

# WORKSHOP & TUTORIAL OVERVIEW SCHEDULE

## WEDNESDAY, OCTOBER 3

Workshop
  Tutorial
  Workshop+Tutorial

Detailed agendas available at [als.lbl.gov/workshops](https://als.lbl.gov/workshops)

Morning start times are 8:30, and evening end times are 5:00, unless otherwise noted.

	Nanospectroscopies (33-106)	9 <sup>th</sup> Annual SIBYLS BioSAXS Workshop (33-306)	Ptycho-tomography (30-206)	Spin & Electronic Order in Functional Materials (2-100B)	Fundamental Understanding of Electrochemical & Catalytic Processes Using Synchrotron Techniques (6-2202)	Progress and Challenges Toward In Situ/Operando Resonant Soft X-Ray Scattering (54-130)	X-Ray Footprinting to Study Protein Conformations & Interactions in Solutions (2-400F)	Fundamentals & Applications of Soft X-Ray RIXS: Opportunities in Physics & Materials (15-253)	Understanding the Self-Assembly of 1D & 2D Nanomaterials with In Situ X-Ray Scattering (54-130B)
Morning Session 1	X-Ray Nanospectroscopy <ul style="list-style-type: none"> <li>• Volker Rose (ANL)</li> <li>• Suhas Kumar (HP)</li> </ul>	Frontiers in BioSAXS & Integrating Modeling (starts 8:45) <ul style="list-style-type: none"> <li>• Greg Hura (LBNL)</li> </ul>	Nano-Ptychography & Micro-Tomography at ALS <ul style="list-style-type: none"> <li>• Young-Sang Yu (ALS)</li> <li>• Kasra Nowrouzi (ALS)</li> <li>• Huibin Chang (LBNL)</li> </ul>	Probing Interfacial Ferromagnetic Effects <ul style="list-style-type: none"> <li>• Rajesh Chopdekar (ALS)</li> <li>• Yayoi Takamura (UC Davis)</li> <li>• Roberto Lo Conte (Foundry)</li> </ul>	Applications of Synchrotron Radiation for Electrochemistry <ul style="list-style-type: none"> <li>• Lin-Wang Wang (LBNL)</li> <li>• Hans-Georg Steinrück (SLAC)</li> <li>• Alex Bell (UCB)</li> </ul>	In Situ Soft X-Ray Instrumentation <ul style="list-style-type: none"> <li>• David Shapiro (ALS)</li> <li>• Eliot Gann (BNL)</li> <li>• Brian Collins (WSU)</li> <li>• Jinghua Guo (ALS)</li> </ul>	(Afternoon only workshop)	Introduction to RIXS Group & Beamlines (starts 8:45) <ul style="list-style-type: none"> <li>• Jinghua Guo (ALS)</li> <li>• Wanli Yang (ALS)</li> <li>• Per-Anders Glans-Suzuki (ALS)</li> <li>• Yi-De Chuang (ALS)</li> <li>• Yi-Sheng Liu (ALS)</li> </ul>	Self-Assembly of Nanomaterials & X-Ray Scattering (starts 8:40) <ul style="list-style-type: none"> <li>• Alexandra Courtis (UCB)</li> <li>• Bor-Rong Chen (SLAC)</li> </ul>
<b>Break 10:00–10:20</b>									
Morning Session 2	Infrared <ul style="list-style-type: none"> <li>• Hans Bechtel (ALS)</li> <li>• Feng Wang (UCB)</li> <li>• Mengkun Liu (Stony Brook)</li> </ul>	Frontiers in BioSAXS & Integrating Modeling <ul style="list-style-type: none"> <li>• Walter Chazin (Vanderbilt)</li> <li>• Steve Meisburger (Princeton)</li> <li>• Michal Hammel (LBNL)</li> </ul>	Frameworks for High Performance & Ptycho-Tomography <ul style="list-style-type: none"> <li>• Michael Chen (UCB)</li> <li>• Doga Gursoy (ANL)</li> <li>• Dula Parkinson (ALS)</li> </ul>	Tuning Electronic Order in Heterostructures <ul style="list-style-type: none"> <li>• Steve May (Drexel)</li> <li>• Suraj Cheema (UCB)</li> <li>• Yuri Suzuki (Stanford)</li> </ul>	Applications of Synchrotron Radiation for Electrochemistry <ul style="list-style-type: none"> <li>• Jay Anthony Schwalbe (Stanford)</li> <li>• Sarah Tolbert (UCLA)</li> <li>• Christopher Hahn (Stanford)</li> </ul>	Advances in RSoXS Analysis & