

TOXCA Workshop, 16. – 18.01.2013, Bremen

Wednesday 16.01.2013

14:00 Registration

14:30 Welcome J.P. Burrows (IUP-Univ. Bremen)

Oxidative capacity: from ground based to airborne measurements		
Time	Title	Speaker
14:45-15:45	Keynote : Oxidative capacity: from ground based to airborne measurements	Horst Fischer (MPI-Mainz)
15:45-16:05	Investigation of isoprene oxidation in the atmosphere simulation chamber SAPHIR at low NO concentrations.	Hendrik Fuchs (FZ-Jülich)

16:05-16:30 Coffee break

Time	Title	Speaker
16:30-16:50	Volatile organic compounds: measurements with the new Ultra-LightWeight PTR-MS	Felix Geiger (KIT)
16:50-17:10	Multi-gas observations with DOAS at different locations world wide and combination with future airborne measurements	Denis Pöhler (IUP-Univ. Heidelberg)
17:10-17:30	OH and HO ₂ Measurements in a Rural Mid-Latitude Environment During HOPE2012	Cheryl Tatum Ernest (MPI-Mainz)
17:30-17:50	Assessment of the Role of Stabilized Criegee Intermediates in OH Radical Measurements by LIF	Anna Novelli (MPI-Mainz)

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Thursday 17.01.2013

Airborne measurements: state of art		
Time	Title	Speaker
9:00-10:00	Keynote: Recent and future exploration of tropospheric chemistry using the French airborne facilities	:Agnès Borbon (LISA-CNRS)
10:00-10:20	Nitrogen oxides and reactive nitrogen in the UTLS: Long term observations from CARIBIC	Helmut Ziereis (DLR)
10:20-10:40	Mass-spectrometric observations of VOCs: Comparison of HALO with global monitoring onboard passenger aircraft	Marco Neumaier (KIT)
10:40-11:00	Measurements of Stable Carbon Isotope Ratios in Atmospheric VOC during airborne campaigns	Marc Krebsbach (Univ. Wuppertal)

11:00-11:30 Coffee break

Time	Title	Speaker
11:30-12:30	Keynote: Small aircraft and small teams for big science	Bruno Neininger (Metair)
12:30-12:50	Atmospheric oxidation capacity over Borneo during the SHIVA aircraft campaign.	Katja Grossmann (IUP-Univ. Heidelberg)
12:50- 13:10	Peroxy radical measurements over Spain within the EUFAR project VERDRILLT	Lola Andrés Hernández (IUP-Univ. Bremen)
13:10-13:30	HOx radical measurements in the planetary boundary layer: Deployment of the airship Zeppelin NT	Frank Holland (FZ-Jülich)

13:30-15:00 Lunch

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What can airborne measurements still provide?		
Time	Title	Speaker
15:00-16:00	Keynote: Lagrangian aircraft experiments for the investigation of photochemical transformation in polluted air masses	Hans Schlager (DLR)
16:00-16:20	Oxidation capacity influence by convection	Hartwig Harder (MPI-Mainz)
16:20-16:40	Application of an imaging DOAS instrument for tropospheric trace gas mapping	Anja Schönhardt (IUP-Univ. Bremen)

16:40-17:00 Coffee break

Time	Title	Speaker
17:00-17:20	The influence of different pollution sources on the chemical composition of the Arctic troposphere: Observations during the ACCESS project	Anke Roiger (DLR)
17:20-17:40	European Space Agency Campaign Activities in Support of Earth Observation Projects	Dirk Schüttemeyer (ESA)

19:30 Workshop dinner

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Friday 18.01.2013

Linking modelling with measurements		
Time	Title	Speaker
9:00-10:00	Keynote: Exploiting atmospheric field measurements with numerical models.	Mathew Evans (Univ.York)
10:00-10:20	What can we expect to measure? Simulated aircraft measurements of NO ₂ in the BeNeLux and Po Valley using BOLCHEM simulations.	Andreas Hilboll (IUP-Univ. Bremen)

10:20-10:45 Coffee break

Time	Title	Speaker
10:45-11:45	Keynote: Fields campaign analysis with the EMAC global model	Andrea Pozzer (MPI-Mainz)
11:45-12:15	Summary and discussion	(all)
12:15-12:30	Concluding remarks	J.P.Burrows (IUP-Univ. Bremen)

12:30 End of the workshop

14:00 IUP Bremen lab tour (optional)