORRO, D. MATEOS, M. A. BURGOS, Y. S. BENNOUNA, C. TOLEDANO, R. GONZÁLEZ, C. VELASCO-MERINO, C. GUIRADO, B. TORRES, A. CALLE, A. M. DE FRUTOS

P1-AAS-AAP-069 Long term (1980- 2000) evolution of trace and crustal elements in Athens.
Vasiliki VASILATOU, M. SCOULLOS, Konstantinos ELEFTHERIADIS

P1-AAS-AAP-070 Ice nucleation activity of airplane soot surrogates in deposition mode investigated with the IDroNES set-up.
Raouf IKHENAZENE, Claire PIRIM, Yvain CARPENTIER, Cristian FOCSA, Bertrand CHAZALLON, Francois-Xavier OUF

P1-AAS-AAP-071 Variation of spectral properties of black carbon due to biomass burning.
Pratima GUPTA, S. SINGH, A. JANGID, Ranjit KUMAR

P1-AAS-AAP-072 Simulation of Atmospheric Cr Chemistry and Physics.
Mehdi AMOUEI TORKMAHALLEH, Dhawal SHAH, Bekbol ALDAMZHAROV, Dinara KONAKBAYEVA, Assel BUKAYEVA, Zinetullina ALTYNGUL, Marios FYRILLAS

P1-AAS-AAP-073 Horizontal and vertical variation of particle concentration over Southern Finland.
Riikka VÄÄNÄNEN, Radovan KREJCI, Hanna E. MANNINEN, Antti MANNINEN, Janne LAMPILAHTI, Stephany B. MAZON, Tuomo NIEMINEN, Taina YLI-JUUTI, Jenni KONTKANEN, Ari ASMI, Pasi P. AALTO, Petri KERONEN, Tuukka PETÄJÄ, Markku KULMALA

P1-AAS-AAP-074 Seasonal Variations in the Chemical Composition of Size Segregated Aerosols for Northwestern Black Sea Atmosphere of Turkey.
Fatma OZTURK, Keles MELEK, Soulemane Halif NGAGINE

P1-AAS-AAP-075 Study of fundamental physical and chemical parameters of atmospheric aerosols from aerial platforms research, manned and unmanned.
Susana OSUNA-ESTEBAN, Neves SEOANE-VIEIRA, Ángeles AGUILERA, J ÁNGEL-MARTÍNEZ, Ana CORRALES-SIERRA, Bartolomé MARQUÉS-BALAGUER, Elena GONZÁLEZ-TORIL, Jose CANO-HERNÁNDEZ

P1-AAS-AAP-076 Simulation of aerosol chemical compositions in the Western Mediterranean Sea.
Mounir CHRIT, Karine KATA SARTELET, Jean SCIARE, Jorge PEY, Nicolas MARCHAND, Karine SELLEGRI, Langley DEWITT

P1-AAS-AAP-077 Off line-measurement of Ice-Nucleating Particles.
Franco BELOSI, J. SCHROD, A. NICOSIA, G. SANTACHIARA, F. PRODI, D. WEBER, H. BINGEMER

P1-AAS-AAP-078 Photo-transformation of single NaNO3 particle and influence on their hygroscopic properties.
Samantha SENG, Fangqin GUO, Tomoki ISHIKAWA, Shoji ISHIZAKA, Yeny TOBON, Sophie SOBANSKA

P1-AAS-AAP-079 Influence of air mass origin on the chemical composition of PM10 at a Mediterranean high mountain site.
Juan GIL-MOLTÓ, Nuria GALINDO, Montse VAREA, Javier CRESPO, Sandra CABALLERO, Jose F. NICOLÁS, Eduardo YUBERO, Ramón CASTAÑER, Carlos PASTOR

P1-AAS-AAP-080 Impact of wood combustion in an open fireplace on indoor residential air quality: Respirable Fraction.
A. CASTRO, A.i. CALVO, C. BLANCO, C.a. ALVES, E. COZ, M. DUARTE, Estela VICENTE, F. AMATO, X. QUEROL, R. FRAILE

P1-AAS-AAP-081 Assessment of industrial contribution and ship emissions at an industrial and coastal site in Northern France.
Shouwen ZHANG, Véronique RIFFAULT, Sébastien DUSANTER, Marc FOURMENTIN, Hervé DELBARRE

P1-AAS-AAP-082 Spatial and Temporal Variation of Airborne Particle Concentration in the Yangtze River Basin.
Lidia MORAWSKA, Jianmin CHEN, Rohan JAYARATNE, Xingnan YE, Chunlin LI

P1-AAS-AAP-083 Identification of unknowns in atmospheric aerosols using comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometer (GC×GC-TOF-MS).
So Hyeon JEON, Ji Yi LEE, Hyung Bae LIM, Yun Gyong AHN, Yong Pyo KIM

P1-AAS-AAP-084 2015 Eruption of Mt. Aso in Japan and its impacts in Air Quality over South Korea.
Ryoo SANG-BOOM, Cha JOO WAN, Lee HEE CHOON, Cho JEONG HOON, Ko HEE JUNG , Park SUN-CHEON

P1-AAS-AAP-085 Surfactants in PM1 aerosols from boreal Northern Finland: importance for cloud droplet formation ?
Violaine GÉRARD, Barbara NOZIÈRE, Eija ASMI, Heikki LIHAVAINEN, Niku KIVEKÄS, Minna AURELA, David BRUS, Ludovic FINE, Amanda Ann FROSSARD, Ronald Carl COHEN

P1-AAS-AAP-086 Detection of charged aerosols during the BEXUS18 stratospheric flight: main results and open questions.
Erika BRATTICH, Encarnacion SERRANO CASTILLO, Fabrizio GIULIETTI , Jean-Baptiste RENARD, Sachi TRIPATHI, Kunal GOSH, Laura TOSITTI

P1-AAS-AAP-087 Physical and chemical properties of aerosols and their impact on radiative forcing during iAREA campaigns (Ny-Alesund, Spitsbergen).
Justyna LISOK, K M MARKOWICZ, C RITTER, P MAKUCH, S BECAGLI, R TRAVERSI, R UDISTI

P1-AAS-AAP-088 Direct Measurements of Water Transport Kinetics and Viscosity of Glassy Organic Aerosol.
Young SONG, Allen HADDRELL, Stephen INGRAM, Andrew RICKARDS, Rachael MILES, Frances MARSHALL, Jonathan REID

P1-AAS-AAP-089 Study of ozonolysis of ultrasonically levitated droplets containing unsaturated fatty acids.
Edna R. CABRERA-MARTINEZ, Christian PFRANG

P1-AAS-AAP-090 The intense PM pollution episode in France during March 2015: multi-site approach and near real time data.
Jean-Eudes PETIT, Olivier FAVEZ, Tanguy AMODEO, Frederik MELEUX, Bertrand BESSAGNET, Laurent MENUT, Didier GRENIER, Benoit ROCQ, Valérie GROS, Jean SCIARE

P1-AAS-AAP-091 Weekly periodicities of aerosol properties and impacts on irradiance measurements at the surface.
Maria Rita PERRONE, Silvia BECAGLI, Pasquale BURLIZZI, Fabio PALADINI, Salvatore ROMANO, Roberto UDISTI

P1-AAS-AAP-092 Cellulose particles as ice nuclei.
Matteo PIAZZA, Alessia NICOSIA, Franco PRODI, Gianni SANTACHIARA, Franco BELOSI

P1-AAS-AAP-093 Long-term study on the physical characteristics of polar aerosols at the King Sejong station, Antarctic Peninsula.
Jaeseok KIM, Young Jun YOON, Yeontae GIM, Bang Yong LEE

P1-AAS-AAP-094 Real time measurements of submicrometer aerosols in Seoul, Korea: Sources, characteristics, and processing of organic aerosols during winter time.
Hwajin KIM, Qi ZHANG, Jin Young KIM

P1-AAS-AAP-242 Characterising black carbon along Yangtze River in China.
Yu-Chieh TING, Dantong LIU, William MORGAN, James ALLAN, Hugh COE, Chunlin LI, Xinke WANG, Xingnan YE, Jianmin CHEN

P1-AAS-AAP-243 Impact of heat treatment and cloud cycling on the single particle chemical composition of soil dust.
Xiaoli SHEN, Ramakrishna RAMISETTY, Harald SAATHOFF , Thea SCHIEBEL, Kristina HÖHLER, Ottmar MÖHLER, Claudia MOHR

P1-AAS-AAP-244 Impact of heat treatment and cloud cycling on the single particle chemical composition of soil dust.
Xiaoli SHEN, Ramakrishna RAMISETTY, Harald SAATHOFF , Thea SCHIEBEL, Kristina HÖHLER, Ottmar MÖHLER, Claudia MOHR

P1-AAS-AAP6 ATMOSPHERIC AEROSOL STUDIES

16:00 - 18:00 POSTER SESSION *Poster area*

REMOTE SENSING OF AEROSOL PROPERTIES

P1-AAS-AAP-095 Study of aerosol spatial variability by means of a mobile observing system.
Ioana Elisabeta POPOVICI, Philippe GOLOUB, Thierry PODVIN, Luc BLAREL, Rodrigue LOISIL, Augustin MORTIER, Fabrice DUCOS, Christine DEROO, Marie CHOEL, Suzanne CRUMEYROLLE, Stephane VICTORI, Natalie SOHNE

P1-AAS-AAP-096 Comparison of aerosol properties from Lidar against the retrieved with GRASP algorithm using ceilometer and sunphotometer measurements as input.
Roberto ROMÁN, Victoria CACHORRO, Benjamín TORRES, David FUERTES, Alberto CAZORLA, Anton LOPATIN, Carlos TOLEDANO, Jose BENAVENT-OLTRA, Juan Luis GUERRERO-RASCADO, Oleg DUBOVIK, Antonio SERRANO, Francisco Jose OLMO, Maria Luisa CANCILLO, Angel DE FRUTOS, Lucas ALADOS-ARBOLEDAS

P1-AAS-AAP-097 Inferring aerosol properties and radiative forcing over gobabeb, namibia using ground based remote sensing.
Joseph ADESINA, Stuart PIKETH, Paola FORMENTI, Gillianm MAGGS-KÖLLING, Brent HOLBEN, Mikhail SOROKIN

P1-AAS-AAP-098 Study of aerosol properties stratification in West Siberia by means of multi-wavelength lidar.
Svetlana SAMOILOVA, Iogannes PENNER, Yuri BALIN, Mikhail SVIRIDENKOV, Grigorii KOKHANENKO

P1-AAS-AAP-099 Remote sensing of pesticide spray drift: a tool for estimating and reducing air pollution from agriculture.
Oz KIRA, Yael DUBOWSKI, Raphael LINKER

P1-AAS-AAP-100 Imputation of missing aerosol data over Indian region.
Pratyush KUMAR, Prashant DAVE, Mani BHUSHAN

P1-AAS-AAP-101 Lidar remote sensing of atmospheric aerosols: specific addressing of the carbon aerosol and new particle formation *events. Alain MIFFRE, Tahar MEHRI, Patrick RAIROUX*

P1-AAS-AAP-245 Automatic processing of Raman lidar measurements for aerosol classification.
Xiaoxia SHANG, Patrick CHAZETTE, Julien TOTEMS, Gérard ANCELLET, Jacques PELON , Cyrille FLAMANT , Eric HAMONOU, Alexandre MARPILLAT

16:00 - 18:00 POSTER SESSION *Poster area*

TRANSPORT AND TRANSFORMATION OF ATMOSPHERIC AEROSOLS

P1-AAS-AAP-102 Influence of breeze circulation on local wind climatology and AOD changes in Svalbard fjords: Kongsfjorden and Hornsund.
Małgorzata CISEK, Tomasz PETELSKI, Przemysław MAKUCH, Dorota GUTOWSKA, Jacek PISKOZUB, Tymon ZIELIŃSKI

P1-AAS-AAP-103 Variability of size distribution measurements of atmospheric aerosol particles observed at Cabauw over the period 2008-2014.
Dimitra MAMALI, Arnoud APITULEY, Bas HENZING, Herman RUSSCHENBERG, George BISKOS

P1-AAS-AAP-246 Effectiveness of Various Control Measures on Ambient PM2.5 Concentration in Taiwan.
Jiun-Horng TSAI, Ming-Yeh LEE

P1-AAS-AAP-247 Ensemble simulations of a meteorological field and an aerosol plume dispersion validated by local surface wind and Cs-137 observations.
Thomas SEKIYAMA, Mizuo KAJINO, Masaru KUNII

P1-AAS-AAP-104 Modelling iodine interactions with atmospheric aerosol.
Camille FORTIN, Florent LOUIS, Valérie FÈVRE-NOLLET, Frédéric COUSIN, Laurent CANTREL, Patrick LEBÈGUE

P1-AAS-AAP-105 Polychlorinated dibenzo-p-dioxin and dibenzofurans (PCDD/Fs) in cloud water collected on Mt. Bamboo in northern Taiwan during the northeast monsoon season.
Yen-Yi LEE, Wen-Jhy LEE, Neng-Huei LIN, Lin-Chi WANG, Guo-Ping CHANG-CHIEN

P1-AAS-AAP-106 The role of EBC measurements in Zeppelin Station for identifying source areas of transported carbonaceous aerosol from lower latitudes.
Vasileios STATHOPOULOS, Eleftheriadis KONSTANTINOS

P1-AAS-AAP-107 Modelling multiphase aerosol-cloud processing with the 3-D CTM COSMO-MUSCAT: Application for cloud events during HCCT-2010.
Roland SCHRÖDNER, Ralf WOLKE, Andreas TILGNER, Hartmut HERRMANN

P1-AAS-AAP-108 On-line measurements and air flow modelling at/near BpART facility.
Imre SALMA, Zoltan NÉMETH, Tamás WEIDINGER, Boldizsár KOVÁCS, Kristóf GERGELY

P1-AAS-AAP-109 The pollution concentration spatial distribution along highway during rush hours.
Shin YU, N. H. HO, C. T. CHANG

P1-AAS-AAP-110 Evaluation of size-resolved elemental carbon emission in Europe and its influence on long-range transportation.
Ying CHEN, Ya-Fang CHENG, Stephan NORDMANN, Wolfram BIRMILI, Denier Van Der Gon HUGO A C , Nan MA, Ralf WOLKE, Birgit WEHNER, Jia SUN, Gerald SPINDLER, Qing MU, Ulrich PÖSCHL, Hang SU, Alfred WIEDENSOHLER

P1-AAS-AAP-111 Impact of shipping to atmospheric pollutants in four Adriatic-Ionian port-cities.
Eva MERICO, Andrea GAMBARO, Athanassios ARGIRIOU, Ana ALEBIC-JURETIC, Elena BARBARO, Daniela CESARI, Spiros DIMOPOULOS, Adelaide DINOI, Antonio DONATEO, Elena GREGORIS, Athanasios KARAGIANNIDIS, Tatjana IVOSEVIC, Natalia LIORA, Dimitrios MELAS, Boris MIFKA, Ivo ORLIC, Anastasia POUPKOU, Kristina SAROVIC, Daniele CONTINI

P1-AAS-AAP-112 Aerosol particle dry deposition velocities above environmental substrates: deposition vs emission.
Geoffrey PELLERIN, D. MARO, E. GEHIN, P. LAGUIONIE, D. HÉBERT, O. CONNAN, L. SOLIER

P1-AAS-AAP-113 Eddy covariance aerosol flux measurements during the Melpitz Column experiment.
Janine LÜCKERATH, Birgit WEHNER, Andreas HELD

P1-AAS-AAP-114 Deciphering origins of acidic pollutants in Svalbard - Hansbreen case study.
Paulina PAKSZYS, Adam NAWROT , Krzysztof MIGAŁA, Bartłomiej LUKS

P1-AAS-AAP-115 Effect of land use database using remote sensing data in air quality modeling.
Ken-Hui CHANG, Yi-Pin LIN, Chih-Yuan YU, Tu-Fu CHEN, Chang-Yu TSAI

P1-AAS-AAP-116 Aircraft observations: Vertical profiles of aerosol optical and physical properties above NE Spain.
Marina EALO, Marco PANDOLFI, Grisa MOCNIK, Noemí PÉREZ, Anna RIPOLL, Xavier QUEROL, Adolfo COMERÓN, Michael SICARD, Josep Anton MORGUÍ, Andrés ALASTUEY

P1-AAS-AAP-117 Semi-quantitative methodology to assess efficiency of local air pollution abatement policies in contrast to national or continental ones.
José Carlos CERRO, Víctor CERDÀ, Jorge PEY

P1-AAS-AAP-118 Long term measurements or radioactive tracers in Athens.
Ekaterini DALAKA, Marios ANAGNOSTAKIS, Konstantinos ELEFTHERIADIS

P1-AAS-AAP-119 Modelling transformation of particle number size distributions from roadside into the urban background.
Lars GERLING, Stephan WEBER

P1-AAS-AAP-120 Urban aerosol flux measurements in Innsbruck, Austria.
Lisa VON DER HEYDEN, Malte Julian DEVENTER, Martin GRAUS, Thomas KARL, Andreas HELD

P1-AAS-AAP-121 On the role of topography on the planetary boundary layer influence at high altitude sites.
Martine COLLAUD COEN, Elisabeth ANDREWS

P1-AAS-AAP-122 Influence of mineral dust on changes of 7Be concentrations in air as measured by CTBTO global monitoring system. *Jolanta KUSMIERCZYK-MICHULEC, Abdelhakim GHEDDOU*

P1-AT-EE AEROSOL TECHNOLOGY

16:00 - 18:00 POSTER SESSION *Poster area*

AEROSOL TECHNOLOGY - ELECTRICAL EFFECT

P1-AT-EE-001 Geometry effect of a novel two-stage ESP with indirect charging method on collection efficiency against ultrafine particles.
Yong-Jin KIM, Kim HAK-JOON, Bangwoo HAN, Chang-Gyu WOO

P1-AT-EE-002 Observation of Zygosaccharomyces rouxii cells after pulsed electric field.
Yuta NAKADA, Tomohiro OKU, Akinori ZUKERAN, Risei WADA, Jun SAWAI, Takashi INUI

P1-AT-EE-003 Investigation of inactivation effect by corona discharge using a fluorescence microscope.
Ryo OI, Iori KOBAYASHI, Akinori ZYKERAN, Risei WADA, Jun SAWAI

P1-AT-EE-004 Indoor bioaerosol monitoring using an electrostatic bioaerosol sampler and MALDI-TOF mass spectrometer.
Hyeong Rae KIM, Hyeong Rae KIM, Ji-Woon PARK, Hyung Sun KIM, Dongeun YONG, Jungho HWANG

P1-AT-EE-005 Development of unipolar charged nanoparticle generation via corona in situ generating spark discharger.
Seung Ryul NOH, Dae Seong KIM, Sei Jin PARK, Mansoo CHOI

P1-AT-EE-006 A dust reduction system based on corona discharge and electric wind.
Jan C.M. MARIJNISSEN, Rein A. ROOS

P1-AT-EE-007 A two-stage electrostatic indoor air purifier with water-film collection plates. Bangwoo HAN, Hak-Joon KIM, Chang-*Gyu WOO, Yong-Jin KIM*

P1-AT-EE-008 PIV Measurement of Particle Behavior in Hole type Electrostatic Precipitator.
Hirotaka MIYASHITA, Takahumi KAMIJOU, Yoshiyasu EHARA, Joe ENOMOTO, Takashi INUI, Yukio AOKI

P1-AT-EE-009 Simulation analysis of the flow on Hole-type Electrostatic Precipitator.
Shumpei IBARAKI, Yutaro AMAYA, Yoshiyasu EHARA, Joe ENOMOTO, Takashi INUI, Yukio AOKI

P1-AT-EE-010 Removal of PAHs emitted from diesel engine using an electrostatic precipitator.
Yuki NANJO, Takashi INUI, Kota MAYAHARA, Yoshihiro SAKUMA, Shinsuke SERIZAWA, Akinori ZUKERAN

P1-AT-EE-011 Investigation of an Electrohydrodynamic Atomization system for use in Natural Gas odorization.
Varun AIYAR GANESAN, P. CITROEN, O. M. ONDIMU, R. BAHLMAN, J. C. M. MARIJNISSEN, L. L. F. AGOSTINHO

P1-AT-EE-012 Electrohydrodynamic spraying from extractor-free one-dimensional arrays.
Nikolas SOCHORAKIS, Jordi GRIFOLL, Joan ROSELL-LLOMPART

P1-AT-EE-013 Electrostatics of arrays of quasilinear electrospray plumes.
Jordi GRIFOLL, Nikolas SOCHORAKIS, Joan ROSELL-LLOMPART

P1-AT-EE-014 Morphologies of polymeric particles formed during electrocapillary instability of electrospray microdroplets.
Eszter BODNÁR, Jordi GRIFOLL, Joan ROSELL-LLOMPART

P1-AT-EE-015 Activated carbon coated electrode for simultaneous dust and VOCs removal in a pilot-scale electrostatic precipitator.
Sungyoun KIM, Min Ji KIM, Abdul AZIZ, Suho KIM, Kwang-Soo KIM

P1-AT-EE-016 Analysis of particles movement enforced by electrodynamic force for dust removal using DEM Simulation in indoors.
Young H. YOON, Sung Youn KIM, Kwang Soo KIM

16:00 - 18:00 POSTER SESSION *Poster area*

AEROSOL TECHNOLOGY - COMBUSTION AEROSOL

P1-AT-CA-001 Investigation of the nanosized coal particles formation and their role in combustion of methane-air gas mixtures.
Sergey VALIULIN, Anatoli BAKLANOV, Sergei DUBTSOV, Andrew ONISCHUK, Pavel KOSHLYAKOV, Valeriy ZAMASCHIKOV, Aleksey KORZAVIN, Dmitriy PALEEV

P1-AT-CA-002 Effect of water-containing butanol addition to diesel–biodiesel blend on PAHs emissions emitted from a diesel-generator.
Jen-Hsiung TSAI, Shui-Jen CHEN, Kuo-Lin HUANG, Wen-Yinn LIN, Guo-Ping CHANG-CHIEN, Chih-Chung LIN, Cheng-Hsien YANG

P1-AT-CA-003 PCDD/Fs emissions from a diesel engine generator fueled with blends of waste cooking oil-based biodiesel and fossil diesel.
Jen-Hsiung TSAI, Shui-Jen CHEN, Kuo-Lin HUANG, Guo-Ping CHANG-CHIEN, Wen-Yinn LIN, Chih-Chung LIN, Chien-Wei FENG

P1-AT-CA-004 Hybrid filter performance in residual biomass combustion PM emissions control.
David SANZ, E. ROJAS, J. J. RODRÍGUEZ-MAROTO, R. RAMOS, E. BORJABAD, R. ESCALADA, S. GARCÍA ALONSO, C. GUTIERREZ-CANAS, G. ARAGON, I. MUGICA, I. IBARRA, I. CELADES, V. SANFELIX

P1-AT-CA-005 Secondary measures to reduce particulate and gaseous emissions from residential biomass combustion.
Estela VICENTE, J.p. RIBEIRO, L. TARELHO, M. DUARTE, C.a. ALVES

P1-AT-CA-006 Behaviour of ZnO NPs during combustion processes of waste biomass: On-line, size-resolved elemental analysis.
Debora FOPPIANO, Mohamed TARIK, Christian LUDWIG

P1-AT-CA-007 Effect of wood pre-treatment on operating conditions and pm emissions during combustion at laboratory scale.
G. LEYSSENS, Guillaume SCHMIDT, G. TROUVÉ, C. SCHONNENBECK, F. CAZIER, D. DEWAELE, P. GENEVRAY, S. LABBÉ, F. BALAY, Y. DENANCE, E. FAIVRE, C. LEDREFF, N. ADAM

P1-AT-CA-009 Reduction of fine particle emissions from small scale biomass combustion by use of compact electrostatic precipitation module.
Andrei BOLOGA, Martin ECKER, Ulrich FREI, Hans-Peter RHEINHEIMER, Hanns-Rudolf PAUR

P1-AT-CA-010 Physical characteristics of particles in a large CHP plant boiler during co-combustion of coal and biomass pellets.
Fanni MYLLÄRI, Panu KARJALAINEN, Raili TAIPALE, Anna HÄYRINEN, Jani RAUTIAINEN , Liisa PIRJOLA, Risto HILLAMO, Jorma KESKINEN, Topi RÖNKKÖ

P1-AT-CA-011 Towards an effective control of trace emissions from agricultural waste combustion: fly ash characterization versus thermodynamic modelling.
Gaizka ARAGON, Imara IBARRA, David SANZ, Enrique ROJAS, Jesus Javier RODRIGUEZ-MAROTO, Cristina GUTIERREZ-CANAS, Raquel RAMOS, Elena BORJABAD, Ricardo ESCALADA, Irina CELADES, Vicenta SANFELIX

P1-AT-CA-012 Comparison of optical particle counter and cascade impactor gravimetric measurement methods for the evaluation of separators used in blow-by applications.
Benoit SAGOT, Audrey FORTHOMME, Guillaume DE LA BOURDONNAYE

P1-AT-CA-013 Emissions from a marine engine operating on different fuels and engine conditions.
Hendryk CZECH, Laarnie MÜLLER, Toni MIERSCH, Anne ULBRICH, Benjamin STENGEL, Simone Maria PIEBER, Martin SKLORZ, Thorsten STREIBEL, Ralf ZIMMERMANN

P1-AT-CA-014 Volatile Organic Emissions from a Spark Ignition Engine during NEDC and High Speed.
Anne ULBRICH, Hendryk CZECH, Toni MIERSCH, Benjamin STENGEL, Thorsten STREIBEL, Ralf ZIMMERMANN

P1-AT-CA-015 Fine Particulate Matter from a Flex-Fuel Engine: NEDC and High Speed.
Toni MIERSCH, Hendryk CZECH, Gert JAKOBI, Benjamin STENGEL, Jürgen ORASCHE, Martin SKLORZ, Thorsten STREIBEL, Ralf ZIMMERMANN

P1-AT-CA-016 Thermal analysis of diesel emitted particulate matter.
Tibor AJTAI, Noémi UTRY, Máté PINTÉR, Gergely KISS-ALBERT, Gábor SZABÓ, Zoltán BOZÓKI

P1-AT-CA-017 Aged ship emissions before and after the decrease of the sulphur fuel content.
Magda PSICHOUDAKI, Cameron FAXON, Heino KUULUVAINEN, Michael LE BRETON, Håkan SALBERG, Åsa HALLQUIST, Erik THOMSON, Mattias HALLQUIST

P1-AT-CA-018 "Excess" emissions of particulate matter from EU gasoline engines.
Michal VOJTISEK, Martin PECHOUT, Luboš DITTRICH, Vít BERÁNEK

P1-AT-CA-019 Exhaust particulate matter emissions of ethanol in comparison with gasoline and diesel fuels in a heavy-duty compression ignition engine.
Mengqin SHEN, Vilhelm B MALMBORG, Sam SHAMUN, Bengt JOHANSSON, Martin TUNÉR, Per TUNESTÅL, Joakim PAGELS, Anders GUDMUNDSSON

P1-AT-CA-020 Dynamics of secondary breakup of an emulsified fuel drop. *Oleksandr GIRIN*

P1-AT-CA-021 Investigation of the release of engineered nanoparticles by waste incineration.
Werner BAUMANN, Manuela HAUSER, Inge-Maria LANG, Hartmut MÄTZING, Nadine TEUSCHER, Helmut SEIFERT, Hanns-Rudolf PAUR

P1-AT-CA-022 A methodological approach for evaluating the contribution of coal-fired power plant to atmospheric PM10 concentrations using PMF and CMB receptor models.
Daniele CONTINI, Daniela CESARI, Carmela TORTORELLA, Silvana IACOBELLIS, Giancarlo POTENZA, Marianna CONTE, Antonio DONATEO

P1-AT-CA-023 Characterization of Exposure to Metal from Furnace and Casting Process in The Aluminum Smelter Industry.
Yen Hung LAI, Shunhui CHUNG, Rui Shu CHOU, Ying Fang WANG

P1-AT-CA-024 Results from a measurement campaign in dismantling nuclear sites: a study of the false alarms emitted by CAM.
Grégoire DOUGNIAUX, Céline MONSNAGLANT-LOUVET, Anne-Laure TEPPE, Benoît MARCILLAUD, Bernadette DHIEUX LESTAEVEL, François GENSDARMES, Nathalie MICHIELSEN, Sylvain BONDIGUEL, Benjamin BOUSSETTA, Gwendolyn QUENTEL

P1-AT-CA-025 Simulation of Aerosol formation in Post Combustion CO2 Capture (PCCC) Plants.
Mehdi AMOUEI TORKMAHALLEH, Yenglik KENGES, Meiirbek ISLAMOV

P1-AT-CA-027 A simulational and experimental attempt for a high temperature condensed nuclei magnifier based on long chained alkanes. *Martin KUPPER, Alexander BERGMANN, Jaroslaw KACZYNSKI, Martin KRAFT*

P1-AT-CA-028 Measurement of incipient soot particle size distributions down to nuclei size.
Runlong CAI, Quanxi TANG, Xiaoqing YOU, Jingkun JIANG

P1-AT-CA-029 Structural changes of combustion aerosol samples during a thermal-optical measurement protocol.
Theresa HALLER, Lorenz WITEK, Thomas HÄUSLER, Hinrich GROTHE, Regina HITZENBERGER

P1-AT-CA-030 Effective density measurement of ultra-fine particle emitted from residential coal combustion.
Zhen LI, Lei DUAN, Jingkun JIANG

P1-AT-CA-031 Markers of immature soot in the refractory mass spectrum obtained by the soot-particle aerosol mass spectrometer.
Vilhelm MALMBORG, Axel ERIKSSON, Sandra TÖRÖK, Per-Erik BENGTSSON, Joakim PAGELS

P1-AT-CA-032 Monitoring and control of polybrominated diphenyl ether emissions during the cold start-up of a municipal solid waste incinerator.
Nicholas CHERUIYOT, Lin-Chi WANG, Wen-Jhy LEE, John MWANGI, Guo-Ping CHANG-CHIEN

P1-AT-CA-033 In situ Raman microspectroscopic analysis of soot during temperature-programmed oxidation.
Michaela ESS, Benedikt GROB, Natalia IVLEVA, Reinhard NIESSNER

P1-AT-CA-034 Production and characterization of internally-mixed soot aerosols.
Alexander RINKENBURGER, Reinhard NIEßNER

P1-AT-CA-035 Solid particle investigations in the mainstream of 3R4F reference combustible cigarettes and the Tobacco Heating System THS2.2.
Pascal PRATTE, Stéphane COSANDEY, Catherine GOUJON GINGLINGER

P1-AT-CA-036 High-temperature tandem differential mobility analysis on the oxidation of wood combustion soot particles.
Heikki LAMBERG, Olli SIPPULA, Ihalainen MIKA, Jarkko TISSARI, Jorma JOUTSENSAARI, Anna LÄHDE, Jorma JOKINIEMI

P1-AT-CA-038 Investigation of soot nanoparticles during liquid hydrocarbons combustion with water steam gasification.
Olga BOROVKOVA, Anatoly BAKLANOV, Igor ANUFRIEV, Mikhail VIGRIYANOV, Vladimir LESCHEVICH, Oleg SHARYPOV

P1-AT-CA-039 The Characteristics of particulate matter from industrial facilities using soild fuel in KOREA.
Keewon JANG, S. Y. LIM, S. H. HEO, H. C. KIM, J. H. KIM, S. B. LEE, J. H. HONG, Dae-Il KANG

P1-AT-SS1 AEROSOL TECHNOLOGY

16:00 - 18:00 POSTER SESSION *Poster area*

PLASMA-BASED AEROSOL PROCESSES

P1-AT-SS1-001 From liquid conversion to nanoparticle synthesis by submerged spark discharges.
Hiba KABBARA, Cédric NOËL, Thierry BELMONTE

P1-AT-SS1-002 Compared chemical compositions of grains and thin films produced in an N2/CH4 dusty plasma simulating Titan's aerosols.
Nathalie CARRASCO, François JOMARD, Jackie VIGNERON, Arnaud ETCHEBERRY, Guy CERNOGORA, Lisseth GAVILAN

P1-AT-SS1-003 Post-plasma SiOx coatings of metal and metal oxide nanoparticles for enhanced thermal stability and tunable photoactivity applications.
Patrick POST, Nicolas JIDENKO, Alfred WEBER, Jean-Pascal BORRA

P1-AT-SS1-004 Synthesis of single digit nanoparticles with a dielectric barrier discharge at atmospheric pressure.
Alexander WERNER, Alfred WEBER

P1-AT-SS1-005 Characterization of a post-DBD aerosol bipolar diffusion neutralizer for SMPS size distribution measurements.
Rémi MATHON, Nicolas JIDENKO, J-P BORRA

P1-AT-SS2 AEROSOL TECHNOLOGY

16:00 - 18:00 POSTER SESSION *Poster area*

PROPERTIES AND IMPACT OF AIRCRAFT PARTICULATE EMISSIONS

P1-AT-SS2-001 Chemical characterization of airplane soot: complete engine versus combustion chamber.
Ismael Kenneth ORTEGA, Cornelia IRIMIEA, David DELHAYE, Yvan CARPENTIER, Michael ZISKIND, François-Xavier OUF, François SALM, Daniel GAFFIÉ, Jérome YON, Daniel FERRY, Eric THERSSEN, Xavier VANCASSEL, Cristian FOCSA

P1-AT-SS2-002 The Lille Ice Nucleation Chamber (LINC). Progress toward the definition of an experimental protocol and results of early measurements.
Alessandro FACCINETTO, Sébastien BATUT, Junteng WU, Denis PETITPREZ, Pascale DESGROUX

P1-AT-SS2-004 Fuel effects on non-volatile particulate matter aircraft gas turbine emissions.
Benjamin BREM, Lukas DURDINA, Ari SETYAN, Yu-Ying KUO, Jing WANG

P1-AT-SS3 AEROSOL TECHNOLOGY

16:00 - 18:00 POSTER SESSION *Poster area*

PHYSICO-CHEMICAL CHARACTERIZATION OF SOOT PARTICLES AND THEIR EVOLUTION

P1-AT-SS3-001 Broadband measurements of the mass absorption coefficient of soot emitted by an inverted methane diffusion flame.
Lindsay RENBAUM-WOLFF, Al FISCHER, Taylor HELGESTAD, Andrew LAMBE, Geofffrey SMITH, Christopher CAPPA, Arthur SEDLACEK, Paul DAVIDOVITS, Timothy ONASCH, Andrew FREEDMAN

P1-AT-SS3-002 Characterization in the discharge of plants, of atmospheric emission of black carbon.
Cécile RAVENTOS, Isaline FRABOULET, Olivier FAVEZ, Jean POULLEAU, Amandine FIEVET, Pascal DUBOIS, Nicolas KAROSKI, Johany RINGUET, Nadine ALLEMAND, Jean SCIARE, Nicolas BONNAIRE, P. HEASE

P1-AT-SS3-003 Coupling fluorescence anisotropy with Laser-Induced Incandescence to highlight the presence of soot particles, adsorbed organic compounds or in gas phase in diffusion and premixed ethylene/air flames.
Guillaume LEFEVRE, Jérome YON

P1-AT-SS3-004 Water uptake by soot emitted during industrial fires: physicochemical analysis and water sorption measurements.
Laura LINTIS, François-Xavier OUF, Hugues PRETREL, Alexis COPPALLE, Cécile VALLIÈRES

P1-AT-SS3-005 Particulate emissions produced from gas CAST, liquid fuel CAST, and ship diesel engine.
Laarnie MUELLER, Jürgen SCHNELLE-KREIS, Gert JAKOBI, Benjamin STENGEL, Lianpeng JING, Ralf ZIMMERMANN

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PROGRAMME

TUESDAY 06 SEPTEMBER

ATMOSPHERIC AEROSOL STUDIES

AAP: Atmospheric Aerosol Processes

AEROSOL TECHNOLOGY

ABN: Aerosol Based Nanotechnology / **CA:** Combustion Aerosol / **EE:** Electrical Effect

AEROSOL MEASUREMENT TECHNIQUES

INST: Instrumentation/ **PMX:** PMx

AEROSOL AND HEALTH

IND: Indoor and working place aerosol/ **IEH:** Inhalation, Exposures and Health

BASIC AEROSOL PROCESSES

AC: Aerosol Chemistry/ **AM:** Aerosol Modelling/ **FUND:** Fundamentals

Tuesday, September 6

08:00 - 18:00	Registration				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
08:30 - 09:30	Plenary Lecture 2 **Supersonic Cluster Beam Deposition of Nanostructured Devices and Nanocomposites for Biomedical and Clinical Applications.** Paolo MILANI Chairmen: Jean-Pascal BORRA and Sotiris E. PRATSINIS				
09:30 - 10:00	Coffee break				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
10:00 - 12:20	**11-AAS-AAP5** ATMOSPHERIC AEROSOL STUDIES **Aerosols, clouds and climate** Chairs: Annica EKMAN and Ottmar MÖHLER	**12-AAS-AAP6** ATMOSPHERIC AEROSOL STUDIES **Biomass Burning Aerosol** Chairs: Rami ALFARRA and Guy COULSON	**13-AT-ABN2** AEROSOL BASED NANOTECHNOLOGY **Synthesis of functional nanoparticles** Chairs: Sotiris E. PRATSINIS and Andreas SCHMIDT-OTT	**14-AT-CA2** COMBUSTION AEROSOL **Source characterization: from biomass to engines related emissions** Chairs: Sanna SAARIKOSKI and Michal VOJTISEK	**15-AT-SS4** SPECIAL SESSION 4: FILTRATION AND GAS-PARTICLE SEPARATION **Recent developments** Chairs: Gerhard KASPER and Dominique THOMAS
12:20 - 13:50	Lunch				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
13:50 - 16:10	**16-AAS-AAP7** ATMOSPHERIC AEROSOL STUDIES **New particle formation** Chairs: Michael BOY and Birgit WEHNER	**17-AAS-AAP8** ATMOSPHERIC AEROSOL STUDIES **Dusts and urban aerosols** Chairs: Gary FULLER and Ulas IM	**18-AT-ABN3** AEROSOL BASED NANOTECHNOLOGY **Coatings, films and nanotubes** Chairs: Einar KRUIS and Alfred WEBER	**19-AMT-INST1** INSTRUMENTATION **Electrical measurement techniques** Chairs: Christoph ASBACH and Martin FIERZ	**20-AT-SS2** SPECIAL SESSION 2: AIRCRAFT **Properties and impact of aircraft particulate matter emissions** Chairs: Prem LOBO and Xavier VANCASSEL
16:10 - 16:40	Coffee break				
16:10 - 18:10	**Poster session 2 - Authors' presentations - POSTER AREA**				
18:10	**Working Group Meetings**				
19:00 - 21:00	**Welcome Reception, by the Mayor of Tours ("Salle des fêtes" at the City Hall)**				

TUESDAY 06 SEPTEMBER

08:00 - 18:00 REGISTRATION *Welcome Desk*

PL2 **AEROSOL TECHNOLOGY**

08:30 - 09:30 PLENARY LECTURE 2 *Auditorium Pierre de Ronsard*

SUPERSONIC CLUSTER BEAM DEPOSITION OF NANOSTRUCTURED DEVICES AND NANOCOMPOSITES FOR BIOMEDICAL AND CLINICAL APPLICATIONS.

