

PNWAVS 2023 Symposium Schedule

THURSDAY, 7 SEPTEMBER

8:05-8:20	Elton Graugnard	Chair Greeting	Boise State University
8:25-8:30	Nancy Glenn	Vice President for Research and Economic Development, Opening Remarks	Boise State University

Session 1 **Chair: Elton Graugnard**

8:35-9:15	Gurtej S. Sandhu	(Invited Keynote) Future of Memory Chip Technology	Micron Technology
9:20-10:00	Sudarat Lee	(Invited) Innovations in Atomic Layer Deposition Enabling Angstrom Era Semiconductor Manufacturing	Intel Corporation

10:00-10:30 Break and Vendor Exhibit

10:30-11:10	John F. Conley, Jr.	(Invited) TBD	Oregon State University
11:15-11:55	David Estrada	(Invited) Scalable manufacturing of 2D and layered materials thin films	Boise State University

11:55-1:30 Lunch and Vendor Exhibit

Session 2 **Chair: Tiffany Kaspar**

1:30-2:10	Brelon J. May	(Invited) Molecular Beam Epitaxy of Transition Metal Nitrides	Idaho National Laboratory
2:15-2:35	Matt McCluskey	Photoluminescence Mapping of Semiconductors and Oxides	Klar Scientific/ Washington State University
2:40-3:00	Kevin D. Vallejo	Synthesis and transport properties of rare-earth nitrides deposited via molecular beam epitaxy	Idaho National Laboratory

3:00-3:30 Break and Vendor Exhibit

3:30-4:10	Zbynek Novotny	(Invited) Probing Solid-liquid Interfaces with Tender X-rays	Paul Scherrer Institute
4:15-4:35	Dan Thien Nguyen	Unveiling The Correlation Between The Solvation Sheath And Surface Reactions In Multivalent Rechargeable Batteries	Pacific Northwest National Laboratory/ Argonne National Laboratory
4:40-5:00	Xin Zhang	Molecular examination of metal ion pairs formation and competition in highly concentrated electrolyte solutions using in situ liquid SIMS	Pacific Northwest National Laboratory

Session 3 **Chair: Vaithiyalingam "Shuttha" Shutthanandan**

5:00-6:45	Poster Session and Vendor Exhibit		
6:50-8:00	Ahmad Islam	(Dinner + Plenary Talk) Electronic device development using the newest semiconductor: β -Ga ₂ O ₃ ,	Air Force Research Lab

FRIDAY, 8 SEPTEMBER

Session 4 Co-Chairs: Josh Eixenberger and Tony Varghese

8:05-8:45	Robert A. Kaindl	(Invited) CXFEL Labs – New Horizons for Ultrafast X-ray Science	Arizona State University
8:50-9:10	Liane Moreau	Uranyl absorption into metal organic frameworks: a detailed structural analysis through X-ray spectroscopy and anomalous scattering	Washington State University
9:15-9:35	Min-Ju Choi	X-ray Photoelectron Spectroscopy Analysis for Pt 4f core-level peaks in Pt-attached TiO ₂ Nanoparticles	Pacific Northwest National Laboratory
9:40-10:00	Debashree Roy	How Surfactants Control the Morphology of Au Nanocrystals	Washington State University

10:00-10:30 Break and Vendor Exhibit

10:30-11:10	Lin You	(Invited) Characterizing state-of-the-art memory structures via scanning probe microscopies (SPM)	Micron Technology
11:15-11:35	Sten V. Lamberts	Exploring Field-Assisted Nitrogen Activation and Dissociation on Ru with Operando Atom Probe Microscopy	Pacific Northwest National Laboratory
11:40-12:00	Xiang Wang	In-Situ Investigation of Nanoscale Oxide Formation in GARS-prepared ODS Powders	Pacific Northwest National Laboratory
12:05-12:25	Xiaoxu Li	Identical Location Transmission Electron Microscopy Reveals Nanoscale Controls on Carbon Mineralization of Silicates	Pacific Northwest National Laboratory

12:25-1:25 Boxed Lunch (relocate to Micron Center for Materials Research)

Session 5 Chair: Elton Graugnard

1:30-2:30	Jean-Sabin McEwen	(Invited + MSMSE Seminar) Elucidating the Chemical Nature of Single-Site Catalysts from First Principles	Washington State University/ Pacific Northwest National Laboratory
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