

GAeF START 2024 Revival of <u>Schwebstofftechnische Arbeitstagung</u>

Tuesday, 20.02.204

9:00	Opening	<u>Asbach, Christof</u> – GAeF President <u>Weinzierl, Bernadett</u> – Local Host		
9:15 - 10:15	Tandem Talk 1	Maisser, Anne / Kruis, Einar Aerosol-based Material Synthesis by Electrical Discharges: Challenges for Aerosol Technology & Instrumentation		
10:15 - 10:45	Coffee Break			
10:45 - 12:30	Oral Session 1	Wlasits, Peter Reduction of the Composition Dependence of Counting Efficiencies in a Condensation Particle Counter by Choice of Working Fluid Weber, Patrick Further Findings From Working Fluids Studies for Condensation Particle Counters Fierz, Martin A New Device for Fast Solid-Volatile Nanoparticle Differentiation Asbach, Christof Performance of a Partector Pro for Atmospheric Number Size Distribution And Number Concentration Measurements at an Urban Background Site		
12:30 - 14:00	Lunch Break			
14:00 — 15:00	Poster Café Session 1	Tronville, Paolo Aerosols From Condensed Vapors Can Contribute to Circular and Green Economy Kupper, Martin An Approach for the Roadside Measurement of Particulate Emissions of Category-L Vehicles by Point Sampling Pail, Mario Characterisation of Volatile Brake Wear Particle Nucleation and Simulation of Total Particle Measurement with a PN-System According to PMP Specifications Schumacher, Stefan Characterization of Particle Emissions From Ultrashort Pulsed Laser Material Processing Kruis, Einar Controlling an Unsteady Aerosol Reactor Applying Online, Real-Time Aerosol Measurements Pongetti, Julie Directly Measuring Droplet Dispersion in an Indoor Environment With a High-Sensitivity Aerosol Flame Photometer Krinke, Thomas Engineering Aerosols: Impact of DMA-Settings on the Yield Fink, Lea Applying the Aerosol Box Model Mafor to Determine the Particle Transition Inside Ship Plumes Morawiec, Aleksandra Comparing Analytical Techniques for Growth Rates in α-Pinen and Ozon Particle Formation Processes Schöberl, Manuel Characterization of the Airborne Aerosol Inlet and Transport System Used During the A-Life Field Experiment Dollner, Maximilian Aerosol-Cloud Interactions in Saharan Mineral Dust Over the Eastern Mediterranean		

15:00 — 16:45	Oral Session 2	Burkart, Julia Exploring a Novel Measurement Method Based on Fluorescence and Holographic Images and Its Application to the Characterization of Plant Debris – A Laboratory Study Schmitt, Steffen Analysing the Impact of Safs on Local Air Quality at Copenhagen Airport Luhmann, Niklas Nanoelectromechanical Fourier-Transform Infrared (NEMS-FTIR) Spectroscopy for The Fast Chemical Characterization of Ultrafine Aerosols Vogt, Ulrich Determination of the Influence of Different Factors on the Emission Behavior During The Operation of Wood-Burning Stoves
17:00 – 18:00	Uni Vie Lab Tours	
19:00	Dinner (open end)	PhD Awards Ceremony <u>Asbach, Christof</u> – GAeF President <u>Moschos, Vaios</u> – 2023 GAeF PhD awardee Assessing the Composition and Sources of Climate-Relevant Atmospheric Aerosol Species

Wednesday, 21.02.204

9:00	Opening	<u>Asbach, Christof</u> – GAeF President Weinzierl, Bernadett – Local Host
9:15 - 10:15	Tandem Talk 1	Mohr, Claudia / Winkler, Paul Aerosol Particle Formation by Nucleation - To Grow or Not to Grow
10:15 - 10:45	Coffee Break	
10:45 - 12:30	Oral Session 3	Jönsson, Linnéa Engineering Aerosols: Nanomaterials Sparked in Lund <u>Gysel-Beer, Martin</u> Using a Multi-Sphere-T-Matrix Optical Kernel Makes It Possible to Retrieve Properties Of Pure Black Carbon Aerosol Samples From Measured Light Scattering Phase Function
		<u>Pratsinis, Sotiris</u> The New Mean Free Path of Air by Accounting for Inelastic Molecular Collisions <u>Pignatelli, Alessia</u> Effects of Ethanol Addition on Ethylene-Air Flame-Generated Aerosol
12:30 - 14:00	Lunch Break	
14:00 – 15:00	Poster Café Session 2	Möhler, Ottmar Development and Operation of a New Expansion-Type Simulation Chamber For Atmospheric Aerosol and Cloud Research Friebel, Franz Mass vs Diameter — How to Identify and Quantify Nanoparticles Held, Andreas Turbulent Fluxes of Cluster Ions During New Particle Formation Events Zikova, Nada Vertical Distribution of Aerosol Activation in Low-Level Stratiform Clouds Asbach, Christof Particle Emissions From Wood-Burning Stoves Into the Indoor Environment Asbach, Christof Characterisation of Dust Emitted by Metro Brakes Li, Kangwei Synthesis and Characterization of Organic Peroxides From Monoterpene-Derived Criegee Intermediates in Secondary Organic Aerosol

14:00 — 15:00	Poster Café Session 2	Niederberger, Erny Real-Time Pollen Identification Using Holographic Imaging and Fluorescence Measurement Gratzl, Jürgen Real Time Measurements of Biological Aerosol Particles in the Finnish Sub-Arctic Konrat, Ruth Heterogeneous Nucleation of Water Vapor on Nanoplastic Particles Wieland, Lisa-Maria Impact of Changes in Mineral Dust Size Distribution After Long-Distance Transport on Dust Optical Properties and Radiative Effects Spannagel, Dominik Ice-Nucleating Particle Measurements With a High Temporal Resolution in Boreal Forests Straus (Kupc), Agnieszka
15:00 – 16:45	Oral Session 4	Straus (Kupc), Agnieszka Investigating Particle Hygroscopicity in Mineral Dust Mixtures: Does the Type of Pollution Matter? Preliminary Results From the A-Life Aircraft Field Campaign Rüther, Torben CDMA: Centrifugal Differential Mobility Analyzer – Measurement of Transfer Functions, Theory and Data Inversion Pongetti, Julie The Mass and Mobility Aerosol Spectrometer (M2AS) – A New Technique for Comprehensive Aerosol Characterisation Schmidt-Ott, Fabian Mass and Mobility of Ions Produced by Radioactive Sources and Corona Discharges Schmidt-Ott, Andreas Is Spark Mixing Triggering a Revolution in Catalysis? – Promising Results

End of Meeting

16:45