Chairmen: Jean-Pascal BORRA (Gif-Sur-Yvette, FRANCE), Sotiris E. PRATSINIS (Zurich, SWITZERLAND)
Plenary Speaker: Paolo MILANI (Milano, ITALY)

09:30 – 10:00 COFFEE BREAK *Exhibition Hall*

11-AAS-AAP5 **ATMOSPHERIC AEROSOL STUDIES**

10:00 - 12:20 ATMOSPHERIC AEROSOL STUDIES *Auditorium Pierre de Ronsard*

AEROSOLS, CLOUDS AND CLIMATE

Chairmen: Annica EKMAN (Stockholm, SWEDEN), Ottmar MÖHLER (Karlsruhe, GERMANY)

10:00 - 10:20
O11-AAS-AAP-25 The fifth international ice nucleation (FIN) workshops: overview and selected results.
Ottmar MÖHLER, Dan CZICZO, Paul DEMOTT, Naruki HIRANUMA, Markus PETTERS

10:20 - 10:40
O11-AAS-AAP-26 Biomass burning and cloud interactions observed during the DC3 field campaign over Colorado (USA).
Suzanne CRUMEYROLLE, Luke ZIEMBA, Bruce ANDERSON, Tomas MIKOVINY, Andreas BEYERSDORF, Kenneth THORNHILL, Edward WINSTEAD, Kristopher BEDKA, Armin WISTHALER, Richard MOORE, Gao CHEN, Carolyn BUTLER, Johnathan HAIR, Martha FENN

10:40 - 11:00
O11-AAS-AAP-27 Size distribution and black carbon content of ice residual particles in mixed-phase clouds at the high-alpine site Jungfraujoch.
Martin GYSEL, Piotr KUPISZEWSKI, Marco ZANATTA, Stephan MERTES, Paul VOCHEZER, Gary LLOYD, Johannes SCHNEIDER, Ludwig SCHENK, Martin SCHNAITER, Urs BALTENSPERGER, Ernest WEINGARTNER

11:00 - 11:20
O11-AAS-AAP-28 Microphysical properties of clouds and comparison of cloud probes' performance during the Pallas Cloud Experiments (PaCE).
Konstantinos - Matthaios DOULGERIS, Ari LESKINEN, Mika KOMPPULA, David BRUS

11:20 - 11:40
O11-AAS-AAP-29 The Free Troposphere as a Source of Arctic Boundary Layer Aerosol.
Adele IGEL, Ekman ANNICA, Leck CAROLINE, Julien SAVRE, Michael TJERNSTRÖM, Joseph SEDLAR

11:40 - 12:00
O11-AAS-AAP-30 The influence of biogenic aerosol particles on clouds and climate.
Roland SCHRÖDNER, Risto MAKKONEN, Vaughan PHILLIPS, Erik SWIETLICKI

12:00 - 12:20
O11-AAS-AAP-31 Global modelling of pre-industrial aerosol nucleation.
Hamish GORDON, Kamalika SENGUPTA, Jasper KIRKBY, Kenneth CARSLAW, The CLOUD COLLABORATION

12-AAS-AAP6 ATMOSPHERIC AEROSOL STUDIES

10:00 - 12:20 ATMOSPHERIC AEROSOL STUDIES *Auditorium Descartes*

BIOMASS BURNING AEROSOL

Chairmen: Rami ALFARRA (Manchester, UK), Guy COULSON (Auckland, NEW ZEALAND)

10:00 - 10:20

O12-AAS-AAP-32 Transformation of logwood combustion aerosols: implications for day and nighttime aging.

Petri TIITTA, Ari LESKINEN, Liqing HAO, Pasi YLI-PIRILÄ, Miika KORTELAINEN, Julija GRIGONYTE, Jarkko TISSARI, Heikki LAMBERG, Anni HARTIKAINEN, Kari KUUSPALO, Aki-Matti KORTELAINEN, Annele VIRTANEN, Kari LEHTINEN, Mika KOMPPULA, Timothy ONASCH, Douglas WORSNOP, Andre PREVOT, Hendryk CZECH, Ralf ZIMMERMANN, Jorma JOKINIEMI, Olli SIPPULA

10:20 - 10:40

O12-AAS-AAP-33 Chemical composition and mass closure of ambient aerosol in an urban environment over Athens, Greece: The role of wintertime biomass burning on air pollution levels.

Christina THEODOSI, Maria TSAGKARAKI, Pavlos ZARMPAS, Despina PARASKEVOPOULOU, Panagiota NICOLAOU, Eleni LIAKAKOU, Maria LIANOU, Evangelos GERASOPOULOS, Nikolaos MIHALOPOULOS

10:40 - 11:00

O12-AAS-AAP-34 Linking SOA to precursor VOCs in domestic wood burning systems.

Giulia STEFENELLI, Amélie BERTRAND, Deepika BHATTU, Emily BRUNS, Nicolas MARCHAND, Thomas NUSSBAUMER, Simone PIEBER, Brice TEMIME-ROUSSEL, Jun ZHOU, Peter ZOTTER, Imad El HADDAD, Urs BALTENSPERGER, Andre PRÉVÔT, Josef DOMMEN, Jay SLOWIK

11:00 - 11:20

O12-AAS-AAP-35 Chemical characterization of laboratory-generated tar ball particles.

Ádám TÓTH, András HOFFER, Tibor AJTAI, Marianne BLAZSÓ, Zsuzsanna CZÉGÉNY, Gyula KISS, Mihály PÓSFAI, Péter SZABÓ, András GELENCSÉR

11:20 - 11:40

O12-AAS-AAP-36 Chemical characterization by TAG-AMS of the Organic Aerosol of wood combustion emissions: comparison of pellet and logwood stoves.

Amelie BERTRAND, Giulia STEFENELLI, Emily BRUNS, Simone PIEBER, Brice TEMIME-ROUSSEL, Felix KLEIN, Jay SLOWIK, Andre PREVOT, Imad EL HADDAD, Henri WORTHAM, Nicolas MARCHAND

11:40 - 12:00

O12-AAS-AAP-37 Bonfire night 2014 in Manchester UK: organic aerosol source apportionment (ME-2) and night-time chemistry.

Ernesto REYES-VILLEGAS, Michael PRIESTLEY, Ting YU-CHIEH, Sophie HASLETT, Thomas BANNAN, Michael LEBRETON, James ALLAN

12:00 - 12:20

O12-AAS-AAP-38 Primary and secondary organic emissions of a pellet boiler.

Hendryk CZECH, Olli SIPPULA, Petri TIITTA, Miika KORTELAINEN, Simone Maria PIEBER, Julija GRIGONYTE, Thorsten STREIBEL, Ralf ZIMMERMANN

RESERVE PAPER / P2-AAS-AAP-143 Fast secondary aerosol formation in southern African biomass burning smoke.

Ville VAKKARI, Johan Paul BEUKES, Kerneels JAARS, Miroslav JOSIPOVIC, Andrew D. VENTER, Pieter G. VAN ZYL

13-AT-ABN2 AEROSOL TECHNOLOGY

10:00 - 12:20 AEROSOL BASED NANOTECHNOLOGY *Room 1 (Level 2)*

SYNTHESIS OF FUNCTIONAL NANOPARTICLES

Chairmen: Sotiris E. PRATSINIS (Zurich, SWITZERLAND), Andreas SCHMIDT-OTT (Delft, THE NETHERLANDS)

10:00 - 10:20

O13-AT-ABN-07 Flame made indium-zinc oxide nanoparticles as photoanodes for efficient DSSCs.

Melanie STANZEL, Andreas KUNZMANN, Rubén COSTA, Dirk M. GULDI, Wolfgang PEUKERT

10:20 - 10:40

O13-AT-ABN-08 E-nose sensing of low-ppb formaldehyde in gas mixtures at high relative humidity for breath screening of lung cancer and indoor air quality monitoring.

Andreas T. GÜNTNER, Vitaly KOREN, Kiran CHIKKADI, Marco RIGHETTONI, Sotiris E. PRATSINIS

10:40 - 11:00

O13-AT-ABN-09 Synthesis and evaluation of LiNi0.5Mn1.5O4 particles by Aerosol Spray Pyrolysis for next-generation Li-ion cathode materials.

Georgios GKANAS, Georgia KASTRINAKI , Dimitrios ZARVALIS, Athanasios G. KONSTANDOPOULOS, Daniele VERSACI, Nerino PENAZZI, Silvia BODOARDO

11:00 - 11:20
O13-AT-ABN-10 Palladium subnano-clusters on titania for solar photocatalytic NO removal.
Kakeru FUJIWARA, Ulrich MÜLLER, Sotiris PRATSINIS
11:20 - 11:40
O13-AT-ABN-11 Nanofinishing antimicrobial textiles by means of aerosol filtration.
Jicheng FENG, Esther HONTAÑÓN, M BLANES, L SANTOS, Einar KRUIS, Meyer JOERG, X GUO, H NIRSCHL, G BISKOS, A SCHMIDT-OTT
11:40 - 12:00
O13-AT-ABN-12 Photoproduction of hydrogen with alloy plasmonic nanoparticles made with the spark-discharge particle generator.
Marco VALENTI, W. SMITH, G. BISKOS, Andreas SCHMIDT-OTT
12:00 - 12:20
O13-AT-ABN-13 Generation of stainless steel nanoparticles using a spark discharge generator.
Calle PREGER, Linus LUDVIGSSON, Bengt MEULLER, Knut DEPPERT, Maria MESSING

14-AT-CA2 AEROSOL TECHNOLOGY

10:00 - 12:20 COMBUSTION AEROSOL *Room 2 (Level 2)*

SOURCE CHARACTERIZATION: FROM BIOMASS TO ENGINES RELATED EMISSIONS

Chairmen: Sanna SAARIKOSKI (Helsinki, FINLAND), Michal VOJTISEK (Praha, CZECH REPUBLIC)

10:00 - 10:20
O14-AT-CA-07 Exhaust particle characteristics and particle emission factors from a marine diesel engine with different fuels.
Niina KUITTINEN, Panu KARJALAINEN, Päivi AAKKO-SAKSA, Hilkka TIMONEN, Pauli SIMONEN, Fanni MYLLÄRI, Hugo WIHERSAARI, Jorma KESKINEN, Topi RÖNKKÖ
10:20 - 10:40
O14-AT-CA-08 Dependence of ship-engine aerosol emissions on fuel type: trace metals, black carbon, and light absorption.
Joel C. CORBIN, Amewu A. MENSAH, Marco ZANATTA, Simone PIEBER, Gert JAKOBI, Jürgen ORASCHE, Jay G. SLOWIK, Nivedita KUMAR, Imad EL HADDAD, Felix KLEIN, Benjamin STENGEL, Ralf ZIMMERMANN, André S. H. PRÉVÔT, Urs BALTENSPERGER, Martin GYSEL
10:40 - 11:00
O14-AT-CA-09 Real-time investigation of primary particle emissions and secondary particle formation from a gasoline direct injection vehicle.
Panu KARJALAINEN, Hilkka TIMONEN, Erkka SAUKKO, Heino KUULUVAINEN, Sanna SAARIKOSKI, Päivi AAKKO-SAKSA, Timo MURTONEN, Matthew BLOSS, Miikka DAL MASO, Erik AHLBERG, Birgitta SVENNINGSSON, William Henry BRUNE, Risto HILLAMO, Jorma KESKINEN, Topi RÖNKKÖ
11:20 - 11:40
O14-AT-CA-10 Evolution of health and climate relevant in-cylinder diesel soot characteristics investigated with on-line aerosol mass spectrometry.
Vilhelm B MALMBORG, Mengqin SHEN, Axel C ERIKSSON, Bjorn WALDHEIM, Yann GALLO, Johan MARTINSSON, Patrik NILSSON, Bengt JOHANSSON, Öivind ANDERSSON, Joakim PAGELS
11:40 - 12:00
O14-AT-CA-11 Characterization of natural gas engine emission by aerosol mass spectrometer.
Sanna SAARIKOSKI, Hilkka TIMONEN, Timo MURTONEN, Hannu VESALA, Jenni ALANEN, Topi RÖNKKÖ, Risto HILLAMO, Teuvo MAUNULA, Kauko KALLINEN, Satu KORHONEN, Kati LEHTORANTA
12:00 - 12:20
O14-AT-CA-12 The influence of temperature and humidity on the thermal stability of nanoparticles.
Nadine TEUSCHER, Werner BAUMANN, Manuela HAUSER, Hanns-Rudolf PAUR, Dieter STAPF
O14-AT-CA-13 An improved metric for biomass burning: novel semi-online experimental apparatus.
Alejandro KELLER, Heinz BURTSCHER

RESERVE PAPER / P1-AT-CA-018 "Excess" emissions of particulate matter from EU gasoline engines.
Michal VOJTISEK, Martin PECHOUT, Luboš DITTRICH, Vít BERÁNEK
RESERVE PAPER / P1-AT-CA-015 Fine Particulate Matter from a Flex-Fuel Engine: NEDC and High Speed.
Toni MIERSCH, Hendryk CZECH, Gert JAKOBI, Benjamin STENGEL, Jürgen ORASCHE, Martin SKLORZ, Thorsten STREIBEL, Ralf ZIMMERMANN

15-AT-SS4 AEROSOL TECHNOLOGY

10:00 - 12:20 SPECIAL SESSION 4: FILTRATION AND GAS-PARTICLE SEPARATION *Room 3 (Level 2)*

RECENT DEVELOPMENTS

Chairmen: Gerhard KASPER (Karlsruhe, GERMANY), Dominique THOMAS (Nancy, FRANCE)

10:00 - 10:20

015-AT-SS4-01 Determination of the filtration efficiency for HVAC, HEPA and ULPA filters for nanoparticles ≥5 nm.

Christof ASBACH, Mölter-Siemens WOLFGANG, Ana Maria TODEA, André SCHMITZ, Frank SCHMIDT

10:20 - 10:40

015-AT-SS4-02 Preliminary study on simulation and validation of the effect of particle loading regarding flow-induced deformation of pleated porous filter media.

Alexander TRAUT, Martin LEHMANN, Beck ANDREAS, Manfred PIESCHE

10:40 - 11:00

015-AT-SS4-03 Determine Particle Precipitation at Synthetic Nonwoven Electrets: Experimental study and DNS Simulation.

Albert HELLMANN, Kilian SCHMIDT, Michael PITZ, Christof ASBACH, Stefan SCHUMACHER, Sergiy ANTONYUK

11:00 - 11:20

015-AT-SS4-04 A field study on the optimum structure of cleanable Media for along their service life challenged with periodically-produced high-concentration populations of ultrafine metallic particles.

Ricardo TUCHO, Gaizka ARAGON, Imara IBARRA, Iñaki MUGICA, Fernando VERGNIORY, Cristina GUTIERREZ-CANAS

11:20 - 11:40

015-AT-SS4-05 Influence of Real Breathing Conditions on the Filtration Characteristics of Respirator Filters.

Andrew J. C. KING, S. ABISHEK, Benjamin J. MULLINS, Ryan MEAD-HUNTER

11:40 - 12:00

015-AT-SS4-06 Modeling of the deep granular bed filtration of nanoparticles.

Loïc WINGERT, Augustin CHARVET, Nathalie BARDIN-MONNIER, Denis BÉMER, Dominique THOMAS

12:00 - 12:20

015-AT-SS4-07 Evaluation of cyclones cutoff diameters for blow-by gas cleaning applications.

Benoit SAGOT, Guillaume DE LA BOURDONNAYE, Audrey FORTHOMME

RESERVE PAPER / P2-AT-SS4-006 Modeling of submicron particles motion in planar dielectric barrier discharge type electrostatic precipitator.

Ayyoub ZOUAGHI, Noureddine ZOUZOU, Abdelouahab MEKHALDI, Rabah GOURI

12:20 - 13:50 FREE LUNCH BREAK *Vinci Conference Center*

16-AAS-AAP7 ATMOSPHERIC AEROSOL STUDIES

13:50 - 16:10 ATMOSPHERIC AEROSOL STUDIES *Auditorium Pierre de Ronsard*

NEW PARTICLE FORMATION

Chairmen: Michael BOY (Helsinki, FINLAND), Birgit WEHNER (Leipzig, GERMANY)

13:50 - 14:10

016-AAS-AAP-39 Nucleation at high altitude: from the Alps to the Everest Base Camp.

Federico BIANCHI, H. JUNNINEN, J. KONTKANEN, A. MARINONI, P. BONASONI, K. SELLEGRI, P. LAJ, J. DOMMEN, D. R. WORSNOP, M. KULMALA, U. BALTENSPERGER

14:10 - 14:30

016-AAS-AAP-40 Observations of molecular clusters and nucleation mode particles in the Amazon.

Daniela WIMMER, Hanna MANNINEN , Stephany MAZON, John BACKMAN, Brito JOEL, Paulo ARTAXO, Markku KULMALA, Tuukka PETAJA

14:30 - 14:50

016-AAS-AAP-41 Neutral and ion-induced H2SO4 - H2O particle formation 1: New theory.

Merikanto JOONAS, Duplissy JONATHAN, Määttänen ANNI, Henschel HENNING, Neil DONAHUE, David BRUS, Siegfried SCHOBESBERGER, Kulmala MARKKU, Vehkamäki HANNA

14:50 - 15:10

016-AAS-AAP-42 Long-term study of New Particle Formation (NPF) events as a source of Cloud Condensation Nuclei (CCN) concentrations in the urban background of Vienna.

Carmen DAMETO DE ESPANA, Carmen DAMETO DE ESPANA, Anna WONASCHUETZ, Gerhard STEINER , Harald SCHUH, Regina HITZENBERGER

15:10 - 15:30
O16-AAS-AAP-43 Highly oxygenated multifunctional organic compounds from anthropogenic precursors.
Ugo MOLTENI, Federico BIANCHI, Carla FREGE, Imad EL HADDAD, Felix KLEIN, Michel J. ROSSI, Josef DOMMEN, Urs BALTENSPERGER
15:30 - 15:50
O16-AAS-AAP-44 Ab initio nanoparticle sizing during new particle formation in precisely controlled chamber experiments.
Dominik STOLZENBURG, Katrianne LEHTIPALO, Robert WAGNER, Andrea OJDANIC, Paul WINKLER
15:50 - 16:10
O16-AAS-AAP-45 Spatial Extend of New Particle Events over the Mediterranean basin from multiple ground-based stations and aircraft measurements.
Kévin BERLAND, Clermence ROSE, Jorge PEY, Anais CULOT, Thierry BOURRIANE, Greg ROBERTS, Nicolas MARCHAND, Nikos KALIVITIS, Nikos MIHALOPOULOS, Karine SELLEGRI

RESERVE PAPER / P1-AAS-AAP-019 The first global picture of observation-based estimate on continental boundary layer new particle formation.
Tuomo NIEMINEN, Veli-Matti KERMINEN, Hanna MANNINEN, Tuukka PETÄJÄ, Markku KULMALA

17-AAS-AAP8 ATMOSPHERIC AEROSOL STUDIES

13:50 - 16:10 ATMOSPHERIC AEROSOL STUDIES *Auditorium Descartes*

DUSTS AND URBAN AEROSOLS

Chairmen: Gary FULLER (London, UK), Ulas IM (Roskilde, DENMARK)

13:50 - 14:10
O17-AAS-AAP-46 New insight from the CALIPSO mission on the retrieval of dust surface concentration in Western Africa.
Jean-François LÉON, Nadège MARTINY, Isabelle CHIAPELLO, Béatrice MARTICORENA
14:10 - 14:30
O17-AAS-AAP-47 Aerosol sources and influence of special activities in subway environments.
María Cruz MINGUILLÓN, Teresa MORENO, Cristina RECHE, Eladio DE MIGUEL, Marta CAPDEVILA, Xavier QUEROL
14:30 - 14:50
O17-AAS-AAP-48 Did policies to abate atmospheric emissions from traffic have a positive effect on particulate matter in London? Using a large population of monitoring sites to investigate recent changes in ambient concentrations.
Font ANNA, Fuller GARY W.
14:50 - 15:10
O17-AAS-AAP-49 Simulation of seasonal influence on particle diversity and mixing state over Greater Paris.
Zhu SHUPENG, N. Sartelet KARINE
15:10 - 15:30
O17-AAS-AAP-50 Origin of particulate matter and gaseous precursors in the Paris Megacity: Results from intensive campaigns, long term measurements and modelling.
Matthias BEEKMANN , Hervé PETETIN, Qijie ZHANG, André S. H. PREVOT , Jean SCIARE , Valérie GROS , Véronique GHERSI, Amandine ROSSO , Monica CRIPPA , Peter ZOTTER, Fredericke FREUTEL , Laurent POULAIN, Evelyne FRENEY, Karine SELLEGRI , Frank DREWNICK , Agnès BORBON , Hugo A. C. DENIER VAN DER GON, Alfred WIEDENSOHLER , Spyros N. PANDIS , Urs BALTENSPERGER
15:30 - 15:50
O17-AAS-AAP-51 Biofuel and fossil fuel contribution to carbonaceous aerosol from vehicular emissions in Sao Paulo, Brazil.
Beatriz OYAMA, Rupert HOLZINGER, Thomas RÖCKMANN, Pierre HERCKES, Harro MEIJER, Dusek ULRIKE
15:50 - 16:10
O17-AAS-AAP-52 Prevalence of freshly generated particles during pollution episodes in Santiago de Chile.
Ernesto GRAMSCH, Reyes REYES, Yeanice VÁSQUEZ, Pedro OYOLA, María Angélica RUBIO

RESERVE PAPER / P2-AAS-AAP-198 Temporal variability of mineral dust in southern Tunisia: analysis of 2 years of PM10 concentration, aerosol optical depth, and meteorology monitoring.
Christel BOUET, Mohamed Taieb LABIADH, Jean Louis RAJOT, Gilles BERGAMETTI, Béatrice MARTICORENA, Saâd SEKRAFI, Mohsen LTIFI, Anaïs FERON, Thierry HENRY DES TUREAUX

18-AT-ABN3 AEROSOL TECHNOLOGY

13:50 - 16:10 AEROSOL BASED NANOTECHNOLOGY *Room 1 (Level 2)*

COATINGS, FILMS AND NANOTUBES

Chairmen: Einar KRUIS (Duisburg, GERMANY), Alfred WEBER (Clausthal, GERMANY)

13:50 - 14:10
O18-AT-ABN-14 Aerosol synthesis of porous SiO2-Cobalt-catalyst for Fischer-Tropsch Synthesis (FTS).
Aurina MARTÍNEZ ARIAS, Alfred WEBER, Jannis RÖHRBEIN

14:10 - 14:30
O18-AT-ABN-15 Aerosol based fabrication of Polymer-Coated Inorganic Nanoparticles.
Jalal POOSTFOROOSHAN, Alireza BADIEI, Alfred WEBER

14:30 - 14:50
O18-AT-ABN-16 Elaboration of Nanocomposite Coatings by Coupling Aerosol Jets and Physical Vapour Deposition.
Olivier SUBLEMONTIER, Youri ROUSSEAU, Yann LECONTE, Nathalie HERLIN, Martine MAYNE

14:50 - 15:10
O18-AT-ABN-17 Morphology of deposits formed from electrospraying liquid suspensions.
Santiago MARTIN, Pedro L. GARCIA-YBARRA, Jose L. CASTILLO

15:10 - 15:30
O18-AT-ABN-18 Aerosol synthesised single-walled carbon nanotube for conductive and transparent film fabrication.
Albert NASIBULIN, Aleksandra GORKINA, Gilshteyn EVGENIA

15:30 - 15:50
O18-AT-ABN-19 The Nature of Carbon Breakdown and Catalyst Nanoparticle Interaction in a Continuous Gas Phase Process for CNT Synthesis.
Christian HOECKER, Fiona SMAIL, Adam BOIES

15:50 - 16:10
O18-AT-ABN-20 Production of well dispersible single-wall carbon nanotubes via a "floating catalyst"-method.
F. TONI, Haichen XING, J. WALTER, V. STRAUß, T. J. NACKEN, C. DAMM, K. E. WIRTH, D. GULDI, W. PEUKERT

RESERVE PAPER / P2-AT-ABN-020 New insights in the synthesis and applications of carbon nanotube sea urchins.
Jean DE LA VERPILLIERE, Michael DE VOLDER, Adam BOIES

19-AMT-INST1 AEROSOL MEASUREMENT TECHNIQUES

13:50 - 16:10 INSTRUMENTATION *Room 2 (Level 2)*

ELECTRICAL MEASUREMENT TECHNIQUES

Chairmen: Christoph ASBACH (Duisburg, GERMANY), Martin FIERZ (Windisch, SWITZERLAND)

13:50 - 14:10
O19-AMT-INST-01 Design and optimization of a Medium Flow Differential Mobility Analyzer (MFDMA).
Thore ROSENBERGER, Dennis KIESLER, Esther HONTANON, Einar KRUIS, Daniel FUENTES, Emilio RAMIRO

14:10 - 14:30
O19-AMT-INST-02 Miniature electrical nanoparticle detector for simultaneous mesaurement of particle number, average size and lung-deposited surface area.
D. MEIER, D. EGLI, P. STEIGMEIER, H. BURTSCHER, Martin FIERZ

14:30 - 14:50
O19-AMT-INST-03 Evaluation of CPMA-Electrometer Calibration Method for Black Carbon Aerosols.
Jordan TITOSKY, Ali MOMENIMOVAHED, Kevin THOMSON, Greg SMALLWOOD, Jason OLFERT

14:50 - 15:10
O19-AMT-INST-04 Dynamic cutpoint switching of mobility analyzer for improved aerosol characterization.
Erkka SAUKKO, Laura SALO, Topi RÖNKKÖ, Kauko JANKA, Jorma KESKINEN

15:10 - 15:30
O19-AMT-INST-05 Influence of sampling tubes on the measurement with unipolar diffusion chargers.
Christof ASBACH, Heinz KAMINSKI, Yvonne LAMBOY, Martin FIERZ, Ana Maria TODEA

15:30 - 15:50
O19-AMT-INST-06 Nanometer to Micrometer Measurements with a Portable Hybrid Device For Wide Range Aerosol Size Distributions.
Achim EDFELDER, Markus DR. PESCH
15:50 - 16:10
O19-AMT-INST-07 Characterization of a new CPC and DMA for size distribution measurements down to 1nm.
Jacob SCHECKMAN, Mark STOLZENBURG, Hee-Siew HAN, Thomas KRINKE, Juergen SPIELVOGEL

RESERVE PAPER / P2-AMT-INST-039 Comparison Between the Experimental and Theoretical Resolution of a Simple Three Outlet Differential Mobility Analyzer.
Spyridon BEZANTAKOS, Maria GIAMARELOU, Konstantinos BARMPOUNIS, Jason OLFERT, George BISKOS

20-AT-SS2 AEROSOL TECHNOLOGY

13:50 - 16:10 SPECIAL SESSION 2: AIRCRAFT *Room 3 (Level 2)*

PROPERTIES AND IMPACT OF AIRCRAFT PARTICULATE MATTER EMISSIONS
Chairmen: Prem LOBO (Rolla, USA), Xavier VANCASSEL (Palaiseau, FRANCE)

13:50 - 14:10
O20-AT-SS2-01 Ultrafine particle concentrations near an international airport.
Jan PETERS, Patrick BERGHMANS, Jo VAN LAER, Jeroen STAELENS, Olivier BRASSEUR
14:10 - 14:30
O20-AT-SS2-02 The MERMOSE project: Characterization of particulate emissions of a commercial aircraft engine and a combustion chamber section.
David DELHAYE, François-Xavier OUF, Daniel FERRY, Olivier PENANHOAT, Samuel PEILLON, François SALM, Xavier VANCASSEL, Ismael Kenneth ORTEGA, Christian GUIN, Cristian FOCSA, Nadine HARIVEL, Daniel GAFFIÉ
14:30 - 14:50
O20-AT-SS2-03 Non-volatile PM emissions from an in-production aircraft jet engine determined according to the requirements of a new emission standard.
Lukas DURDINA, Benjamin BREM, Jing WANG
14:50 - 15:10
O20-AT-SS2-04 Measurements of Aircraft Engine Soot Emissions Using a CAPS PMssa Monitor.
Timothy ONASCH, Kevin THOMSON, Lindsay RENBAUM-WOLFF , Richard MIAKE-LYE, Greg SMALLWOOD, Andrew FREEDMAN
15:10 - 15:30
O20-AT-SS2-05 Structural and chemical study of collected aircraft soot and generated surrogates.
Iman MARHABA, Philippe PARENT, Carine LAFFON, Daniel FERRY, Jérôme YON, Alexandre BESCOND, François-Xavier OUF, Tom REGIER
15:30 - 15:50
O20-AT-SS2-06 Chemical characterization of volatile organic compounds emitted by an aircraft turbine engine.
Ari SETYAN, Yu-Ying KUO, Benjamin BREM, Lukas DURDINA, Andreas GERECKE, Norbert HEEB, Regula HAAG, Jing WANG
15:50 - 16:10
O20-AT-SS2-07 Chemical characterization of lubricant oil droplets emitted by an airplane engine.
Ismael Kenneth ORTEGA, Cornelia IRIMIEA, David DELHAYE, Yvan CARPENTIER, Xavier VANCASSEL, Cristian FOCSA
RESERVE PAPER / P1-AT-SS2-002 The Lille Ice Nucleation Chamber (LINC). Progress toward the definition of an experimental protocol and results of early measurements.
Alessandro FACCINETTO, Sébastien BATUT, Junteng WU, Denis PETITPREZ, Pascale DESGROUX

16:10 - 16:40 COFFEE BREAK *Exhibition Hall*

P2-AAS-AAP1 ATMOSPHERIC AEROSOL STUDIES

16:10 - 18:10 POSTER SESSION *Poster area*

BIOAEROSOLS AND BIOMASS BURNING

P2-AAS-AAP-123 Real time bioaerosol detection by Surface Plasmon Resonance
Igor E. AGRANOVSKI, O. USACHEVA, E. V. USACHEV

P2-AAS-AAP-124 Exploration of Biological Aerosols at Agra over Indo-Gangetic Basin.
Mamta , J SRIVASTAVA, G SATSANGI, Ranjit KUMAR

P2-AAS-AAP-125 Influence of a heavily polluted atmosphere on abundance of Fluorescent Bioaerosol. A case study in Beijing.
Oscar FAJARDO, Jingkun JIANG, Weizhou YAN, Jiming HAO

P2-AAS-AAP-126 Culturable microorganisms in high-altitude samples of atmospheric aerosol in the presence of local forest fires in the sampling area.
Vladimir VECHKANOV, Irina ANDREEVA, Alexander SAFATOV, Galina BURYAK, Boris BELAN, Denis SIMONENKOV

P2-AAS-AAP-127 Dynamic and thermodynamic forcing of bioaerosol spore production.
Roberto FRAILE, Ana CALVO, Amaya CASTRO, Delia FERNANDEZ, Alexis ATWOOD, Darrel BAUMGARDNER

P2-AAS-AAP-248 Chemical composition and source identification of fine particle in coastal site of the Mediterranean, Tipaza, Algeria.
Lyes RABHI, Abdelkader LEMOU, Riad LADJI, Jean SCIARE, Noureddine YASSAA, Nicolas BONNAIRE

P2-AAS-AAP-249 Composition of fine particles in area of the Mediterranean basin.
Abdelkader LEMOU, Lyes RABHI, Riad LADJI, Nicolas JOSÉ, Jean SCIARE, Nicolas BONNAIRE, Noureddine YASSAA

P2-AAS-AAP-250 Composition of fine particles in area of the Mediterranean basin.
Abdelkader LEMOU, Lyes RABHI, Riad LADJI, Nicolas JOSÉ, Jean SCIARE, Nicolas BONNAIRE, Noureddine YASSAA

P2-AAS-AAP-251 Characteristics of microorganisms in PM2.5 measured in Seoul and Beijing using NGS (Next Generation Sequencing).
Eunha PARK, Sunghee LEE, Jongbae HEO, Seung-Muk YI, Ho KIM, Gwangpyo KO

P2-AAS-AAP-252 Composition of fine particles in area of the Mediterranean basin.
Abdelkader LEMOU, Lyes RABHI, Riad LADJI, Nicolas JOSÉ, Jean SCIARE, Nicolas BONNAIRE, Noureddine YASSAA, Abdelkader LEMOU

P2-AAS-AAP-128 Long-term atmospheric measurements of Benzene and Toluene in Athens during wintertime: Indications of financial crisis influence on traffic and biomass burning emissions.
Basil PSILOGLOU, Eleni LIAKAKOU, Athanasios PALIATSOS, Nikolaos MIHALOPOULOS

P2-AAS-AAP-129 Urban background aerosol monitoring (Athens center) with emphasis on biomass burning processes during winter-time and implications on air quality.
Eleni LIAKAKOU, Evangelos GERASOPOULOS, Maria LIANOU, Christina THEODOSI, Despina PARASKEVOPOULOU, Iasonas STAVROULAS, Aikaterini BOUGIATIOTI, Luciana FURTZIOU, Pavlos ZARMPAS, Basil PSILOGLOU, Jean SCIARE, Nikolaos MIHALOPOULOS

P2-AAS-AAP-130 Estimation of Residential Wood Combustion in urban and rural background.
Jacob NOJGAARD, Ole HERTEL, Thomas ELLERMANN

P2-AAS-AAP-131 Particle water and pH in the city of Athens during wintertime and the role of biomass burning.
Aikaterini BOUGIATIOTI, Despina PARASKEVOPOULOU, Iasonas STAVROULAS, Luciana FOURTZIOU, Athanasios NENES, Nikolaos MIHALOPOULOS

P2-AAS-AAP-132 Source-resolved simulation of fresh and chemically-aged biomass burning emissions.
Laura POSNER, Spyros PANDIS, Georgia THEODORITSI, Ksakousti SKYLLAKOU

P2-AAS-AAP-133 Impact of wood burning on local scale pollution in a rural residential area.
Martine VAN POPPEL, J. VERCAUTEREN, P. MAETZ, O. PEETERS

P2-AAS-AAP-134 Carbon emission factors from wood combustion of improved cook stoves.
Zuhelen Veronica PADILLA BARRERA, Ricardo TORRES JARDÓN, Luis Gerardo RUIZ SUAREZ, Oscar PERALTA, Telma CASTRO, Luisa MOLINA

P2-AAS-AAP-135 Tar analyses from the household chimneys to identify the possible packaging waste burning in small-scale heaters.
Marek MAASIKMETS, Hanna-Lii KUPRI, Erik TEINEMAA, Tarvo ARUMÄE

P2-AAS-AAP-136 Dangerous biomass burning emissions in highly populated regions in Vietnam.
Olga POPOVICHEVA, N. X. ANH, N. D. LOC, N. SHONIJA, K. ELEFTHERIADIS, E. DIAPOULI, G. ENGLING, L. BORGESE, M. ZONCA

P2-AAS-AAP-137 Emissions of wood stoves under real-life conditions.
Martine VAN POPPEL, J. VERCAUTEREN

P2-AAS-AAP-138 Investigation of Biomass Burning and Biogenic Aerosols through Molecular Markers: Measurements from the Canadian NAPS PM2.5 Speciation Program.
Ewa DABEK-ZLOTORZYNSKA, Michal SUSKI, Ding LUYI

P2-AAS-AAP-139 Impact of wild forest fires in Eastern Europe on aerosol composition and particle optical properties.
Tymon ZIELINSKI, Tomasz PETELSKI, Agata STRZALKOWSKA, Paulina PAKSZYS, Przemyslaw MAKUCH

P2-AAS-AAP-140 Canadian forest fires and their effect on aerosol optical properties measured over the European Arctic in summer 2015.
Paulina PAKSZYS, Krzysztof MARKOWICZ, Christoph RITTER, Tymon ZIELINSKI, Roberto UDISTI, David CAPPELLETTI, Mauro MAZZOLA, Masataka SHIOBARA, Olga ZAWADZKA , Justyna LISOK, Tomasz PETELSKI, Przemysław MAKUCH , Grzegorz KARASINSKI

P2-AAS-AAP-141 Near-source and transported biomass burning aerosols from Indochina to Taiwan.
Chung-Te LEE, Charles C.-K. CHOU, Guenter ENGLING, Zhong-Ting CHUANG, Neng-Huei LIN

P2-AAS-AAP-142 Organic tracers in PM2.5 emitted from the combustion of pellets and agro-fuels in a stove.
C.a. ALVES, Estela VICENTE, S. ROCHA, A.m. VICENTE

P2-AAS-AAP-143 Fast secondary aerosol formation in southern African biomass burning smoke.
Ville VAKKARI, Johan Paul BEUKES, Kerneels JAARS, Miroslav JOSIPOVIC, Andrew D. VENTER, Pieter G. VAN ZYL

P2-AAS-AAP-144 Real-time emissions of biomass burning aerosol under controlled conditions.
Sophie HASLETT, Jan THOMAS, William MORGAN, Rory HADDEN, James ALLAN, Keïta SEKOU, Cathy LIOUSSE, Dantong LIU, Hugh COE

P2-AAS-AAP-253 Chemical Characterization of Biomass-Burning Aerosols in Remote Northern Thailand.
Ying I. TSAI, Ritthipond LAITUN, Khajornsak SOPAJAREE

P2-AAS-AAP2 ATMOSPHERIC AEROSOL STUDIES

16:10 - 18:10 POSTER SESSION *Poster area*

CARBONACEOUS AEROSOL IN THE ATMOSPHERE

P2-AAS-AAP-145 A new aethalometer model for PM source apportionment in mixed solid fuel environments.
Stig HELLEBUST, Paul BUCKLEY, Jovanna ARNDT, Eoin MCGILLICUDDY, Ian O'CONNOR, Grisa MOCNIK, Eleonora NICOLOSI, Paul QUINCEY, Gary FULLER, John WENGER

P2-AAS-AAP-146 Identification and 14C analysis of black carbon and elemental carbon in sediments.
Christian STEINER, Matthias VONWILLER, Gary SALAZAR, Soenke SZIDAT

P2-AAS-AAP-147 Effects of suphuric acid and limonene ozonolysis products coatings on soot morphology and hygroscopicity.
Xiangyu PEI, Maria POULSEN, Axel ERIKSSON, Erik AHLBERG, Erik NORDIN, Joakim PAGELS, Birgitta SVENNINGSSON, Erik SWIETLICKI, Mattias HALLQUIST, Ravi PATHAK

P2-AAS-AAP-148 The effect of Brown Carbon on thermal-optical analysis: a correction based on optical multi-wavelength analysis.
Dario MASSABÒ, Vera BERNARDONI, Maria Chiara BOVE, Paolo BROTTO, Lorenzo CAPONI, Gianluigi VALLI, Roberta VECCHI, Paolo PRATI

P2-AAS-AAP-149 Source Apportionment of Carbonaceous Aerosols in an Eastern Mediterranean Megacity, Istanbul: Insights from Radiocarbon Measurements.
Fatma OZTURK, Keles MELEK, Banu CETIN, Alper UNAL, Stephane SAUVAGE, Charbel AFIF, Agnes BORBON

P2-AAS-AAP-150 Long term measurements of carbonaceous aerosols in PMx, Barcelona, Spain-Influence of African dust.
Angeliki KARANASIOU, Catarina LEAL, Teresa MORENO, Noemi PEREZ, Andres ALASTUEY

P2-AAS-AAP-151 Seasonal variations of stable carbon isotopic composition of fine atmospheric aerosol from three distinct sites, Lithuania.
Agne MASALAITE, Andrius GARBARAS, Genrikas MORDAS, Vidmantas ULEVICIUS , Vidmantas REMEIKIS

P2-AAS-AAP-152 Profiling of organic matter in submicron aerosols using DRI thermal carbon analyzer and Proton-Transfer-Reaction Mass Spectrometer.
Christian Mark SALVADOR, Charles C. -K. CHOU, M. -J. CHEN, W. -R. HUANG, S. -H. HUANG

P2-AAS-AAP-153 Attribution of aerosol light absorption to black carbon and brown carbon.
Sang-Woo KIM, C. CHO, D. JO, R.j. PARK, M. LEE, J.a. OGREN

P2-AAS-AAP-154 Photophoretic transport of fractal-like soot aggregates in stratosphere.
Sergey BERESNEV, Luiza KOCHNEVA, Victor GRYAZIN, Maria VASILJEVA

P2-AAS-AAP-155 Specialized aerosol solver for calculation of photophoretic motion characteristics of soot aggregates in stratosphere.
Victor GRYAZIN, Sergey BERESNEV, Luiza KOCHNEVA, Maria VASILJEVA

P2-AAS-AAP-156 Carbonaceous aerosol emissions from biomass burning cook stoves in western India.
Sarika DAVULURI, Maheshinderjeet GARG, Chandra VENKATARAMAN, Harish PHULERIA

P2-AAS-AAP-157 Black carbon in pristine environment: a study of two Hemispheres.
Darius CEBURNIS, Dantong LIU, Jurgita OVADNEVAITE, James ALLAN, Hugh COE, Manuel DALL'OSTO, Colin O'DOWD

P2-AAS-AAP-158 Physicochemical and optical properties of combustion-generated particles from Ship Diesel Engines.
Hwajin KIM, Seongcheol JEONG, Jin HYOUN CHER , Jin Young KIM

16:10 - 18:10 POSTER SESSION *Poster area*

SECONDARY ORGANIC AEROSOL

P2-AAS-AAP-159 Atmospheric transformation of volatile organic compounds released from small-scale wood combustion.
Anni HARTIKAINEN, Petri TIITTA, Pasi YLI-PIRILÄ, Ari LESKINEN, Miika KORTELAINEN, Jorma JOKINIEMI, Olli SIPPULA

P2-AAS-AAP-160 Fog and organic aerosol interaction: Chemistry, composition and significance.
Abhishek CHAKRABORTY, Sachchida TRIPATHI, Tarun GUPTA, Barbara ERVENS, Manjula CANAGARATNA

P2-AAS-AAP-161 Contributions of biogenic volatile organic compounds to the formation of secondary organic aerosols, Lithuania.
Steigvilė BYČENKIENĖ, Kristina PLAUŠKAITĖ, Vidmantas ULEVICIUS

P2-AAS-AAP-162 Aqueous phase oligomerization of alpha, beta-unsaturated carbonyls and acids investigated using ion mobility spectrometry coupled to mass spectrometry (IMS-MS).
Pascal RENARD, Sabrine TLILI, Sylvain RAVIER, Etienne QUIVET, Anne MONOD

P2-AAS-AAP-163 Temperature depending emissions of biogenic secondary organic aerosol and relationship with BVOC.
Kristina PLAUŠKAITĖ, Julija PAURAITĖ, Steigvilė BYČENKIENĖ, Genrik MORDAS, Vidmantas ULEVICIUS

P2-AAS-AAP-164 Influence of isoprene emission on secondary organic aerosols near a source region: A case study during the ChArMEx campaign simulated with the meso-scale Meso-NH model.
Maud LERICHE, Claire DELON, Pierre TULET, Corinne JAMBERT, Pierre DURAND, Agnès BORBON, Evelyn FRENEY, Aurélie COLOMB, Karine SELLEGRI, Cécile GAIMOZ, Anais FERON, Sylvain TRIQUET

P2-AAS-AAP-165 Radical production from photosensitization of imidazoles, benzophenone and 4-BBA.
Pablo CORRAL ARROYO, Thorsten BARTELS-RAUSCH, Markus AMMANN

P2-AAS-AAP-166 Secondary organic aerosol formation from aircraft turbine engine exhaust.
Dogushan KILIC, Ru-Jin HUANG, Benjamin BREM, Lukas DURDINA, Imad EL HADDAD, Felix KLEIN, Avi LAVI, Simone PIEBER, Theo RINDLISBACHER, Yinon RUDICH, Jing WANG, Jay SLOWIK, Urs BALTENSPERGER, Andre PREVOT

P2-AAS-AAP-167 SOA formation from anthropogenic and biogenic precursors: comparison to outdoor chamber experiments, effect of oligomerization and reactive uptake of aldehydes.
Florian COUVIDAT, Marta GARCIA-VIVANCO, Bertrand BESSAGNET

P2-AAS-AAP-168 Wall losses during secondary organic aerosol formation and aging in an aluminium simulation chamber.
Claudia MOHR, Harald SAATHOFF, Wei HUANG, Xiaoli SHEN, Karl-Heinz NAUMANN

P2-AAS-AAP-169 Importance of solubility for climate impacts of organic aerosol.
Narges RASTAK, Ilona RIIPINEN, Aki PAJUNOJA, Juan Camilo ACOSTA NAVARRO, Yu Jun LEONG, K CERULLY, Athanasios NENES, Alf KIRKEVÅG, David TOPPING, Annele VIRTANEN

P2-AAS-AAP-170 Semivolatile gas-phase compounds and organic aerosol composition measured by thermal-desorption proton-transfer-reaction mass-spectrometry (TD-PTR-MS).
Rupert HOLZINGER, Juliane FRY, Anwar KHAN, Stephanie SHAW

P2-AAS-AAP-171 Secondary organic aerosol emissions from a flexi-fuel gasoline engine operated with gasoline-ethanol blends: first results with the new photochemical emissions aging reactor.
Mika IHALAINEN, Petri TIITTA, Miika KORTELAINEN, Martin SKLORZ, Benjamin STENGEL, Laarnie MÜLLER, Kohlmeier VESTA, Gert JAKOBI, Anni HARTIKAINEN, Thorsten STREIBEL, Ralf ZIMMERMANN, Jorma JOKINIEMI, Olli SIPPULA

P2-AAS-AAP-172 Development of Flow Reactor for Secondary Organic Aerosol Formation.
Zaeem BARBA, Jun-Hyun PARK, Ho-Jin LIM

P2-AAS-AAP-173 Formation of nitrogen-containing low volatile compounds from biogenic carbonyl compounds-amine reactions: A laboratory and field study.
Geoffroy DUPORTE, Jevgeny PARSHINTSEV, Luis M. F. BARREIRA, Kari HARTONEN, Markku KULMALA, Marja-Liisa RIEKKOLA

P2-AAS-AAP-174 Impacts of different representations of SOA on simulated trends: multi-model analysis in the framework of the Eurodelta-Trends exercise.
Valentin RAFFORT, Y. ROUSTAN, A. COLETTE, B. BESSAGNET, F. COUVIDAT, H. FAGERLI, S. TSYRO, P. WIND, M. GARCIA VIVANCO, M. THEOBALD, A. MANDERS, K. MAR, T. BUTLER, N. OJHA, A. POZZER, M. MICEA, G. BRIGANTI, A. CAPPELLETTI, M. ADANI, M. D'ISIDORO, M. T. PAY, K. CUVELIER

P2-AAS-AAP-175 Applying multivariate statistical methods to Herbivore induced plant volatile measurement data.
Santtu MIKKONEN, Angela BUCHHOLZ, Eetu KARI, Liqing HAO, Annele VIRTANEN, Celia FAIOLA

P2-AAS-AAP-176 Impact of seed composition and aerosol acidity on volatility of secondary organic aerosol compounds formed from α-pinene ozonolysis.
Matthieu RIVA, Otso PERÄKYLÄ, Liine HEIKKINEN, Mikael EHN

P2-AAS-AAP-177 Formation of Highly Oxygenated Multifunctional compounds and Secondary Organic Aerosol from OH- and O3-oxidation of alpha-pinene under different environmental conditions.
Otso PERÄKYLÄ, Nina SARNELA, Chao YAN, Joel THORNTON, Emma D'AMBRO, Siegfried SCHOBESBERGER, Jiumeng LIU, John SHILLING, Mikael EHN

P2-AAS-AAP-178 Characterization of Physical and Chemical Properties of 3-methyl-1,2,3-butanetricarboxylic acid (MBTCA) aerosol.
Evangelia KOSTENIDOU, Eleni KARNEZI, Rafal SZMIGIELSKI, Spyros PANDIS

P2-AAS-AAP-179 Determination of selected organic species in PM2.5 aerosol from a summer field campaign at K-puszta, Hungary.
Magda CLAEYS, X. CHI, W. WANG, F. YASMEEN, R. VERMEYLEN, W. MAENHAUT

P2-AAS-AAP-180 Chemical composition studies of laboratory-made α-pinene SOA by NMR.
Sarmite KATKEVICA, Andreas HELD

P2-AAS-AAP-181 Experimental determination of the partitioning coefficient of important BVOC oxidation products at the atmospheric simulation chamber SAPHIR.
Georgios GKATZELIS, Philipp EICHLER, Thorsten HOHAUS, Martin KAMINSKI, Markus MÜLLER, Patrick SCHLAG, Sebastian SCHMITT, Ralf TILLMANN, Robert WEGENER, Kang-Ming XU, Zhujun YU, Rupert HOLZINGER, Armin WISTHALER, Astrid KIENDLER-SCHARR

P2-AAS-AAP-182 Photo-induced transformation of typical biomass burning organic species: a pathway to secondary Humic Like Substances (HuLiS) formation.
Francesco BARSOTTI, François LESTREMAU, Caudine CHATELLIER, Davide VIONE, Alexandre ALBINET

P2-AAS-AAP-183 The impact of molecular structure and chemical functionality on aerosol hygroscopicity.
Reid JONATHAN, Alex COWLING, Rachael MILES, Aleks MARSH, Grazia ROVELLI

P2-AAS-AAP-184 High-NOx photooxidation of n-dodecane: Influence of temperature and relative humidity on secondary organic aerosol formation.
Houssni LAMKADDAM, Aline GRATIEN, Edouard PANGUI, Mathieu CAZAUNAU, Marc DAVID, Jean-Michel POLIENOR, Cécile GAIMOZ, Bénédicte PICQUET-VARAULT, Jean-François DOUSSIN

P2-AAS-AAP-185 Characterization of primary and secondary wood emissions for different combustion devices and conditions.
*Deepika BHATTU, Giulia STEFENELLI, Peter ZOTTER, Jun ZHOU, Thomas NUSSBAUMER, Amelie BERTRAND, Nicolas MAR*CHAND, B. TE*MIME-ROUSSEL, Urs BALTENSPERGER, J. G. SLOWIK, A. S. H. PREVOT, I. Ei HADDAD, Josef DOMMEN*

P2-AAS-AAP-186 The Role of Photochemistry in Secondary Aerosol Formation and Evolution during High Particulate Matter Episodes at a Suburban Site in Hong Kong.
Yiming QIN, Yongjie LI, Dandan HUANG , Berto P. LEE, Chak K. CHAN

P2-AAS-AAP-254 Online atmospheric pressure chemical ionization high resolution mass spectrometry (APCI-Orbitrap-MS^2) for characterization of the SOA molecular composition.
Christoph ZUTH, Alexander VOGEL, Sara OCKENFELD, Thorsten HOFFMANN

P2-AAS-AAP-255 Benefits of cross modelling and field measurement approaches on the evaluation of SOA distribution: a case study in Grenoble, France.
Grazia LANZAFAME, Deepchandra SRIVASTAVA, Florian COUVIDAT, Olivier FAVEZ, Bertrand BESSAGNET, Alexandre ALBINET

P2-AAS-AAP-256 The evolution of α-pinene SOA at low temperatures: What is the influence of warm and cold conditions during SOA formation on its chemical composition?
Wei HUANG, Harald SAATHOFF, Karl-Heinz NAUMANN, Aki PAJUNOJA, Annele VIRTANEN, Claudia MOHR

P2-AAS-AAP4 ATMOSPHERIC AEROSOL STUDIES

16:10 - 18:10 POSTER SESSION *Poster area*

MARINE AEROSOLS

P2-AAS-AAP-187 Sea spray aerosol fluxes comparison: European Arctic vs. the Baltic Sea.
Piotr MARKUSZEWSKI, Tomasz PETELSKI, Przemysław MAKUCH, Tymon ZIELIŃSKI, Paulina PAKSZYS

P2-AAS-AAP-188 Sea spray aerosol concentration comparison: European Arctic vs. the Baltic Sea.
Tomasz PETELSKI, Piotr MARKUSZEWSKI, Przemysław MAKUCH, Tymon ZIELIŃSKI, Paulina PAKSZYS

P2-AAS-AAP-189 Chemical characterization of ambient aerosol over the Tyrrhenian Sea.
Maria CATRAMBONE, Stefano DALLA TORRE, Giulio ESPOSITO , Cinzia PERRINO

P2-AAS-AAP-190 Implications of Interfacial Photochemistry for Secondary Organic Aerosol Formation over Aquatic Environments.
Martin BRÜGGEMANN, Peter ALPERT, Raluca CIURARU, François BERNARD, Stephanie ROSSIGNOL, Liselotte TINEL, Sebastien PERRIER, Yoan DUPART, D. James DONALDSON, Christian GEORGE

P2-AAS-AAP-191 Cloud condensation nuclei (CCN) potential of Antarctic marine aerosols.
Kirsten FOSSUM, J. OVADNEVAITE, D. CEBURNIS, M. DALL'OSTO, R. SIMO, C. O'DOWD

P2-AAS-AAP-192 A case study of aerosol trace element deposition to Moroccan coastal waters.
Rachel SHELLEY, Géraldine SARTHOU, Georges TYMEN, Rémi LOSNO, Luis TITO DE MORAIS, Raymond LAE, Ali BENRHA, Fatimazohra BOUTHIR

P2-AAS-AAP-193 Development of Combustion Device using Catalyst and Dielectric Barrier Discharge.
Yusuke NOZAKI, Yoshiyasu EHARA, Joe ENOMOTO, Takashi INUI, Yukio AOKI

P2-AAS-AAP-194 Emission events characterization of marine aerosol in a shoreline site.
Antonio DONATEO, Matteo RINALDI, Marco PAGLIONE, Silvia SANDRINI, Jurgita OVADNEVAITE, Darius CEBURNIS, Daniele CONTINI

P2-AAS-AAP-195 Influence of Hole Diameter on Hole-type Electrostatic Precipitator.
Shun YOKOYAMA, Kouta YANAGAWA, Yoshiyasu EHARA, Joe ENOMOTO, Takashi INUI, Yukio AOKI

P2-AAS-AAP-196 Vertical profiles of the aerosol effective radius in the marine boundary layer over the Baltic Sea.
Przemysław MAKUCH, Tomasz PETELSKI, Piotr MARKUSZEWSKI, Małgorzata CISEK, Tymon ZIELIŃSKI, Tadeusz STACEWICZ, Stefan SITAREK

P2-AAS-AAP-264 Update on the Chemistry-Aerosol Mediterranean Experiment (ChArMEx, 2010-2020).
François DULAC, E. HAMONOU, I. ANNESI-MAESANO, M. BEEKMANN, K. DESBOEUFS, L. EL AMRAOUI, P. FORMENTI, B. LAURENT, M. MALLET, L. MENUT, M. MONIER, P. NABAT, J. B. RENARD, P. RICAUD, A. DI SARRA, S. SAUVAGE, J. SCIARE, K. SELLEGRI, M. SICARD, F. SOLMON, Other CHARMEX PARTICIPANTS

P2-AAS-AAP5 ATMOSPHERIC AEROSOL STUDIES

16:10 - 18:10 POSTER SESSION *Poster area*

MINERAL DUST

P2-AAS-AAP-197 Using Koschmieder theory to develop a simple proxy for suspended dust concentrations based on visual range.
Nic SURAWSKI, Spyros BEZANTAKOS, George BISKOS

P2-AAS-AAP-198 Temporal variability of mineral dust in southern Tunisia: analysis of 2 years of PM10 concentration, aerosol optical depth, and meteorology monitoring.
Christel BOUET, Mohamed Taieb LABIADH, Jean Louis RAJOT, Gilles BERGAMETTI, Béatrice MARTICORENA, Saâd SEKRAFI, Mohsen LTIFI, Anaïs FERON, Thierry HENRY DES TUREAUX

P2-AAS-AAP-199 Contribution and impact of desert dust outbreaks for a long-term period in a site of the Western Mediterranean Basin.
D. MATEOS, Victoria CACHORRO, M. A. BURGOS, C. TOLEDANO, C. VELASCO-MERINO, R. GONZÁLEZ, C. GUIRADO, A. CALLE, A. M. DE FRUTOS

P2-AAS-AAP-200 Characterization of mineral dust aerosols: emphasis on columnar microphysical properties and surface mass concentration.
M. A. BURGOS, D. MATEOS, Victoria CACHORRO, C. TOLEDANO, A. M. DE FRUTOS

P2-AAS-AAP-201 Levels of metals/metalloids of PM10 and PM2.5 generated by aeolian erosion of mining wastes of former fluorite mine in semi-arid climate: Case of Hammam Zriba (Tunisia).
Chaima DJEBBI, Xavier QUEROL, Oriol FONT, Fredj CHAABANI

P2-AAS-AAP-202 Asbestos fiber disintegration to nanosize range.
Miroslav KLÁN, Jan HOVORKA

P2-AAS-AAP-203 Indirect Estimation via Dispersion Modelling of PM Emission Factors for Surface Phosphate Mining Activities.
Dmitry TARTAKOVSKY, Eli STERN, David BRODAY

P2-AAS-AAP-204 Dust events over Kuwait inferred from micropulse lidar soundings.
Jean-François LÉON, Ismail SABBAH, Benjamin GUINOT, Faisal AL SHARIFI

P2-AAS-AAP-205 Decrease of tropospheric ozone concentrations associated with Saharan dust outbreaks.
Ruben SOLER, Jose NICOLAS, Sandra CABALLERO, Eduardo YUBERO, Javier CRESPO, Nuria GALINDO, Montse VAREA, Juan GIL-MOLTÓ, Ramón CASTAÑER, Carlos PASTOR

P2-AAS-AAP-206 Impact of Saharan dust outbreaks on the chemical composition of PM10 at Mt. Aitana (southeastern Spain).
Nuria GALINDO, Eduardo YUBERO, Jose Francisco NICOLÁS, Montse VAREA, Ramón CASTAÑER, Domínguez CABALLERO, Juan GIL-MOLTÓ, Carlos PASTOR, Javier CRESPO

P2-AAS-AAP-257 Global scale variability of the mineral dust longwave refractive index from new in situ chamber measurements.
Claudia DI BIAGIO, Paola FORMENTI, Yves BALKANSKI, Lorenzo CAPONI, Mathieu CAZANAU, Edouard PANGUI, Emilie JOURNET, Sophie NOWAK, Sandrine CAQUINEAU, Meinrat ANDREAE, Konrad KANDLER, Thuraya SAEED, Stuart PIKETH, David SEIBERT, Earle WILLIAMS, Jean-Francois DOUSSIN

P2-AAS-AAP-258 Estimate atmospheric fluxes of nutrients and trace metals using an atmospheric deposition collection system in the Western Mediterranean Sea.
Fu YINGHE, Desboeufs KARINE, Vincent JULIE, Laurant BENOIT, Bon-Nguyen ELISABETH, Losno RÉMI, Dulac FRANÇOIS

P2-AAS-AAP-259 Evaluation of the impact of quarrying activities on PM concentration and chemical composition: First results of the EMCAIR project.
Jean SCIARE, S. VERMEESCH, A. PATRON-ANQUEZ, K. OIKONOMOU, M. TSAGARAKI, N. MIHALOPOULOS

P2-AAS-AAP-260 Estimate atmospheric fluxes of nutrients and trace metals using an atmospheric deposition collection system in the Western Mediterranean Sea.
Fu YINGHE, Desboeufs KARINE, Vincent JULIE, Bon-Nguyen ELISABETH, Laurant BENOIT, Losno RÉMI, Dulac FRANÇOIS

P2-AAS-AAP6 — ATMOSPHERIC AEROSOL STUDIES

16:10 - 18:10 POSTER SESSION — *Poster area*

URBAN AEROSOLS

P2-AAS-AAP-207 Effects of maintenance works and ventilation settings on the PM concentrations in subway platforms.
Teresa MORENO, Cristina RECHE, Maricruz MINGUILLÓN, Vania MARTINS, Marta CAPDEVILA, Sonia CENTELLES, Eladio DE MIGUEL, Xavier QUEROL

P2-AAS-AAP-208 French Network on Ultrafine Particles Monitoring: first results.
Alexandre THOMASSON, P. Y. GUERNION, B. MESBAH, F. ROZE, Olivier LE BIHAN

P2-AAS-AAP-209 Continuous measurement of ambient aerosol liquid water content in Beijing.
Oscar FAJARDO, Jiming HAO, Jingkun JIANG

P2-AAS-AAP-210 Study of brake wear particle emissions of a minivan on a chassis dynamometer.
Leonidas CHASAPIDIS, Theodoros GRIGORATOS, Alexandra ZYGOGIANNI, Apostolos TSAKIS, Francesco RICCOBONO, Athanasios KONSTANDOPOULOS

P2-AAS-AAP-211 Researches on atmospheric single particle characteristics during haze periods in October, 2014 in Beijing, China.
Bai ZHIPENG , Zhang WENJIE, Liu LANG, Zhang RUI, Han BIN, Yang WEN, Wang WAN

P2-AAS-AAP-212 Characterization of reactive oxygen species in airborne particles from São Paulo Megacity.
Gisele ROCHA, Xiaobi KUANG, Adlin SCOTT, Nilmara ALVES, Perola VASCONCELLOS, Suzanne PAULSON

P2-AAS-AAP-213 Determination of airborne polycyclic aromatic compounds exhausted from buses.
Aldenor SANTOS, Gisele ROCHA, Jailson ANDRADE

P2-AAS-AAP-214 Residential heating as main cause of urban air pollution; case study from the Czech Republic.
Miroslav KLAN, Cecilia LEONI, Jan HOVORKA, Jan BENDL

P2-AAS-AAP-215 Organic markers and compounds in PM1 aerosol in small town near Prague (Czech Republic) in winter 2016.
Kamil KRUMAL, Pavel MIKUSKA, Pavel COUFALIK, Zbynek VECERA

P2-AAS-AAP-216 The contribution of biomass burning to PAH concentrations in Budapest in wintertime.
Gyula KISS, Diána LÉVAI, Tibor AJTAI, Kornélia IMRE, Ágnes MOLNÁR, Ádám TÓTH, András HOFFER

P2-AAS-AAP-217 Balloon measurements of temperature, relative humidity, O3 and NOx vertical profiles and inversion layer height observation in polluted urban atmosphere.
Jan BENDL, Vlasta ŠVECOVÁ, Jan HOVORKA

P2-AAS-AAP-218 Fine particle aerosol and black carbon in Suva, Fiji.
Cynthia ISLEY, P. F. NELSON, M. P. TAYLOR, F. MANI, M. MAATA, D. COHEN, E. STELCER, A. J. ATANACIO

P2-AAS-AAP-219 Characterisation of ambient fine and ultrafine aerosol particulate matter in Suva, Fiji.
Cynthia ISLEY, P. F. NELSON, M. P. TAYLOR, M. MAZAHERI, F. FUOCO, L. MORAWSKA

P2-AAS-AAP-220 UFP concentrations over some grids of paired meteorological data.
Libor HEJKRLÍK, Helena PLACHÁ, Dáša RICHTEROVÁ

P2-AAS-AAP-221 Three years of balloon-borne and ground-based measurements of urban pollution by the light aerosol counter LOAC: assessment and perspective.
Jean-Baptiste RENARD, Jean-Charles DUPONT, Karine LEGER, Jérome GIACOMONI, Joris LEGLISE, Gwenael BERTHET, Benoit COUTE, Vincent DUVERGER, Matthieu JEANNOT

P2-AAS-AAP-222 Direct observations of particulate matter dispersion over an urban area in Helsinki.
Ville VAKKARI, Ewan J. O'CONNOR, Anne HIRSIKKO, Anu KOUSA

P2-AAS-AAP-223 Source Apportionment of Atmospheric PM2.5 at a Coastal City in Southern Taiwan.
Sheng-Lun LIN, Hung-Yi LU, Wen-Jhy LEE, Guo-Ping CHANG-CHIEN

P2-AAS-AAP-224 Characteristics of wintertime carbonaceous aerosols in Seoul, Korea.
Jeongeun KIM, Jeeyoung HAM, Hae-Jung LEE, Joowan CHA, Sang Boom RYOO

P2-AAS-AAP-225 Physical characterization of tire wear particles emitted from eco-friendly tires under constant driving speed.
Seokhwan LEE, Inyong PARK, Janghee LEE

P2-AAS-AAP-226 Organic and inorganic characterization of particulate matter collected in the vicinities of a petrochemical complex in São Paulo, Brazil.
Sofia CAUMO, Danilo CUSTÓDIO, Célia ALVES, Perola VASCONCELLOS

P2-AAS-AAP-227 Temporal and spatial particulate matter distribution in a complex hot spot.
Francisco J. GÓMEZ-MORENO, Begoña ARTIÑANO, Elias DIAZ RAMIRO, Sotiris VARDOULAKIS, Sani DIMITROULOPOULOU, Carlos YAGÜE, Gregorio MAQUEDA, Carlos ROMÁN-CASCÓN, Mariano SASTRE, Rafael BORGE, Adolfo NARROS, Christina QUAASSDORFF, Enrique LATORRE

P2-AAS-AAP-228 Spatial Distribution of PM2.5-bound Polycyclic Aromatic Hydrocarbon (PAHs) over Xi'an nine communities of northwest China.
Hongmei XU, J. J. CAO, M. L. GAO, B. GUINOT

P2-AAS-AAP-229 Hopanes in particulate matter from two road tunnels of the São Paulo Metropolitan Area.
C.a. ALVES, A.m. VICENTE, S. ROCHA, P.c. VASCONCELOS, Estela VICENTE

P2-AAS-AAP-230 Outdoor PM2.5 and Black carbon exposure assessment in Mumbai urban slums.
Abhay ANAND, Harish PHULERIA

P2-AAS-AAP-231 Urban air pollution dynamics assessment by use of 222Radon in the lower atmosphere.
Maria ZORAN, Roxana SAVASTRU, Dan SAVASTRU, Adrian DIDA

P2-AAS-AAP-235 Chemical Composition of Aerosols in a Heavily Industrialized Region of Turkey, Dilovasi/KOCAELI.
Fatma OZTURK, Keles MELEK, Sema YURDAKUL, Banu CETIN

P2-AAS-AAP-261 Molecular characterization of organic aerosol from European and Chinese cities: an ultrahigh resolution mass spectrometry study.
Kai WANG, Rujin HUANG, Christopher KAMPF, Yafang CHENG, Ulrich PÖSCHL, Thorsten HOFFMANN

P2-AAS-AAP-262 Methodologies to Estimate of NOx Emission from Mobile Sources in Republic of Korea.
Na Kyung KIM, Ji Hyung HONG, Yong Pyo KIM

P2-AAS-AAP-263 Bioaccessibility of metals in size fractions of road dust and roadside soils in the city of Turin (Italy).
Elio PADOAN, Fulvio AMATO, Franco AJMONE MARSAN

P2-AAS-AAP7 — ATMOSPHERIC AEROSOL STUDIES

16:10 - 18:10 POSTER SESSION — *Poster area*

AEROSOL AND RADIOACTIVITY

P2-AAS-AAP-232 The radioactivity of airborne volcanic ash.
Olivier MASSON, Jean-Christophe SABROUX, Donato D'AMICO, Magali BEGUIN-LEPRIEUR

P2-AAS-AAP-233 Properties of depositional fluxes of radionuclides at Málaga (coastal mediterranean station).
Mª Concepcion DUEÑAS, E. GORDO, S. CAÑETE, E. LIGER, M. CABELLO, M. PÉREZ

P2-AAS-AAP-234 An alternative age constraint of snowpit at Dome Fuji, Antarctica by plutonium concentrations.
Heejin HWANG, Yeongcheol HAN, Jeonghoon LEE, Hideaki MOTOYAMA

P2-AMT-INST1 — AEROSOL MEASUREMENT TECHNIQUES

16:10 - 18:10 POSTER SESSION — *Poster area*

AEROSOL STANDARDS AND NEW DEVELOPMENTS

P2-AMT-INST-001 Round- Robin evaluation of the methodology for filtration efficiency tests in different filter media against nanoparticles.
Panagiota SACHINIDOU, Shawn S.c. CHEN, David Y.h. PUI, Paolo TRONVILLE, Thomas MOSIMANN, Mikael ERIKSSON, Jing WANG

P2-AMT-INST-002 Generation of monomobile mobility standards with three aerosol neutralizers.
Iris BRODACZ, Manuel ORZAN, Lorenz WITEK, Harald SCHUH, Regina HITZENBERGER, Gerhard STEINER

P2-AMT-INST-003 Real-time Instrument for Aerosol Mass Distribution Measurement.
Modi CHEN, Francisco ROMAY, Lin LI, Amir NAQWI, Virgil MARPLE

P2-AMT-INST-004 A novel probe to investigate corrosion relevant particles in boilers of waste incineration plants.
Stefan SCHUMACHER, Jörg LINDERMANN, Burkhard STAHLMECKE, Dirk JARZYNA, Amit KHOT, Thomas ZEINER, Till VAN DER ZWAAG, Hermann NORDSIECK, Ragnar WARNECKE, Christof ASBACH

P2-AMT-INST-005 Comparison of the responses of a novel nanoparticle measurement device with commonly used aerosol instruments.
Jani LESKINEN, Mika IHALAINEN, Erkka SAUKKO, Kauko JANKA, Jorma JOKINIEMI, Mirella MIETTINEN

P2-AMT-INST-006 Coded ring sensor array for the local detection of charged particles.
Wolfgang MOELTER-SIEMENS, Siegfried OPIOLKA, Ahmed BANKODAD, Stefan HAEP, Christof ASBACH

P2-AMT-INST-007 Single Particle Extinction and Scattering (SPES) allows the characterization of aerosol optical properties.
Federico MARIANI, Lorenzo CREMONESI, Tiziano SANVITO, Bruno PAROLI, Alberto PULLIA, Marco POTENZA

P2-AMT-INST-008 Design and calibration of non-sheathed butanol CPC sensitive to 1 nm particles.
David PICARD, Michel ATTOUI, Karine SELLEGRI

P2-AMT-INST-009 Combustion aerosol standard generator for aeronautic fuel.
David DELHAYE, Ismael Kenneth ORTEGA, Lianpeng JING, David LEDUR, Daniel FERRY, Cornelia IRIMIEA, Claire PIRIM, Bertrand CHAZALLON, Cristian FOCSA, François-Xavier OUF, François SALM, Xavier VANCASSEL

P2-AMT-INST-010 A Harmonized Method for Monitoring the Number Concentration of Ultrafine Particles in Atmospheric Aerosol.
Juergen SPIELVOGEL, Oliver BISCHOF, Jacob SCHECKMAN, Brian OSMONDSON, Hans-Georg HORN

P2-AMT-INST-011 Experimental investigation of aerosol particle composition and growth rates.
Daniela WIMMER, Juha KANGASLUOMA, Paul WINKLER, Markku KULMALA, Tuukka PETAJA

P2-AMT-INST-012 Aerosol Cu Ultra Fine Nanoparticles Size by XRD vs Bundle Diffusion Batteries.
Stefano DI STASIO, Andrei ONISCHUK, Giuseppe MOCCI

P2-AMT-INST-051 CFD simulations to enhance the performance of an axial mobility classifier for ionic molecular clusters.
Markus LEIMINGER, Lukas FISCHER, Martin BREITENLECHNER, Werner JUD, Armin HANSEL, Gerhard STEINER

P2-AMT-INST-013 Development of a Miniature Electrical Ultrafine Particle Sizer (mini-eUPS).
Qiaoling LIU, Da-Ren CHEN

P2-AMT-INST-014 On the use of the field Sunset semi-continuous analyzer to measure equivalent black carbon concentrations.
Nadezda ZIKOVA, Petr VODICKA, Wolfgang LUDWIG, Regina HITZENBERGER, Jaroslav SCHWARZ

P2-AMT-INST-014 Use of tubes made of electrostatic dissipative materials for sizing sub - 10 nm particles.
Nic SURAWSKI, Konstantinos BARMPOUNIS, Spyros BEZANTAKOS, George BISKOS

P2-AMT-INST-015 Precise determination of PM mass fractions with an advanced nephelometer.
Heinrich DR. IGLSEDER, Markus DR. PESCH, Mathias DR. BARTHEL, Volker ZIEGLER, Achim EDFELDER

P2-AMT-INST2 AEROSOL MEASUREMENT TECHNIQUES

16:10 - 18:10 POSTER SESSION *Poster area*

INSTRUMENT CALIBRATION, ACCURACY AND COMPARABILITY

P2-AMT-INST-016 The accuracy of the DMA-APM mass measurement for sub-50 nm nanoparticles.
Boxi LIAO, Neng-Chun TSENG, Chun-Wan CHEN, Shi-Nian UANG, Cheng-Yao CHEN, Chuen-Jinn TSAI

P2-AMT-INST-017 Optimizing the particle counting efficiency of the Grimm 5.412 CPC for airborne sub 4nm particles and clusters.
Manuel ORZAN, Iris BRODACZ, Lorenz WITEK, Harald SCHUH, Paul WINKLER, Regina HITZENBERGER, Gerhard STEINER

P2-AMT-INST-018 Dynamic light scattering: a numerical standard.
Annie GARO, Sawitree SAENGKAEW

P2-AMT-INST-019 A new data inversion algorithm for Scanning Mobility Particle Sizers.
Lars HUNZIKER, Felix LÜÖND , Kevin AUDERSET, Cédric BLASER, Konstantina VASILATOU

P2-AMT-INST-021 The REDMAAS 2015 intercomparison campaign (CPC+ long/nano-SMPS+UFPM): First results.
Francisco J. GÓMEZ-MORENO, Elisabeth ALONSO, Begoña ARTIÑANO, Jesús RODRÍGUEZ-MAROTO, Enrique ROJAS, María PIÑEIRO IGLESIAS, Purificación LÓPEZ MAHÍA, Noemí PÉREZ, Andrés ALASTUEY, Gloria TITOS, Lucas ALADOS-ARBOLEDA, Esther BORRÁS, Amalia MUÑOZ, Torsten TRITSCHER, Enrique LATORRE

P2-AMT-INST-022 Investigating measurement accuracy and precision of a commercial ice nuclei counter SPIN with a series of mineral dust experiments.
Kimmo KORHONEN, Mika KOMPPULA, Kari LEHTINEN, Annele VIRTANEN

P2-AMT-INST-023 Determination of the UFP_3031 Uncertainty on Number Concentration regarding Ambient Air Particle Monitoring.
Olivier LE BIHAN, M. DALLE, Alexandre THOMASSON, F. PIN, B. MESBAH, P. BOURQUIN, O. FAVEZ

P2-AMT-INST-024 Evaluation of accuracy of fine particulate matter (PM10) automatic measuring instruments in the air pollution monitoring network.
Hyon Ho KIM, Sang Bong HAN, Jae Yong LEE, Joong Bo PARK, Jung Seop ROH, Jin Sang JUNG, Sangil LEE

P2-AMT-INST-025 Comparison of different techniques for aerosol surface area size distribution measurements: CEPI, ELPI and SMPS.
Maria GINI, Luis MENDES, Konstantinos ELEFTHERIADIS

P2-AMT-INST-026 A calibration procedure adapted to measure in real-time droplet size distribution of e-cigarette aerosols.
Pascal PRATTE, Stéphane COSANDEY, Catherine GOUJON GINGLINGER

P2-AMT-INST-027 Real-time aerosol monitoring of LFS produced silver nanoparticles with DENSMO.
Paxton JUUTI, Janne HAAPANEN, Juha HARRA, Jyrki MÄKELÄ

P2-AMT-INST-028 Comparison of condensation particle counters (CPCs) intended for workplace measurements.
Carsten MÖHLMANN, Volker NEUMANN, Christian MONZ, Dirk DAHMANN, Christof ASBACH, Heinz KAMINSKI, Ana Maria TODEA

P2-AMT-INST3 AEROSOL MEASUREMENT TECHNIQUES

16:10 - 18:10 POSTER SESSION *Poster area*

OPTICAL, ELECTRICAL AND GRAVIMETRIC MEASUREMENT TECHNIQUES

P2-AMT-INST-029 Mobile lidar measurement of anthropogenic atmospheric phenomenon.
Yunhui ZHENG

P2-AMT-INST-030 Development of a photothermal interferometer for aerosol absorption measurements.
Staffan SJOGREN, Ernest WEINGARTNER, Heinz BURTSCHER

P2-AMT-INST-031 Quality of digital images as means of ambient fine PM assessment.
Tamar YACOBI, Yael ETZION, Rohan JAYARATNE, Md Mahmudur RAHMAN, Lidia MORAWSKA, Barak FISHBAIN

P2-AMT-INST-032 Multi-angle scattering measurement chamber for structure factor measurement.
Zsofia JURÁNYI, Markus LOEPFE, Heinz BURTSCHER

P2-AMT-INST-034 Pulse-Height Analysis with an Unmodified Monochromatic Condensation Particle Counter.
Konstantinos BARMPOUNIS, Ananth RANJITHKUMAR, Andreas SCHMIDT-OTT, Michel ATTOUI, George BISKOS

P2-AMT-INST-035 Detection of aerosols using Laser-Induced Breakdown Spectroscopy (LIBS).
Christophe DUTOUQUET

P2-AMT-INST-036 A thermodenuder assisted dual-wavelength dual cell photoacoustic aerosol analyser with enhanced source apportionment capability.
Máté PINTÉR, Noémi UTRY, Gábor GULYÁS, Gergely KISS-ALBERT, Tibor AJTAI, Gábor SZABÓ, Zoltán BOZÓKI

P2-AMT-INST-037 A study of Saharan dust and biomass burning by using Raman LiDAR and sun- photometer measurements in SHADOW2 campaign.
Qiaoyun HU, Philippe GOLOUB, Oleg DUBOVIK, Thierry PODVIN, Igor VESELOVSKII, Valentyn BOVCHALIUK, Anton LOPATIN, Benjamin TORRES, Didier TANRÉ, Christine DEROO, Tatsiana LAPIONAK, Fabrice DUCOS, Aboubacry DIALLO, David FUERTES

P2-AMT-INST-038 Real-time separation between aerosolized Staphylococcus epidermidis and polystyrene latex particle of similar size distribution.
Ali MOHAMADI NASRABADI, Jangseop HAN, Milad MASSOUDI FARID, Sang-Gu LEE, Jungho HWANG

P2-AMT-INST-039 Comparison Between the Experimental and Theoretical Resolution of a Simple Three Outlet Differential Mobility Analyzer.
Spyridon BEZANTAKOS, Maria GIAMARELOU, L. HUANG, Konstantinos BARMPOUNIS, Jason OLFERT, George BISKOS

P2-AMT-INST-040 Collection of submicron aerosols by a passive sampler system using corona-charged resin surfaces.
M. P. KHAIRUNNISA, Ferry FAIZAL, Yosuke YAMADA, Masao GEN, Naoya HAMA, I. Wuled LENGGORO

P2-AMT-INST-041 PPI personal thoracic aerosol sampler performance.
Peter GÖRNER, Alexis BOIVIN, Sébastien BAU

P2-AMT-INST-052 New developments for fast, high resolution and transmission DMA measurements.
Luis Javier PEREZ-LORENZO, Gonzalo ARRANZ, Mario AMO-GONZALEZ, Heinz BURTSCHER, Rafael CUESTA, Juan FERNANDEZ DE LA MORA

P2-AMT-INST4 AEROSOL MEASUREMENT TECHNIQUES

16:10 - 18:10 POSTER SESSION *Poster area*

COMPARISON AND IMPLEMENTATION OF MEASUREMENT METHODS

P2-AMT-INST-042 Ground-based and balloon-borne aerosol cross comparisons with the aerosol counter LOAC.
Damien VIGNELLES, Jean-Baptiste RENARD, Gwenaël BERTHET, Fabrice JEGOU, Vincent DUVERGER, Benoit COUTE, François DULAC, Paul ZIEGER, Matthew SALTER, Jérome GIACOMONI, Adam BOURASSA, Doug DEGENSTEIN, Landon RIEGER, Matthieu JEANNOT

P2-AMT-INST-043 Dustiness of nanomaterial powders: comparison between the small rotating drum and the vortex shaker methods.
Claire DAZON, Olivier WITSCHGER, Sébastien BAU, Raphael PAYET, Alexis BOIVIN, Keld A. JENSEN, Elżbieta JANKOWSKA

P2-AMT-INST-044 Influence of the thermal–optical temperature protocol in the determination of OC and EC concentrations on samples collected in the surroundings of a cement plant.
Eduardo YUBERO, Nuria GALINDO, Jose Francisco NICOLÁS, Montse VAREA, Ramón CASTAÑER, Caballero SANDRA, Juan GIL, Carlos PASTOR, Javier CRESPO

P2-AMT-INST-045 OECD-WPMN Dossiers from the Sponsorship Programme – Review of the results for particle size and particle size distribution.
Harald BRESCH

P2-AMT-INST-046 Real-time Air Quality Monitoring with a Novel Aerosol PM Monitor.
Torsten TRITSCHER, Robert ANDERSON, Ralf STEINHEUER, Jürgen SPIELVOGEL, Oliver BISCHOF

P2-AMT-INST-047 Urban air quality measurements in Finland and China using a PPS-M sensor.
Miikka DAL MASO, Anssi JÄRVINEN, Jian GAO, Heino KUULUVAINEN, Sampo SAARI, Jarkko NIEMI, Liisa PIRJOLA, Kauko JANKA, Jorma KESKINEN

P2-AMT-INST-048 Measurement of the number concentration of nanoparticles in suspensions with the use of an electrospray source coupled with a liquid flow meter and a scanning mobility particle sizer.
Guillaume BAUR, Konstantina VASILATOU

P2-AMT-INST-049 Collection of cast soot particles with a particle into liquid sampler (pils).
Lorenz WITEK, Theresa HALLER, Anna WONASCHÜTZ, Gerhard STEINER, Harald SCHUH, Hinrich GROTHE, Regina HITZENBERGER

P2-AMT-INST-050 Development of photochemical chamber system for the laboratory characterization of primary and secondary vehicular exhaust from bio-ethanol.
Pedro OYOLA, Vasileios PAPAPOSTOLOU, Reyes REYES, Yeanice VÁSQUEZ, Ernesto GRAMSCH, Joy LAWRENCE

P2-AMT-INST-053 Comparison of continuous-wave LII ("SP2") and pulsed-shot LII response to rBC measurement.
Jinfeng YUAN, Joel CORBIN, Martin GYSEL

P2-AT-ABN AEROSOL TECHNOLOGY

16:10 - 18:10 POSTER SESSION *Poster area*

AEROSOL TECHNOLOGY - AEROSOL BASED NANOTECHNOLOGY

P2-AT-ABN-001 Precursor influence on the granulometric and optical properties of flame made titania.
Melanie STANZEL, Maximilian DOMASCHKE, Wolfgang PEUKERT

P2-AT-ABN-002 One-step synthesis of atomically dispersed palladium on ttitania for NO removal.
Kakeru FUJIWARA, Sotiris PRATSINIS

P2-AT-ABN-003 Catalytic conversion of glycerol with reduced Co2AlO4 nanoparticles produced by flame spray pyrolysis.
Anna LÄHDE, Luis MODESTO-LOPEZ, Tommi KARHUNEN, Ricardo CHIMENTÃO, Jordi LLORCA, Mayra GARCIA ÁLVAREZ, Francesc MEDINA, Jorma JOKINIEMI

P2-AT-ABN-004 Optimizing nanoparticle production with aerosol instruments for antibacterial and photocatalytic nanocoatings by Liquid Flame Spray.
Janne HAAPANEN, Juha HARRA, Paxton JUUTI, Inge Hald ANDERSEN, Marianne GUNELL, Ruut KUMMALA, Kofi BROBBEY, Erkki EEROLA, Jarkko J. SAARINEN, Martti TOIVAKKA, Pentti HUOVINEN, Lars Pleth NIELSEN, Jyrki MÄKELÄ

P2-AT-ABN-005 Tuning of indium antimony nanoparticles generated with spark discharge.
Linus LUDVIGSSON, Masoomeh GHASEMI, Kimberly DICK THELANDER, Jonas JOHANSSON, Sepideh GORJI GHALAMESTANI, Knut DEPPERT

P2-AT-ABN-006 Thin conductive layers from Cu nanopowders produced by arc discharge.
M.s. BISHADY, Matthias STEIN, Einar KRUIS

P2-AT-ABN-007 High-yield synthesis of Al2O3 and SnO2 nanoparticles by the multi-spark discharge generator.
Alexey EFIMOV, Ivan VOLKOV, Anna LIZUNOVA, Dmitry MYLNIKOV, Victor IVANOV

P2-AT-ABN-008 Reactivity and structual change of protectant-substituted Ag nanoplates with DNAs.
Syuji TAKEMOTO, K. IWAI, H. NANJO, M. MIYAGAWA, H. TANAKA

P2-AT-ABN-009 Synthesis of Pt-graphene/TiO2 nanocomposite with enhanced photocatalytic hydrogen production efficiency via water splitting.
Dan-Dan ZHENG, Qian ZHANG, Chang-Tang CHANG

P2-AT-ABN-010 New semiconductor oxide nanocomposites obtained by aerosol-assisted chemical vapor deposition.
Isabel SAYAGO, José Pedro SANTOS, José Luis FONTECHA, Maria Jesús FERNÁNDEZ, María Del Carmen HORRILLO, Manuel ALONSO

P2-AT-ABN-011 Surface composition during sintering of silver-gold alloyed nanoparticles.
Eirini GOUDELI, Sotiris E. PRATSINIS

P2-AT-ABN-012 Numerical modelling of nucleation processes in gas phase.
V. V. MAKSIMENKO, Valery ZAGAYNOV, A. A. LUSHNIKOV, I. E. AGRANOVSKI, N. P. KALASHNIKOV, N. A. KLYACHIN

P2-AT-ABN-013 Combined mathematical model of submicron particle formation in continuously stirred tank reactor.
Artur GILFANOV, Wolfgang KOCH, Shamil ZARIPOV

P2-AT-ABN-014 Theoretical Model of CNT Aerogel Formation.
Christian HOECKER, De La Verpilliere JEAN, Brian GRAVES, Fiona SMAIL, Adam BOIES

P2-AT-ABN-015 Arsenic Removal with Phosphorene and Graphene.
Lin YU-JUNG, Cao WEN-ZHI, Ouyang TONG , Chang CHANG-TANG

P2-AT-ABN-016 Controlled particle synthesis in a hot-wall reactor and controlled electrostatic manipulation of the aggregation process.
David RASCHE, H. J. SCHMID

P2-AT-ABN-017 Aerosol Based Fabrication of Water Soluble Polymer Nanospheres.
Masoom SHABAN, Alfred WEBER

P2-AT-ABN-018 Effective photon-photon interaction under light localization in a system of nanoparticles.
Vladimir MAKSIMENKO, V. A. ZAGAYNOV, Igor E. AGRANOVSKI

P2-AT-ABN-019 SnO2 particles synthesized by sol-gel and Aerosol Spray Pyrolysis for next-generation Li-ion anode materials.
Georgios GKANAS, Georgia KASTRINAKI , Dimitrios ZARVALIS, Athanasios G. KONSTANDOPOULOS, Daniele VERSACI, Nerino PENAZZI, Silvia BODOARDO

P2-AT-ABN-020 New insights in the synthesis and applications of carbon nanotube sea urchins.
Jean DE LA VERPILLIERE, Michael DE VOLDER, Adam BOIES

P2-AT-ABN-021 Study of ZnO nanoparticle generation for long lasting exposure experiments.
Pavel MORAVEC, Jaroslav KUPČÍK

P2-AT-ABN-022 Synthesis of solid solutions Ln-Fe-O using aerosol spray pyrolysis method.
Anastasia GOLDT, Albert NASIBULIN

P2-AT-ABN-023 Clusters of Ag and Cu from a Through-Flow Spark Generator.
Tobias PFEIFFER, Joonas VANHANEN, Juha KANGASLUOMA

P2-AT-ABN-024 Generation of alloyed nanoparticles by spark discharge.
Alex MUNTEAN, Moritz WAGNER, Jörg MEYER, Martin SEIPENBUSCH

P2-AT-ABN-025 Development of the technique for the synthesis of the HEPA filter composite material.
Ivan MIK, Vasily GOREV

P2-AT-ABN-026 Aerosol based tandem mass-mobility analysis of colloidal suspensions.
Derek OBERREIT, Siqin HE, Vivek RAWAT, Seongho JEON, Chris HOGAN

P2-AT-ABN-027 The pH effect on gas-born Ag nanoparticles capturing into the PVP solutions.
Naomi SAKONO, Kazuki OMORI, Aoi SHIMIZU, Masao KITA

P2-AT-ABN-028 Separation of Nano Particles from cutting fluids by using nonwoven materials.
Steffen BLEI, Madeleine BERGER, Ralf HEIDENREICH, Barbara SCHIMANZ

16:10 - 18:10 POSTER SESSION *Poster area*

FILTRATION AND GAS-PARTICLE SEPARATION

P2-AT-SS4-001 Estimating the service life time of the cabin air filters used in automobiles based on tests of loading capacity and filtration efficiency.
Xu HE, Benjamin BREM, Jing WANG

P2-AT-SS4-002 Influence of humidity and temperature on bag filter performances for incineration fumes treatment.
Rachid BOUDHAN, Laurence LE COQ, Aurélie JOUBERT, Kamal GUERAOUI, Danielle VENDITTIC, Sylvain DURECU

P2-AT-SS4-003 Simultaneous removal of soot and NOx from biomass boiler fumes over catalytic sintered filter.
Guillaume TESQUET, A. VILLOT, A. GUYON, F. TRESSE, L. LE COQ

P2-AT-SS4-004 The assessment of efficiency of flow through type room air cleaners.
Vladimir VECHKANOV, Alexander SAFATOV, Galina BURYAK, Dmitrii TRUBITSYN, Vitalii FOLTS

P2-AT-SS4-005 Simulation of the inertial deposition of the aerosol particles in the fibrous filters considering particle rebounding.
Wei LI, Shengnan SHEN, Hui LI, Sen LIU, Mang CAI, Xiaotie ZHANG

P2-AT-SS4-006 Modeling of submicron particles motion in planar dielectric barrier discharge type electrostatic precipitator.
Ayyoub ZOUAGHI, Noureddine ZOUZOU, Abdelouahab MEKHALDI, Rabah GOURI

P2-AT-SS4-007 Visualization of nanoparticles deposits onto spherical collectors.
Loïc WINGERT, Augustin CHARVET, Stéphanie PACAULT, Charlotte GODOY, Quentin RIBEYRE, Nathalie BARDIN-MONNIER, Dominique THOMAS

P2-AT-SS4-008 Influence of fibrous media heterogeneity on pressure drop and filtration efficiency.
Selven RUNGIAH, Jean-Christophe APPERT-COLLLIN, Philippe VROMAN, Dominique THOMAS

P2-AT-SS4-009 Trickle bed applied to the treatment of blast furnace dust.
Guillemette THIEFFRY, Augustin CHARVET, Nathalie BARDIN-MONNIER, Dominique THOMAS

P2-AT-SS4-010 Multichannel-PDMS-denuders as a tool for SVOC aerosol sampling.
Vesta KOHLMEIER, George DRAGAN, Erwin KARG, Jürgen SCHNELLE-KREIS, Dietmar BREUER, Patricia FORBES, Ralf ZIMMERMANN

P2-AT-SS4-011 Novel application of particulate filters: coupling with a biogas steam reformer reactor.
Souzana LORENTZOU, N. VLACHOS, G. PANTOLEONTOS, . DELOGLOU, E. DASKALOS, A. G. KONSTANDOPOULOS

P2-AT-SS4-012 Nuclear aerosols agglomeration under the effect of intense acoustic fields.
Rosario DELGADO TARDÁGUILA, Luis E. HERRANZ, Manuel ALEIXANDRE, Enrique RIERA

19:00 - 21:00 WELCOME RECEPTION by the Mayor of Tours *CITY HALL*

The Oxility NanoTracer XP™
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VISIT US TODAY EAC 2016

PROGRAMME

WEDNESDAY 07 SEPTEMBER

ATMOSPHERIC AEROSOL STUDIES

AAP: Atmospheric Aerosol Processes

AEROSOL TECHNOLOGY

ABN: Aerosol Based Nanotechnology / **CA:** Combustion Aerosol / **EE:** Electrical Effect

AEROSOL MEASUREMENT TECHNIQUES

INST: Instrumentation/ **PMX:** PMx

AEROSOL AND HEALTH

IND: Indoor and working place aerosol/ **IEH:** Inhalation, Exposures and Health

BASIC AEROSOL PROCESSES

AC: Aerosol Chemistry/ **AM:** Aerosol Modelling/ **FUND:** Fundamentals

Wednesday, September 7

08:00 - 13:00	Registration				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
08:30 - 09:30	**Plenary Lecture 3** **Free nanoparticle studies using synchrotron radiations.** J. Brian A. MITCHELL Chairmen: Christoph ASBACH and Jose L CASTILLO				
09:30 - 10:10	**Awards**				
10:10 - 10:40	Coffee break				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
10:40 - 13:00	**21-AAS-AAP9** **ATMOSPHERIC AEROSOL STUDIES** **SOA - Highly oxidised molecules (HOM) and their role in SOA formation** Chairs: Alexandre ALBINET and Matti RISSANEN	**22-AAS-AAP10** **ATMOSPHERIC AEROSOL STUDIES** **Trends and transport of atmospheric aerosols** Chairs: Roland SCHRÖDNER and Bernadett WEINZIERL	**23-AH-IND1** **INDOOR AND WORKING PLACE AEROSOL** **Indoor aerosols** Chairs: Ian COLBECK and Congrong HE	**24-AMT-INST2** **INSTRUMENTATION** **Techniques for ambient aerosol characterization** Chairs: Markus PESCH and Olivier WITSCHGER	**25-AMT-PMX1** **PMX** **Chemical markers for source apportionment analyses** Chairs: Konstantinos ELEFTHERIADIS and María Cruz MINGUILLÓN
13:00 - 14:30	Lunch & EAA Board Meeting				

Free Afternoon

WEDNESDAY 07 SEPTEMBER

08:00 - 13:00 REGISTRATION *Welcome Desk*

PL3 AEROSOL MEASUREMENT TECHNIQUES

08:30 - 09:30 PLENARY LECTURE 3 *Auditorium Pierre de Ronsard*

FREE NANOPARTICLE STUDIES USING SYNCHROTRON RADIATIONS.

Chairmen: Christoph ASBACH (Duisburg, GERMANY), Jose L CASTILLO (Madrid, SPAIN)

Plenary Speaker: J. Brian A. MITCHELL (Rennes, FRANCE)

09:30 - 10:10 AWARD SESSION AWARD CEREMONY *Auditorium Pierre de Ronsard*

Jean Bricard Price (ASFERA)

SMOLUCHOWSKI Award (GAeF)

International Aerosol Fellow Award (IARA)

10:10 – 10:40 COFFEE BREAK *Exhibition Hall*

21-AAS-AAP9 ATMOSPHERIC AEROSOL STUDIES

10:40 - 13:00 ATMOSPHERIC AEROSOL STUDIES *Auditorium Pierre de Ronsard*

SOA - HIGHLY OXIDISED MOLECULES (HOM) AND THEIR ROLE IN SOA FORMATION

Chairmen: Alexandre ALBINET (Verneuil En Halatte, FRANCE), Matti RISSANEN (Helsinki, FINLAND)

10:40 - 11:00

O21-AAS-AAP-53 Molecular analysis of aerosol compositions in CLOUD chamber experiments using UHPLC-Orbitrap-MS.

Christoph ZUTH, Alexander VOGEL, John NOWAK, Douglas WORSNOP, Jasper KIRKBY, Thorsten HOFFMANN

11:00 - 11:20

O21-AAS-AAP-54 Reactive oxygen species from secondary organic aerosol decomposition in water.

Haijie TONG, Andrea M. ARANGIO, Pascale S. J. LAKEY, Thomas BERKEMEIER, Fobang LIU, Christopher J. KAMPF, William H. BRUNE, Ulrich PÖSCHL, Manabu SHIRAIWA

11:20 - 11:40

O21-AAS-AAP-55 Molecular Characterization of Biogenic SOA using online Extractive Electrospray Ionization Mass Spectrometry: On the fate of condensed phase ELVOC.

Felipe LOPEZ-HILFIKER, Veronika POSPISILOVA, Ugo MOLTENI, Mao XIAO, Josef DOMMEN, Andre PREVOT, Urs BALTENSPERGER, Jay SLOWIK

11:40 - 12:00

O21-AAS-AAP-56 Highly-oxidized multifunctional compounds (HOM) from oxidation of aromatics.

Matti RISSANEN, O. GARMASH, I. PULLINEN, E. KLEIST, J. WILDT, M. LE BRETON, C. J. PERCIVAL, T. F. MENTEL, M. EHN

12:00 - 12:20

O21-AAS-AAP-57 Real-time detection of highly oxidized organosulfates and SOA marker compounds during the F–BEACh 2014 field study.

Martin BRÜGGEMANN, Laurent POULAIN, Andreas HELD, Torsten STELZER, Christoph ZUTH, Stefanie RICHTERS, Anke MUTZEL, Yoshiteru IINUMA, Dominik VAN PINXTEREN, Sarmite KATKEVICA, Réne RABE, Hartmut HERRMANN, Thorsten HOFFMANN

12:20 - 12:40

O21-AAS-AAP-58 Highly oxidized molecule formation and role in new particles formation and growth.

Pontus ROLDIN, E. HERMANSSON, D. MOGENSEN, F. SÖDERBERG, S. SMOLANDER, L. ZHOU, A. RUSANEN, B. K. BAINY, M. RISSANEN, N. KIVEKÄS, R. VÄÄNÄNEN, E. SWIETLICKI, T. KURTÉN, M. EHN, Michael BOY

12:40 - 13:00

O21-AAS-AAP-59 Representation of SOA formation in air quality models: a new parameterization developed on explicit simulations.

Victor LANNUQUE, Marie CAMREDON, Florian COUVIDAT, Yuyi S. LA, Richard VALORSO, Alma HODZIC, Sasha MADRONICH, Bertrand BESSAGNET, Bernard AUMONT

RESERVE PAPER / P2-AAS-AAP-173 Formation of nitrogen-containing low volatile compounds from biogenic carbonyl compounds-amine reactions: A laboratory and field study.

Geoffroy DUPORTE, Jevgeny PARSHINTSEV, Luis M. F. BARREIRA, Kari HARTONEN, Markku KULMALA, Marja-Liisa RIEKKOLA

22-AAS-AAP10 ATMOSPHERIC AEROSOL STUDIES

10:40 - 13:00 ATMOSPHERIC AEROSOL STUDIES *Auditorium Descartes*

TRENDS AND TRANSPORT OF ATMOSPHERIC AEROSOLS

Chairmen: Roland SCHRÖDNER (Lund, SWEDEN), Bernadett WEINZIERL (Vienna, AUSTRIA)

10:40 - 11:00

O22-AAS-AAP-60 PM trends in europe: multi-modal and monitoring assessment.

Svetlana TSYRO, Astrid MANDERS, Augustin COLETTE, Bertrand BESSAGNET, Hilde FAGERLI, Kees CUVELIER, Marta Garcia VIVANCO, Mihaela MIRCEA, Maria-Teresa PAY, Kathleen MAR, Yelva ROUSTAN, Valentin RAFFORT

11:00 - 11:20

O22-AAS-AAP-61 Impact of emissions and boundary conditions on PM levels over Europe as simulated by a multi-model ensemble in frame of AQMEII3.

Ulas IM, Kaj M. HANSEN, Camilla GEELS, Jesper H. CHRISTENSEN, Jørgen BRANDT, Efisio SOLAZZO, Ummugulsum ALYUZ, Alessandra BALZARINI, Rocio BARO, Roberto BELLASIO, Roberto BIANCONI, Johannes BIESER, Augustin COLETTE, Gabriele CURCI, Johannes FLEMMING, Xavier FRANCIS, Andrea FRASER, Pedro JIMENEZ-GUERRERO, Nutthida KITWIROON, Guido PIROVANO, Luca POZZOLI, Marje PRANK, Rebecca A. ROSE, Ranjeet SOKHI, Paulo TUCCELLA, Alper UNAL, Marta GARCIA VIVANCO, Christian HOGREFE, Stefano GALMARINI

11:20 - 11:40

O22-AAS-AAP-62 Top-down aircraft-based measurements of emissions of particles from surface mining facilities in the Alberta oil sands region, Canada.

Shao-Meng LI

11:40 - 12:00

O22-AAS-AAP-64 PM2.5 source apportionment and transport cluster analysis in Gothenburg, Sweden.

Peter MOLNÁR, Lin TANG, Karin SJÖBERG, Janine WICHMANN

12:00 - 12:20

O22-AAS-AAP-65 Vertical measurements of aerosol number concentrations and optical properties and the relation to remote sensing during "Melpitz Column 2015".

Birgit WEHNER, S. DÜSING, T. MÜLLER, H. BAARS, J. CORBIN, M. GYSEL, N. BUKOWIECKI, B. ALTSTÄDTER, A. LAMPERT, H. SIEBERT, Team MELPITZ

12:20 - 12:40

O22-AAS-AAP-66 Driving factors for aerosol decadal variability at a background station of 2180m altitude.

R.k. HOODA, A.-P. HYVÄRINEN, Niku KIVEKÄS, J.-P. PIETIKÄINEN, John BACKMAN, Mika KOMPPULA, Heikki LIHAVAINEN

12:40 - 13:00

RESERVE PAPER / P1-AAS-AAP-121 On the role of topography on the planetary boundary layer influence at high altitude sites.

Martine COLLAUD COEN, Elisabeth ANDREWS

23-AH-IND1 AEROSOL AND HEALTH

10:40 - 13:00 INDOOR AND WORKING PLACE AEROSOL *Room 1 (Level 2)*

INDOOR AEROSOLS

Chairmen: Ian COLBECK (Colchester, UK), Congrong HE (Brisbane, AUSTRALIA)

10:40 - 11:00

O23-AH-IND-01 I/O aerosol characterization in a kindergarten.

Jakub ONDRÁČEK, Nicholas TALBOT, Michael CUSACK, Vladimír ŽDÍMAL, Jaroslav SCHWARZ

11:00 - 11:20

O23-AH-IND-02 Quantifying trace elements in the emitted particulate matter during cooking using an electric stove.

Soudabeh GORJINEZHAD, Aiymgul KERIMRAY, Mehdi AMOUEI TORKMAHALLEH, Melek KELES, Fatma OZTURK, Philip HOPKE

11:20 - 11:40

O23-AH-IND-03 Cooking with condiments an important source of terpenes in indoor environments.

Felix KLEIN, Naomi FARREN, Carlo BOZZETTI, Kaspar DÄLLENBACH, Dogushan KILIC, Nivedita K. KUMAR, Simone M. PIEBER, Jay G. SLOWIK, Rosemary TUTHILL, Jacquelin HAMILTON, Urs BALTENSPERGER, Andre S.h. PRÉVÔT, Imad EL HADDAD

11:40 - 12:00

O23-AH-IND-04 Excluding Non-Occupancy Data Improves Exposure Assessment in Indoor Environments.

Aneta WIERZBICKA, Mats BOHGARD, Joakim PAGELS, Andreas DAHL, Jakob LÖNDAHL, Tareq HUSSEIN, Erik SWIETLICKI

12:00 - 12:20
O23-AH-IND-05 Nearly Zero Energy Buildings and Indoor Exposures to Ambient PM.
Otto HÄNNINEN, Riikka SORJAMAA, Arja ASIKAINEN
12:20 - 12:40
O23-AH-IND-06 Feasibility of combining airborne pollutant measurements with spatially resolved infrared thermography to develop a novel tool for indoor air quality investigations.
Gediminas MAINELIS, Calderon LEONARDO, Nirmala THOMAS, Mengyang GUO, Prarthana RAJA, Maryann SORENSEN-ALLACCI, Deborah PLOTNIK, Jennifer SENICK, Jie GONG, Clinton ANDREWS
12:40 - 13:00
O23-AH-IND-07 Forecasting particulate matter concentrations in an indoor environment.
Rachid OUARET, Anda IONESCU, Viorel PETREHUS, Yves CANDAU, Olivier RAMALHO

RESERVE PAPER / P3-AH-IND-002 The application of the ventilation and air conditioning system to stabilize the air quality parameters in hospital operating rooms.
Tomasz JANKOWSKI, Magda MŁYNARCZYK

24-AMT-INST2 AEROSOL MEASUREMENT TECHNIQUES

10:40 - 13:00 INSTRUMENTATION *Room 2 (Level 2)*

TECHNIQUES FOR AMBIENT AEROSOL CHARACTERIZATION
Chairmen: Markus PESCH (Ainring, GERMANY), Olivier WITSCHGER (Vandoeuvre, FRANCE)

10:40 - 11:00
O24-AMT-INST-08 Optical characterization and deployment of a distributed low-cost wireless particle sensor network.
Jiayu LI, Yang WANG, Pratim BISWAS
11:00 - 11:20
O24-AMT-INST-09 Comparison of three miniaturized aerosol-absorption instruments, under ambient and controlled conditions.
Michael PIKRIDAS, Spyros BEZANTAKOS, Grisa MOČNIK, Christos KELESHIS, Fred BRECHTEL, Eleni LIAKAKOU, Franci BASTARDI, Luka DRINOVEC, Alexandra TSEKERI, Mihalis VREKOUSSIS, George BISKOS, Vasilis AMIRIDIS, Nikolaos MIHALOPOULOS, Jean SCIARE
11:20 - 11:40
O24-AMT-INST-10 Multi-instrument optical closure study: laboratory and field approaches.
Julia PERIM DE FARIA, Ulrich BUNDKE, Thomas MENTEL, Timothy B. ONASCH, Andrew FREEDMAN, Andreas PETZOLD
11:40 - 12:00
O24-AMT-INST-12 Characterization of Atmospheric Ions at the High Alpine Station Jungfraujoch (Switzerland).
Carla FREGE, Federico BIANCHI, Ugo MOLTENI, Heikki JUNNINEN, Tröstl JASMIN, Stephan HENNE, Michel ROSSI, Erik HERRMANN, Mikko SIPILA, Josef DOMMEN, Urs BALTENSPERGER
12:00 - 12:20
O24-AMT-INST-13 Analysis of particulate matter collected on quartz-filters using laser-desorption/ionization-time-of-flight mass spectrometry.
Kaspar R. DAELLENBACH, Imad EL HADDAD, Lassi KARVONEN, Jay Gates SLOWIK, Joel C. CORBIN, Maarten Frans HERINGA, Samuel M. LUEDIN, Valentin PFLUEGER, Guido VOGEL, Urs BALTENSPERGER, André S. H. PRÉVÔT
12:02 - 12:40
O24-AMT-INST-14 Analysis of functional groups in atmospheric aerosols by infrared spectroscopy: ElnetPLS model for statistical selection of relevant absorption bands for OC predictions.
Matteo REGGENTE, Giulia RUGGERI, Adele KUZMIAKOVA, Ann M. DILLNER, Satoshi TAKAHAMA
12:40 - 13:00
RESERVE PAPER / P2-AMT-INST-047 Urban air quality measurements in Finland and China using a PPS-M sensor.
Miikka DAL MASO, Anssi JÄRVINEN, Jian GAO, Heino KUULUVAINEN, Sampo SAARI, Jarkko NIEMI, Liisa PIRJOLA, Kauko JANKA, Jorma KESKINEN

25-AMT-PMX1 AEROSOL MEASUREMENT TECHNIQUES

10:40 - 13:00 PMX *Room 3 (Level 2)*

CHEMICAL MARKERS FOR SOURCE APPORTIONMENT ANALYSES

Chairmen: Konstantinos ELEFTHERIADIS (Attiki, GREECE), María Cruz MINGUILLÓN (Barcelona, SPAIN)

10:40 - 11:00

O25-AMT-PMx-01 Size-segregated long-term chemical analysis and source apportionment of the organic aerosol in the Northern hemisphere using offline aerosol mass spectrometry.

Imad EL HADDAD, Kaspar DAELLENBACH, Carlo BOZZETTI, Athanasia VLACHOU, Jay SLOWIK, Ru-Jin HUANG, Jean-Luc JAFFREZO, Paola FERMO, Josef DOMMEN, Urs BALTENSPERGER, Andre PREVOT

11:00 - 11:20

O25-AMT-PMx-02 A comprehensive source apportionment data analysis for ACSM data.

Francesco CANONACO, Y. SOSEDOVA, K. DÄLLENBACH, J. G. SLOWIK, I. EL HADDAD, Carlo BOZZETTI, U. BALTENSPERGER, A. S. H. PRÉVÔT

11:20 - 11:40

O25-AMT-PMx-03 Source attribution of particulate sulfate concentrations at chosen measurement stations in Europe by the use of the CMAQ chemistry transport model.

Daniel NEUMANN, Volker MATTHIAS, Armin AULINGER, Markus QUANTE, Johannes BIESER

11:40 - 12:00

O25-AMT-PMx-04 Local and external sources of sulfate, primary and secondary organic aerosol and submicron particles at urban sites in New York City and Long Island.

Mauro MASIOL, Philip HOPKE, Dirk FELTON, Brian FRANK, Oliver RATTIGAN

12:00 - 12:20

O25-AMT-PMx-05 Day-night differences in the sources of carbonaceous aerosol determined by 14C measurements at a regional background site.

Dusek ULRIKE, Elise BROEKEMA, Rupert HOLZINGER, Thomas RÖCKMANN, Harro MEIJER

12:20 - 12:40

O25-AMT-PMx-06 Influence of source specific black carbon production and meteorology on spatio-temporal distribution of black carbon concentration in Central-European basin.

Luka DRINOVEC, Asta GREGORIČ, Irena JEŽEK, Rahela ŽABKAR, Jure CEDILNIK, Griša MOČNIK

12:40 - 13:00

O25-AMT-PMx-07 Sources of the PM10 aerosol in Flanders, Belgium, and re-evaluation of the contribution from wood burning.

Willy MAENHAUT, R. VERMEYLEN, M. CLAEYS, J. VERCAUTEREN, E. ROEKENS

RESERVE PAPER / P3-AMT-PMx-004 Comparison of Rochester aerosol sources at two periods of time using combined size distribution and air pollutant data.

