

ACCENT and EUROCHAMP joint activity:
**Intercomparison of NO₃ / N₂O₅ Instruments
at the Atmosphere Simulation Chamber SAPHIR**

Planning Meeting, November 20–21, 2006
Forschungszentrum Jülich, ICG-II: Troposphäre

Sunday – November 19

21:00 Informal get-together in the “Liebevoll” (Pub associated with “Stadthotel”)

DAY 1: Monday – November 20

08:45 Bus transfer from Stadthotel to FZJ

09:00 **Registration**

09:15 **Welcome and Opening Remarks**

Andreas Wahner

09:40 **Introduction to the meeting**

Hans-Peter Dorn

09:50 **The Atmosphere Simulation Chamber SAPHIR**

Theo Brauers

10:10 **First visit to SAPHIR**

10:45 Coffee Break

Presentations of participating groups (20 min + 10 min for discussion)

11:00 **Measurements of Atmospheric NO₃ Radicals by (LED-) Differential
Optical Absorption Spectroscopy (DOAS)**

Ulrich Platt

11:30 **DOAS Measurements at SAPHIR**

Theo Brauers

12:00 Lunch

13:00 **Measurements of HNO₃ and N₂O₅ by CIMS**

Gregory Huey

13:30 **Measurement of HNO₃ using Atmospheric Pressure CIMS**

Sarka Langer

13:45 **In situ Monitoring of NO₃ in an Atmospheric Simulation Chamber Using
Incoherent Broadband Cavity-Enhanced Absorption Spectroscopy
(IBBCEAS)**

Albert Ruth

14:15 **Prospects of a Broadband Cavity Enhanced Absorption Spectrometer
Using Light Emitting Diodes Designed for the Detection of NO₃**

Jan Meinen

14:30 **In-Situ Measurements of NO₃ and N₂O₅ with the NOAA Pulsed Cavity
Ring Down Spectrometer: Capabilities and Limitations.**

Steven Brown

- 15:00 **Broadband Cavity Ringdown Spectroscopy for NO₃ and N₂O₅**
Steven Ball
- 15:30 Coffee Break
- 15:45 **Off-Axis Cavity Ring-Down Spectroscopy for Detection of N₂O₅.
Technical Aspects and Studies of High-Latitude Heterogeneous
Hydrolysis of N₂O₅**
William Simpson
- 16:15 **Measurements of NO₃/N₂O₅ by Thermal Conversion-LIF**
Yoshizumi Kajii
- 16:45 **NO₃/N₂O₅ Detection by LIF Using a Ppulsed Diode Laser**
Ronald Cohen
- 17:15 **First Test of NO₂ LIF Instrument.**
Piero Di Carlo
- 17:45 **Measurements of HNO₃ Using the LOPAP Technique**
Jörg Kleffmann
- 18:15 **Transfer to the hotel**
- 19:30 **Dinner at Stadthotel (invited)**

DAY 2: Tuesday – November 21

- 08:45 Bus transfer from Stadthotel to FZJ
- 09:00 **Extensive inspection of SAPHIR (time for photos etc.)**
- 10:00 Coffee Break
- 10:30 **Discussion of technical aspects (instrument setup and sampling)**
Andreas Wahner
- 12:00 Lunch
- 13:00 **Definition of chamber experiments**
Theo Brauers
- 14:30 **Campaign planning (time schedule, referee, etc.)**
Hans-Peter Dorn
- 15:00 Coffee Break
- 15:30 **Financial support by ACCENT and EUROCHAMP**
Hans-Peter Dorn
- 16:00 **Final discussion, action items.**
Andreas Wahner
- 16:30 **End of meeting**

Transfer to Stadthotel