

# Organics in the Atmosphere with Focus on Low Volatile OC and Particles - Sources, Chemistry and Impacts

Workshop Vienna, October 6-8, 2008

Technical University Vienna, 1060 Wien, Getreidemarkt 9/Stiege 7/3<sup>rd</sup> floor  
Free access to WLAN in the lecture hall

## Programme

### Monday, 2008-10-06

17:00 **Informal Get-together and registration: Restaurant EAT (Getreidemarkt 11, corner to Gumpendorferstraße) – free drinks and fingerfood**

### Tuesday 2008-10-06

8:30–9:00 **Registration**

9:00-9:30 **Opening: K.H. Becker and H. Puxbaum**

#### Health Impacts of Fine Particles

Chair: H. Puxbaum

9:30-10:00 *Size Partitioning of airborne particles to compare the proinflammatory effect in airway epithelial cells*

A. Baeza et.al., University-Paris 7, Paris, France

10:00-10:30 **Coffee Break**

#### Chemistry of Air Pollutants

Chair: G. Lebras

10:30-11:00 *Atmospheric Chemistry of Automotive Biofuels: Insights from Experiments and Theory*

T. Wallington, Ford Motor Company, Dearborn, US

11:00-11:30 *Aromatic Hydrocarbons: current research*

I. Barnes, University of Wuppertal, Wuppertal, Germany

11:30-12:00 *Mechanisms for the oxidation of aromatics: recent developments and remaining questions*

M. Pilling, University of Leeds, Leeds, UK

12:00-12:20 *EUROCHAMP I and the following-up EUROCHAMP II*

P. Wiesen, University of Wuppertal, Wuppertal, Germany

12:20 -14:00 **Lunch Break**

#### Chemistry of Air Pollutants

Chair: T. Wallington

14:00-14:30 *Simulation chamber studies of secondary organic aerosol formation*

J. Wenger et.al., University College, Cork, Ireland

14:30-15:00 *Organic aerosol formation from the oxidation of VOCs in Smog Chamber : Factors Influencing the Aerosol Yield and chemical analysis of the particles content*

J.F. Doussin, LISA, Paris, France

15:00-15:30 *Chemistry of Secondary Organic Aerosols*

Th. Hoffmann, University of Mainz, Mainz, Germany

15:30-16:00 *Recent SOA studies with the Leipzig Aerosol Chamber (LEAK)*

Y. Iinuma et al., Institute for Tropospheric Research, Leipzig, Germany

16:00-16:30 **Coffee Break**

## **Chemistry of Air Pollutants**

Chair: J. Pearson

- 16:30-17:00 *Molecular characterization of secondary organic aerosol from the photooxidation of isoprene and alpha-pinene*  
M. Claeys et al., University of Antwerp, Antwerp, Belgium
- 17:00-17:30 *Organic carbon source analysis in aerosols*  
A. Prévot et al., PSI, Villigen, Switzerland
- 17:30-18:00 *Laser Spectroscopic Tools for Carbon Aerosol Characterization*  
R. Nießner, University of Munich, Munich, Germany
- 18:00-18:30 *Photoenhanced Deposition of Trace Gases at the Interface of Organic Surfaces*  
Ch. George et al., University of Lyon, Lyon, France

20:00-23:00

**Invited dinner (CEFIC)**  
Restaurant Figlmüller  
Bäckerstrasse 6, 1010 Vienna

## **Wednesday, 2008-10-08**

### **Sources and Process Modelling of SOA**

Chair: M. Pilling

- 9:00-9:30 *Natural VOC Sources and its Contribution to Air Quality in Europe*  
R. Steinbrecher, IMK-IFU, Garmisch Partenkirchen, Germany
- 9:30-10:00 *Changing Climate and Secondary Organic Aerosol - Model Studies*  
B. Vogel and H. Vogel, IMK, Karlsruhe, Germany
- 10:00-10:30 *Simulating organic aerosol concentrations and speciation in the southern UK during August 2003 heat-wave*  
M. Jenkin et al., Atmospheric Chemistry Services, Yelverton, UK

10:30-11:00

**Coffee Break**

### **Field Studies of Atmospheric Pollutants**

Chair: P. Wiesen

- 11:00-11:30 *Organics in the Atmosphere*  
I. Allegrini, IAA, CNR, Rome, Italy
- 11:30-12:00 *Studies of the Concentrations and Generic Speciation of Primary and Secondary Organic Carbon in the UK Atmosphere*  
R. Harrison et al., University Birmingham, Birmingham, UK

12:00-14:00

**Lunch Break**

### **Field Studies of Atmospheric Pollutants**

Chair: W. Maenhaut

- 14:00-14:30 *Primary Organic Particles from Biological Sources*  
H. Bauer and H. Puxbaum, Vienna University of Technology, Vienna, Austria
- 14:30-15:00 *Measurement of Black and Brown Carbon in the Urban Aerosol*  
R. Hitzenberger et al., University of Vienna, Vienna, Austria
- 15:00-15:30 *Sources and reactivity of Volatile Organic Compounds and Organic Aerosols in Beijing (August 2007)*  
V. Gros et al., LSCE, CNRS, Paris, France

15:30-16:00

**Coffee Break**

## **Persistent Organic Pollutants**

Chair: H. Bauer

16:00-16:30 *Transformation of Aerosol-borne Low Volatile Compounds in a Smog Chamber*

C. Zetzsch, University of Bayreuth, Bayreuth, Germany

**17:00-17:30 Final Discussion: K.H. Becker and H. Puxbaum**

**19:00 Excursion to a Winery (optional) – free drinks**

Weingut-Heuriger Steinbatz

Stammersdorferstrasse 78

1210 Vienna