

UCSD NANO & CHEMICAL ENGINEERING  
**SPECIAL SEMINAR**

Monday, February 27<sup>th</sup>, 2023

Seminar Presentation: 2 – 3 PM

**SME Room 248**

Hands-On Workshop: 3 – 5 PM

**NE-MRC facility, SME Room B004**

*“Making the most of your X-ray diffraction measurements:  
Introducing the Anton Paar XRDynamic 500 (located in the NE-MRC  
in SME B004) and its SAXS and non-ambient capabilities”*

**Andrew Jones, PhD**

*Global Product Manager XRD  
Anton Paar GmbH*

**Abstract:** Anton Paar’s XRDynamic 500, housed in the NE-MRC, pushes the boundary of what an automated multipurpose powder X-ray diffractometer is capable of. With XRD being the gold standard for the investigation of structures at the atomic level, the advanced features and automation offered by XRDynamic 500 bring improvements in data quality and instrument ease-of-use that ensure that even users new to XRD can collect high quality data to answer the challenging questions posed by the structure of their samples. This seminar will give an overview of the XRDynamic 500 system as it is configured at NE-MRC, highlighting not only standard powder XRD capabilities, but also the non-ambient XRD and small-angle X-ray scattering (SAXS) options, with real-world application examples.

**Biosketch:** Andrew Jones joined Anton Paar in 2017 and is currently global product manager for XRD. For over 10 years, he has specialized in powder XRD, non-ambient XRD and grazing incidence XRD techniques. He has a doctorate degree in Chemistry from the University of Bath, UK, and also worked as a researcher with a focus on XRD at Université Libre de Bruxelles in Belgium and Graz University of Technology, Austria, prior to joining Anton Paar.

Light refreshments will be served.