

## Agenda

01:00 pm Welcome (BAM)

01:10 pm Introduction (TOFWERK)

### LA/ICP-ToF-MS applications

01:25 pm **Introduction lecture: Sarah Theiner**, University of Vienna, AUS  
*LA/ICP-ToF-MS for multi-elemental imaging*

02:00 pm **Dany Savard**, Université du Québec à Chicoutimi, CAN  
*New Mapping Protocol Using a Rapid Response Cell (Fast-Funnel) for LA-FF-ICP-TOF-MS for the Fast, Simultaneous Quantification of Multiple Minerals*

02:20 pm **Hao Wang**, Swiss Gemmological Institute SSEF, CHE  
*Multi-element Analysis on Gemstones using LA-ICP-TOF-MS and Data Visualization using Machine Learning*

02:40 pm **Masaki Nakazato**, The University of Tokyo, JPN  
*Depth Profiling Analysis of U-Pb Ages and Rare Earth Elements in Zircons using ICP-Time of Flight-Mass Spectrometer*

03:00 pm Coffee break

03:15 pm **New developments & data assessment in LA-ICP-ToF-MS** (TOFWERK)

04:15 pm Coffee break

### sp/sc-ICP-ToF-MS applications

04:30 pm **Introduction lecture: Garret Bland**, Carnegie Mellon University, USA  
*Single particle-ICP-ToF-MS in combination with machine learning approaches*

05:05 pm **Timothy-Ronald Holbrook**, Helmholtz Centre for Environmental Research, GER  
*Particle classification and in-sit detection of multi-element particles with laser ablation single particle ICP-ToF-MS*

05:25 pm **Mohammed Baalousha**, University of South Carolina, USA  
*Analysis of Anthropogenic Nanomaterials in Urban Rainfall and Runoff Using Single Particle-Inductively Coupled Plasma-Time of Flight-Mass Spectrometry*

05:45 pm **Marcus von der Au**, Federal Institute for Materials Research and Testing, GER  
*MDG-ICP-ToF-MS - A Versatile Tool for Quantification in the field of Single Cell and Single Particle ICP-MS*

06:05 pm **Wen Qin**, Helmholtz Centre for Environmental Research UFZ, GER  
*Determination of elemental concentration in single cells by a versatile cell staining material*

06:25 pm **Sarah Szakas**, Iowa State University, USA  
*Classification of Natural, Incidental, and Engineered Cerium-Containing Particles by spICP-TOFMS*

06:45 pm Final discussion

07:15 pm Farewell

## Information

### Location & Timing:

virtual@BAM, Division 1.1 – Inorganic Trace Analysis, Cisco Webex Meetings  
all time information are related to Central European Time (CET, UTC+1)