## **APS Workshop 8: Materials for Neuromorphic Computing:** *Operando* **Studies to Optimize Performance**

## Wednesday, May 4, Afternoon

1:00 – 1:30	Fangfang Xia (Data Science and Learning Division, Argonne National Laboratory)  Co-design Opportunities in Neuromorphic Computing
1:30 – 2:00	Yoeri van de Burgt (Microsystems and Eindhoven Artificial Intelligence Systems Institute, Eindhoven University of Technology) Organic Neuromorphic Electronics and Biohybrid Systems
2:00 – 2:30	Bryan D. Paulsen (Northwestern University) In Situ and Operando Characterization of Organic Mixed Ionic-electronic Conductors for Neuromorphics, Bioelectronics, and Beyond
2:30 – 2:45	Break
2:45 – 3:00	Joseph Strzalka (X-ray Science Division, Argonne National Laboratory)  Preview of GIXS and Surface XPCS Capabilities at APS-U Beamline 9-ID
3:00 – 3:30	A. Alec Talin (Sandia National Laboratory)  Electrochemical Random Access Memory (ECRAM) for  Neuromorphic Computing
3:30 – 4:00	Sihong Wang (Pritzker School of Molecular Engineering, University of Chicago and Nanoscience and Technology Division, Argonne National Laboratory) Skin-like Neuromorphic Devices for Intelligence and Personalized Wearable Technology
4:00 - 4:15	Discussion
4:15	Adjourn