

Host Organizations



KIT | Karlsruhe Institute of Technology

Karlsruhe Institute of Technology (KIT) pools its three core tasks of research, higher education, and innovation in a mission. The KIT Climate and Environment Center develops strategies and technologies to secure the natural bases of life.
www.kit.edu



EFCA | The European Federation of Clean Air and Environmental Protection Associations

aims at encouraging professional activity in Europe while working at the interface between science and (European) policy on environmental problems.
www.efca.net



GUS | Gesellschaft für Umweltsimulation

e.V. (Society for Environmental Engineering). It is the organization of people, institutions and companies who work in environmental engineering and testing. Since 1969, GUS supports the development of environmental engineering on a non profit basis.
www.gus-ev.de



CEEES | The Confederation of European Environmental Engineering Societies

is the umbrella organisation of national technical societies for environmental engineering and testing. CEEES promotes technical advisory boards, seminars and conferences with the support of national member societies.
www.cee-es.org

Organizing Committee

Thomas Reichert

Fraunhofer ICT and GUS, President of EFCA, Germany

Harald Saathoff

Karlsruhe Institute of Technology (KIT), Germany

Klara Langer

Karlsruhe Institute of Technology (KIT), Germany

Sabine Aref

Gesellschaft für Umweltsimulation (GUS), Germany

Angela Richter

Helmholtz Gemeinschaft, Brussels Office, Belgium

Claudia Mohr

Karlsruhe Institute of Technology (KIT), Germany

Francois Crepain

The Confederation of European Environmental Engineering Societies, (CEEES)

Information

Karlsruhe Institute of Technology (KIT)
Natural and Built Environment (B4)
Klara Langer
P.O. Box 36 40
76021 Karlsruhe
GERMANY

Phone: +49 (0)721 608-28591
Fax: +49 (0)721 608-23949
mail to: klara.langer@kit.edu
website: ufp.efca.net

Venue

Representation of the State of Baden-Württemberg to the EU
Rue Belliard 60-62
B-1040 Brussels, Belgium



Baden-Württemberg

VERTRETUNG DES LANDES BEI DER EUROPÄISCHEN UNION

Registration and Fee

Please register online via ufp.efca.net
Participant fee: € 480,-
Reduced fee for delegates and authors: € 240,-
(one author per contribution)
Including book of abstract, conference CD,
conference buffets and refreshments

Accommodation

A limited contingent of hotel rooms has been reserved for symposium participants until **March 28th, 2017**. Please book your rooms directly with your complete creditcard details in the hotel below and use for your reservation the code „**EFCA2017**“.

Motel One Bruxelles

Rue Royale 120, 1000 Brussels, Belgium
Phone: +32 2 209 61-10
Fax: +32 2 209 61-11
mail to: brussels@motel-one.com
www.motel-one.com

Room rates per night incl. breakfast, tax and service:
Single room: 103 € (tbc)/ Double Room: 127,50 € (tbc)

Edited by

Karlsruhe Institute of Technology (KIT)
Kaiserstraße 12
76131 Karlsruhe, Germany
www.kit.edu

Karlsruhe © KIT 2016



Karlsruhe Institute of Technology

European Federation of Clean Air
and Environmental Protection
Associations (EFCA)
International Symposium

Ultrafine Particles – Air Quality and Climate

Brussels, Belgium
May 10 and 11, 2017

ANNOUNCEMENT | CALL FOR PAPERS



Introduction

Ultrafine particles (UFP), the nano fraction of airborne particulate matter, are considered to be causing serious health problems and environmental effects. Combustion is a major source, also by producing volatile organic pollutants which are converted in the atmosphere through photochemical reactions.

Increasing applications of man-made nanomaterials add to the problem, e.g. after incineration at the end of their lifetime. A further interest in UFP's results from their specific role in atmospheric processes such as cloud formation and precipitation and, in fact, in climate. The relation between UFP and human health and that of UFP and climate are both areas of active research and cross-links between these fields are found nowadays. The subtitle of the conference series: **"air quality and climate"** reflects this development.

Present policies to decrease exposure to particulate matter make use of the mass-based metrics PM10/PM2.5, which do not properly represent all risks for human health. EFCA is, therefore, in favour of the development of a fraction-by-fraction approach on particulate matter, both with respect to size and chemical composition. It already recommended European policymakers the introduction of Black Carbon Particles as additional metric in the Air Quality Directive. The organizers trust that EFCA's 6th Ultrafine Particles Symposium 2017 will again feature the most recent scientific progress in the field and so contribute to policy-relevant developments which improve the dialogue with policymakers in Europe. The Symposium has gained visibility by permanently moving to Brussels and attracts an effective mix of EU representatives and scientists. EFCA and KIT, together with GUS and CEEES are pleased to organize this event again. We cordially invite all experts to contribute actively and hope to see you again at the State representation of Baden-Württemberg in Brussels in May 2017.

Thomas Leisner | Chairman

Call for Papers

Conference topics in ultrafine particles research and abatement strategies include:

Sources: Emissions, inventories, nucleation, and growth of ambient ultrafine particles

Characterization: Particle size, volume, shape, particle size distribution, chemical composition, oxidative capacity

Air quality: Measurement and methods; modelling atmospheric transformation of particles; monitoring approaches and data; equipment

Climate effects: Role of ultrafine particles in cloud formation and stimulating climate effects; regional aspects

Epidemiology: Epidemiological and human clinical studies with size differentiation of small particles

Health effects and mechanisms: In vivo and in vitro toxicity, transport in the body; relevant research techniques

Abatement strategies and policies: Policy studies on UFP; cost-effective mitigation of PM; Decision finding: Public hearings, citizen tables

Submission of Abstracts

Please send abstracts (max. 300 words) to

Karlsruhe Institute of Technology
Klara Langer
klara.langer@kit.edu

not later than **January 15th, 2017**.

The abstract should be a pdf-file. Authors will be informed about the acceptance of the paper by February 15th, 2017.

Symposium Chairman

Thomas Leisner, Institute for Meteorology and Climate Research, Karlsruhe Institute of Technology, KIT, Germany

Program Committee

Urs Baltensperger, Paul Scherrer Institut, Villingen PSI, Switzerland

Flemming Cassee, Dutch National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands

Wolfgang Kreyling, Helmholtz Center for Environment and Health, München, Germany

Markku Kulmala, University of Helsinki, Department of Physical Sciences, Finland

Stephan Leinert, Landesamt für Natur, Umwelt und Verbraucherschutz Nordrhein Westfalen (LANUV), Recklinghausen, Germany

Manfred Neuberger, Institute for Environmental Hygiene, Medical University of Vienna, Austria

Xavier Querol, Consejo Superior de Investigaciones Científicas (CSIC), Barcelona, Spain

Rachel Smith, Nanotoxicology Research Centre, Oxfordshire, United Kingdom

Claire Segala, SEPIA, Paris, France

Ulrich Teipel, University of Applied Sciences, Nürnberg, Germany

Vladimira Vadjic, Institute for Medical Research and Occupational Health, Zagreb, Croatia

Bernhard Vogel, Institute for Meteorology and Climate Research, Karlsruhe Institute of Technology, KIT, Germany

International Advisory Committee

Abdurrahman Bayram, TUNCAP, Turkey

Giuseppe Fumarola, CSIA/ATI, Italy

Andrea von Känel, Cercl'Air, Switzerland

Marie Haeger-Eugensson, SCAS, Sweden

Isabelle Roussel, APPA, France

Walter Kofler, ASASPP, Austria

Geeta Puri, EP Scotland

Richard Mills, IUAPPA, United Kingdom

John Murlis, EP-UK, United Kingdom

Rudolf Neuroth, KRdL in VDI and DIN, Germany

Tinus Pulles, VVM-CLAN, The Netherlands

Leonor Tarragon, NILU, Norway

Katja Lovén, FAPPS, Finland

Andrzej Jagusiewicz, PIGE, Poland

Karl-Friedrich Ziegahn, KIT and GUS, Germany

Keynote speakers

Ken Carslaw, School of Earth and Environment, Leeds, UK - Ultrafine particles and climate (tbc)

Mark R. Miller, University of Edinburgh, UK
The cardiovascular effects of ultrafine particles in vehicle exhaust

Ian Mudway, King's College, London, UK
Air pollution and cognitive decline

Laurence Rouil, INERIS, France
Environmental modelling and decision making (tbc)

André Zuber, European Commission
NEC Directive on Ultrafine Particles

Ralf Zimmermann, HMGU Munich, Germany
Composition and health effects of aerosol particles from different combustion sources