# Tuesday, 20.02.204

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| 9:00 | Opening | Asbach, Christof – GAeF President<br>Weinzierl, Bernadett – Local Host |
| 9:15 - 10:15 | Tandem Talk 1 | Maisser, Anne / Kruis, Einar<br>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<br>Reduction of the Composition Dependence of Counting Efficiencies in a Condensation Particle Counter by Choice of Working Fluid<br>Weber, Patrick<br>Further Findings From Working Fluids Studies for Condensation Particle Counters<br>Fierz, Martin<br>A New Device for Fast Solid-Volatile Nanoparticle Differentiation<br>Asbach, Christof<br>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<br>Aerosols From Condensed Vapors Can Contribute to Circular and Green Economy<br>Kupper, Martin<br>An Approach for the Roadside Measurement of Particulate Emissions of Category-L Vehicles by Point Sampling<br>Pail, Mario<br>Characterisation of Volatile Brake Wear Particle Nucleation and Simulation of Total Particle Measurement with a PN-System According to PMP Specifications<br>Schumacher, Stefan<br>Characterization of Particle Emissions From Ultrashort Pulsed Laser Material Processing<br>Kruis, Einar<br>Controlling an Unsteady Aerosol Reactor Applying Online, Real-Time Aerosol Measurements<br>Misiulia, Dzmitry<br>Development of a High-Flow Respirable Cyclone Sampler<br>Pongetti, Julie<br>Directly Measuring Droplet Dispersion in an Indoor Environment With a High-Sensitivity Aerosol Flame Photometer<br>Krinke, Thomas<br>Engineering Aerosols: Impact of DMA-Settings on the Yield<br>Fink, Lea<br>Applying the Aerosol Box Model Mafor to Determine the Particle Transition Inside Ship Plumes<br>Morawiec, Aleksandra<br>Comparing Analytical Techniques for Growth Rates in $\alpha$-Pinen and Ozon Particle Formation Processes<br>Schöberl, Manuel<br>Characterization of the Airborne Aerosol Inlet and Transport System Used During the A-Life Field Experiment<br>Dollner, Maximilian<br>Aerosol-Cloud Interactions in Saharan Mineral Dust Over the Eastern Mediterranean |
| 15:00 – 16:45 | Oral Session 2 | Burkart, Julia<br>Exploring a Novel Measurement Method Based on Fluorescence and Holographic Images and Its Application to the Characterization of Plant Debris – A Laboratory Study<br>Schmitt, Steffen<br>Analysing the Impact of Safs on Local Air Quality at Copenhagen Airport<br>Luhmann, Niklas<br>Nanoelectromechanical Fourier-Transform Infrared (NEMS-FTIR) Spectroscopy for The Fast Chemical Characterization of Ultrafine Aerosols<br>Vogt, Ulrich<br>Determination of the Influence of Different Factors on the Emission Behavior During The Operation of Wood-Burning Stoves |

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| 17:00 – 18:00 | Uni Vie Lab Tours | |

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| 19:00 | Dinner (open end) | PhD Awards Ceremony<br>Asbach, Christof – GAeF President<br>Moschos, Vaios – 2023 GAeF PhD awardee<br>Assessing the Composition and Sources of Climate-Relevant Atmospheric Aerosol Species |

## Wedneday, 21.02.204

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| 9:00 | Opening | Asbach, Christof – GAeF President<br>Weinzierl, Bernadett – Local Host |
| 9:15 - 10:15 | Tandem Talk 1 | Mohr, Claudia / Winkler, Paul<br>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<br>Engineering Aerosols: Nanomaterials Sparked in Lund<br><br>Gysel-Beer, Martin<br>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<br><br>Pratsinis, Sotiris<br>The New Mean Free Path of Air by Accounting for Inelastic Molecular Collisions<br><br>Pignatelli, Alessia<br>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<br>Development and Operation of a New Expansion-Type Simulation Chamber For Atmospheric Aerosol and Cloud Research<br><br>Friebel, Franz<br>Mass vs Diameter – How to Identify and Quantify Nanoparticles<br><br>Held, Andreas<br>Turbulent Fluxes of Cluster Ions During New Particle Formation Events<br><br>Zikova, Nada<br>Vertical Distribution of Aerosol Activation in Low-Level Stratiform Clouds<br><br>Asbach, Christof<br>Particle Emissions From Wood-Burning Stoves Into the Indoor Environment<br><br>Asbach, Christof<br>Characterisation of Dust Emitted by Metro Brakes<br><br>Li, Kangwei<br>Synthesis and Characterization of Organic Peroxides From Monoterpene-Derived Criegee Intermediates in Secondary Organic Aerosol<br><br>Niederberger, Erny<br>Real-Time Pollen Identification Using Holographic Imaging and Fluorescence Measurement<br><br>Gratzl, Jürgen<br>Real Time Measurements of Biological Aerosol Particles in the Finnish Sub-Arctic<br><br>Konrat, Ruth<br>Heterogeneous Nucleation of Water Vapor on Nanoplastic Particles<br><br>Wieland, Lisa-Maria<br>Impact of Changes in Mineral Dust Size Distribution After Long-Distance Transport on Dust Optical Properties and Radiative Effects<br><br>Spannagel, Dominik<br>Ice-Nucleating Particle Measurements With a High Temporal Resolution in Boreal Forests<br><br>Straus (Kupc), Agnieszka<br>Investigating Particle Hygroscopicity in Mineral Dust Mixtures: Does the Type of Pollution Matter? Preliminary Results From the A-Life Aircraft Field Campaign |

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| 15:00 – 16:45 | Oral Session 4 | Rüther, Torben<br>CDMA: Centrifugal Differential Mobility Analyzer – Measurement of Transfer Functions, Theory and Data Inversion<br><br>Pongetti, Julie<br>The Mass and Mobility Aerosol Spectrometer (M2AS) – A New Technique for Comprehensive Aerosol Characterisation<br><br>Schmidt-Ott, Fabian<br>Mass and Mobility of Ions Produced by Radioactive Sources and Corona Discharges<br><br>Schmidt-Ott, Andreas<br>Is Spark Mixing Triggering a Revolution in Catalysis? - Promising Results |

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| 16:45 | End of Meeting | |