8:30—8:35	Ashwin Shahani (University of Michigan) *Opening Remarks*
8:35—9:10	Tao Sun (Argonne National Laboratory) *High-speed X-ray Imaging and Diffraction at the 32-ID-B Beamline of the Advanced Photon Source*
9:10—9:45	Lianyi Chen (Missouri University of Science and Technology) *Characterizing the Dynamics of Laser Powder Bed Fusion Additive Manufacturing Processes by High-speed X-ray Imaging*
9:45 – 10:20	Robert Suter (Carnegie Mellon University) *Tomographic Studies for Reliable Additive Manufacturing of Metals*
10:20—10:50	Break and workshop picture
10:50—11:25	Nikhilesh Chawla (Arizona State University) In Situ *Materials Science: Probing Microstructural Evolution of Metallic Materials in Real Time*
11:25—12:00	Peter Voorhees (Northwestern University) *Creating Materials Databases Using X-ray Tomography*
12:00—1:00	Lunch
1:00—1:35	Amy Clarke (Los Alamos National Laboratory) In Situ *Imaging of Metallic Alloy Solidification Dynamics for Advanced Manufacturing*
1:35—2:10	Ashwin Shahani (University of Michigan) *Probing the Growth Dynamics of Periodic Crystals and Quasicrystals in Real Time*
2:10—2:45	Michael Dudley (Stony Brook University) *Evolution of Defects during the Growth of SiC Substrates and Epilayers*
2:45—3:15	Break
3:15—3:50	Zonghai Chen (Argonne National Laboratory) *Unveiling Failure Mechanism of Lithium-ion Batteries*
3:50—4:25	Jordi Cabana (University of Illinois at Chicago) *Visualization of Electrochemical Reactions in Battery Materials with X-ray Microscopy*
4:25—5:00	Feng Lin (Virginia Tech) *Understanding the Surface Chemistry of Battery Materials Using Synchrotron X-ray Spectroscopy*
5:00—5:15	Xianghui Xiao (Argonne National Laboratory) *Concluding Remarks*