

State-of-the-art in off-line characterization of the organic content in atmospheric aerosol

March 26-28, 2007

PROGRAM

► Monday March 26, 2007 ◀

- 13:00-15:00 Arrival, registration
- 15:00-15:30 **Welcome**
Review of the aims of the workshop - Existing knowledge and key questions
Sarka Langer, John Wenger

Experimental studies –

Developments in sampling, extraction and measurement methods (rapporteur: John Wenger)

- Chair: **Martin Braniš**
- 15:30 **John Wenger** Recent developments in denuder-filter sampling techniques
- 16:00 **Emilie Perraudin** Development of supercritical fluid extraction – gas chromatography – mass spectrometry for the investigation of SOA chemical composition formed in smog chamber experiment
- 16:30 Coffee break
- 17:00 **Karine Arrhenius** Direct Thermal Desorption Methods for the Analysis of Atmospheric Dust and Aerosols Sampled on Filters
- 17:30 General discussion
- 19:00 Dinner

► Tuesday March 27, 2007 ◀

New analytical techniques (rapporteur: Mattias Hallquist)

- Chair: **Alistair Lewis**
- 09:00 **Jukka Lausmaa** Organic microanalysis by time-of-flight secondary ion mass spectrometry
- 09:30 **Jacqui Hamilton** Combining GC and LC for the analysis of large molecules in Secondary Organic Aerosol
- 10:00 Coffee break
- 10:30 **Hinrich Grothe** Infrared, Raman and TPD-Mass Spectroscopy of Carbonaceous Particles
- 11:00 **Christian Dye** Novel LC/MS – TOF methods
- 11:30 General discussion
- 12:30-13:30 Lunch

Simulation chamber studies of SOA formation (rapporteur: Jacqui Hamilton)

Chair :	Yinon Rudich	
13:30	Astrid Kiendler-Scharr (given Y. Rudich)	From single compound to real emissions: SOA properties of biogenic VOC emission
14:00	Jean-Francois Doussin	Chemical composition analysis of secondary aerosol produced from the ozonolysis of some biogenic and anthropogenic compounds
14:30	Jörg Warnke	On-line and off-line techniques for the molecular identification of SOA
15:00	General discussion	
15:30	Coffee break	

Primary and secondary organic content in ambient aerosol (rapporteur: Yinon Rudich)

Chair:	Jana Moldanová	
16:00	Mattias Hallquist	Characterization of the organic aerosol during Göte 2005
16:30	Maria J. Sanz (given A. Muñoz)	Importance of biomass burning in the atmospheric particle composition in the East of Spain: preliminary results from field measurements
17:00	Yinon Rudich	Climate-related properties of humic like substance (HULIS): issues in extraction and characterization
17:30	General discussion	
19:00	Dinner	

► Wednesday March 28, 2007 ◀

Links to Impacts –

Modelling and health (rapporteur: Jean-Francois Doussin)

Chair:	Mattias Hallquist	
08:30	Jana Moldanová	Ultrafine Particles Produced by Chemical Reactions in Indoor air: Simple mathematical model based on experimental data
09:00	David Simpson	Modelling of organic aerosol in Europe
09:30	Jan Topinka	Determination of genotoxicity of air particles in vitro c-PAHs - DNA adducts 32P-postlabeling
10:00	General discussion	
10:30	Coffee break	
11:00-12:30	General discussion of the workshop (shortly introduced by the rapporteurs):	
11:00	Discussion introduced by session rapporteurs	
12:00	Highlights, developments and topics for further research	
12:30	Lunch	