Presentations in the context of the Oberseminar „Instrumentelle Spurenanalytik II"

(WiSe 2023/2024)

Date	Student	Supervisor	Question
26.02.2024	Borkowska	Hildmann sthildma@uni-mainz.de	How is aerosol mass spectrometry (AMS) revolutionizing our understanding of the complex chemistry and impact of atmospheric aerosols on air quality and climate?
26.02.2024	Eckert	Geil bageil@uni-mainz.de	What is the best way to identify unknown organic volatile substances in the atmosphere (non-target approach)?
26.02.2024	Finsterbusch	Borchers chborche@uni-mainz.de	You want to carry out an online MS analysis of organic aerosol in which you only observe a small amount of fragmentation. How do you proceed?
27.02.2024	Föckler	Douverne mdouvern@uni-mainz.de	How can you analyze the particle and gas phase of an organic aerosol with a single instrument?
27.02.2024	Raap	Müller muyannik@uni-mainz.de	How can you identify organic components on surfaces in real time at atmospheric pressure using DART-MS?
27.02.2024	Rabe	Rautenberg wiebke.rautenberg@uni-mainz.de	How does ion mobility spectrometry improve the quick and accurate detection of explosive substances?
27.02.2024	Shao	Kleinsimlinghaus daniela.kleinsimlinghaus@uni-mainz.de	What are the basic principles and applications of thermal desorption as an analytical method for GC-MS, (compare to other techniques)?
28.02.2024	Sprunk	Paszek dapaszek@uni-mainz.de	Provide examples of innovative systems for High-Efficiency Sample Introduction via Drop-on-Demand-Aerosol generation in Inductively Coupled Plasma (ICP), and discuss their benefits compared to conventional nebulization and spray chamber techniques.
28.02.2024	Zemke	Klauer reklauer@uni-mainz.de	How can trace metals in glass be determined directly without digestion?