Fereshteh EMAMI, Philip HOPKE, David CHALUPA, David RICH

13:00 – 14:30 FREE LUNCH BREAK *Vinci Conference Center*

13:00 - 14:30 EAA BOARD MEETING

NOTES

PROGRAMME

THURSDAY 08 SEPTEMBER

ATMOSPHERIC AEROSOL STUDIES

AAP: Atmospheric Aerosol Processes

AEROSOL TECHNOLOGY

ABN: Aerosol Based Nanotechnology / **CA:** Combustion Aerosol / **EE:** Electrical Effect

AEROSOL MEASUREMENT TECHNIQUES

INST: Instrumentation/ **PMX:** PMx

AEROSOL AND HEALTH

IND: Indoor and working place aerosol/ **IEH:** Inhalation, Exposures and Health

BASIC AEROSOL PROCESSES

AC: Aerosol Chemistry/ **AM:** Aerosol Modelling/ **FUND:** Fundamentals

Thursday, September 8

08:00 - 18:00	Registration				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
08:30 - 09:30	**Plenary Lecture 4** **On theory, modelling and data analysis of atmospheric aerosol formation and growth.** Kari LETHINEN Chairmen: Michael BOY and Martin GYSEL				
09:30 - 09:40	**EAC2017 Launch**				
09:40 - 10:00	Coffee break				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
10:00 - 12:20	**26-AAS-AAP11** ATMOSPHERIC AEROSOL STUDIES **Physical and chemical properties I** Chairs: Rupert HOLZINGER and Jean-Christophe SABROUX	**27-AAS-AAP12** ATMOSPHERIC AEROSOL STUDIES **Urban aerosols and wood burning impacts** Chairs: Gary FULLER and Ulas IM	**28-AH-IEH1** INHALATION EXPOSURE AND HEALTH **Toxic mechanisms and biological responses to aerosol components** Chairs: Otto HÄNNINEN and Ralf ZIMMEREMANN	**29-AMT-INST3** INSTRUMENTATION **Measurement techniques for special applications** Chairs: Attila NAGY and Wladyslaw SZYMANSKI	**30-BAP-SS7** SPECIAL SESSION 7: RESUSPENSION **Aerosol resuspension by airflow** Chairs: François GENSDARMES and Ana VIDALES
12:20 - 13:50	Lunch & EAA working group Chairs Meeting				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
13:50 - 16:10	**31-AAS-AAP13** ATMOSPHERIC AEROSOL STUDIES **Physical and chemical properties II** Chairs: Andre PRÉVÔT and Sabine WURZLER	**32-AAS-AAP14** ATMOSPHERIC AEROSOL STUDIES **SOA - formation and transformation processes** Chairs: Andreas HELD and Sebastian Harald SCHMITT	**33-IEH2-SS8** SPECIAL SESSION 8: INHALATION EXPOSURE AND HEALTH **Aerosol exposures for toxicological and therapeutic studies** Chairs: Arkadiusz KUCZAJ and Otmar SCHMID	**34-AMT-INST4** INSTRUMENTATION **Calibration and advancements of existing techniques** Chairs: Oliver BISCHOF and François-Xavier OUF	**35-BAP-AC1** AEROSOL CHEMISTRY **Biogenic Secondary Organic Aerosol** Chairs: Claudia MOHR and Satoshi TAKAHAMA
16:10 - 16:40	Coffee break				
16:10 - 18:10	**Poster session 3 - Authors' presentations - POSTER AREA**				
18:30 - 19:00	**Bus departure**				
19:00 - 23:00	**Conference Dinner "La Grange de Meslay"**				

THURSDAY 08 SEPTEMBER

08:00 - 18:00 REGISTRATION *Welcome Desk*

PL4 **BASIC AEROSOL PROCESSES**

08:30 - 09:30 PLENARY LECTURE 4 *Auditorium Pierre de Ronsard*

ON THEORY, MODELLING AND DATA ANALYSIS OF ATMOSPHERIC AEROSOL FORMATION AND GROWTH.

Chairmen: Michael BOY (Helsinki, FINLAND), Martin GYSEL (Villigen Psi, SWITZERLAND)

Plenary Speaker: Kari LETHINEN (Kuopio, FINLAND)

09:30 - 09:40 EAC2017 LAUNCH *Auditorium Pierre de Ronsard*

09:40 - 10:00 COFFEE BREAK *Exhibition Hall*

26-AAS-AAP11 **ATMOSPHERIC AEROSOL STUDIES**

10:00 - 12:20 ATMOSPHERIC AEROSOL STUDIES *Auditorium Pierre de Ronsard*

PHYSICAL AND CHEMICAL PROPERTIES I

Chairmen: Rupert HOLZINGER (Utrecht, THE NETHERLANDS), Jean-Christophe SABROUX (Saclay, FRANCE)

10:00 - 10:20

O26-AAS-AAP-67 Characterization of organic low-, semi-, intermediate- and volatile organic compounds from four-stroke ship engine emissions: implications for atmospheric processing.

Simone PIEBER, Zhao YUNLIANG, Jürgen ORASCHE, Benjamin STENGEL, Hendryk CZECH, Joel C. CORBIN, Imad EL HADDAD, Felix KLEIN, Dogushan KILIC, Jay G. SLOWIK, Neil DONAHUE, Allen ROBINSON, Ralf ZIMMERMANN, Urs BALTENSPERGER, André S. H. PRÉVÔT

10:20 - 10:40

O26-AAS-AAP-68 Refinement of gas-particle equilibrium partitioning: Detailed SOA composition, viscosity and diffusion measurements.

Kelly PEREIRA, Jacqui HAMILTON, Allen HADDRELL, Richard LIDSTER, Young SONG, David TOPPING, Jonathan REID

10:40 - 11:00

O26-AAS-AAP-69 Investigating Organic Nitrogen Chemistry in Atmospheric Particles using High Resolution Aerosol Mass Spectrometry.

Qi ZHANG, Xinlei GE, Yele SUN, Shan ZHOU

11:00 - 11:20

O26-AAS-AAP-70 Glass forming aerosol systems – precursors, processes and glassy products.

Hans Peter DETTE, T. KOOP, J. LESSMEIER, M. QI, A. GODT

11:20 - 11:40

O26-AAS-AAP-71 Quantification of stable radicals and reactive oxygen species in atmospheric aerosols by Electron Paramagnetic Resonance spectroscopy.

Andrea ARANGIO, H. TONG, U. PÖSCHL, M. SHIRAIWA

11:40 - 12:00

O26-AAS-AAP-72 Characteristics and formation mechanism of severe autumn hazes in Beijing.

Tao MA, Hiroshi FURUTANI, Kouki MAEDA, Michisato TOYODA, Fengkui DUAN, Kebin HE, Takashi KIMOTO

12:00 - 12:20

O26-AAS-AAP-73 Formation of secondary organic aerosols from biogenic precursors: A case study over an Isoprene emitting forest.

Evelyn FRENEY, Karine SELLEGRI, Regis DUPUY, Kouji ADACHI, Agnes BORBON, Aurelie COLOMB, Corinne JAMBERT, Laeticia BOUVIER

RESERVE PAPER / P1-AAS-AAP-057 Chemical and stable carbon isotope composition, sources and chemical processing of fine aerosol at urban, coastal and forest background sites.

Agne MASALAITE, Rupert HOLZINGER, Vidmantas REMEIKIS, Thomas RÖCKMANN, Ulrike DUSEK

27-AAS-AAP12 ATMOSPHERIC AEROSOL STUDIES

10:00 - 12:20 ATMOSPHERIC AEROSOL STUDIES *Auditorium Descartes*

URBAN AEROSOLS AND WOOD BURNING IMPACTS

Chairmen: Gary FULLER (London, UK), Ulas IM (Roskilde, DENMARK)

10:00 - 10:20

O27-AAS-AAP-74 Multi-year long investigation of atmospheric nucleation in urban environments.

Németh ZOLTÁN, Imre SALMA

10:20 - 10:40

O27-AAS-AAP-75 Size-segregated particle turbulent fluxes measurements in an urban area in Italy.

Marianna CONTE, Antonio DONATEO, Fabio Massimo GRASSO, Daniele CONTINI

10:40 - 11:00

O27-AAS-AAP-76 Volatility of urban background ultrafine atmospheric aerosol particles in Athens, Greece.

Luís MENDES, Maria GINI, George BISKOS, Konstantinos ELEFTHERIADIS

11:00 - 11:20

O27-AAS-AAP-77 Spatially and temporally detailed indoor and outdoor woodsmoke detection.

Nadezda ZIKOVA, Philip HOPKE, David CHALUPA, David RICH, Andrea FERRO

11:20 - 11:40

O27-AAS-AAP-78 Community observation networks for woodsmoke: Rangiora 2015 pilot study.

Ian LONGLEY, Guy COULSON, Sam EDWARDS, Gustavo OLIVARES, Elizabeth SOMERVELL, Sally GRAY

11:40 - 12:00

O27-AAS-AAP-79 Biomass burning influence in the urban environment of southern Spain.

María Cruz MINGUILLÓN, Juan Andrés CASQUERO-VERA, Gloria TITOS, Hassan LYAMANI, Lucas ALADOS-ARBOLEDAS, Francisco José OLMO, Xavier QUEROL, Andrés ALASTUEY

12:00 - 12:20

O27-AAS-AAP-80 Large-scale intensive study of light absorption by urban aerosol in the Athens Metropolitan Area.

Athina-Cerise KALOGRIDIS, Prodromos FEFTATZIS, Maria GINI, Stergios VRATOLIS, Joel C. CORBIN, Martin GYSEL, Eleni LIAKAKOU, Nicolaos MIHALOPOULOS, Konstantinos ELEFTHERIADIS

RESERVE PAPER / P2-AAS-AAP-214 Residential heating as main cause of urban air pollution; case study from the Czech Republic.

Miroslav KLAN, Cecilia LEONI, Jan HOVORKA, Jan BENDL

28-AH-IEH1 AEROSOL AND HEALTH

10:00 - 12:20 INHALATION EXPOSURE AND HEALTH *Room 1 (Level 2)*

TOXIC MECHANISMS AND BIOLOGICAL RESPONSES TO AEROSOL COMPONENTS

Chairmen: Otto HÄNNINEN (Helsinki, FINLAND), Ralf ZIMMEREMANN (Rostock, GERMANY)

10:00 - 10:20

O28-AH-IEH-01 PM pollution : taking into account of bioaccessibility into acellular assays for health impact assessment.

Aude CALAS, Aude CALAS, Gaëlle UZU, Stephan HOUDIER, Jean MARTINS, Jean-Luc JAFFREZO

10:20 - 10:40

O28-AH-IEH-02 PM pollution : Oxidative Potential of PM10 in the Arve Valley (France) - comparison of two different assays measurement.

Gaëlle UZU, Gaëlle UZU, Aude CALAS, Ana OLIETE, Christina DUNSTER, Frank KELLY, Jean MARTINS, Jean-Luc JAFFREZO

10:40 - 11:00

O28-AH-IEH-03 Evaluating the toxicity of airborne particulate by measuring oxidative potential with spectrophotometric a-cellular assays.

Marco VISENTIN, Antonella PAGNONI, Maria Chiara PIETROGRANDE

11:00 - 11:20

O28-AH-IEH-04 Reactive oxygen species: links between particle chemical composition, emission sources and oxidation reactivity.

Jun ZHOU, Emily Anne BRUNS, Peter ZOTTER, Roman FRÖHLICH, Stefenelli GIULIA, Manuel KRAPF, Wang QIYUAN, Miriam ELSER, Deepika BHATTU, Rujin HUANG, Slowik JAY GATES, Cao JUNJI, Nussbaumer THOMAS, Geiser MARIANNE, Urs BALTENSPERGER, Andre PREVOT, Imad HADDAD, Josef DOMMEN

11:20 - 11:40

O28-AH-IEH-05 Comparative analysis of the toxic responses of organic extracts from diesel/biodiesel engine emissions in human lung BEAS-2B cells.

Helena LIBALOVA, Kristyna VRBOVA, Tana BRZICOVA, Jitka STOLCPARTOVA, Michal VOJTISEK-LOM, Vit BERANEK, Miroslav CIGANEK, Jiri NECA, Miroslav MACHALA, Jan TOPINKA

11:40 - 12:00

O28-AH-IEH-06 Studying the biological effects of combustion aerosols on air/liquid-interface exposed human and murine lung cells within the HICE-project: Composition and molecular biological effects of emissions from wood combustion, ship emissions and car engines.

Ralf ZIMMERMANN, T. G. DITTMAR, T. KANASHOVA, J. BUTERS, S. ÖDER, H. PAUR, C. SCHLAGER, S. MÜLHOPT, M. DILGER, C. WEIß, S. DIABATE, H. HARNDORF, B. STENGEL, R. RABE, K. HILLER, S. C. SAPCCARIU, K. A. BERUBE, A. J. WLODARCYZK, B. MICHALKE, T. KREBS, M. KELBG, J. TIGGESBÄUMKER, T. STREIBEL, E. KARG, S. SCHOLTES, J. SCHNELLE-KREIS, J. LINTELMANN, M. SKLORZ, M. ARTEAGA SALAS, S. KLINGBEIL, J. ORASCHE, P. RICHTHAMMER, L. MÜLLER, A. RHEDA, J. PASSIG, T. GRÖGER, G. ABBASZADE, C. RADISCHAT, S. SMITA, T. TORVELA, P. TIITTA, M. KORTELAINEN, H. LAMBERG, J. TISSARI, A. LESKINEN, P. JALAVA, M. R. HIRVONEN, S. KASURINEN, O. SIPPULA, J. JOKINIEMI

12:00 - 12:20

O28-AH-IEH-07 Correlations between the toxicity and optical properties of atmospheric aerosol measured by self-developed photoacoustic and supplementary instrumentation.

Noémi UTRY, Máté PINTÉR, Tibor AJTAI, Gergely KISS-ALBERT, Andrea PALÁGYI , László MANCZINGER, Csaba VÁGVÖLGYI, Kornélia IMRE, Beatrix JANCSEK-TÚRÓCZI, András GELENCSÉR, Gábor SZABÓ, Zoltán BOZÓKI

RESERVE PAPER / P3-AH-IEH-013 Effect of airborne particulate matter on oxidative stress, pro-inflammatory response and intracellular calcium signaling in pulmonary artery endothelial cells.

Juliette DEWEIRDT, C. GUIBERT, M.B. CROBEDDU, J. SCIARE, A. BAEZA-SQUIBAN, J.Pp. SAVINEAU, B. MULLER, J.F. QUIGNARD, Isabelle BAUDRIMONT

29-AMT-INST3 AEROSOL MEASUREMENT TECHNIQUES

10:00 - 12:20 INSTRUMENTATION *Room 2 (Level 2)*

MEASUREMENT TECHNIQUES FOR SPECIAL APPLICATIONS

Chairmen: Attila NAGY (Budapest, HUNGARY), Wladyslaw SZYMANSKI (Vienna, AUSTRIA)

10:00 - 10:20

O29-AMT-INST-15 Time resolved measurement of the size distribution of pharmaceutical aerosols under realistic respiratory conditions.

Attila NAGY, Attila KEREKES, Aladár CZITROVSZKY

10:20 - 10:40

O29-AMT-INST-16 Effect of exhaust oxygen concentration on the performance of a catalytic stripper.

Jacob SWANSON, Hans-Joachim SCHULZ, Adam BOIES

10:40 - 11:00

O29-AMT-INST-17 Reliable detection of volcanic ash with dual-wavelength light scattering.

Ernest WEINGARTNER, Zsofia JURANYI, Heinz BURTSCHER

11:00 - 11:20

O29-AMT-INST-18 Advances in Detection of Volcanic Ash from Commercial Aircraft.

Darrel BAUMGARDNER, Alexis ATWOOD, Matt FREER, Konradin WEBER, Andreas VOGEL, Tobias POHL

11:20 - 11:40

O29-AMT-INST-19 Direct surface tension and viscosity measurements of aqueous-organic aerosol droplets from particle coalescence measurements.

Reid JONATHAN, Bryan BZDEK, Rachael MILES, Allen HADDRELL, A. Donald HALL

11:40 - 12:00

O29-AMT-INST-20 Characterization of optically-trapped submicron aerosol particles by ultraviolet broadband light scattering.

Kıvanç ESAT, Grégory DAVID, Irina RITSCH, Ruth SIGNORELL

12:00 - 12:20

O29-AMT-INST-21 Photoacoustic investigations on single optically levitated aerosol droplets.

Christoph HAISCH, Johannes W. CREMER, Thaler KLEMENS, Ruth SIGNORELL

RESERVE PAPER / P2-AMT-INST-004 A novel probe to investigate corrosion relevant particles in boilers of waste incineration plants.

Stefan SCHUMACHER, Jörg LINDERMANN, Burkhard STAHLMECKE, Dirk JARZYNA, Amit KHOT, Thomas ZEINER, Till VAN DER ZWAAG, Hermann NORDSIECK, Ragnar WARNECKE, Christof ASBACH

30-BAP-SS7 BASIC AEROSOL PROCESSES

10:00 - 12:20 SPECIAL SESSION 7: RESUSPENSION *Room 3 (Level 2)*

AEROSOL RESUSPENSION BY AIRFLOW

Chairmen: François GENSDARMES (Saclay, FRANCE), Ana VIDALES (San Luis, ARGENTINA)

10:00 - 10:40 [Keynote Lecture]

030-BAP-SS7-01 The development and application of kinetic models for the resuspension of small particles in turbulent boundary layers.
Michael W REEKS

10:40 - 11:00

030-BAP-SS7-02 A stochastic approach for multilayer deposition and resuspension in turbulent flows.
Jean-Pierre MINIER, Christophe HENRY

11:00 - 11:20

030-BAP-SS7-03 Capability of the Monte Carlo method to simulate resuspension phenomena.
Jesica Gisele BENITO, Ana María VIDALES, Rodolfo Omar UÑAC, Karina VALENZUELA ARACENA, Irene IPPOLITO

11:20 - 11:40

030-BAP-SS7-04 Experimental data on particles re-suspension and adhesion forces for refining a re suspension model – Application to the dust issue in ITER fusion tokamak.
Anthony RONDEAU, Audrey ROYNETTE, Jean-Christophe SABROUX, François GENSDARMES, Eric CHASSEFIÈRE

11:40 - 12:00

030-BAP-SS7-05 Local experimental study of microparticles resuspension mechanisms in ventilated duct under accelerated flow.
Debba DJIHAD, Debba DJIHAD, Theron FÉLICIE, Camille SOLLIEC, Le-Coq LAURENCE

12:00 - 12:20

030-BAP-SS7-06 Fire-induced airborne release of radioactive particles: development and validation of a phenomenological model.
Ouf FX, Simon DELCOUR, Mickael PATRY, François SALM, Nathalie AZEMA, Laurent FERRY, José-Marie LOPEZ-CUESTA

RESERVE PAPER / P3-BAP-SS7-001 Role of particle size and surface roughness on intermolecular interactions during particle resuspension from a turbulent flow.
Sofia Eirini CHATOUTSIDOU, Yannis DROSSINOS, Mihalis LAZARIDIS

12:20 - 13:50 EAA WORKING GROUP CHAIRS MEETING

12:20 – 13:50 FREE LUNCH BREAK *Vinci Conference Center*

31-AAS-AAP13 ATMOSPHERIC AEROSOL STUDIES

13:50 - 16:10 ATMOSPHERIC AEROSOL STUDIES *Auditorium Pierre de Ronsard*

PHYSICAL AND CHEMICAL PROPERTIES II

Chairmen: Andre PRÉVÔT (Villigen, SWITZERLAND), Sabine WURZLER (Essen, GERMANY)

13:50 - 14:10

031-AAS-AAP-81 Aerosol physical and chemical properties in the several sites of the GoAmazon 2014/15 Experiment: From biogenic to urban air pollution.
Paulo ARTAXO, Henrique BARBOSA, Joel F. BRITO, Samara CARBONE, Scot MARTIN, M. O. ANDREAE

14:10 - 14:30

031-AAS-AAP-82 Low-level reference size distributions of 137Cs and naturally occurring radionuclides at a low dusty rural site, France.
Olivier MASSON, Franck GINER, Pascal PAULAT, Anne DE VISMES-OTT

14:30 - 14:50

031-AAS-AAP-83 A preliminary research of pollution characteristics and health risk Assessment of typical heavy metal in PM2.5 in 24 Chinese cities.
Zhang WENJIE, Xie CHEN, Bai ZHIPENG , Yang WEN, Wang WAN, Zhao XUEYAN

14:50 - 15:10

031-AAS-AAP-84 Aerosol physical-chemical properties in Southern West Africa: Recent findings using the SAFIRE ATR42 aircraft within the DACCIWA project.
Joel BRITO, Evelyn FRENEY, Sellegri KARINE, Borbon AGNES, Colomb AURÉLIE , Régis DUPUY , Schwarzenboeck ALFONS

15:10 - 15:30

O31-AAS-AAP-85 Toxic semivolatile substances (PAHs, their nitro and oxy derivatives, brominated flame retardants) in ambient particulate matter in the inner tropics, India: Gas-particle parti-tioning and wash-out by monsoon rains.

Gerhard LAMMEL, Pourya SHAHPOURY, Sachin GUNTHE, Ondrej AUDY, Jiri KOHOUTEK, Petr KUKUCKA, Akila MUTHALAGU

15:30 - 15:50

O31-AAS-AAP-86 Insights into the seasonal variations, meteorological effects, and source characteristics of aerosol particle composition in Yangtze River Delta (YRD) region, China.

Lili TANG, Hongxia YU, Y. J. ZHANG, A. J. DING

15:50 - 16:10

O31-AAS-AAP-87 5-year continuous on-line monitoring of the submicron aerosol chemical composition at the SIRTA-LSCE ACTRIS supersite (Paris area, France).

Yunjiang ZHANG, Olivier FAVEZ, Valerie GROS, Jean-E. PETIT, Francois TRUONG, Tanguy AMODEO, Vincent CRENN, Albinet ALEXANDRE, Sciare JEAN

RESERVE PAPER / P1-AAS-AAP-090 The intense PM pollution episode in France during March 2015: multi-site approach and near real time data.

Jean-Eudes PETIT, Olivier FAVEZ, Tanguy AMODEO, Frederik MELEUX, Bertrand BESSAGNET, Laurent MENUT, Didier GRENIER, Benoit ROCQ, Valérie GROS, Jean SCIARE

32-AAS-AAP14 ATMOSPHERIC AEROSOL STUDIES

13:50 - 16:10 ATMOSPHERIC AEROSOL STUDIES *Auditorium Descartes*

SOA - FORMATION AND TRANSFORMATION PROCESSES

Chairmen: Andreas HELD (Bayreuth, GERMANY), Sebastian Harald SCHMITT (Juelich, GERMANY)

13:50 - 14:10

O32-AAS-AAP-88 The effect of pine weevils on VOC emissions from scots pine saplings.

Eetu KARI, Celia FAIOLA, Angela BUCHHOLZ, Kristiina KINNUNEN, Aishat AYELOTAN, Minna KIVIMÄENPÄÄ, Pasi YLI-PIRILÄ, Jarmo K. HOLOPAINEN, Annele VIRTANEN

14:10 - 14:30

O32-AAS-AAP-89 Linking In-Canopy Volatile Organic Compound Reactivity to Nocturnal New Particle Formation.

Julien KAMMER, Pierre-Marie FLAUD, Jean-Marc BONNEFOND, Didier GARRIGOU, Emilie PERRAUDIN, Eric LAMAUD, Eric VILLENAVE

14:30 - 14:50

O32-AAS-AAP-90 Aging of a-pinene first-generation ozonolysis products formed under low- and high-NOx conditions.

Ningxin WANG, Evangelia KOSTENIDOU, Neil DONAHUE, Spyros PANDIS

14:50 - 15:10

O32-AAS-AAP-91 Distinguishing different sources of organic aerosol in the particulate phase by application of deuterated precursors in chamber studies.

Sebastian Harald SCHMITT, Birger BOHN, Hendrik FUCHS, Anna NOVELLI, Thorsten HOHAUS, Martin KAMINSKI, Franz ROHRER, Ralf TILLMANN, Robert WEGENER, Zhujun YU, Defeng ZHAO, Andreas WAHNER, Astrid KIENDLER-SCHARR

15:10 - 15:30

O32-AAS-AAP-92 Insights into fossil vs. non-fossil SOA from online TOT-14C analysis.

Soenke SZIDAT, Konstantinos AGRIOS, Gary SALAZAR

15:30 - 15:50

O32-AAS-AAP-93 SOA production from isoprene ozonolysis at low and high RH.

Claudia FUCHS, Hoyle CHRISTOPHER ROBERT, Joel C. CORBIN, Andrea C. WAGNER, Mario SIMON, Alexander VOGEL, Martin HEINRITZI, Anne-Kathrin BERNHAMMER, Martin BREITENLECHNER , Josef DOMMEN, Martin GYSEL, Urs BALTENSPERGER

15:50 - 16:10

O32-AAS-AAP-94 Explicit modeling of SOA formation during smog chamber experiments: impact of the competition between gas/wall and gas/particle partitioning.

Yuyi S. LA, Marie CAMREDON, Paul J. ZIEMANN, Richard VALORSO, Aiko MATSUNAGA, Victor LANNUQUE, Julia LEE-TAYLOR, Alma HODZIC, Sasha MADRONICH, Bernard AUMONT

RESERVE PAPER / P2-AAS-AAP-184 High-NOx photooxidation of n-dodecane: Influence of temperature and relative humidity on secondary organic aerosol formation.

Houssni LAMKADDAM, Aline GRATIEN, Edouard PANGUI, Mathieu CAZAUNAU, Marc DAVID, Jean-Michel POLIENOR, Cécile GAIMOZ, Bénédicte PICQUET-VARAULT, Jean-François DOUSSIN

33-AH-SS8 AEROSOL AND HEALTH

13:50 - 16:10 SPECIAL SESSION 8: INHALATION EXPOSURE AND HEALTH *Room 1 (Level 2)*

AEROSOL EXPOSURES FOR TOXICOLOGICAL AND THERAPEUTIC STUDIES

Chairmen: Arkadiusz KUCZAJ (Neuchâtel, SWITZERLAND), Otmar SCHMID (Neuherberg/munich, GERMANY)

13:50 - 14:10

033-AH-SS8-01 Dosimetry tools, approaches and applications for tobacco and next generation product testing.

David THORNE, Marianna GACA, John MCAUGHEY, Jason ADAMSON

14:10 - 14:30

033-AH-SS8-02 In-vitro characterization of failure related emissions of small batteries.

Detlef RITTER, Wolfgang KOCH, Annette BITSCH

14:30 - 14:50

033-AH-SS8-03 An effective inhalation system for preclinical pulmonary drug delivery in mice.

Winfried MÖLLER, Andreas STELZL, Isabel HERRMANN, Gunter EDER, Oliver EICKELBERG, Otmar SCHMID

14:50 - 15:10

033-AH-SS8-04 Experimental model to investigate aerosol drug delivery and pharmacokinetics in pulmonary medicine.

Antoine GUILLON, P. LHOMMET, J. PARDESSUS, C. BOIXEL, J. MONTHARU, V. SCHUBNEL, R. H. BLANCHARD, C. BATTUT, F. PERROT, D. MARCHAND, B. PLANTE, C. AUBERT, G. ROSEAU, F. PATIN, R. RESPAUD, C. PARENT, L. BERNARD, A. DUDZICKI, E. GUILLOT, M. DE MONTE, P. JANIAK, Nathalie HEUZÉ-VOURC'H

15:10 - 15:30

033-AH-SS8-05 Aerosols and their considerations in different regulations.

Annette BITSCH, Detlef RITTER , Wolfgang KOCH

15:30 - 15:50

033-AH-SS8-06 Eulerian modeling of polydisperse aerosol deposition in a realistic cast of the human upper respiratory tract. Edo

FREDERIX, Arkadiusz KUCZAJ, Markus NORDLUND, Bernard GEURTS

15:50 - 16:10

033-AH-SS8-07 A model for assessment of alveolar dimensions from recovery of inhaled nanoparticles.

Jakob LÖNDAHL, Jonas JAKOBSSON, David M. BRODAY, H. Laura AALTONEN, Per WOLLMER

RESERVE PAPER / P3-AH-SS8-013 Is there any synergy in the observed health effects due to exposure to particles and noise? Results from DINO study - controlled chamber exposure.

Aneta WIERZBICKA, Maria ALBIN, Mats BOHGARD, Axel ERIKSSON, Inger HAGERMAN, Christina ISAXON, Patrik NILSSON, Joakim PAGELS, Jenny RISSLER, Yiyi XU, Anders GUDMUNDSSON

34-AMT-INST4 AEROSOL MEASUREMENT TECHNIQUES

13:50 - 16:10 INSTRUMENTATION *Room 2 (Level 2)*

CALIBRATION AND ADVANCEMENTS OF EXISTING TECHNIQUES

Chairmen: Oliver BISCHOF (Aachen, GERMANY), François-Xavier OUF (Saclay, FRANCE)

13:50 - 14:10

034-AMT-INST-22 Characterization and development of a fast mixing type particle counter.

Joonas ENROTH, Juha KANGASLUOMA, Frans KORHONEN, Markku KULMALA, Michel ATTOUI, Tuukka PETÄJÄ

14:10 - 14:30

034-AMT-INST-23 Working-fluid dependent response of ultrafine condensation particle counters to biogenic nanoparticles.

Andrea OJDANIC, Dominik STOLZENBURG, Paulus BAUER, Paul WINKLER

14:30 - 14:50

034-AMT-INST-24 Intercomparison of Condensation Particle Counters challenged by steady-state airborne DEHS particles produced in a "calibration tool" setup.

Sébastien BAU, André TOUSSAINT, Raphaël PAYET, Olivier WITSCHGER

14:50 - 15:10

034-AMT-INST-25 Detection near 1-nm with a laminar-flow, water-based condensation particle counter.

Susanne HERING, Gregory LEWIS, Steven SPEILMAN, Arantzazu EIGUREN-FERNANDEZ, Nathan KREISBERG, Chongai KUANG, Michel ATTOUI

15:10 - 15:30
O34-AMT-INST-26 Development of an Online Extractive Electrospray Ionization Time of Flight Mass Spectrometer (EESI-TOF): Application to Atmospheric Aerosol.
Felipe LOPEZ-HILFIKER, Veronika POSPISILOVA, Josef DOMMEN, Andre PREVOT, Urs BALTENSPERGER, Jay SLOWIK
15:30 - 15:50
O34-AMT-INST-28 Aerosol concentration calibration method for particle sizes from 1 to 8 microns.
Jay EVERSOLE, Vasanthi SIVAPRAKASAM, John TUCKER, David SILCOTT, Jesse LINNELL, Frank MACDONALD, Miles OWEN
15:50 - 16:10
RESERVE PAPER / P2-AMT-INST-025 Comparison of different techniques for aerosol surface area size distribution measurements: CEPI, ELPI and SMPS.
Maria GINI, Luis MENDES, Konstantinos ELEFTHERIADIS

35-BAP-AC1 BASIC AEROSOL PROCESSES

13:50 - 16:10 AEROSOL CHEMISTRY *Room 3 (Level 2)*

BIOGENIC SECONDARY ORGANIC AEROSOL

Chairmen: Claudia MOHR (Eggenstein-Leopoldshafen, GERMANY), Satoshi TAKAHAMA (Lausanne, SWITZERLAND)

13:50 - 14:10
O35-BAP-AC-01 Characteristics of peroxides in secondary organic aerosols.
Josef DOMMEN, Manuel KRAPF, Imad EL HADDAD, Emily A. BRUNS, Ugo MOLTENI, Kaspar R. DAELLENBACH, Andre S.h. PRÉVÔT, Urs BALTENSPERGER
14:10 - 14:30
O35-BAP-AC-02 High resolution mass spectrometry characterisation of peroxycarboxylic acids as ROS and ELVOC proxies.
Sarah STEIMER, Ivan KOURTCHEV, Markus KALBERER
14:30 - 14:50
O35-BAP-AC-03 Gas and particle phase characterization of limonene ozonolysis products and their role in SOA formation.
Julia HAMMES, Cameron FAXON, Anna LUTZ, Ravi Kant PATHAK, Thomas MENTEL, Mattias HALLQUIST
14:50 - 15:10
O35-BAP-AC-04 Particle phase composition of low-NOx isoprene SOA: Effect of seed acidity and relative humidity.
Janine SCHINDELKA, Yoshiteru IINUMA, Anke MUTZEL, Hartmut HERRMANN
15:10 - 15:30
O35-BAP-AC-05 Chemistry, morphology, and cloud activation: Chemical composition measurements of α-pinene SOA at low temperatures with a FIGAERO-CIMS.
Claudia MOHR, Harald SAATHOFF, Aki PAJUNOJA, Annele VIRTANEN, Robert WAGNER, Wei HUANG
15:30 - 15:50
O35-BAP-AC-06 Effects of inorganic salt aerosol on the oxidation state of secondary organic aerosols — α-pinene ozonolysis.
Dandan HUANG, Xuan ZHANG, John SEINFELD, Chak CHAN
15:50 - 16:10
O35-BAP-AC-07 Volatility distribution and viscosity effects in evaporation of a-pinene SOA.
Taina YLI-JUUTI, Aki PAJUNOJA, Celia FAIOLA, Olli-Pekka TIKKANEN, Angela BUCHHOLZ, Olli VÄISÄNEN, Eetu KARI, Liqing HAO, Otso PERÄKYLÄ, Olga GARMASH, Mikael EHN, Manabu SHIRAIWA, Kari LEHTINEN, Annele VIRTANEN

RESERVE PAPER / P3-BAP-AC-019 Modelling the interaction of semi-volatile organic compounds with multiphase aerosol particles using polyparameter linear free energy relationships.
Pourya SHAHPOURY, Sophie TOMAZ, Emilie PERRAUDIN, Eric VILLENAVE, Alexandre ALBINET, Zoran KITANOVSKI, Gerhard LAMMEL

16:10 - 16:40 COFFEE BREAK *Exhibition Hall*

P3-AMT-PMx AEROSOL MEASUREMENT TECHNIQUES

16:10 - 18:10 POSTER SESSION *Poster area*

SOURCE APPORTIONMENT AND DATA INTERPRETATION, ANALYSIS AND SAMPLING

P3-AMT-PMx-002 The error in PM measurements caused by water vapour adsorption of the filter material.
Gyula KISS, Kornélia IMRE, Ágnes MOLNÁR, Ádám TÓTH

P3-AMT-PMx-003 Particle loss and loaded particle mass effects on the collection efficiency of the Well Impactor Ninety-Six PM2.5 sampling inlet.
Cuc LE, Chuen-Jinn TSAI

P3-AMT-PMx-004 Comparison of Rochester aerosol sources at two periods of time using combined size distribution and air pollutant data.
Fereshteh EMAMI, Philip HOPKE, David CHALUPA, David RICH

P3-AMT-PMx-005 GAW global site Hohenpeißenberg –how has the aerosol load changed over the years?
Johanna ESSER-GIETL, Michael ELSASSER, Harald FLENTJE, Adele HENKE, Werner THOMAS

P3-AMT-PMx-006 Receptor modelling for multiple time resolved species: European air pollution hot spot.
Petra POKORNA, Jan HOVORKA, Jan TOPINKA, Yongjing ZHAO, Philip HOPKE

P3-AMT-PMx-007 Characterization of atmospheric pm2.5 in southern taiwan.
Chong-Yu TSENG, Sheng-Lun LIN, Wen-Jhy LEE, John MWANGI

P3-AMT-PMx-008 Characterization of atmospheric pm2.5 in southern taiwan.
Chong-Yu TSENG, Sheng-Lun LIN, Wen-Jhy LEE, John MWANGI

P3-AMT-PMx-009 High-resolution sampling, analysis and source apportionment of particulate matter at Woolston, Christchurch, New Zealand.
Perry DAVY, Vincent SALOMON, William TROMPETTER, Travis ANCELET

P3-AMT-PMx-010 Chemical characterization of submicron organic aerosol sources in Po Valley by advanced spectroscopic techniques.
Marco PAGLIONE, Stefania GILARDONI, Stefano DECESARI, Nicola ZANCA, Matteo RINALDI, Silvia SANDRINI, Lara GIULIANELLI, Silvia FERRARI, Vanes POLUZZI, Maria Cristina FACCHINI, Sandro FUZZI

P3-AMT-PMx-011 Source apportionment in a complex environment by developed Positive Matrix Factorization: advantages and limitations.
Florie CHEVRIER, Irena JEŽEK, Grisa MOČNIK, Guillaume BRULFERT, Jean-Luc JAFFREZO, Jean-Luc BESOMBES

P3-AMT-PMx-012 The influence of meteorology of indoor PM2.5 concentration: application of advanced modelling techniques.
Luiz FALCÃO, Samuel CLIFFORD, Mandana MAZAHERI, David BRODAY, Lidia MORAWSKA

P3-AMT-PMx-013 Identification of the main sources of PM10 impacting the north of France: a comprehensive source apportionment study with PMF5 at five sampling sites.
Diogo OLIVEIRA, Veronique RIFFAULT, Esperanza PERDRIX, Stephane SAUVAGE, Olivier FAVEZ

P3-AMT-PMx-014 Estimation of major source of organic compounds in the ambient aerosols over Seoul.
Sang Hee HAN, Yong Pyo KIM, Ji Yi LEE

P3-AMT-PMx-015 Trends of PM source contributions and chemical tracers in NE Spain during 2004 - 2014: A multi-exponential approach.
Marco PANDOLFI, Andrés ALASTUEY, Noemi PÉREZ, Cristina RECHE, Iria CASTRO, Victor SHATALOV, Xavier QUEROL

P3-AMT-PMx-016 Three-way Positive Matrix Factorization analysis of PM10 in Brisbane, Australia.
Godwin AYOKO, Rohan JAYARATNE, Sandya MUMMULLAGE

P3-AMT-PMx-017 Estimation of the aerosols sources in a high polluted metropolitan area.
Luminita MARMUREANU, Jeni VASILESCU, Anca NEMUC, Livio BELEGANTE

P3-AMT-PMx-018 Combining traditional aerosol source apportionment studies based in 24 hours off line analysis with real time AMS measurements.
José Carlos CERRO, Jorge PEY, Noemí PÉREZ, Víctor CERDÀ, H. Langley DEWITT, Stig HELLEBUST, Miriam ELSER, André PRÉVÔT, Brice TEMIME-ROUSSEL, Nicolas MARCHAND

P3-AMT-PMx-019 Characterization of winter organic and inorganic aerosols in Galway, Ireland with an Aerosol Chemical Speciation Monitor.
Chunshui LIN, Jurgita OVADNEVAITE, Darius CEBURNIS, Huang RUJIN, Colin O'DOWD

