



CHEMISTRY & BIOCHEMISTRY

# SEMINAR PROGRAM

DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY  
UNIVERSITY OF OKLAHOMA

NORMAN, OK 73019-3051 ★ (405) 325-4811 ★ FAX: (405) 325-6111

We Are Pleased to Announce A Seminar  
Presented By

**Stefan Wilhelm**  
University of Oklahoma  
Biomedical Engineering

Friday, February 10, 2023  
4:15 pm  
NWC 1313

## **Quantifying Nano-Bio Interactions in Nanomedicine**

In this presentation, we will explore nano-bio interactions of engineered nanoparticles with cellular and sub-cellular spatiotemporal resolutions. Using quantitative analytical techniques, such as elemental analysis and super-resolution microscopy, we determined the delivery of administered nanoparticles to individual cell populations. Our research enables the engineering of safe and more effective inorganic and organic nanomedicines for applications in diagnosis, therapy, and vaccination.

### **Brief Biography**

Dr. Wilhelm is an Assistant Professor of Biomedical Engineering at the University of Oklahoma. He received his doctoral degree in Analytical Chemistry from the University of Regensburg (Germany). For his postdoctoral training, he joined the research group of Prof. Warren C. W. Chan at the Institute of Biomaterials and Biomedical Engineering (University of Toronto, Canada). Dr. Wilhelm's research interest is in the development of nanotechnology for bioanalytical and cancer applications. He received the NSF CAREER award and has been named a Scialog Fellow for Advancing Bioimaging by the Research Corporation for Science Advancement (RCSA).

Refreshments will be served.