

Reactive Indoor Air Chemistry

September 29th – October 1th, 2008

Meeting Programme

1st day: afternoon September 29

- 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, Nicola Carslaw, Peder Wolkoff

Experimental studies –

Gas phase and surface studies (rapporteur: *Nicola Carslaw*)

- 15:30 *Mattias Hallquist* SOA formation from ozonolysis of terpenes
- 16:00 *Barbara D'Anna* Photo-enhanced deposition of trace gases on surfaces
- 16:30 *Tunga Salthammer* Reactive surface chemistry
- 17:00 *Ray Wells* Relevant indoor gas-phase and surface-phase chemistry of α -terpineol
- 17:30 General discussion
- 19:00 Dinner

2nd day: September 30

(9:00-12:30 and 14:00-19:00 with coffee breaks at 10:00 and 16:30)

Experimental studies –

Measurements (rapporteur: *Theo Brauers*)

- 09:00 *Peder Wolkoff* What species to measure?
- 09:30 *Richard Winterhalter* Overview of methods to measure oxidation products relevant to indoor air chemistry
- 10:00 Coffee break
- 10:30 *Jacob K. Nøjgaard* Analysis of unstable reactive species (soft-soft and online techniques)
- 11:00 *Theo Brauers* Measurements of hydroxyl and nitrate radicals

11:30 General discussion

12:30 Lunch

Modelling indoor air chemistry (rapporteur: *Ray Wells*)

14:00 *Nicola Carslaw* Identification of the key drivers for indoor air chemistry

14:30 General discussion

Links to impacts –

Cultural heritage (rapporteur: *Tunga Salthammer*)

15:00 *Peter Wiesen* Reactive nitrogen species in the Cologne Cathedral

15:30 *Peter Brimblecombe* Indoor air quality in museums

16:00 Coffee break

Links to impacts –

Health effects (rapporteur: *Peder Wolkoff*)

16:30 *Peder Wolkoff* Health effects of reactive chemistry

17:00 *Frank Kelly* Contribution of environmental tobacco smoke to oxidant activity of ambient particulates

17:30 *Christian Schlitt* Risk characterization of reaction products from ozone-initiated terpene chemistry

18:00 General discussion

19:30 Dinner

3rd day: morning: October 1

(9:00-13:00 with coffee break at 10:30)

General discussion of the workshop (shortly introduced by the rapporteurs):

09:00 Discussion introduced by session rapporteurs

10:30 Coffee break

11:00 Highlights, developments and topics for further research

12:30 Lunch