P3-AMT-PMx-020 Online measurements of aerosol composition at GAW measurement site Hohenpeißenberg, Germany and local wood waste burning emission.
Michael ELSASSER, Johanna ESSER-GIETL, Harald FLENTJE, Björn BRIEL, Werner THOMAS

P3-AMT-PMx-021 application of factor analysis in the assessment of PM10 enrichment of troposphere following precipitation.
Tomasz OLSZOWSKI

P3-AMT-PMx-022 A simulation method for estimating the accuracy of aerosol source apportionment by dual wavelength optical absorption measurement.
Károly SIMON, Noémi UTRY, Gábor GULYÁS, Tibor AJTAI, Gábor SZABÓ, Zoltán BOZÓKI

P3-AMT-PMx-023 Comparative air quality assessment at the street level with a mobile laboratory.
Esperanza PERDRIX, Nathalie REDON, André WROBLEWSKI, Laurent ALLEMAN, Véronique RIFFAULT

P3-AMT-PMx-024 Characterization of submicron aerosol in Prague by source apportionment analysis of combined AMS data.
Otakar MAKEŠ, Petr VODIČKA, Jaroslav SCHWARZ, Vladimír ŽDÍMAL

P3-AMT-PMx-026 Packaging waste burning tracers in residential wood combustion area.
Hanna-Lii KUPRI, Marek MAASIKMETS, Riin REBANE, Erik TEINEMAA, Tarvo ARUMÄE, Viktoria VORONOVA

P3-AMT-PMx-027 Source apportionment study and modelling of air pollutants from residential heating in Tartu.
Marek MAASIKMETS, Erik TEINEMAA, Hannes KEERNIK, Hanna-Lii KUPRI

P3-AMT-PMx-028 Particulate matter variability sources in an open-plan office: comparison of two monitoring campaigns.
Rachid OUARET, Anda IONESCU, Viorel PETREHUS, Yves CANDAU, Olivier RAMALHO

P3-AMT-PMx-029 Coagulation versus chemical processing in a single particle mass spectral data set.
Paul REITZ, Sören R. ZORN, Tabitha GWISDORF, Stefan H. TRIMBORN, Achim M. TRIMBORN

P3-AMT-PMx-030 How to quantify similarity of aerosol mass spectra?
Mikko ÄIJÄLÄ, Heikki JUNNINEN, Tuukka PETÄJÄ, Markku KULMALA, Douglas WORSNOP, Mikael EHN

P3-AMT-PMx-031 An evaluation of analytical quality for selected PAH measurements in ashes/particles from combustion of agricultural and forestry waste biomass.
Susana GARCÍA-ALONSO, Rosa María PÉREZ-PASTOR, David SANZ RIVERA, Enrique ROJAS GARCÍA, Jesús Javier RODRÍGUEZ MAROTO

P3-AMT-PMx-032 Surface Chemical Structure of Isolated Aerosols by X-ray Photoelectron Spectroscopy.
Olivier SUBLEMONTIER, Safia BENKOULA, Damien AUREAU, Christophe NICOLAS, Mina PATANEN, Harold KINTZ, Xiaojing LIU, Marc-Andre GAVEAU, Jean-Luc LE GARREC, Emmanuel ROBERT, Flory-Anne BARREDA, Arnaud ETCHEBERRY, Cécile REYNAUD, James Brian MITCHELL, Catalin MIRON

P3-AMT-PMx-033 AVEC plots: a new way to visualise EC/OC thermograms.
Eleonora NICOLOSI, Paul QUINCEY, Gary FULLER

P3-AMT-PMx-034 Mixing state of primary and secondary inorganic aerosols by cryo-TSEM-EDS.
Sarah GUILBAUD, Karine DEBOUDT, Pascal FLAMENT, Marc FOURMENTIN

P3-AMT-PMx-035 Characterization of airplane soot surrogates using Raman spectroscopy.
Raouf IKHENAZENE, Claire PIRIM, Yvain CARPENTIER, Cristian FOCSA, Bertrand CHAZALLON, Francois-Xavier OUF, Ismael ORTEGA

P3-AMT-PMx-036 Design/performance test of a headset-mounted minisampler for inhalable dust.
Göran LIDÉN, Julia ZÁBORI

P3-AMT-PMx-037 Description of the GOA-Uva in situ aerosol measurement station.
Sandra MOGO, Juan Francisco LÓPEZ, Victoria CACHORRO, Ángel DE FRUTOS, Renata MARTINS, Miguel MEDEIROS, Anita COSTA, Alberto MARCOS, Edgar CONCEIÇÃO, Luís NEVES

P3-AMT-PMx-038 Performances of the CIP 10-M personal sampler: new laboratory and field investigations.
Xavier SIMON, Sébastien BAU, Alexis BOIVIN, Philippe DUQUENNE, Olivier WITSCHGER, Peter GÖRNER

P3-AMT-PMx-039 Impact of soot physico-chemical properties in sampling line losses measurements.
David DELHAYE, Ismael Kenneth ORTEGA, Vincent PLANA, Xavier VANCASSEL

P3-AMT-PMx-040 Contamination induced by the use of PTFE lines in aeronautic soot sampling.
Ismael Kenneth ORTEGA, Cornelia IRIMIEA, David DELHAYE, Claire PIRIM, Cristian FOCSA, Xavier VANCASSEL

P3-AMT-PMx-041 Evaluation of different sampling methods for TEM-analysis to characterizesingle digit aerosol nanoparticles.
Alexander WERNER, Alfred WEBER

P3-AMT-PMx-042 Multi-site Concentration Field method applied to the outputs of a comprehensive source apportionment study (PMF) in the north of France.
Diogo OLIVEIRA, Veronique RIFFAULT, Esperanza PERDRIX, Stephane SAUVAGE, Olivier FAVEZ

P3-AMT-PMx-043 Aerosol size distribution of outdoor and indoor subway station depending on outdoor wind speed.
Sechan PARK, Minhae KIM, Tae-Suk OH, Sung-Joon BAE, Yeo Gyeong YUN, Soon-Bark KWON

P3-AMT-PMx-044 Evaluation of self-developed separation methods for oc-ec analysis in aerosol particles against a standard method in dependence of sampling frequency and with regard to 14c analysis.
Katrin ZENKER, Matthias VONWILLER, Sönke SZIDAT, Giulia CALZOLAI, Martina GIANNONI, Vera BERNARDONI, Aleksandra JEDYNSKA, Bas HENZING, Harro MEIJER, Ulrike DUSEK

P3-AMT-PMx-045 Identification of main sources of PM2.5 during winter at a suburban site in Douai, Northern France.
Roger ROIG RODELAS, Esperanza PERDRIX, Emmanuel TISON, Benoît HERBIN, Véronique RIFFAULT

P3-AMT-PMx-046 Source apportionment of PM2.5 collected in a traffic site and in an urban background site in Athens, Greece: Comparison of the chemical profiles and the contributions.
Manousos MANOUSAKAS, Evangelia DIAPOULI, Thomas MAGGOS, Dikaia SARAGA, Kyriaki BAIRACHTARI, Franco LUCARELLI, Giulia CALZOLAI, Silvia NAVA, Xavier QUEROL, Fulvio AMATO, Angeliki KARANASIOU, Konstantinos ELEFTHERIADIS

P3-AMT-PMx-047 Modeling the sensitivities and intra-instrument kinetics of an iodide-based chemical ionization mass spectrometer for a set of organic and inorganic compounds.
Siddharth IYER, Felipe LOPEZ-HILFIKER, Ben H. LEE, Joel A. THORNTON, Theo KURTEN

P3-AMT-PMx-048 Improving the Detection Efficiency of Condensation Particle Counters for sub-2nm Particles: The Temperature Window Effect.
Konstantinos BARMPOUNIS, Ananth RANJITHKUMAR, Andreas SCHMIDT-OTT, George BISKOS, Michel ATTOUI

P3-AMT-PMx-049 Source apportionment of carbonaceous aerosols in East Asia based on radiocarbon and molecular marker analyses.
Takuma MIYAKAWA, Yuichi KOMAZAKI, Fumikazu TAKETANI, Xiaole PAN, Zifa WANG, Yugo KANAYA

P3-AMT-PMx-050 Application of three dimensional source contribution function (3D-PSCF) for levoglucosan at Seoul.
In Sun KIM, Yong Pyo KIM, Daehyun WEE, Ji Yi LEE

P3-AMT-PMx-051 Road dust emission factors and source apportionment in Turin (Italy).
Elio PADOAN, Franco AJMONE MARSAN , Xavier QUEROL, Fulvio AMATO

P3-AMT-PMx-052 Spatiotemporal variations of source contributions to ambient fine particles in Seoul, Korea.
Jongbae HEO, Seung-Muk YI

P3-AMT-PMx-053 Size distribution of particulate n-Alkanes and Polycyclic Aromatic Hydrocarbons in urban and industrial areas in Algiers, Algeria.
Riad LADJI, Catia BALDUCCI, Angelo CECINATO, Noureddine YASSAA

P3-AMT-PMx-054 Seasonal variations in the size distribution of elements and ions in the Po Valley.
Daniele FRASCA, Silvia CANEPARI , Maria Luisa ASTOLFI, Melissa MARCOCCIA, Elena RANTICA , Cinzia PERRINO

P3-AMT-PMx-055 Access to ACTRIS observations, calibrations and services.
Sabine PHILIPPIN, Gelsomina PAPPALARDO, Paolo LAJ, Team ACTRIS

P3-AH-SS6 AEROSOL AND HEALTH

16:10 - 18:10 POSTER SESSION *Poster area*

BIOAEROSOL

P3-AH-SS6-001 Continuous bioaerosol sampling using inertial microfluidics.
Jungan CHOI, Jung JAEHEE

P3-AH-SS6-002 New insight about bioaerosol exposure in Waste Sorting Plants: Exposure levels, size distribution, and biodiversity of airborne microorganisms.
Philippe DUQUENNE, Xavier SIMON, Jodelle DEGOIS, Catherine COULAIS, Véronique KOEHLER, Guylaine GREFF

P3-AH-SS6-003 Sorting of household plastic packaging : new instructions are associated with changes in exposure to bioaerosols in materials recovery facilities.
Olivier SCHLOSSER, Isabelle DEPORTES, Brigitte FACON, Eric FROMONT

P3-AH-SS6-004 Characterization of biosurfactants from cloud microorganisms.
Pascal RENARD, Martine SAMCELME, Isabelle CANET, Mounir TRAIKIA, Virginie VINATIER, Laurent DEGUILLAUME, Anne Marie DELORT

P3-AH-SS6-005 Investigations on Legionella containing aerosols: set-up of a model shower aerosol chamber.
Bettina KIWULL, Anika WUNDERLICH, Sandra WALSER, Bernadett BARTHA, Bernhard BRENNER, Stefanie HUBER, Christian LÜCK, Christiane HÖLLER, Caroline HERR, Michael SEIDEL, Reinhard NIESSNER

P3-AH-SS6-006 Respiratory viruses' behaviours on filters of air handling units.
Victor BANDALY, Pierre LE CANN, Yves ANDRES

P3-AH-SS6-007 Indoor dust as a template to assess indoor aerosol bacteria contamination.
Yanis GUENOUNE, Pierre LE CANN

P3-AH-SS6-008 Application of aqueous ozone spray on suppression of indoor bioaerosols.
Chin-Hsiang LUO, S. YANG, T. Y. LIU, Y. Y. CHEN, Z. H. YAN

P3-AH-SS6-009 Efficiency of a free-standing air cleaner in reducing children's exposure to fungal spores.
Tiina REPONEN, Jennie COX, Reshmi INDUGULA, Chris WOLFE, Kelechi ISIUGO, Patrick RYAN, Sergey A. GRINSHPUN, Michael YERMAKOV, Anna ŁAWNICZEK-WAŁCZYK, Steve VESPER

P3-AH-SS6-010 Ozone-induced chemical modifications of pollen coating.
Nicolas VISEZ, Sylvie GOSSELIN, Jinane FARAH, Denis PETITPREZ, Moomen BAROUDI

P3-AH-SS6-011 ChAMBRe – the development of an atmosferic simulation chamber for bioaerosol studies and aerosol optical properties investigation.
Paolo BROTTO, Elena GATTA, Franco PARODI, Maria Chiara BOVE, Dario MASSABÒ, Valerio VIGO, Paolo PRATI

P3-AH-SS6-012 Rapid monitoring of bioaerosols in industrial, agricultural and urban environments.
Ferguson ROBERT , A. DUMBRELL, C. WHITBY, I. COLBECK

P3-AH-SS6-013 Real time detection and characterization of bioaerosols from environmental sources.
Zaheer Ahmad NASIR, Sean TYRREL

P3-AH-SS6-014 MolDeMould – Molecular detection of airborne mould by microfluidic qPCR.
Verena UNTERWURZACHER, Clara POGNER, Walter PULVERER, Joseph STRAUSS, Markus GORFER

P3-AH-SS6-015 Airborne bacteria in hospital operating theatres during surgery.
Malin ALSVED, Anette CIVILIS, Peter EKOLIND, Ann TAMMELIN, Anette ERICHSEN ANDERSSON, Jonas JAKOBSSON, Tobias SVENSSON, Matts RAMSTORP, Tina SANTL TEMKIV, Mats BOHGARD

P3-AH-SS6-017 The effect of filter-based sampling parameters on abundance and diversity of indoor bioaerosols.
Nikoletta GRYDAKI, Ian COLBECK, Corinne WHITBY

P3-AH-SS6-018 Applications of Electrospray - Differential Mobility Analysis (ES-DMA) to nano(bio)particles measurements in the health field.
François GAIE-LEVREL, Noémie CLOUET-FORAISON, Dimitri BRINET, Myriam TAVERNA, Julia KAFFY, Sandrine ONGERI, Vincent DELATOUR

P3-AH-SS8 AEROSOL AND HEALTH

16:10 - 18:10 POSTER SESSION *Poster area*

AEROSOL EXPOSURES FOR TOXICOLOGICAL AND THERAPEUTIC STUDIES

P3-AH-SS8-001 Lung deposition of nanoparticles in COPD patients and healthy subjects compared to clinical lung function tests and computed tomography.
Jonas Karl Fredrik JAKOBSSON, Hanni Laura AALTONEN, Hanna NICKLASSON, Per WOLLMER, Jakob LÖNDAHL

P3-AH-SS8-002 Responses of normal and diseased airway epithelia to different particle types at ambient concentration levels.
Marianne GEISER, Manuel KRAPF, Lisa KÜNZI, Sandrine ALLENBACH, Jun ZHOU, Imad EL HADDAD, Emily A. BRUNS, Urs BALTENSPERGER, Josef DOMMEN

P3-AH-SS8-003 Particle deposition model for the Balb/c mouse resüiratory tract.
Werner HOFMANN, Renate WINKLER-HEIL

P3-AH-SS8-004 Toll like receptor mediated proinflammatory response to environmental respirable aerosol (Carbon Nano Particles) in Primary bronchial epithelial cells.
Swapna UPADHYAY, Jie JI, Koustav GANGULY, Per GERDE, Lena PALMBERG

P3-AH-SS8-005 Effects of cerium oxide nanoparticle aerosol on human lung cells exposed at the Air-Liquid-Interface.
Sonja MUELHOPT, Silvia DIABATÉ, Christoph SCHLAGER, Marco DILGER, Sivakumar MURUGADOSS, Tobias KREBS, Selina TANG, Pete GOODEN

P3-AH-SS8-006 Development and validation of an inhalation system suitable for rodent exposure to carbon nanotubes.
Frédéric COSNIER, Sébastien BAU, Stéphane GROSSMANN, Stéphane VITON, Hervé NUNGE, Raphaël PAYET, Alexis BOIVIN, Olivier WITSCHGER, Laurent GATE

P3-AH-SS8-007 Generation and Monitoring of Laser Printer Aerosols for an in-vivo Exposure Study with Human Probands.
Stefan SEEGER, Miriam EHRET, Britta HERBIG, Rudolf JÖRRES, Stefan KARRASCH, Jeanette LANGNER, Dennis NOWAK, Rudolf SCHIERL

P3-AH-SS8-008 Reproducible aerosol generation for mass balance studies and dosimetry investigation with low particle masses.
Sonja MUELHOPT, Christoph SCHLAGER, Wilson KAN, Hanns-Rudolf PAUR

P3-AH-SS8-010 A portable, automated online instrument to quantify reactive oxygen species (ROS) in ambient aerosol.
Francis WRAGG, Raymond FRESHWATER, Green DAVID, Christina DUNSTER, Frank KELLY, Markus KALBERER

P3-AH-SS8-011 Nanoparticle Delivery to Living Cells Supported by Thermophoresis.
Dirk BROßELL, Silke STEINBORN, Gunter LINSEL, Andreas SCHMIDT-OTT

P3-AH-SS8-012 Characterization of Aeroneb vibrating mesh nebulizers and implications for ALICE-Cloud technology.
Katharina WIELAND, Winfried MÖLLER, Andreas STELZL, Gunter EDER, Otmar SCHMID

P3-AH-SS8-013 Is there any synergy in the observed health effects due to exposure to particles and noise? Results from DINO study - controlled chamber exposure.
Aneta WIERZBICKA, Maria ALBIN, Mats BOHGARD, Axel ERIKSSON, Inger HAGERMAN, Christina ISAXON, Patrik NILSSON, Joakim PAGELS, Jenny RISSLER, Yiyi XU, Anders GUDMUNDSSON

P3-AH-IEH AEROSOL AND HEALTH

16:10 - 18:10 POSTER SESSION *Poster area*

AEROSOL AND HEALTH - INHALATION EXPOSURE AND HEALTH

P3-AH-IEH-002 Gas-phase fabrication of biomedical nanomaterials for theranostics.
Georgios A. SOTIRIOU

P3-AH-IEH-003 Nebulized aerosol deposition in a realistic nasal cast during inhalation and exhalation.
Laurent VECELLIO, M. FRANCIS, D. LE PENNEC, Geralt WILLIAMS, E. DUCLOS, P. DIOT

P3-AH-IEH-004 Characterization of the aerosol applied for Pressurized IntraPeritoneal Aerosol Chemotherapy (PIPAC).
Daniel GÖHLER, Veria KHOSRAWIPOUR, Tanja KHOSRAWIPOUR, David DIAZ-CARBALLO, Thomas FALKENSTEIN, Jürgen ZIEREN, Michael STINTZ, Urs GIGER-PABST

P3-AH-IEH-005 Fungal fragments: additional exposure burden in Norwegian sawmill industry.
K. Anani AFANOU, Wijnand EDUARD, Anne STRAUMFORS

P3-AH-IEH-006 The Effect of North Wind on Airborne Microbial Community During Winter in Beijing.
Weizhuo YAN, Buying WANG, Changyi XIE, Runlong CAI, Yunfeng YANG, Jingkun JIANG

P3-AH-IEH-007 Connections between PM10, pollen and atmospheric pollutants at León (Spain).
A.i. CALVO, A. CASTRO, C.a. ALVES, Fernández-González D., C. BLANCO-ALEGRE, R.m. VALENCIA-BARRERA, A.m. VEGA-MARAY, Estela VICENTE, R. FRAILE

P3-AH-IEH-008 The dependence of UV induced degradation rates of bacterial on aerosol particle size.
Jerry CABALO

P3-AH-IEH-009 Design and performance of Personal Electrostatic Bioaerosol Sampler (PEBS).
Gediminas MAINELIS, Taewon HAN

P3-AH-IEH-010 Adjuvant Function of Diesel and Toner particles in the Development of Allergies.
Fangxia SHEN, I. BELLINGHAUSEN, J. SALOGA, K. BECKER, F. LIU, C. J. KAMPF, S. LAI, D. SCHUPPAN, Lucas KURT, Pöschl ULRICH

P3-AH-IEH-011 Personal ultrafine particle dose–response relationship for school children.
Mandana MAZAHERI, Samuel CLIFFORD, Wafaa Nabil EZZ, Lidia MORAWSKA, Guy MARKS

P3-AH-IEH-012 Impact on the nervous system of aerosols released from nanocomposite materials under stress use : The "Release_NanoTox" project.
Stéphane DELABY, François GAIE-LEVREL, Marlène WIART, Anna BENCSIK

P3-AH-IEH-013 Effect of airborne particulate matter on oxidative stress, pro-inflammatory response and intracellular calcium signaling in pulmonary artery endothelial cells.
Juliette DEWEIRDT, C. GUIBERT, M.b. CROBEDDU, J. SCIARE, A. BAEZA-SQUIBAN, J.p. SAVINEAU, B. MULLER, J.f. QUIGNARD, Isabelle BAUDRIMONT

P3-AH-IEH-014 Long-term monitoring of PM2.5-bound nickel (Ni) in an urban environment in Xi'an, Northwestern China. *Hongmei XU, J. J. CAO, B. GUINOT*

P3-AH-IEH-015 Usefulness of normal or diseased human bronchial epithelial cell models differentiated at air-liquid interface to study the effects of air pollution-derived PM4.
Bérénice LECLERCQ, Mélanie HAPPILLON, Sébastien ANTHÉRIEU, Laurent ALLEMAN, Esperanza PERDRIX, Jean-Marc LO GUIDICE, Patrice CODDEVILLE, Guillaume GARÇON

P3-AH-IEH-016 Physicochemical characteristics, mutagenicity, genotoxicity and clastogenicity of atmospheric aerosols under industrial and rural influence.
Pamela N. MELKI, Frédéric LEDOUX, Samer AOUAD, Sylvain BILLET, Bilal EL-KHOURY, Yann LANDKOCZ, Dominique COURCOT, Roula M. ABDEL-MASSIH

P3-AH-IEH-017 Chemical composition and in vitro short-term exposure to air pollution fine and ultrafine particles induced cytotoxicity and metabolic activation of organic compounds in a human lung cell line.
Mireille BORGIE, Frédéric LEDOUX, Anthony VERDIN, Zeina DAGHER, Fabrice CAZIER, Pirouz SHIRALI, Maurizio GUALTIERI, Hélène GREIGE, Dominique COURCOT

P3-AH-IEH-018 In-vitro measurements of regional nasal deposition efficiency of particles ranging from 20 to 500 nm.
Der-Jen HSU, Hsin-Yi LIN

P3-AH-IEH-019 Hygroscopic growth modelling for hygroscopic nanometric aerosols in the human respiratory tract.
Laurent BOUDIN, C. RIGAULT, Laurent VECELLIO

P3-AH-IEH-020 Physical characteristics of cigarette smoke and e-cigarette aerosol, inhalation conditions and their implications for dose.
John MCAUGHEY, Caner U YURTERI, Ross CABOT, Lukas PICHELSTORFER, Renate WINKLER-HEIL, Werner HOFMANN

P3-AH-IEH-022 Floor dust PAHs inside university lecture rooms, offices and workshop.
Androniki MARAGKIDOU, Y. MA, O. JAGHBEIR, D. FAOURI, S. HARRAD, A. AL-HUNAITI, S. ARAR, K. HÄMERI, T. HUSSEIN

P3-AH-IEH-023 The development and characterization of a novel cell-based biosensor for the functional screening of bioaerosols.
Shagun KHERA, Sean TYRREL, Allan BENNETT, Vikram SHARMA, Simon JACKSON, Gyuri FEJER

P3-AH-IEH-025 The impact of polybrominated diphenyl ethers in the classroom dust on the health of the elementary school's children.
Shun-I SHIH, H. R. CHAO, Y. Y. GUO, C. H. LIN, S. M. HUANG, C. G. SHY

P3-AH-IEH-026 An integrated approach for conducting long-term PM2.5 exposure and health risk assessment for residents.
Chi Hsuan CHOU, Y. C. CHEN, M. Y. LIN, L. H. LANG, H. T. HSU, Perng Jy TSAI

P3-AH-IEH-027 Vertical profile of Primary and Secondary pesticide drift following orchard ground application.
Ohad ZIVAN, Yael DUBOWSKI, Yardena RAVIV

P3-AH-IEH-028 Study of mycotoxins aerosolized during the shaking of hays contaminated with Stachybotrys chartarum.
Marjorie DRAGHI, Brankica ALEKSIC, Sylviane BAILLY, Marlène LACROIX, Sébastien RITOUX, Jean-Denis BAILLY, Enric ROBINE

P3-AH-IEH-029 Trace elements bioaccessibility in fine particles from the urban area of Lille (France).
Bérénice LECLERCQ, Laurent ALLEMAN, Guillaume GARÇON, Patrice CODDEVILLE

P3-AH-IEH-030 Safe production and use of nanomaterials in the ceramic industry.
Mar VIANA, Ana Sofia FONSECA, Xavier QUEROL, Andrés ALASTUEY, Germán F. DE LA FUENTE, Carlos ESTEPA, Eliseo MONFORT, Ana LÓPEZ LILAO, María José IBÁÑEZ, Joao GOMES, Paula ALBUQUERQUE, Helder ESTEVES, Rosa M MIRANDA, Joao P. TEIXEIRA, Sonia FRAGA, Simion SIMON, Eugene BYCHKOV, George BISKOS

P3-AH-IEH-031 Physico-chemical and toxicological properties of the Zn containing nanoparticles.
Oskari USKI, Tiina TORVELA, Olli SIPPULA, Tommi KARHUNEN, Hanna KOPONEN, Sirpa PERÄNIEMI, Pasi JALAVA, Mikko HAPPO, Jorma JOKINIEMI, Maija-Riitta HIRVONEN, Anna LÄHDE

P3-AH-IEH-032 Bioaerosol biodiversity in waste sorting plant: feasibility and uncertainty measurement.
Jodelle DEGOIS, F. CLERC, X. SIMON, C. BONTEMPS, P. LEBLOND, P. DUQUENNE

P3-AH-IEH-033 Particle emissions from cutting of concrete.
Lars HILLEMANN, Stephan GROßE, Markus BERGER, Ralf ZIMMERMANN, Michael STINTZ

P3-AH-IEH-034 Inhalation toxicology facilities at RIVM for human, animal, and cell exposures to nanomaterials and particulate air pollution.
John BOERE, Paul FOKKENS, Wolfgang KREYLING, Miriam GERLOFS-NIJLAND, Flemming CASSEE

P3-AH-IEH-035 Particulate Matter measurements in Macedonia for health impact assessment.
Rumrich ISABELL KATHARINA, Mirjana DIMOVSKA, Dragan GJORGJEV, Sari LAPPI, Raimo O SALONEN, Aneta STEFANOVSKA, Nikola GOLUBOV , Otto HÄNNINEN

P3-AH-IEH-036 Endothelial responses of the alveolar barrier in vitro in a realistic dose-controlled exposure to diesel exhaust particulate matter.
Sebastian KLEIN, Elisa MOSCHINI, Sebastien CAMBIER, Sylvain LEGAY, Jennifer HENNEN, Tommaso SERCHI, Inge NELISSEN, Andreas KREIN, Brunhilde BLÖMEKE, Arno GUTLEB

P3-AH-IND — AEROSOL AND HEALTH

16:10 - 18:10 POSTER SESSION — *Poster area*

AEROSOL AND HEALTH - INDOOR AND WORKING PLACE AEROSOL

P3-AH-IND-001 PM2.5 mass concentrations and lung functioning of factory workers.
Zulfiqar ALI, Muhammad Ahsan ASHRAF, Tanveer Ali KHAN, Irfan ZAINAB, Zaidi ZONA, Zaheer Ahmad NASIR, Ian COLBECK

P3-AH-IND-002 The application of the ventilation and air conditioning system to stabilize the air quality parameters in hospital operating rooms.
Tomasz JANKOWSKI, Magda MŁYNARCZYK

P3-AH-IND-003 UV-C decontamination of aerosolized and surface bound single spores and bioclusters.
Jana KESAVAN

P3-AH-IND-004 Characteristics of particles concentration in a paediatric intensive care unit (PICU).
Congrong HE, Ian MACKAY, K. RAMSAY, Z. LIANG, T. KIDD, L. KNIBBS, G. JOHNSON, M. COULTHARD, D. LONG, T. WILLIAMS, C. WAINWRIGHT, L. MORAWSKA

P3-AH-IND-005 Short asbestos fiber levels in indoor environments.
Laurent MARTINON, C. MANDIN, F. CHAVENTRÉ, F. VALLENTIN, T. BROWN, G. BOULANGER

P3-AH-IND-006 Multi-zone measurement of particle number/mass and black carbon concentrations in a HVAC building equipped with a printer room.
Sofia Eirini CHATOUTSIDOU, Norbert SERFOZO, Thodoros GLYTSOS, Mihalis LAZARIDIS

P3-AH-IND-007 Aerosol and gaseous emissions from a desktop 3D printer.
Luís MENDES, Anneli KANGAS, Kirsi KUKKO, Bjarke MØLGAARD, Arto SÄÄMÄNEN, Tomi KANERVA, Iñigo ITUARTE, Marika HUHTINIEMI, Helene STOCKMANN-JUVALA, Jouni PARTANEN, Kaarle HÄMERI, Konstantinos ELEFTHERIADIS, Anna-Kaisa VIITANEN

P3-AH-IND-008 Indoor epidemiological study: effects of pollutant on respiratory diseases.
Ivano SALIMBENE, Ornella SALIMBENE, Crescenzo SCHETTINI

P3-AH-IND-009 Particulate matter concentrations and chemical composition in the European underground transport system.
Silvia BRINI, Silvia CANEPARI, Giorgio CATTANI, Francesca DE MAIO, Alessandro DI MENNO DI BUCCHIANICO, Arianna LEPORE

P3-AH-IND-010 Source strengths of fine particulate matter during various domestic activities.
Sidra SAFDAR, Zulfiqar ALI, Nimra AFZAL, Ian COLBECK, Zaheer Ahmad NASIR

P3-AH-IND-011 Regional deposition of particles in a model of human lungs: A comparison of numerical simulation and experimental results.
Frantisek LIZAL, Jakub ELCNER, Miloslav BELKA, Jan JEDELSKY, Miroslav JICHA

P3-AH-IND-012 Filter bypass affecting the performance of HVAC systems.
Sergey GRINSHPUN, Michael YERMAKOV, It MUKHAMETZANOV, Shamil ZARIPOV, Vf SHARAFUTDINOV

P3-AH-IND-013 Numerical Investigation on Airborne Transmission of Expiratory Droplets between Two Standing Manikins.
Li LIU, Peter V NIELSEN, Li YUGUO, Wang YI, Fu LINZHI, Yang YANG

P3-AH-IND-014 A study on exposure levels to aerosol particles during the journey of a subway passenger.
Minhae KIM, Sechan PARK, Seung-Won RYU, Soon-Bark KWON

P3-AH-IND-015 In-Car Filter Efficiency of HVAC Systems with real Ambient Aerosols in Beijing.
Markus DR. PESCH, Volker ZIEGLER, Martin LANGE, Konradin PROF. DR. WEBER, Christian FISCHER, Alexander FRÜHSORGER, Christian ROßKOPF

P3-AH-IND-016 Nanoparticle fraction of the inhalable dust in gas tungsten arc welding of stainless steel and manual grinding of steel.
Maija LEPPÄNEN, Jani LESKINEN, Anneli KANGAS, Tomi KANERVA, Anna-Kaisa VIITANEN, Arto SÄÄMÄNEN, Jorma JOKINIEMI, Mirella MIETTINEN

P3-AH-IND-017 Impact of train braking systems on PM10 mass concentrations in the Paris subway.
Romain MOLLE, S. MAZOUÉ

P3-AH-IND-018 Uptake of Semi-volatile Organic Compounds onto Ammonium Sulfate Particles.
Axel ERIKSSON, Annette KRAIS, Clausen PER AXEL, Jonas JAKOBSSON, Aneta WIERZBICKA, Jakob LÖNDAHL, Anders GUDMUNDSSON, Joakim PAGELS, Christina ANDERSEN

P3-AH-IND-019 Cigarette smoke dose equivalence : human airways versus the in vitro air-liquid interface.
John MCAUGHEY, Jason ADAMSON, Caner U YURTERI

P3-AH-IND-020 Attrition and dustiness of silicon carbide particles in solar energy capture and storage.
Somik CHAKRAVARTY, Pablo GARCÍA-TRIÑANES, Olivier LE BIHAN, Martin MORGENEYER

P3-AH-IND-021 Numerical study on the interpersonal exhaled droplet transport in a classroom.
Yang YANG, Guillaume DA, Li LIU, Evelyne GEHIN, Stephane DELABY, Sebastien RITOUX, Thi Lan HA, Enric ROBINE, Mahamadou ABDOU TANKARI, Gilles LEFEBVRE

P3-AH-IND-022 Computational fluid dynamics of indoor aerosols – Modelling the ventilation effect on indoor air quality.
M. TOMÉ, C. ALVES

P3-AH-IND-023 Emission Characteristics of Terpenols in PM2.5 Aerosol Emitted from Incense Burning.
Su-Ching KUO, Ying I. TSAI

P3-AH-IND-024 Effectiveness of local exhaust ventilation in removing nanoparticles in workplaces.
Evelien FRIJNS, Jan PETERS, Maida DOMAT, Carlos FITO, Patrick BERGHMANS

P3-AH-IND-025 Occupational exposure parameters for characterization of nanoparticulate matter.
Žanna MARTINSONE, Ilona PAVLOVSKA, Inese MARTINSONE, Anita SEILE, Ivars VANADZINS

P3-AH-IND-026 An experimental study for thermal efficiency and indoor air quality in a subway.
K. M. KOO, H. S. PARK, Youngjin SEO

P3-BAP-SS7 BASIC AEROSOL PROCESSES

16:10 - 18:10 POSTER SESSION *Poster area*

BASIC AEROSOL PROCESSES - SPECIAL SESSION: RESUSPENSION

P3-BAP-SS7-001 Role of particle size and surface roughness on intermolecular interactions during particle resuspension from a turbulent flow.
Sofia Eirini CHATOUTSIDOU, Yannis DROSSINOS, Mihalis LAZARIDIS
P3-BAP-SS7-002 Particle entrainment due solely to electrostatic forces.
Samuel PEILLON, M. SOW
P3-BAP-SS7-003 CFD simulations of particle resuspension due to human walking.
Laurent RICCIARDI, Zakaria MANA, Francois GENSDARMES, Thomas GELAIN, Marc RABAUD, Catherine MONIER, Gaelle LE MEUR, Francois FEUILLEBOIS
P3-BAP-SS7-004 Source apportionment of PM10 in Paris: a focus on traffic resuspension.
Fulvio AMATO, Olivier FAVEZ, Marco PANDOLFI, Andres ALASTUEY, Xavier QUEROL, Sophie MOUKHTAR, Benjamin BRUGE , Verlhac STEPHANE, Bonnaire NICOLAS, Tiphaine LEPRIOL, Jf PETIT, Jag ORZA, Jean SCIARE
P3-BAP-SS7-005 Evaluation of dispersed single-wall carbon nanotubes produced by "floating catalyst"-method.
F. TONI, Haichen XING, J. WALTER, V. STRAUß, T. J. NACKEN, C. DAMM, K. E. WIRTH, D. GULDI, W. PEUKERT

P3-BAP-FUND1 BASIC AEROSOL PROCESSES

16:10 - 18:10 POSTER SESSION *Poster area*

AEROSOL DYNAMICS, COAGULATION AND FILTRATION

P3-BAP-FUND-001 Multivariate Modeling of Soot Particles with the Hybrid Method of Moments.
Raymond LANGER, Achim WICK, Michael MUELLER, Heinz PITSCH
P3-BAP-FUND-002 Limitation of water accommodation on organic-coated water surfaces.
Gozde ERGIN, Satoshi TAKAHAMA
P3-BAP-FUND-003 Sedimentation of aerosols and drift of single particles at resonance oscillations in tubes.
Damir GUBAIDULLIN, Rinat ZARIPOV, Liudmila TKACHENKO
P3-BAP-FUND-004 Investigation of local meteorology on particule and back carbon atmospheric concentrations in the alpine valley.
Julie ALLARD, Florie CHEVRIER, Irena JEZEK, Grisa MOCNIK, Jean-Luc JAFFREZO, Guillaume BRULFERT, Jean-Paul LAURENT, Jean-Luc BESOMBES
P3-BAP-FUND-005 The Effect of Primary Particle Polydispersity in the Evolving Agglomerate Structure and Size Distribution.
Eirini GOUDELI, Maximilian L. EGGERSDORFER, Sotiris E. PRATSINIS
P3-BAP-FUND-006 On the validity of the projected-area approximation of the equivalent mobility radius of power-law aggregates.
Anastasios MELAS, Lorenzo ISELLA, Athanasios G. KONSTANDOPOULOS, Yannis DROSSINOS
P3-BAP-FUND-007 Numerical study of the dispersion of carbon nanoparticles in the near wake of a cylinder.
Keita NAMAMOUDOU SIDIKI, Mehel AMINE, Murzyn FRÉDÉRIC, Diourte BADIÉ, Taniere ANNE
P3-BAP-FUND-008 Instability of accelerating aerosol surface.
Oleksandr GIRIN
P3-BAP-FUND-009 Determination of particle penetration from knowledge of the fully developed concentration profile in laminar flow tubes.
Manuel ALONSO
P3-BAP-FUND-010 A Pre-filter for Thermal Desorption Tubes.
Chien-Yu CHANG, Yu-Mei KUO, Sheng-Hsiu HUANG, Ching-Hwa CHEN, Cheng-Yao CHEN, Chih-Chieh CHEN
P3-BAP-FUND-011 Filtration characteristic on different charging conditions of filter.
Y. C. CHENG, J. Y. SYU, Y. Y. KAO, C. T. WANG, T. M. TU, S. J. CHEN, K. H. CHANG, Wen-Yinn LIN
P3-BAP-FUND-012 On-line and Off-line Pulse-jet Filter Cleaning of Long Filter Bags.
Joonmok SHIM, Hyun-Seol PARK

P3-BAP-FUND-013 Importance of Can Velocity for Test of Bag Filter Dust Collector.
Hyun-Seol PARK, Yun Haeng JOE, Joonmok SHIM

