



**'Exploring New Science Opportunities
with the National Synchrotron Light Source II'**

Agenda

Organizer: Faisal Alamgir

Opening

9:00 a.m. — Opportunities for the GT community to engage with the NSLS II, a leading synchrotron facility in the world, *Faisal Alamgir*

T1 - Chemically Speciated 3-D Tomography of hard and soft materials

9:30 — Imaging major, minor and ultra-trace elements in environmental and cultured microorganisms at the single-cell level using the Bionanoprobe (Advanced Photon Source), *Jennifer Glass*

10:00 — Chemical and structural heterogeneity visualized by high-resolution X-ray spectromicroscopy, *Yuanzhi Tang*

10:30 — Break

T2 - Time and Spatially Resolved Operando Studies of Reaction mechanisms

10:45 — Real-world Catalysis studies using Synchrotron Methods, *Carsten Sievers*

11:15 — Nanoscale Design of Electrocatalysts for Fuel Cell and Electrolyzer Applications, *Seung Woo Lee*

11:45 — Understanding the reactions of solid state materials by using synchrotron based high time resolution X-ray scattering techniques, *Hailong Chen*

12:15 p.m. — Lunch

T3 - Surface/near-surface phenomena with Nanoscale Depth Discrimination

1:15 — Surface-to-bulk chemical and electronic structure mapping using unique synchrotron capabilities, *Faisal Alamgir*

1:45 — Spectroscopic study of patterned graphene using synchrotron methods, *Ed Conrad*

2:15 — Breakout discussion sessions

2:45 — Closing discussion