Sunday, August 26, 2018

17:00 – 21:00 Registration

from 18:30 BUFFET SUPPER / Informal get together

Monday, August 27, 2018

08:45 – 09:00 Scientific organizers **Opening and welcome**

Aerosol Physical Chemistry (APC)

09:00 – 09:40	Christian George	Photosensitized reactions at the air/water interface
09:40 – 10:20	Kevin Wilson	The Interfacial Chemistry of Organic Aerosols and Cloud Droplets
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Allan Bertram	Diffusion coefficients in organic-water matrices and comparison with Stokes- Einstein predictions
11:30 – 12:10	Margaret Tolbert	Looking for Water on Mars: One Drop at a Time
12:10 – 12:20	Conference Photo	
12:20	LUNCH	
13:40 – 14:10	General Discussion Al	PC

Monday, August 27, 2018

Aerosol Nucleation (Nuc)

14:10 – 14:50	Jasper Kirkby	New insights from CLOUD on biogenic new particle formation in pristine to polluted environments
14:50 – 15:30	Joachim Curtius	Aerosol formation in the Amazon region: From the Boundary Layer to deep convective outflow - Molecular insights from the CLOUD experiment
15:30 – 16:10	Hanna Vehkamäki	Model and experiments to characterise cluster fragmentation inside an Atmos pheric Pressure interface Time Of Flight (APi-TOF) mass spectrometer
16:10 – 16:40	COFFEE BREAK	
16:40 – 17:20	Christopher Johnson	Disentangling the Roles of Structure, Composition, and Intermolecular Interactions in New Particle Formation
17:20 – 18:00	General Discussion Nu	JC

18:30 DINNER

Tuesday, August 28, 2018

08:00 BREAKFAST

Aerosols as Ice Nucleating Particles (Ice)

09:00 – 09:40	Angelos Michaelides	Cold water and ice: Molecular level insight from computer simulations
09:40 – 10:20	Claudia Marcolli	lce nucleation: thermodynamic vs. molecular control
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Alexei Kiselev	To freeze or not to freeze: competition between dynamic wetting and heterogeneous freezing in supercooled water droplet
11:30 – 12:10	Barbara Wyslouzil	Ice nucleation at the edge of no-man's land
12:10	LUNCH	
13:40 – 14:10	General Discussion Ico	e
14:10 – 14:30	Peter Alpert	Direct Imaging of Molecular Diffusion and Reaction in Aerosol Particles
14:30 – 14:50	Cari Dutcher	Using Microfluidic to Study Thermodyn amics and Phase of Single Aqueous Aer osol Droplets
14:50 – 15:10	NNr	On the freezing behavior of small supercooled and hypercooled water droplets
15:10 – 15:30	Monica Passananti	Key components in new particle formation: sulfuric acid clusters with guanidine and diamines
15:30 – 15:50	Tim Esser	A High Resolution Cryogenic Single Nanoparticle Mass Spectrometer
15:50 – 16:10	Mario Nachbar	Heterogeneous ice cloud formation at extreme conditions

Tuesday, August 28, 2018

16:10 COFFEE BREAK

16:40 – 18:00 Poster Session 1: Experimental Topics

- 18:30 20:00 DINNER
- 20:00 21:30 Poster Session 1 continued

Wednesday, August 29, 2018

08:00 BREAKFAST

Aerosol optics (Opt)

09:00 – 09:40	Yinon Rudich	Relationships between molecular composition change and organic aerosol optical properties
09:40 – 10:20	Ruth Signorell	Multistep processes during efflorescence/deliquescence of single, optically trapped aerosol particles
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Jean-Pierre Wolf	Nucleation and Dissipation of Fog with Ultrashot Lasers
11:30 – 12:10	Jonathan Reid	The Evolving Optical Properties of Organic Aerosol Particles
12:10	LUNCH	
13:40 – 14:10	General Discussion Op	ot
14:10 – 18:00	Excursion	

19:00 HERAEUS DINNER at the Physikzentrum (cold & warm buffet, free beverages)

Thursday, August 30, 2018

08:00 BREAKFAST

Fundamentals of Secondary Organic Aerosols (SOA)

09:00 – 09:40	Andrew Ault	Modification of Aerosol Phase, Acidity, and Structure by Heterogeneous and Multiphase Chemistry
09:40 – 10:20	Thomas Berkemeier	Formation and evaporation of organic aerosol from a kinetic modeling perspective
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Hartmut Herrmann	Multiphase Chemistry Contributions to SOA Formation
11:30 – 12:10	General Discussion S	AC
12:10	LUNCH	
13:40 – 14:00	Theo Kurtén	Computational insights into formation mechanisms and properties of atmospheric autoxidation products
14:00 – 14:20	Andreas Zuend	Development of a predictive aerosol viscosity model
14:20 – 14:40	Josip Lovric	Water interactions with an organic nopinone surface: a combined theoretical and experimental study
14:40 – 15:00	Bingbing Wang	Micro-spectroscopic characterization of particles generated from mesocosm and collected over South China Sea
15:00 – 15:20	Antoine Roose	Experimental and theoretical investigation of HO2 sticking on dicarboxylic acid aerosols

Thursday, August 30, 2018

Emerging Technologies for Determination of Molecular Structure (ETech)

15:30 – 16:10	Christian Pfrang	Small-angle X-ray scattering of self- assembled lyotropic phases in single aerosol particles
16:10 – 16:40	COFFEE BREAK	
16:40 – 18:00	Poster Session 2 : The	eoretical Topics
18:30 – 20:00	DINNER	

20:00 – 21:30 **Poster Session 2 : continued**

Friday, August 31, 2018

08:00 BREAKFAST

Emerging Technologies for Determination of Molecular Structure (ETech)

09:00 – 09:40	Nonne Prisle	Exploring the potential for synchrotron radiation based methods to study organic aerosol-water interactions directly at the molecular level
09:40 – 10:20	Markus Amman	Perspective of X-ray excited electron spectroscopy to probe chemistry and structure at the surface of aerosol proxies
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Michael Fárnik	Uptake of atmospheric molecules on acid clusters
11:30 – 12:10	General Discussion ETech	
12:10	LUNCH	
13:40 – 14:10	Scientific organizers	Poster Awards and Final / General Discussion

End of the seminar and Departure

Please note that there will be **no** dinner at the Physikzentrum on Friday evening for participants leaving the next morning.