P3-BAP-FUND-014 Aerosol concentration vs. loading rate as the determining parameter for the pressure drop of oil mist filters.
Heinrich E. KOLB, Jörg MEYER, Gerhard KASPER

P3-BAP-FUND-015 VOCs and particles removal with TiO2 Fibers prepared by electrospinning.
Tasi-Yu YANG, Nhat Thien NGUYEN, Chang-Tang CHANG

P3-BAP-FUND-016 Filtration efficiency of bubble scrubbers.
Lucija BOSKOVIC, R. BRADDOCK, R. CROPP

P3-BAP-FUND-017 Effect of Dust Concentration on Filter Cleaning in a Pulse-jet Bag Filter.
Joonmok SHIM, Yun Haeng JOE, Hyun-Seol PARK

P3-BAP-FUND-018 Slip velocity measurement of particles inside a pleated HEPA filter.
Youssef ALILOU, Soleiman BOURROUS, Nathalie BARDIN MONNIER , Thomas GELAIN, Pascal LEMAITRE, Dominique THOMAS

P3-BAP-FUND-019 Effect of particle diffusion loss on coagulation in a tube.
Manuel ALONSO, Jose Pedro SANTOS

P3-BAP-FUND-020 Agglomeration of Polydisperse Primary Particles in the Free Molecular Regime.
Eirini GOUDELI, Maximilian L. EGGERSDORFER, Sotiris E. PRATSINIS

P3-BAP-FUND-021 Effect of Charge on Particle Coagulation in the Atmosphere.
Kunal GHOSH, S.n TRIPATHI, Manish JOSHI, Y.s MAYYA, Arshad KHAN, B.k SAPRA

P3-BAP-FUND-022 Direct simulation Monte Carlo method for acoustic agglomeration of PM2.5 under standing-wave conditions.
Fengxian FAN, M. J. ZHANG, X. H. HU, M. X. SU

P3-BAP-FUND-043 Numerical analysis on annual energy consumption in semiconductor manufacturing cleanrooms with different types of humidification techniques.
Won-Il SONG, Kyung-Hoon YOO, Kyung-Eung TAE, Yong-Sik KIM, Oh-Myung KWON

P3-BAP-FUND-044 A comparative experiment on energy consumption in cleanrooms with indoor water spray humidification and steam humidification systems.
Won-Il SONG, Kyung-Hoon YOO, Ki-Cheol KIM, Kyung-Eung TAE, Yong-Sik KIM, Oh-Myung KWON

P3-BAP-FUND2 BASIC AEROSOL PROCESSES

16:10 - 18:10 POSTER SESSION *Poster area*

PHYSICAL AND OPTICAL PROPERTIES OF AEROSOLS; NUCLEATION AND GROWTH

P3-BAP-FUND-023 Impact of relative humidity on the yield and physical state of α-pinene soa.
Matt HAGREEN, George MARSTON, Christian PFRANG

P3-BAP-FUND-024 Measurement of the charge distributions of 4-70 nm aerosols.
Martin Bødker ENGHOFF, Jacob SVENSMARK, Henrik SVENSMARK

P3-BAP-FUND-025 Water adsorption on organic aerosols: modeling at a molecular scale.
Bastien RADOLA, Sylvain PICAUD, Delphine VARDANEGA, Pal JEDLOVSZKY

P3-BAP-FUND-026 Influence of the humidity on the sticking of HO2 on fatty acids aerosols: a molecular dynamics study.
Delphine VARDANEGA, S. BRIQUEZ, D. DUFLOT, M. MONNERVILLE, Céline TOUBIN

P3-BAP-FUND-027 CCN activity of black carbon particles coated with organics of varying solubility.
Maryam DALIRIAN, Arttu YLISIRNIÖ, Angela BUCHHOLZ, Annele VIRTANEN, Ilona RIIPINEN

P3-BAP-FUND-028 Hygroscopicity of sub-30 nm DMA-sulfuric acid mixture particles in sub-saturated conditions – comparison of model predictions and measurements.
Olli-Pekka TIKKANEN, Hao WANG, Eemeli HOLOPAINEN, Liqing HAO, Olli VÄISÄNEN, Aki PAJUNOJA, Annele VIRTANEN, Taina YLI-JUUTI

P3-BAP-FUND-029 Molecular collision frequency with a dipole-dipole interaction.
Matti ALA-LAHTI, Hanna VEHKAMÄKI, Oona KUPIAINEN-MÄÄTTÄ, Roope HALONEN

P3-BAP-FUND-030 Simulating new particle formation in boreal forest conditions in the CLOUD chamber.
Katrianne LEHTIPALO, Lubna DADA, Jenni KONTKANEN, Tuomo NIEMINEN, Chao YAN, Robert WAGNER, Jonathan DUPLISSY, Hamish GORDON, Jasper KIRKBY, Urs BALTENSPERGER, Markku KULMALA

P3-BAP-FUND-031 Soot Primary Particle Size by Agglomeration and Surface Growth.
Georgios A. KELESIDIS, Eirini GOUDELI, Sotiris E. PRATSINIS

P3-BAP-FUND-032 Investigation of nucleation thresholds in the reactions of ozone with Volatile Organic Compounds (VOCs).
Tomasz GIERCZAK, Layal FAYAD, Jiarong LI, Alexandre TOMAS, Véronique RIFFAULT

P3-BAP-FUND-033 Production of Ultrafine Particles during Concrete Fracture.
Lidia MORAWSKA, Prashant KUMAR, Nassib JABBOUR, Rohan JAYARATNE, Graham JOHNSON, Joel ALROE, Erik UHDE, Tunga SALTHAMMER, Luke CRAVIGAN, Ehsan Majd FAGHIHI

P3-BAP-FUND-034 The cloud expansion due to the Stefan outflow at nonisothermal condensation in multi-component vapour-gas mixture.
Alexander SHCHEKIN, Anatoly KUCHMA, Darya MARTYUKOVA

P3-BAP-FUND-035 Investigating the role of ions in new particle formation in the CLOUD chamber.
Robert WAGNER, Lubna DADA, Katrianne LEHTIPALO, Jenni KONTKANEN, Tuomo NIEMINEN, Hanna E. MANNINEN, Lauri AHONEN, Chao YAN, Jonathan DUPLISSY, Jasper KIRKBY, Markku KULMALA

P3-BAP-FUND-036 Simulation of vapour phase supersaturation and PM formation during heating commercial cooking oils.
Mehdi AMOUEI TORKMAHALLEH, Ulmeken KAIBALDIYEVA, Aida KADYRBAYEVA

P3-BAP-FUND-037 Use of the measured volume scattering function for extrapolation to angular ranges inaccessible to measurement.
Helmuth HORVATH

P3-BAP-FUND-038 The measurements of light scattering from a single PMMA particle.
Y. C. CHENG, Y. Y. KAO, J. Y. SYU, C. T. WANG, S. H. HUANG, S. J. CHEN, C. C. CHEN, Wen-Yinn LIN

P3-BAP-FUND-039 UV-VIS depolarization of mineral dust particles at exact backscattering angle: laboratory experiment and comparison with T-matrix numerical simulations.
Alain MIFFRE, Tahar MEHRI, Patrick RAIROUX

P3-BAP-FUND-040 Linking structural and chemical characteristics of soot particles to their optical absorption in the uv-visible.
Iman MARHABA, Daniel FERRY, Philippe PARENT, Carine LAFFON, Jérôme YON, Alexandre BESCOND, François-Xavier OUF, Tom Z. REGIER

P3-BAP-FUND-041 Source apportionment of brown carbon from urban ambient aerosols.
Nivedita KRISHNA KUMAR, Imad EL HADDAD, Kaspar DÄLLENBACH , André S. H. PRÉVÔT , Jay SLOWIK, Urs BALTENSPERGER

P3-BAP-FUND-042 Performance Testing of a Handheld Nebulizer.
Yu-Mei KUO, Sheng-Hsiu HUANG, Tsung-Han YANG, Ning YU, Chih-Chieh CHEN

P3-BAP-AC — BASIC AEROSOL PROCESSES

16:10 - 18:10 POSTER SESSION — *Poster area*

BASIC AEROSOL PROCESSES - AEROSOL CHEMISTRY

P3-BAP-AC-001 Investigation of higher molecular organic compounds in a city waste incineration ash and comparison with real samples by single particle laser desorption bipolar mass spectrometry.
Christof BARTH, Klaus-Peter HINZ, Bernhard SPENGLER

P3-BAP-AC-002 Single particle chemical analysis of various laboratory generated aerosols by using newly developed single particle mass spectrometer.
Kihong PARK, Donggeun LEE, Hee-Joo CHO

P3-BAP-AC-003 Determination of dicarboxylic acids in atmospheric aerosols using continuous Aerosol Counterflow Two-Jets Unit.
Pavel MIKUŠKA, Lukáš ČAPKA, Kamil KŘŮMAL, Zbyněk VEČEŘA

P3-BAP-AC-004 Quantification of organic and inorganic particles by LAAP-ToF-MS.
Rachel GEMAYEL, Brice TEMIME-ROUSSEL, Stig HELLEBUST, Henri WORTHAM, Saso GLIGOROVSKI

P3-BAP-AC-005 Consolidation of equivalence between EDXRF and GF-AAS analytical techniques for particulate matter on filter samples.
Vasiliki VASILATOU, Manousos Ioannis MANOUSAKAS , Vasiliki KANTARELOU, Konstantinos ELEFTHERIADIS

P3-BAP-AC-006 Implications of inorganic salt interferences on Aerodyne AMS and ACSM organic aerosol composition studies.
Simone PIEBER, Imad EL HADDAD, Jay G. SLOWIK, Manjula R. CANAGARATNA, John T. JAYNE, Stephen M. PLATT, Carlo BOZZETTI, Kaspar R. DAELLENBACH, Roman FRÖHLICH, Athanasia VLACHOU, Felix KLEIN, Josef DOMMEN, Branka MILJEVIC, Jose L JIMENEZ, Doug R. WORSNOP, Urs BALTENSPERGER, André S. H. PRÉVÔT

P3-BAP-AC-007 An Automated Baseline Correction Method for Atmospheric Aerosol Infrared Spectra Collected on Polytetrafluoroethylene (Teflon) Filters.
Adele KUZMIAKOVA, Ann DILLNER, Satoshi TAKAHAMA

P3-BAP-AC-008 ACMCC: Aerosol Chemical Monitor Calibration Centre: An overview of the recent intercomparison exercise.
Evelyn FRENEY, Olivier FAVEZ, Valerie GROSE, Jean SCIARE, Tanguy AMEDEO, Francois TRUONG, John JAYNE, Philip CROTEAU, Leah WILLIAMS

P3-BAP-AC-009 Improvements of the laser two-step mass spectrometry (L2MS) technique for the surface analysis of aerosol particles using VUV coherent sources.
Yvain CARPENTIER, Cornelia IRIMIEA, Ismael-Kenneth ORTEGA, Claire PIRIM, Bertrand CHAZALLON, Michael ZISKIND, Alessandro FACCINETTO, Cristian FOCSA

P3-BAP-AC-010 Possibility of drastically enhancing the capture capability of CO2 with ammonia through the control of drop size distribution.
M. K. CHO, M. K. CHOI, J. W. LEE

P3-BAP-AC-011 Aqueous-phase formation of methylnitrocatechols as important SOA tracers of biomass burning organic aerosols.
Kristijan VIDOVIĆ, Irena GRGIĆ, Sanja FRKA, Martin ŠALA, Ana KROFLIČ

P3-BAP-AC-012 Molecular level study of palmitic acid substrate on nacl(100): physical phenomena of atmospheric interest.
Josip LOVRIĆ, S. BRIQUEZ, D. DUFLOT, M. MONNERVILLE, C. TOUBIN

P3-BAP-AC-013 Heterogeneous interaction of volatile organic compounds with natural mineral dust surfaces under simulated atmospheric conditions.
Manolis ROMANIAS, Mohamad ZEINEDDINE, Vincent GAUDION, Frédéric THEVENET, Véronique RIFFAULT

P3-BAP-AC-014 Gas–particle partitioning of gaseous elemental mercury.
Uday KURIEN, Hu ZHENZHONG, Ashu DASTOOR, Parisa ARIYA

P3-BAP-AC-015 The interaction of water with aircraft soot and their surrogates.
Iman MARHABA, Philippe PARENT, Carine LAFFON, Daniel FERRY, François-Xavier OUF, Tom REGIER

P3-BAP-AC-016 Aerosol formation during the condensation of fast pyrolysis vapours.
Yannik ILLE, Nicolaus DAHMEN, Karlheinz SCHABER

P3-BAP-AC-017 Aerosol formation in a double-stage acid recovery process.
Philipp HAMBERGER, Karlheinz SCHABER

P3-BAP-AC-018 Highly Oxidized RO2 Radicals and Consecutive Products from the Ozonolysis of Three Sesquiterpenes.
Stefanie RICHTERS, Hartmut HERRMANN, Torsten BERNDT

P3-BAP-AC-019 Modelling the interaction of semi-volatile organic compounds with multiphase aerosol particles using polyparameter linear free energy relationships.
Pourya SHAHPOURY, Sophie TOMAZ, Emilie PERRAUDIN, Eric VILLENAVE, Alexandre ALBINET , Zoran KITANOVSKI, Gerhard LAMMEL

P3-BAP-AC-020 Water Interactions with Organic Surfaces Studied with the Environmental Molecular Beam Method.
Sofia M. JOHANSSON, Xiangrui KONG, Panos PAPAGIANNAKOPOULOS, Erik S. THOMSON, Jan B.c. PETTERSSON

P3-BAP-AC-021 Cfd modelling of aerosol deposition in ventilation ducts.
Thomas GELAIN, Jérôme RICHARD, Laurent RICCIARDI

P3-BAP-AC-022 Comparison of nanosecond and femtosecond laser ablation in a single particle mass spectrometer.
Ramakrishna RAMISETTY, Ahmed ABDELMONEM, Xiaoli SHEN, Harald SAATHOFF, Thomas LEISNER, Claudia MOHR

P3-BAP-AC-023 Horiba PM2.5 elemental continuous analysis in ambiant air.
Jean-Clair BALLOT

P3-BAP-AC-024 Chemical modification of particles containing peroxides due to mixing with particles containing ammonium iodide detected by aerosol mass spectrometry.
Marcel WELOE, Thorsten HOFFMANN

P3-BAP-AC-025 Autooxidation reaction study of photolyzed iodoalkanes under atmospheric conditions.
Dominik PITTON, Hoffmann THORSTEN

18:30 - 19:00 BUS DEPARTURE *Vinci Conference Center*

19:00 - 23:00 CONFERENCE DINNER *La Grange de Meslay*

NOTES

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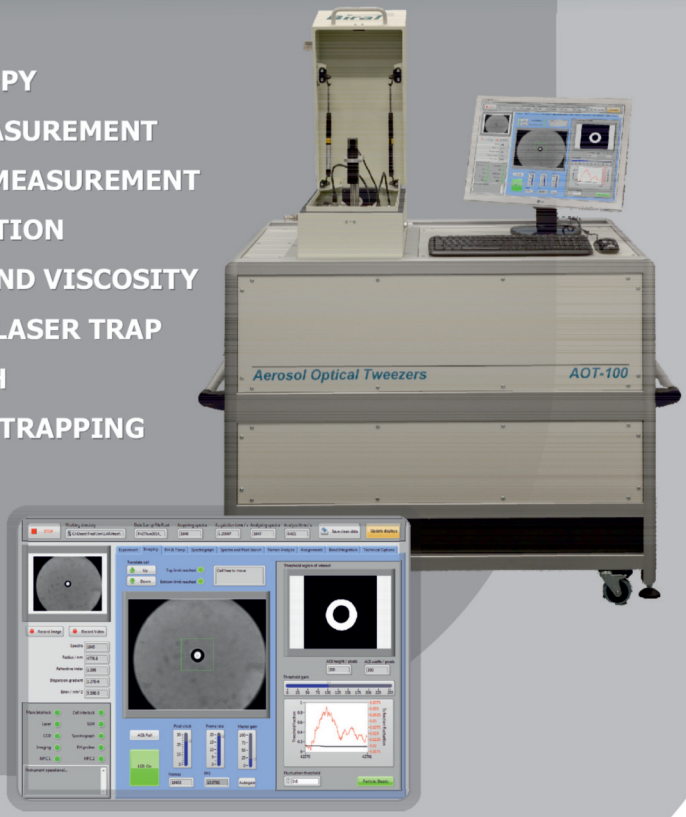
AOT-100
AEROSOL OPTICAL TWEEZERS

FOR THE TIME-RESOLVED ANALYSIS OF SINGLE TRAPPED PARTICLES

- RAMAN SPECTROSCOPY
- PRECISION SIZE MEASUREMENT
- REFRACTIVE INDEX MEASUREMENT
- CHEMICAL COMPOSITION
- SURFACE TENSION AND VISCOSITY
- PARTICLES HELD IN LASER TRAP
- FULL CONTROL OF RH
- MULTIPLE PARTICLE TRAPPING



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PROGRAMME

FRIDAY 09 SEPTEMBER

ATMOSPHERIC AEROSOL STUDIES

AAP: Atmospheric Aerosol Processes

AEROSOL TECHNOLOGY

ABN: Aerosol Based Nanotechnology / **CA:** Combustion Aerosol / **EE:** Electrical Effect

AEROSOL MEASUREMENT TECHNIQUES

INST: Instrumentation/ **PMX:** PMx

AEROSOL AND HEALTH

IND: Indoor and working place aerosol/ **IEH:** Inhalation, Exposures and Health

BASIC AEROSOL PROCESSES

AC: Aerosol Chemistry/ **AM:** Aerosol Modelling/ **FUND:** Fundamentals

Friday, September 9

08:00 - 12:00	Registration				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
08:30 - 09:30	Plenary Lecture 5 **Aerosoltherapy of Monoclonal Antibodies for Respiratory Diseases** Nathalie HEUZÉ-VOURC'H Chairmen: Patrice DIOT and Werner HOFMANN				
09:30 - 09:45	**Best posters Awards**				
09:45 - 10:10	Coffee break				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
10:10 - 12:30	**36-AH-IEH3** INHALATION EXPOSURE AND HEALTH **Health, infectious diseases and hospital environment** Chairs: Otto HÄNNINEN and Christina ISAXON	**37-BAP-FUND1** FUNDAMENTAL **Nucleation and Growth** Chairs: Hanna VEHKAMÄKI and Paul WINKLER	**38-AH-SS6** SPECIAL SESSION 6: BIOAEROSOLS **Bioaerosols** Chairs: Philippe DUQUENNE and Enric ROBINE	**39-AMT-PMX2** PMX **Source apportionment tools and applications** Chairs: Franco LUCARELLI and Nikos MIHALOPOULOS	**40-BAP-AC2** AEROSOL CHEMISTRY **Anthropogenic Influence on Secondary Organic Aerosol** Chairs: Martin BRÜGGEMANN and Ismael Kenneth ORTEGA COLOMER
12:30 - 14:00	Lunch				
	Auditorium Pierre de Ronsard	*Auditorium Descartes*	*Room 1 - Level 2*	*Room 2 - Level 2*	*Room 3 - Level 2*
14:00 - 15:40	**41-AH-IEH4** INHALATION EXPOSURE AND HEALTH **Processes and behavior of aerosol particles in the respiratory tract** Chairs: Werner HOFMANN and Otto HÄNNINEN	**42-BAP-FUND2** FUNDAMENTAL **Structure and Dynamics of nanoparticles** Chairs: Yannis DROSSINOS and Eirini GOUDELI	**43-AH-IND2** INDOOR AND WORKING PLACE AEROSOL **Exposure and health** Chairs: Mar VIANA and Aneta WIERZBICKA	**44-AMT-PMX3** PMX **PMx characterization: sources and processes** Chairs: Véronique RIFFAULT and Jaroslav SCHWARZ	**45-BAP-AC3** AEROSOL CHEMISTRY **Methods and Techniques for Aerosol Characterisation** Chairs: Josef DOMMEN and Sarah STEIMER
15:40 - 16:00	**Conference Closure**				

FRIDAY 09 SEPTEMBER

08:00 - 12:00 REGISTRATION *Welcome Desk*

PL5 **AEROSOL AND HEALTH**

08:30 - 09:30 PLENARY LECTURE 5 *Auditorium Pierre de Ronsard*

AEROSOLTHERAPY OF MONOCLONAL ANTIBODIES FOR RESPIRATORY DISEASES.

Chairmen: Patrice DIOT (Tours, FRANCE), Werner HOFMANN (Salzburg, AUSTRIA)

Plenary Speaker: Nathalie HEUZÉ-VOURC'H (Tours, FRANCE)

09:30 - 09:45 BEST POSTERS AWARDS *Auditorium Pierre de Ronsard*

09:45 - 10:10 COFFEE BREAK *Exhibition Hall*

36-AH-IEH2 **AEROSOL AND HEALTH**

10:10 - 12:30 INHALATION EXPOSURE AND HEALTH *Auditorium Pierre de Ronsard*

HEALTH, INFECTIOUS DISEASES AND HOSPITAL ENVIRONMENT

Chairmen: Otto HÄNNINEN (Helsinki, FINLAND), Christina ISAXON (SWEDEN)

10:10 - 10:30

036-AH-IEH-08 Surgical smoke aerosol: exposure assessment and respiratory protection.

Sergey GRINSHPUN, Shuang GAO, Michael YERMAKOV, Yousef ELMASHAE, Tiina REPONEN, Richard KOEHLER

10:30 - 10:50

O36-AH-IEH-09 Indoor air quality in French hospitals: Physical-chemical results.

Estelle BAURES, Fabien MERCIER, Pierre LE CANN, Olivier BLANCHARD, Emilie SURGET, Jean-Pierre GANGNEUX, Arnaud FLORENTIN

10:50 - 11:10

O36-AH-IEH-11 Airborne biological particles and allergy.

Michel THIBAUDON, Gilles OLIVER

11:10 - 11:30

O36-AH-IEH-13 Next generation instrumentation to study infectious species on an aerosol.

Allen HADDRELL, Mara OTERO-FERNANDEZ, Jonathan REID

11:30 - 11:50

O36-AH-IEH-14 Performing Inhalation Exposures Using Infectious Microorganisms and Toxins: Conducting Them Safely, Accurately, and Reproducibly.

Roy BARNEWALL

11:50 - 12:10

RESERVE PAPER / P3-AH-IEH-010 Adjuvant Function of Diesel and Toner particles in the Development of Allergies.

Fangxia SHEN, I. BELLINGHAUSEN, J. SALOGA, K. BECKER, F. LIU, C. J. KAMPF, S. LAI, D. SCHUPPAN, Lucas KURT, Pöschl ULRICH

12:10-12:30

RESERVE PAPER / P3-AH-SS6-015 Airborne bacteria in hospital operating theatres during surgery.

Malin ALSVED, Anette CIVILIS, Peter EKOLIND, Ann TAMMELIN, Anette ERICHSEN ANDERSSON, Jonas JAKOBSSON, Tobias SVENSSON, Matts RAMSTORP, Tina SANTL TEMKIV, Mats BOHGARD

37-BAP-FUND1 BASIC AEROSOL PROCESSES

10:10 - 12:30 FUNDAMENTAL *Auditorium Descartes*

NUCLEATION AND GROWTH

Chairmen: Hanna VEHKAMÄKI (Helsinki, FINLAND), Paul WINKLER (Vienna, AUSTRIA)

10:10 - 10:30

O37-BAP-FUND-01 Atomistic modeling of heterogeneous nucleation of ice.

Olli PAKARINEN, Tuomo PONKKONEN, Hanna VEHKAMÄKI

10:30 - 10:50

O37-BAP-FUND-02 Heterogeneous vapor uptake by single atom ions of both polarities using a differential mobility analyzer – mass spectrometer (DMS-MS).

Anne MAISSER, Jikku THOMAS, Christopher HOGAN

10:50 - 11:10

O37-BAP-FUND-03 Surface tension of sulfur nanoparticles as determined from nucleation experiments.

Sergey VALIULIN, Andrew ONISCHUK, Stefano DI STASIO, Sergey VOSEL, Anatoli BAKLANOV, Vladimir KARASEV

11:10 - 11:30

O37-BAP-FUND-04 On the temperature dependence of heterogeneous nucleation of n-butanol vapor on silver and sodium chloride nanoparticles.

Tauber CHRISTIAN, Paul WAGNER, Paul WINKLER

11:30 - 11:50

O37-BAP-FUND-05 Heterogeneous nucleation onto ions and neutralized ions - insights into sign-preference.

Juha KANGASLUOMA, Samodurov ALEXANDER, Attoui MICHEL, Alessandro FRANCHIN, Heikki JUNNINEN, Frans KORHONEN, Theo KURTEN, Hanna VEHKAMÄKI, Mikko SIPILÄ, Katrianne LEHTIPALO, Douglas WORSNOP, Tuukka PETÄJÄ, Markku KULMALA

11:50 - 12:10

O37-BAP-FUND-06 Chemical composition of (cluster) ions observed by APi-TOF during nucleation.

Mao XIAO, Federico BIANCHI, Carla FREGE, Sarnela NINA, Chao YAN, Olga GARMASH, Tuija JOKINEN, Heikki JUNNINEN, Ugo MOLTENI, Wei NIE, Lauriane QUÉLÉVER, Matti RISSANEN, Markku KULMALA, Mikko SIPILÄ, Douglas WORSNOP, Urs BALTENSPERGER, Josef DOMMEN

12:10 - 12:30

O37-BAP-FUND-07 Simulation of the Size-Composition Distribution of Atmospheric Nanoparticles over Europe.

David PATOULIAS, Christos FOUNTOUKIS, Ilona RIIPINEN, Spyros PANDIS

RESERVE PAPER / P3-BAP-FUND-002 Limitation of water accommodation on organic-coated water surfaces.

Gozde ERGIN, Satoshi TAKAHAMA

38-AH-SS6 AEROSOL AND HEALTH

10:10 - 12:30 SPECIAL SESSION 6: BIOAEROSOLS *Room 1 (Level 2)*

BIOAEROSOLS

Chairmen: Philippe DUQUENNE (Vandoeuvre-Lès-Nancy, FRANCE), Enric ROBINE (Champs-sur-Marne, FRANCE)

10:10 - 10:30

O38-AH-SS6-01 Fungi in indoor air – sources, exposure and health effects.

Tiina REPONEN

10:30 - 10:50

O38-AH-SS6-02 Microorganisms from clouds: Interactions with H2O2.

Anne Marie DELORT, Nolwenn WIRGOT, Audrey LALLEMENT, Mickael VAITILINGOM, Laurent DEGUILLAUME, Martine SAMCELME, Pierre AMATO, Virginie VINATIER

10:50 - 11:10

O38-AH-SS6-03 A new bioaerosol chamber for validation of bioaerosol samplers.

Clara POGNER, Verena UNTERWURZACHER, Anja KONLECHNER, Markus GORFER, Manfred HINKER, Annette KOLK, Leander MÖLTER, Joseph STRAUSS, Sabine GOLLER

11:10 - 11:30

O38-AH-SS6-04 Seasonal variation of airborne bacterial and fungal communities in different size fractions in an urban and a semi-urban residential environment using molecular techniques.

Nikoletta GRYDAKI, Ian COLBECK, Corinne WHITBY

11:30 - 11:50
038-AH-SS6-05 Gradient of bioaerosol impaction/deposition defined by biomimetic passive sensors.
Jean Jacques GODON, Amandine GALÈS, Eric LATRILLE, Jean-Philippe STEYER, Nathalie WÉRY
11:50 - 12:10
038-AH-SS6-06 Improved endotoxin detection and characterisation from biowaste and intensive agriculture.
Sean TYRREL, Simon JACKSON, Enda HAYES, Toni GLADDING, Allan BENNETT
12:10 - 12:30
038-AH-SS6-07 Characterisation of bioaerosols and evaluation of biological risks at the workplace: recent advances and perspectives.
Philippe DUQUENNE

RESERVE PAPER / P3-AH-IEH-009 Design and performance of Personal Electrostatic Bioaerosol Sampler (PEBS).
Gediminas MAINELIS, Taewon HAN

39-AMT-PMX2 AEROSOL MEASUREMENT TECHNIQUES

10:10 - 12:30 PMX *Room 2 (Level 2)*

SOURCE APPORTIONMENT TOOLS AND APPLICATIONS
Chairmen: Franco LUCARELLI (Sesto Fiorentino, ITALY), Nikos MIHALOPOULOS (Heraklion - Crete, GREECE)

10:10 - 10:30
039-AMT-PMx-08 Nitrogen's stable isotopes as a proxy to determine ammonium sources in PM using a Monte Carlo's simulation.
Samuel WEBER, Benjamin GOLLY, Olivier FAVEZ, Sebastien CONIL, Joël SAVARINO, Jean-Luc JAFFREZO
10:30 - 10:50
039-AMT-PMx-09 Source apportionment of PM2.5 in the Balkan region: Identification of major emission sources and variability of source chemical profiles.
Evangelia DIAPOULI, Manousos-Ioannis MANOUSAKAS, Vasiliki KANTARELOU, Niko CIVICI, Kresimir SEGA, Ivan BESLIC, Silvije DAVILA, Konstantinos ELEFTHERIADIS
10:50 - 11:10
039-AMT-PMx-10 Study of PM10 in a polluted area in Tuscany in the proximity of a waste incinerator.
Franco LUCARELLI, Giulia CALZOLAI, Massimo CHIARI, Silvia NAVA, Martina GIANNONI, Silvia BECAGLI, Roberto UDISTI, Valter BARRERA
11:10 - 11:30
039-AMT-PMx-11 Source apportionment of ambient particle number concentrations in central Los Angeles using positive matrix factorization (PMF).
Mohammad Hossei SOWLAT, Sina HASHEMINASSAB, Constantinos SIOUTAS
11:30 - 11:50
039-AMT-PMx-12 The Source Apportionment Delta tool.
Denise PERNIGOTTI, Claudio A. BELIS
11:50 - 12:10
039-AMT-PMx-13 Harmonized PM source apportionment on a large set of various French sites using constrained Positive Matrix Factorization.
Dalia SALAMEH, Olivier FAVEZ, Benjamin GOLLY, Jean Luc BESOMBES, Laurent ALLEMAN, Alexandre ALBINET, Jean Luc JAFFREZO
12:10 - 12:30
039-AMT-PMx-14 Inter-comparison of PMF and CMB receptor models for PM10 source apportionment in three sites in central Italy.
Daniela CESARI, Silvana IACOBELLIS, Antonio DONATEO, Giancarlo POTENZA, Carmela TORTORELLA, Marianna CONTE, Daniele CONTINI

40-BAP-AC2 BASIC AEROSOL PROCESSES

10:10 - 12:30 AEROSOL CHEMISTRY *Room 3 (Level 2)*

ANTHROPOGENIC INFLUENCE ON SECONDARY ORGANIC AEROSOL
Chairmen: Martin BRÜGGEMANN (Mainz, GERMANY), Ismael Kenneth ORTEGA COLOMER (Palaiseau, FRANCE)

10:10 - 10:30
040-BAP-AC-08 On the (trans)formation of secondary biomass burning aromatic pollutants in the atmosphere.
Ana KROFLIČ, Janine SCHINDELKA, Olaf BÖGE, Hartmut HERRMANN

10:30 - 10:50

O40-BAP-AC-09 Identification of methynitrocatechols in atmospheric particulate matter: quantum chemical calculations and experimental evidence.

Sanja FRKA, Martin ŠALA, Ana KROFLIČ, Matej HUŠ, Alen ČUSAK, Irena GRGIĆ

10:50 - 11:10

O40-BAP-AC-10 Ageing of the chemical fingerprint at the molecular level of emissions generated by wood burning: a smog chamber study.

Amelie BERTRAND, Giulia STEFENELLI, Emily BRUNS, Simone PIEBER, Brice TEMIME-ROUSSEL, Felix KLEIN, Jay SLOWIK, Andre PREVOT, Imad EL HADDAD, Henri WORTHAM, Nicolas MARCHAND

11:10 - 11:30

O40-BAP-AC-11 Investigation of SOA from Anthropogenic Precursors using online Extractive Electrospray Ionization Mass Spectrometry.

Veronika POSPISILOVA, Felipe LOPEZ-HILFIKER, Deepika BHATTU, Felix KLEIN, Marteen HERINGA, Emily BRUNS, Andre PREVOT, Urs BALTENSPERGER, Jay SLOWIK

11:30 - 11:50

O40-BAP-AC-12 Measurements of toxic nitramines and nitrosamines in particles formed during the photochemical degradation of amine emissions from co2 capture plants.

Naomi FARREN, William UNSWORTH, Liang ZHU, Tomas MIKOVINY, Barbara D'ANNA, Armin WISTHALER, Wen TAN, Claus NIELSEN, Jacqueline HAMILTON

11:50 - 12:10

O40-BAP-AC-13 Photochemical reaction at the air-water interface and effect on atmospheric nitric oxide.

Nathalie HAYECK, Stéphanie ROSSIGNOL, Peter ALPERT, Sébastien PERRIER, Martin BRÜGGEMANN, Liselotte TINEL, Monica PASSANANTI, Christian GEORGE

12:10 - 12:30

O40-BAP-AC-14 Gas phase diffusion coefficients of atmospheric reactive trace gases and Knudsen numbers for gas uptake calculations.

Mingjin TANG, Manabu SHIRAIWA, Ulrich PÖSCHL, Tony COX, Markus KALBERER

RESERVE PAPER / P3-BAP-AC-017 Aerosol formation in a double-stage acid recovery process.

Philipp HAMBERGER, Karlheinz SCHABER

12:30 - 14:00 FREE LUNCH BREAK *Vinci Conference Center*

41-AH-IEH3 AEROSOL AND HEALTH

14:00 - 15:40 INHALATION EXPOSURE AND HEALTH *Auditorium Pierre de Ronsard*

PROCESSES AND BEHAVIOR OF AEROSOL PARTICLES IN THE RESPIRATORY TRACT

Chairmen: Werner HOFMANN (Salzburg, AUSTRIA), Otto HÄNNINEN (Helsinki, FINLAND)

14:00 - 14:20

O41-AH-IEH-15 Aerosol dynamics model for the hygroscopic growth of NaCl particles and resulting deposition in the human lung.

Renate WINKLER-HEIL, Werner HOFMANN, Lukas PICHELSTORFER

14:20 - 14:40

O41-AH-IEH-16 The penetration of polystyrene particles through the airways investigated by accelerator mass spectrometry.

Viktoriya SEMEYKINA, Ekaterina PARKHOMCHUK, Alexandra SELIVANOVA, Dayana GULEVICH, Anatoly BAKLANOV, Andrei TARATAYKO, Sergei RASTIGEEV, Vasiliy PARKHOMCHUK

14:40 - 15:00

O41-AH-IEH-17 Chemical characterization of size-resolved fine particles in human exhaled breath by using single particle aerosol mass spectrometry.

Xue LI, Lei HUANG, Zhengxu HUANG, Zhen ZHOU

15:00 - 15:20

O41-AH-IEH-18 Deposition of industrial aerosols in the human respiratory tract.

Mona MOUSTAFA, Werner HOFMANN, Imre BALASHAZY, Agnes JOKAY, Peter FURI, Blanka CZITROVSZKY, Arpad FARKAS

15:20 - 15:40

O41-AH-IEH-19 Development of a drug and device for an efficient alveolar delivery of a neutralizing monoclonal antibody to treat pulmonary intoxication to ricin.

