

Workshop Programme:

Volatile organic compounds (VOC) in the urban atmosphere of Europe – sources, transformation and impacts

Wroclaw, Poland, 25-26 Sept. 2007

24. Sept. 2007

18.30 Reception, Art Hotel

25. Sept. 2007

9.00 Welcome and Opening, Senate Hall of the Wroclaw University of Technology (departure from the Art Hotel: 8.15 hours)

Welcome: *Prof. Dr. J. Zwozdziak*, Wroclaw University of Technology

Opening: *Prof. Dr. T. Wieckowski*, Rector of the Wroclaw University of Technology

Prof. Dr. V. Ronge, Rector of the University Wuppertal

Introduction: *Prof. Dr. K. H. Becker*, University Wuppertal

10.00 – 10.30 Coffee Break

I. Session: Emissions, Senate Hall of the University, Chairman K. H. Becker

10.30 Emissions of CO₂, CO, NO_x, HC, PM, HFC-134a, N₂O and CH₄ from the global light duty vehicle fleet

T. Wallington, Dearborn, USA

11.00 Biogenic VOC: A potential urban air pollutant?

R. Steinbrecher, Garmisch-Partenkirchen, Germany

11.30 The contribution of traffic and solvent use to the total NMVOC emissions in Wuppertal and Wroclaw

A. Niedojadlo, Wuppertal, Germany

12.00 – 14.00 Return to the City Centre and Lunch Break

II. Session: Chemistry and Modelling, Art Hotel, Chairmen G. Lebras and K. Rudzinski

14.00 Atmospheric degradation of halogenated alcohols and aldehydes: A possible source of halogenated carboxylic acids

H. Sidebottom et al., Dublin, Ireland

14.30 Atmospheric transformation of aerosol-borne semivolatile compounds and POPs: Investigations in a cold aerosol smog chamber

C. Zetzsch et al., Bayreuth, Germany

15.00 –15.30 Coffee Break

- 15.30 Importance of photosensitised reactions in organic aerosols
Ch. George, Lyon, France
- 16.00 Developments in the oxidation mechanism of aromatic hydrocarbons
I. Barnes, Wuppertal, Germany
- 16.30 Mechanisms and SOA formation for the atmospheric degradation of xylenes
J. Wenger, Cork, Ireland
- 17.00 Chemical reactivity and aerosol forming potential of anthropogenic volatile organic compounds
J.-F. Doussin et al., Paris, France
- 17.30 The impact of volatile organic compounds on the heterogeneous hydrolysis of N₂O₅
B. Vogel et al., Karlsruhe, Germany
- 18.00 Some modelling results of BTX concentrations in the air of Wroclaw
I. Sowka et al., Wroclaw, Poland
- 18.15 VOCs in rain and ice clouds; Secrets of Mother Holle
W. Jaeschke et al., Frankfurt,

20.00 Invited Dinner, Art Hotel

26. Sept. 2007

III. Session: Field Observations, Art Hotel, Chairman J. Zwozdziak and Chairwoman A. Monod

- 9.00 Recent results from particle characterisation studies in Saxonia and SOA laboratory experiments
H. Herrmann et al., Leipzig, Germany
- 9.30 VOCs measurements in Paris city in May 2007 with focus on secondary organic aerosol precursors
V. Gros et al., Paris, France

10.00 – 10.30 Coffee Break

- 10.30 PM₁₀ aerosol mass and composition in and around Berlin with special consideration of traffic contribution
D. Möller et al., Cottbus, Germany

11.00 Characterisation of organic compounds in atmospheric aerosol by direct thermal extraction gas chromatography – mass spectrometry – flame ionisation detection

S. Langer, Boras, Sweden

11.30 The EUROCHAMP integrated infrastructure initiative

P. Wiesen, Wuppertal, Germany

12.00 – 14.00 Lunch Break

14.00 Variability of BTX concentrations near roads and in urban background conditions – an exemplary study at Zabrze (Poland) case

H. Pyta and K. Klejnowski, Zabrze, Poland

14.30 Long term measurements of the concentration of CFCs and SF₆ in air of urbanized area of Krakow

I. Sliwka, Krakow, Poland

15.00 Concentration of VOCs in the area of intense street traffic in Antwerp, Belgium

A. Buczynska et al., Antwerp, Belgium

15.15 The ACCENT Project

H. Herrmann, Leipzig, Germany and Ch. Georges, Lyon, France

15.30 – 16.00 Coffee Break

16.00 Final Discussion and Conclusions, Chairmen K. H. Becker and J. Zwozdziak

16.30 End of the Workshop