

Short Course: „20 Years Bromine Explosion: Atmospheric Chemistry in the Polar Troposphere“

Organizers: U. Platt, E. Gutheil

Place/Time: IWR, Heidelberg University, INF 205 (Mathematikon), 5.104, 23.- 24.11.2017

Thursday, 23.11.2017

- 13.15-13.20 *Welcome and Scope*
Prof. Eva Gutheil, IWR, Heidelberg University, Heidelberg
- 13.20-14.20 *20 Years "Bromine Explosion" - What have we learned since?*
Prof. Ulrich Platt, IUP, Heidelberg University, Heidelberg
- 14.20-14.40 *Doing the time warp – what was derived from the ARCTOC field campaigns and other observations in the late 90s?*
Dr. Eckhard Lehrer, SAP, Walldorf
- 14.40-15.00 *Coffee break*
- 15.00-16.00 *Aerosol-cloud interactions in polar regions*
Prof. Corinna Hoose, KIT Karlsruhe
- 16.00-16.30 *The dynamics of reactive halogen species at the Dead Sea Valley*
Dr. Stefan Schmitt, IUP Heidelberg University, Heidelberg
- 16.30-17.00 *Tropospheric halogen chemistry in coastal Antarctica - two years of LP-DOAS observations at Neumayer III*
Jan-Marcus Nasse, Dr. Udo Frieß, IUP, Heidelberg University, Heidelberg

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Friday, 24.11.2017

- 09.15-10.15 *Math meets chemistry: Modeling atmospheric halogen chemistry*
Dr. Rolf Sander, Max-Planck-Institut Mainz
- 10.15-11.15 *Importance of reactive halogens in the tropical marine atmosphere using WRF-Chem*
Dr. Alba Badia Moragas, Department of Atmospheric Chemistry and Climate, Instituto de Química Física Rocasolano, CSIC, Spain
- 11.15-11.30 *Coffee Break*
- 11.30-12.30 *Derivation of the reduced reaction mechanisms of ozone depletion events in the Arctic spring*
Prof. Le Cao, Nanjing University of Information Science and Technology, Nanjing, China
- 12.30-13.30 *Lunch Break*
- 13.30-14.00 *Satellite observations of bromine explosion events over the Antarctica*
Sora Seo, IUP Universität Bremen, Bremen
- 14.00-14.30 *Modeling of the recurrence of ozone depletion events in 1D configurations*
Maximilian Herrmann, IWR, Heidelberg University, Heidelberg
- 14.30-15.30 *Precise and flexible discretisations for flow problems*
Prof. Gabriel Wittum, KAUST, Saudi Arabia
- 15.30-15.40 *Closure*
Prof. Eva Gutheil, IWR, Heidelberg University, Heidelberg
- 15.45 End of the short course