Renaud RESPAUD, Denis MARCHAND, Thibaut PELAT, Kam-Meng TCHOU-WONG, Chad J. ROY, Christelle PARENT, Philippe THULLIER, Emmanuelle GUILLOT-COMBE, Laurent VECELLIO, Nathalie HEUZÉ-VOURC'H

RESERVE PAPER / P3-AH-IEH-020 Physical characteristics of cigarette smoke and e-cigarette aerosol, inhalation conditions and their implications for dose.
John MCAUGHEY, Caner U YURTERI, Ross CABOT, Lukas PICHELSTORFER, Renate WINKLER-HEIL, Werner HOFMANN

42-BAP-FUND2 — BASIC AEROSOL PROCESSES

14:00 - 15:40 FUNDAMENTAL — *Auditorium Descartes*

STRUCTURE AND DYNAMICS OF NANOPARTICLES

Chairmen: Yannis DROSSINOS (Ispra, ITALY), Eirini GOUDELI (Zurich, SWITZERLAND)

14:00 - 14:20
O42-BAP-FUND-08 The crystal structure and sintering of coalescing gold nanoparticles and its alloys.
Eirini GOUDELI, Sotiris E. PRATSINIS
14:20 - 14:40
O42-BAP-FUND-09 Computational modelling of oleic acid at the air–water interface.
Jana GESSNER, Christian PFRANG, David NUTT
14:40 - 15:00
O42-BAP-FUND-10 3D Computational Fluid Dynamics Modelling of Direct Ultraviolet Photoionization and Charge Recombination of Ultrafine Particles.
Robert NISHIDA, Adam BOIES, Simone HOCHGREB
15:00 - 15:20
O42-BAP-FUND-11 Spreading of an aerosol cloud heated by illumination.
Daniyar BALAPANOV, Andrei VEDERNIKOV, Jürgen BLUM
15:20 - 15:40
O42-BAP-FUND-12 Modeling aerosol scavenging by drops: from microphysical CFD simulations to a global collection kernel.
Gaël CHERRIER, Emmanuel BELUT, Anne TANIERE, Nicolas RIMBERT, Fabien GERARDIN

RESERVE PAPER / P3-BAP-FUND-001 Multivariate Modeling of Soot Particles with the Hybrid Method of Moments.
Raymond LANGER, Achim WICK, Michael MUELLER, Heinz PITSCH

43-AH-IND2 — AEROSOL AND HEALTH

14:00 - 15:40 INDOOR AND WORKING PLACE AEROSOL — *Room 1 (Level 2)*

EXPOSURE AND HEALTH

Chairmen: Aneta WIERZBICKA (Lund, SWEDEN), Olivier WITSCHGER (Nancy, FRANCE)

14:00 - 14:20
O43-AH-IND-09 Dynamic properties of exhaled e-cigarette aerosol vs. conventional cigarette smoke.
Ari SETYAN, Tadas PRASAUSKAS, Dainius MARTUZEVICIUS, Grant O'CONNELL, Xavier CAHOURS, Stéphane COLARD
14:20 - 14:40
O43-AH-IND-11 Exposure Assessment of Nanomaterials at production sites based on Short Time Sampling: Methodology & Strategy of the STS-EA approach.
Christophe BRESSOT, Tanga JAYABALAN, G. FAYET, O. AGUERRE-CHARIOL, Neeraj SHANDILYA
14:40 - 15:00
O43-AH-IND-12 Conceptual considerations to establish a framework on release for nanomaterials.
Thomas A.j. KUHLBUSCH, Heinz KAMINSKI, Araceli SÁNCHEZ JIMÉNEZ, Yaobo DING, Martie VAN TONGEREN, Michael RIEDIKER, Simon CLAVAGUERA, Henk GOEDE, Burkhard STAHLMECKE
15:00 - 15:20
RESERVE PAPER / P3-AH-IND-003 UV-C decontamination of aerosolized and surface bound single spores and bioclusters.
Jana KESAVAN
15:20 - 15:40
RESERVE PAPER / P3-AH-IEH-022 Floor dust PAHs inside university lecture rooms, offices and workshop.
Androniki MARAGKIDOU, Y. MA, O. JAGHBEIR, D. FAOURI, S. HARRAD, A. AL-HUNAITI, S. ARAR, K. HÄMERI, T. HUSSEIN

44-AMT-PMX3 AEROSOL MEASUREMENT TECHNIQUES

14:00 - 15:40 PMX *Room 2 (Level 2)*

PMX CHARACTERIZATION: SOURCES AND PROCESSES

Chairmen: Véronique RIFFAULT (Douai, FRANCE), Jaroslav SCHWARZ (Prague, CZECH REPUBLIC)

14:00 - 14:20

O44-AMT-PMx-15 Real-time chemical characterization of submicron particles in M'Bour, Senegal during the 2015 dry season.

Laura-Hélèna RIVELLINI, Véronique RIFFAULT, Isabelle CHIAPELLO, Emmanuel TISON, Marc FOURMENTIN

14:20 - 14:40

O44-AMT-PMx-16 Scale-Dependent Spatiotemporal Patterns of fine PM concentrations.

Yael ETZION, David M. BRODAY

14:40 - 15:00

O44-AMT-PMx-17 Controlling air pollution at construction sites.

Gary FULLER, Anna FONT

15:00 - 15:20

O44-AMT-PMx-18 Origins of PM10 in northern coast of France: a one year study to estimate maritime contributions in the Strait of Dover.

Cloe ROCHE, Frédéric LEDOUX, Mireille BORGIE, Gilles DELMAIRE, Gilles ROUSSEL, Matthieu PUIGT, Dominique COURCOT

15:20 - 15:40

RESERVE PAPER / P3-AMT-PMx-005 GAW global site Hohenpeißenberg –how has the aerosol load changed over the years?

Johanna ESSER-GIETL, Michael ELSASSER, Harald FLENTJE, Adele HENKE, Werner THOMAS

45-BAP-AC3 BASIC AEROSOL PROCESSES

14:00 - 15:40 AEROSOL CHEMISTRY *Room 3 (Level 2)*

METHODS AND TECHNIQUES FOR AEROSOL CHARACTERISATION

Chairmen: Josef DOMMEN (Villigen, SWITZERLAND), Sarah STEIMER (Cambridge, UK)

14:00 - 14:20

O45-BAP-AC-15 A new on-line monitor for in-situ, time-resolved characterization of the ability of ambient particles to generate reactive oxygen species.

Arantzazu EIGUREN-FERNANDEZ, Arantzazu EIGUREN-FERNANDEZ, Nathan KREISBERG, Susanne HERING

14:20 - 14:40

O45-BAP-AC-16 Finding the building blocks of atmospheric nucleation clusters - the nanoTOF project.

Gerhard STEINER, Martin BREITENLECHNER, Werner JUD, Lukas FISCHER, Markus LEIMINGER, Armin HANSEL

14:40 - 15:00

O45-BAP-AC-17 Computational tools for functional group analysis of organic aerosols.

Satoshi TAKAHAMA, Matteo REGGENTE, Giulia RUGGERI, Adele KUZMIAKOVA, Fabian BERNHARD, Barron HENDERSON, Ann DILLNER

15:00 - 15:20

O45-BAP-AC-18 Single aerosol particle composition using vibrational spectroscopy.

Jay EVERSOLE, Vasanthi SIVAPRAKASAM, Matthew HART, Paul LANE, Johnathan RICHARDSON, Brien SAAR, William HERZOG

15:20 - 15:40

O45-BAP-AC-19 Elemental composition of ambient aerosols measured in high temporal resolution with an online x-ray fluorescence spectrometer.

Markus FURGER, Jay SLOWIK, Mari Cruz MINGUILLON, Roman FROEHLICH, Christoph HUEGLIN, Chris KOCH, Krag PETTERSON, Urs BALTENSPERGER, Andre PREVOT

RESERVE PAPER / P3-BAP-AC-009 Improvements of the laser two-step mass spectrometry (L2MS) technique for the surface analysis of aerosol particles using VUV coherent sources.

Yvain CARPENTIER, Cornelia IRIMIEA, Ismael-Kenneth ORTEGA, Claire PIRIM, Bertrand CHAZALLON, Michael ZISKIND, Alessandro FACCINETTO, Cristian FOCSA

15:40 - 16:00 CONFERENCE CLOSURE *Auditorium Pierre de Ronsard*

NOTES

Cooper Environmental sold the first commercially available continuous ambient multi-metals monitor in 2008 when it introduced the Xact® 620, allowing aerosol researchers to capture high time resolution metals concentrations with detection limits that rivaled laboratory analysis.

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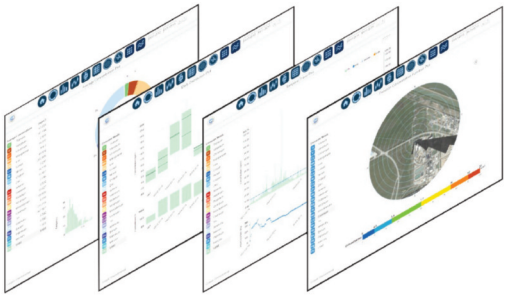

ADAPT Screenshots

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- Services
- Training courses

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In conjunction with ARI's research activities, we also manufacture and sell high sensitivity, fast time response instrumentation for environmental air quality monitoring and atmospheric research. These instruments include Aerosol Mass Spectrometers, Quantum Cascade Laser Trace Gas Detectors, Aerosol Chemical Speciation Monitors (ACSM), Particle Optical Extinction (CAPSPMex) monitors, and ultrasensitive nitrogen dioxide (CAPS NO2) monitors.

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Magee Scientific Aethalometer®, instrument for measurement of Black Carbon, is manufactured at "Aerosol d.o.o." in Ljubljana, 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.

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Black Carbon is the second most important climate forcer and highly correlated with detrimental health effects of air pollution. Measurements by the Aethalometer® of aerosol absorption at different wavelengths of light provide information specific to sources and enable discrimination between biomass and fossil fuel combustion aerosols by ambient measurements, and detection of mineral.

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Visit MAGEE - AEROSOLL at booth 1

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San Francisco, CA 94110 USA
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Website: https://aethlabs.com

AethLabs is the manufacturer of the microAeth® Family of portable instruments that measure light absorbing carbonaceous aerosols. microAeth® products are built on the proven Aethalometer® measurement technology, used world-wide for over 30 years.

Visit AETHLABS at booth 31

AIRMODUS LTD.

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Airmodus nano particle counting technologies fill the gap between traditional aerosol particle size distribution measurements and gas phase monitoring. Nucleation researchers can now observe clusters of molecules and the nucleated particles when they are as small as 1 nm. And, further learn about the growth of the particles using the activation spectra of 1-4 nm particles. This gives you the size distribution for both charged and neutral sub 4 nm particles.

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Website: www.biral.com

Biral manufactures Aerosol Optical Tweezers, which are instruments that offer the ability to study individual aerosol droplets over indefinite periods. Developed in collaboration with the Bristol Aerosol Research Centre at the University of Bristol the instruments are used in research applications such as atmospheric chemistry, pharmaceutical drug development and basic aerosol research.

The AOT-100 Aerosol Optical Tweezers measures droplet size with nanometre precision and refractive index with an accuracy of 0.05% using Raman spectra; results are recorded in real time with a resolution of 1 second. The humidity and gaseous medium in which the droplet is held is controlled allowing complex long term physical processes a nd chemical reactions to be studied.

Biral also designs, manufactures and distributes high quality meteorological sensors for the professional market. The company manufacturers the VPF and SWS range of Visibility and Present Weather sensors as well as the unique BTD-300 Thunderstorm Detector. Our meteorological products are used in the most demanding applications such as aviation, offshore platforms and wind energy.

Visit BIRAL at booth 24

CAMBUSTION

Address: J6 ThePaddocks
347 Cherry Hinton Road CB1 8DH Cambridge,
United Kingdom
Phone: +44 1223 210250
Fax: +44 1223 210190
Email: cambustion@cambustion.com
Web: www.cambustion.com

Cambustion announce the forthcoming Aerodynamic Aerosol Classifier (AAC) — a novel instrument for classifying aerosol particles according to aerodynamic diameter, free from charging artefacts.
The Centrifugal Particle Mass Analyzer (CPMA) continues to find new applications for generating mass-classified aerosol, e.g. investigating particle morphology, with a growing group of researchers publishing around the world.
Our established DMS series instruments offer the fastest real-time electrical mobility size/number spectra available (from 200ms T10-90% at 10Hz); in the range 5nm – 2.5µm, with unrivalled sizing accuracy across the entire size range. Applications include ambient monitoring, combustion sources, biomass burning, and engineered nanoparticle research.
With fully integrated sampling and dilution options, DMS series instruments can be used for both ambient applications and straightforward direct sampling of high concentration aerosols.

To learn more, visit Exhibition Booth No.5

°Catalytic Instruments
hot technologies • clean solutions

CATALYTIC INSTRUMENTSGMBH & 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 in- struments 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.

Visit CATALYTIC INSTRUMENTS GMBH at booth 23

COMDE DERENDA

COMDE-DERENDA GMBH

Address: Kieler Strasse 9
14532 Stahnsdorf
GERMANY
Phone: +49 3329 69027-10
Email: info@comde.de
Website: www.comde-derenda.de

Comde-Derenda GmbH is a manufacturer of devices for sampling and measuring fine dust. Our sampling devices for particulate matter PM10 and PM2.5 are reference devices according to European Guidelines CEN 12341 (PM10) and CEN 14907 (PM2.5).

Our company is certified according to DIN EN ISO 9001:2008.

Stop by our booth and see our new Air Pollution Monitor APM-2, an online pollution measurement unit for continuous monitoring of PM2.5 and PM10 particulate matter concentrations in the ambient air. An automatic sequential sampling system for sampling PM10 and PM2.5 (acc. to EN12341:2014) and PM1 particulates, the PNS 18T-DM, will also be on display. Additionally, we will be showing the AWS-1, an automatic weighing system (acc. to EN12341:2014).

Visit www.comde-derenda.de and find out what we can do for you!

Visit COMDE-DERENDA GMBH at booth 22

COOPER ENVRIONMENTAL SERVICES, LLC

Address: 9403 SW Nimbus Ave.
Beaverton, OR 97008 USA
Office Phone: +1-503-670-8127
Email: Info@cooperenvironmental.com
Website: www.cooperenvironmental.com

Since its inception in 1996, Cooper Environmental has been recognized as one of the industry leaders in elemental speciation using energy dispersive X-ray fluorescence (EDXRF) as well as a leader in consultative source apportionment studies. Cooper broke into the equipment market with the world's first near real-time multi-metals CEMs and ambient instruments. Now we are raising the bar by combining source apportionment knowledge with our powerful multi-metals ambient monitor. Our ADAPT analysis package will effortlessly combine meteorological data with our metals concentration data to help identify likely pollution sources. When combined with our multi-metals CEMs unit, enforcement personnel now have the tools to readily identify and monitor metallic pollution sources.

Visit COOPER ENVRIONMENTAL SERVICE LLC at booth 25

COPLEY SCIENTIFIC AG

Address: Erlenstrasse 27
CH- 4106 Therwil
Phone: + 41 (0)61 725 25 35
Email: sales@copleyscientific.ch
Website: www.copleyscientific.com

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 revised Real-Time Fibre Monitor Model 7400AD and Water-based Condensation Particle Counters (WCPCs) as well as our new introduced Flow Focusing Monodisperse Aerosol Generator (FMAG) which is based on a brand new technology. Our specialised office and product experts are based in Therwil, Switzerland, serving the European market.

Visit COPLEY SCIENTIFIC AG at booth 8

DEKATI LTD.

Address: Tykkitie 1 - I-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:

- Combustion Process Emission Measurements
- Engine Emission Testing and Research
- Environmental Ambient Aerosol Research and Monitoring
- Occupational Health and Safety Measurements
- Pharmaceutical Drug Screening and Inhalator R&D
- Nanotechnology and Material Processing

The highlights of our product line include the ELPI®+ product family that enables real-time measurement of particle size distribution 6 nm-10 µm and post-measurement chemical analysis of the size classified, collected samples. The High Temperature version of the ELPI®+ additionally allows direct measurement of up to 180 °C aerosol sample without the need to cool the sample, and the High Resolution ELPI®+ gives particle size distribution in up to 500 size classes making it a superior tool for detailed particle size distribution analysis.
In addition to the ELPI®+ instruments, Dekati® Product Line includes several other instruments for both particle detection and aerosol sample conditioning and dilution. The latest addition to the Dekati® Product Line is the Dekati® eFilter™ that combines standard gravimetric filter measurement and real-time detection in one compact instrument.

Visit DEKATI at booth 18

ECOMESURE

Address: Domaine technologique de Saclay
Immeuble Hermes
4, rue René Razel
91400 Saclay - FRANCE
Tél : +33 (0)1 70 56 44 00
Fax : +33 (0)1 70 56 44 21
Website : www.ecomesure.com

Ecomesure has been an expert in air quality instrumentation and metrology for more than 20 years. Our company is recognized for delivering high quality products together with an outstanding service.
We search for the best solutions, suitable for your activity:

- Sampling, measuring and analyzing instruments
- Integrated systems
- Added-value services

Moreover, Ecomesure launched two years ago a web based universal communication system: The Ecombox. Ecombox allows you to centralize data from any measuring equipment (instrument, sensors, etc.) from any brand on a unique dedicated and secure web platform which offers a wide range of services: SMS and email alerts, comparison of the results from different instruments on the same graph, mapping of your instruments, etc.

Visit ECOMESURE at booth 21

ECOTECH PT LTD.

Address: 1492 Ferntree Gully Road,
Knoxfield, Victoria,
Australia 3180
Phone: +61 3 9730 7800
Email: enquiries@ecotech.com
www.ecotech.com

Ecotech is a world leading manufacturer and provider of tailored environmental monitoring solutions. We are known for customised solutions that meet the toughest demands. Its challenging work, but the passion and commitment that got us started in business over forty years ago still remains at the heart of Ecotech.

Over the years we have built partnerships with likeminded experts who share our vision. We are acutely aware of the ever changing nature of our world and the need to stay connected with the developments. As such, we continually challenge ourselves to find ways to improve our product offering in greenhouse gases and aerosol and atmospheric research.

Our range of products for research applications includes:
Aurora Nephelometers (aerosol research)
Aerosol Conditioning System (ACS1000) (hygroscopic properties of aerosol particles)
WINAQMS (data collection for ambient air and emission monitoring applications)

Our collaborative work with the global research community funnels the insight for continuous innovation of products to support research and science.

Ecotech started distributing monitoring analysers in the 1970s; today, Ecotech operates and manages over 370 real-time monitoring sites worldwide, every day. Ecotech's global footprint includes 53 distributors, 2 manufacturing facilities and 9 branch offices across 80 countries. With extensive experience across varied high risk industry sectors such as mining, oil and gas and construction, Ecotech is recognised for customised, turn-key solutions – from design, manufacture, supply, operation and maintenance to data reporting services.

Visit ECOTECH at Booth 9

ENVICONTROL

Address : 54 Route de Sartrouville
FR-78230 Le Pecq
Phone : +33 (0)1 39 76 04 19
fr.info@envicontrol.com
www.envicontrol.com

Envicontrol is a product distribution company specialized in the gas and dust measurement. Our added value is in the customer service, whether in the proposed solutions adapted to specific needs or in accompanying material throughout his life by a high quality after-sales service. Envicontrol works not only in France with headquarters in Paris and a branch in Lyon, but also in North Africa, Belgium and the Netherlands. Envicontrol, it is 20 people at your service, . . .

We are exclusive distributors in France in products such as:

- A11 Airmodus system combines a magnifier and a CPC to measure and quantify the nanoparticles with a 1 nm detection threshold. It is also possible to analyze the distribution into classes of particle sizes between 1 and 4 nm.
- Micro Pulse Lidar Sigma Space performs profiles of aerosols and clouds in high resolution with a possible range of 25 km. The laser wavelength is 532 nm and it operates within the eye safety following ANSI Class II. This system has strong optics and requires little maintenance.
- Xact630 Cooper environmental measures according to EPA method IO 3.3 metals in the particles of ambient air by the XRF technology. More than twenty elements (Sb, As, Ba, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mn, Ni, Se, Ag, Sn, Ti, Tl, V, Zn, ...) are measured simultaneously with a detection limit of 60 µg / dscm.

Visit ENVICONTROL at booth 7

GRIMM AEROSOL TECHNIK GMBH & CO. KG

Address: Dorfstraße 9
D-83404 Ainring - Germany
Phone: +49-8654-578-0
Fax: +49-8654-578-35
E-mail: info@grimm-aerosol.com
Web: 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 the company is one of the worldwide leading companies in the field of high-tech aerosol measurement instrumentation due to its innovations and quality manufacturing. Since the 1st of October 2015, GRIMM is a member of DURAG GROUP.

GRIMM 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 support you choosing the right 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.

Worldwide first-class customer service is offered through our subsidiaries and offices in USA, Canada, China and South-East Asia, and supplemented by a close network of international representatives.

Visit GRIMM AEROSOL GMBH&Co.KG at booth 20

HILASE DEVELOPMENT,

PRODUCTION, SERVICE AND TRADING LIMITED

Address: 8000 Székesfehérvár
Berényi út 72-100 HUNGARY
Website: www.hilase.hu

Hilase was founded in 2004 as a spin-off company of the University of Szeged (Hungary). It is specialized in developing, prototyping and manufacturing instruments for measuring the concentration of gases and aerosols in various applications. For environmental monitoring and aerosol research applications Hilase offers its unique photoacoustic instrument which measures aerosol light absorption at two wavelengths in a dual detection cell configuration. One of the detection cells can be supplemented with a thermodenuder to remove the volatile fraction of the aerosol particles. Simultaneous real-time measurement of the original and the denuded particles adds an additional dimension to the analysis which e.g. results in an enhanced source apportionment capability. The Hilase instrument offers real time measurements with a minimum detectable optical absorption coefficient in the range of 0.1 Mm-1. It is capable of long term fully automatic operation; has a robust construction and a user friendly human-machine interface.

Visit HILASE at booth 29

INHALATION SCIENCES

Address: Novum
Hälsovägen 7-9 (Elevator E, Floor 6)
141 57 Huddinge
Sweden
Website: www.inhalation.se

Inhalation Sciences provides the PreciseInhale® Platform, which is a patented technology for efficient aerosol generation and precise aerosol exposures. The Platform comprises an aerosol generator and a dispensing unit. While the generator unit de-agglomerate powders to aerosols with high efficiency, the dispensing unit deliver the aerosols to different exposures modules with high precision and active dosing control.

Maximum versatility:
With the same aerosol generator you can perform:

- Aerosol characterization (MMAD and yield)
- Expose cells in an Air Liquid Interface (ALI)
- Perform dissolution studies over a non-biological artificial lung-blood barrier (Cmax and Tmax)
- Expose rodents through Nose Only
- Expose intratracheally intubated rodents
- Expose Isolated Perfused and ventilated Lung (IPL)

Milligram, not grams:
For a complete Pharmacokinetic (PK) study less than 100mg test substance is required.

Inhalation Sciences offers both contract research services and technology transfer.

Visit INHALATION SCIENCES at booth 15

INTERTEK AEROSOL INSTRUMENTATION

Address: ECOPARC 2
Email: instrumentation@intertek.com
Website: http://www.intertek-instrumentation.com/

Intertek instrumentation is the specialist in France for measurement aerosols solution from a few nanometers to more than a hundred microns with a concentration from one particle to several mg/m3. Intertek is providing solutions with a complete range of equipments for every single one of your applications.

With a large range of equipments, Intertek provide the best solution related to customer request for environment (dust monitor station, environmental CPC and SMPS), filtration (automatic filter tester, aerosols generateurs and photometer) cleanroom (particle counter and biological air sampler) aerosol reseach (aerodynamic aerosol classifier, CPC, SMPS, reel time aerosol spectrometer) health & safety (Fit tester, personal real time exposure) and air mass flowmeter.

In addition, Intertek is offering a large range of equipment available for rental or leasing.

In it's laboratoire at Rennes, the CTMA (aerosol technical and metrology center) takes care of the after sales services and the calibration of measuring instruments.

Visit INTERTEK at booth 13

MATH2MARKET GMBH

Address:
Company seat: Huberstrasse 7
67657 Kaiserslautern, Germany
Visiting address: Stiftsplatz 5
67655 Kaiserslautern, Germany
Phone: +49 631 205 605 10
Fax: +49 631 205 605 99
Email: info@math2market.de
Website: www.math2market.de

Math2Market GmbH, or M2M, develops and markets the simulation software GeoDict.

GeoDict is the most complete solution for innovative digital filter and digital filter media design. From 3D image data of filter media (µCT, FIB/SEM), CAD models of filter elements, or user-defined media parameters, it is straightforward to…

- model filter elements, pleats, and media (nonwoven, woven, meshes, ceramics, foams, cellulose, membranes, ...)
- simulate gas and liquid filtration processes (air, water, oil, fuel, …)
- analyze pore size distribution, bubble point, fluid flow, particle movement and deposition, MPPS, depth filtration, cake formation, …
- improve pressure drop, filter efficiency, and filter lifetime

Besides providing GeoDict, M2M supports and consults with clients to answer complex filtration questions. We assist in creating and varying designs to optimize processes and to cut prototyping and R&D costs. The final goal is to help gain a competitive edge by accelerating design and production.

Visit MATH2MARKET at booth 28

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.

Visit METROHM APPLIKON B.V. at booth 14

NANEOS PARTICLE SOLUTIONS GMBH

Address: Dorfstrasse 69
CH-5210 Windisch
Phone:+41 56 560 20 70
Website: www.naneos.ch

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

Visit NANEOS PARTICLE SOLUTIONS GMBH at booth 12

OXILITY B.V.

Address: Esdoornstraat 11
5682 CM Best, The Netherlands
info@oxility.com
Website: www.oxility.com

Oxility B.V. is a Dutch company, founded in 2014, with a mission: "Better Air Everywhere". As a Technology License partner of Royal Philips N.V., Oxility has taken over the NanoTracer™ technology for Ultrafine Particle Monitoring instruments. Oxility is active in the continued development, manufacturing, global service and sales of the NanoTracer™ monitoring devices.

Introduced in 2008, the NanoTracer handheld UFP monitor is used worldwide by Academic, Industrial, Governmental and NGO organizations to capture and understand the impact of UFP on our daily lives and health. With the NanoTracer XP™ the next update of the ongoing development and improvement of the Philips' UFP monitoring technology is presented.

Simple, small, accurate real-time monitoring: The Oxility NanoTracer XP™ is a hand-held, lightweight and ultra silent monitoring device that enables real-time measurement of airborne ultrafine and nanosized particles. It measures particle number concentration, particle mean size and lung-deposited surface area (LDSA). Its robust design means little maintenance and operational effort is needed. NanoTracers have been deployed both indoor and outdoor, and in mobile as well as stationary measurement campaigns.

For more information, as well as typical application examples, visit our website www.oxility.com.

Visit OXILITY at booth 33

PALAS® – MORE THAN 30 YEARS OF EXPERTISE IN AEROSOL TECHNOLOGY

Address: Palas GmbH
Greschbachstrasse 3b
76229 Karlsruhe, Germany
Phone: +49 721 96213-0
Fax: +49 721 96213-33
Email: mail@palas.de
Internet: 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 seminars

Visit PALAS at booth 16

SCHAEFER TECHNIQUES

Visit SCHAEFER TECHNIQUES at booth 30

SOCIEDAD EUROPEA DE ANÁLISIS DIFERENCIAL DE MOVILIDAD, SEADM

Address: Ed. Cartif, Parque Tecnológico Boecillo
47151 Boecillo, Spain
+34 687503052
eMail: rafael.cuesta@seadm.com
Website: www.seadm.com

SEADM is a Spanish SME founded in 2005 with the aim to become a centre of excellence in the detection of trace elements, by means of proprietary differential analysis (DMA) techniques developed by its co-founder and Technical Consultant, Juan Fernandez de la Mora, Professor at Yale University. Its best-selling equipment are the DMAs "HalfMini" and "P5 system", offering unbeatable resolution and transmission for the analysis of nanoaerosols, yet at affordable prices, as witnessed by tens of research customers worldwide. Besides, SEADM offers a complete portfolio of analytical instruments ranging from sampling equipment to electrometers with extremely low noise, ultra-fast response, notwithstanding its renowned DMA modules for product developers.

Visit SEADM at booth 26

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.

Visit SUNSET LABORATORY at booth 2

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.

Visit TECORA at booth 10

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.

Visit TOPAS GMBH at booth 11

TSI GMBH

Address: Neuköllner Str. 4 - 52068 Aachen - Germany
Phone: +49 241523030
E-mail:tsi.emea@tsi.com
Website: http://www.tsi.com/

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 2016, the TSI Team will present its new products:
- For environmental monitoring our new CEN-CPC is fully compliant to the new CEN Technical Specification CEN/TS 16976. Designed for 24/7 operation in monitoring stations to provide reliable and quantitative data on ambient ultrafine particle concentration
- Our new 1 nm SMPS 3938E77 which can measure the size and number concentration with high resolution and speed from 1 nm
- Our new portable Nanoparticle Emission Tester 3795 for field direct measurement of solid PN emissions, compliant with Swiss regulation SR 941.242

TSI instruments are used in different application areas such as:

- Air quality monitoring
- Atmospheric and climate studies
- Nanotechnology and material research
- Engine Exhaust
- Combustion processes
- Inhalation toxicology
- Filter testing

TSI 1nm SMPS, 3772-CEN CPC, EEPS and NPET will be demoed on the TSI booth.

Stop by at our booth and learn more about our products!

Visit TSI FRANCE INC. at booth 3/4/6

URG CORPORATION

Address: 116 South Merritt Mill Road
Chapel Hill, NC 27516 USA
Phone: 919.942.2753
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.

Visit URG CORPORATION at booth 27

VENACONTRA

Address: P.O. Box 1188 (Microkatu 1)
FI-70211 Kuopio, Finland
Website: http://www.venacontra.com

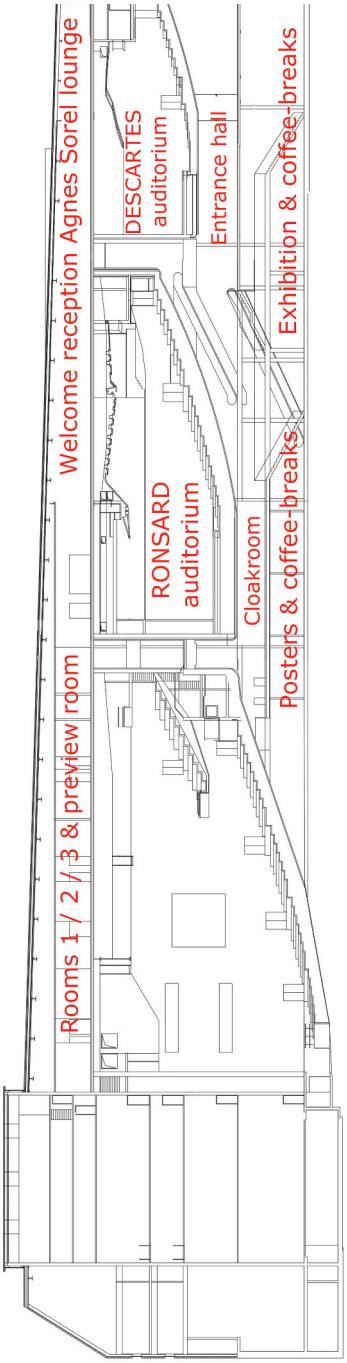
Diluting is often one of the most crucial parts of the aerosol sampling and measurement systems. For most aerosol measurement setups the target of the aerosol dilution system is to dilute and cool the sample suitable for the used analyzers and to preserve the sample as unbiased as possible. The Venacontra diluting sampling systems are designed to achieve these goals. They provide stable and adjustable flow rates and a well-conditioned dilution and mixing process which is essential in having well-defined sampling conditions with minimal sampling artefacts.

Venacontra provides several sampling systems for aerosol research. Our main system, Venacontra Diluting Aerosol Sampler (VC-DAS), is a combination of the Venacontra Porous Tube Diluter and the Venacontra Ejector Diluter providing a flexible and reliable sampling system which operates well with process gases with very high particle concentrations, such as combustion or synthesized aerosols. It offers a wide range of dilution ratios with stable and adjustable sampling flow rates and a possibility to connect several analyzers into the same sampling system.

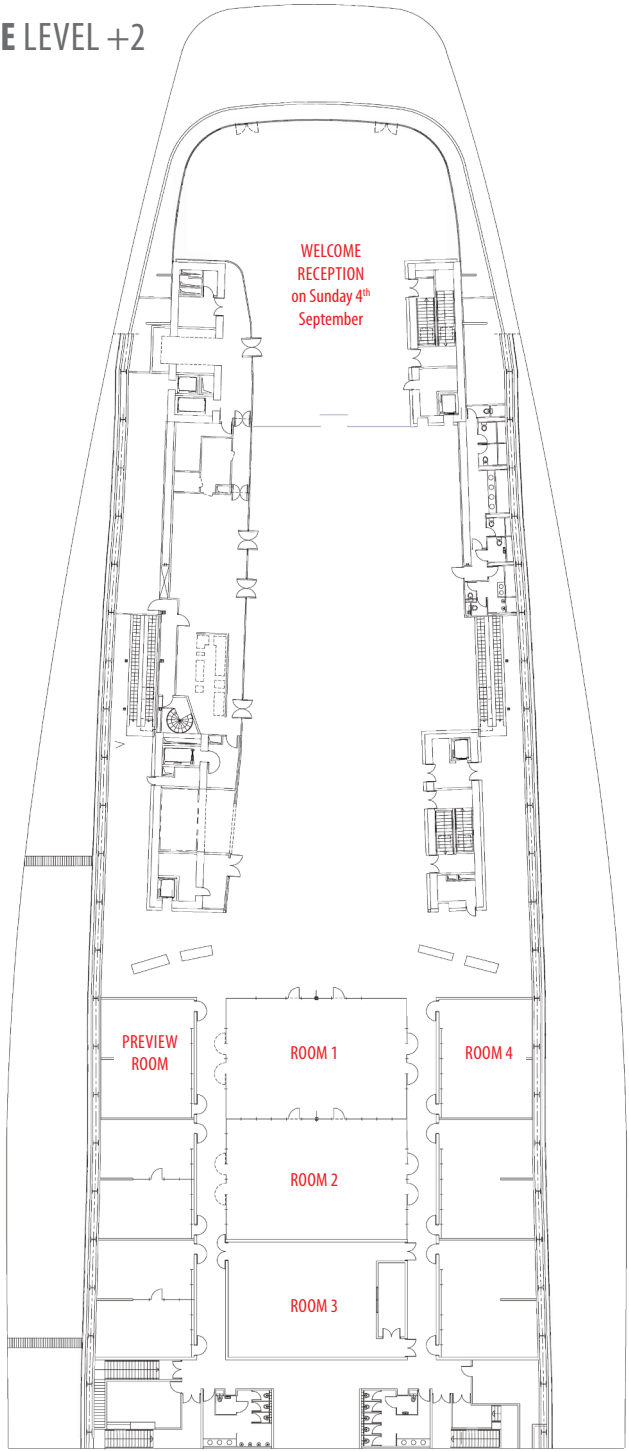
Visit VENACONTRA at booth 32

NOTES

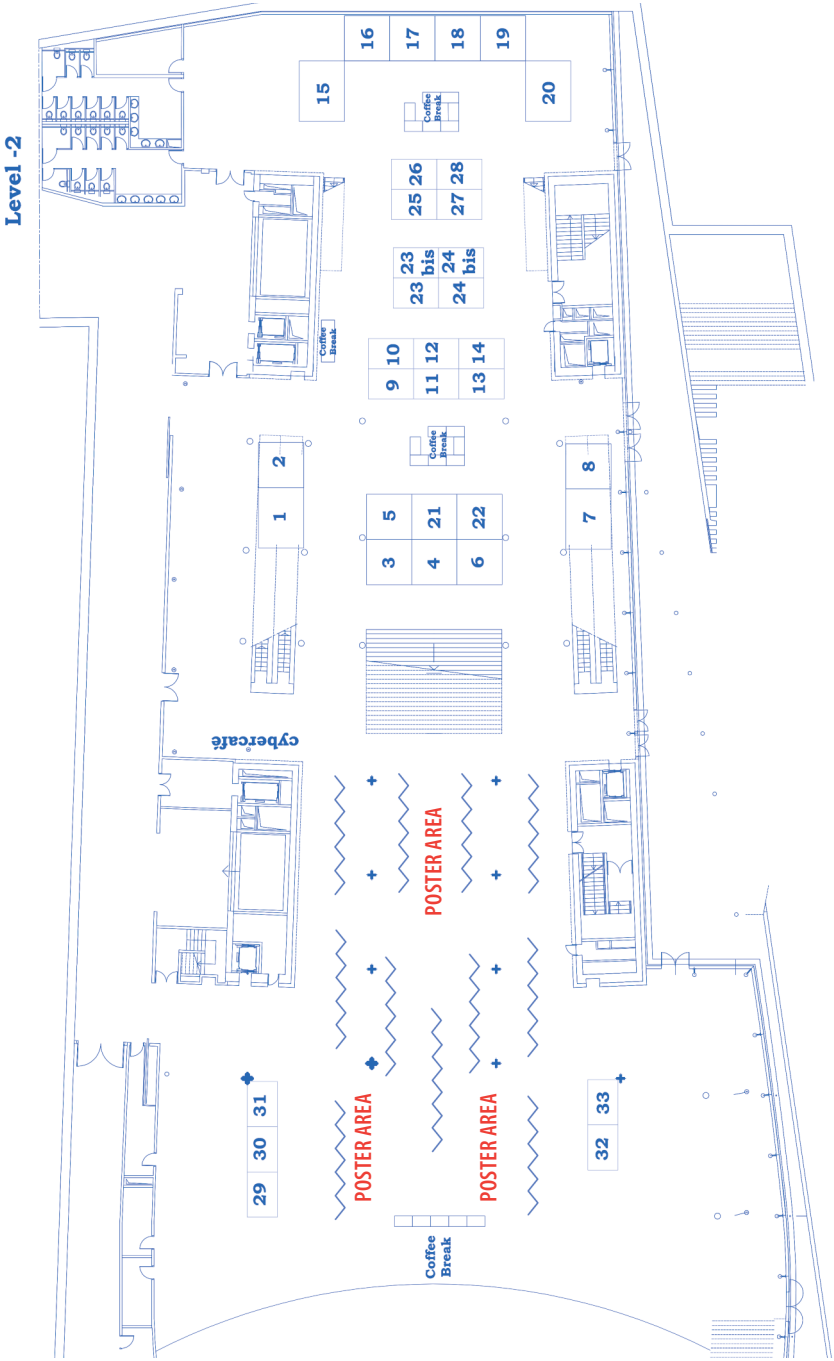
CONGRESS VENUE - LOCATION (ROOMS, POSTERS)



CONGRESS VENUE LEVEL +2



EXHIBITION AREA LEVEL -2



EXHIBITOR	BOOTH
Addair	17
ADEME	23bis
Aerodyne Research	19
Aerosol	1
Aethlabs	31
Biral	24
CAMBUSTION	5
Catalytic Instruments GMBH	23
Comde-Derenda GmbH	22
Cooper Envrionmental Service LLC	25
Copley Scientific AG	8
Dekati	18
Ecomesure	21
Ecotech PTY LTD	9
Envicontrol-Airmodus	7
GRIMM AEROSOL GMBH&Co.KG	20
Hilase	29
Inhalation Sciences	15
Institutional booth	24bis
Intertek	13
Math2Market	28
Metrohm Applikon B.U.	14
Naneo particles solution GMBH	12
Oxility	33
Palas	16
Schaefer techniques	30
Sociedad Europea de Analisis Diferencial dMovilidad, SEADM	26
Sunset Laboratory Inc.	2
Tecora	10
TOPAS GmbH	11
TSI France Inc	3,4,6
URG Corporation	27
Venacontra	32

NOTES

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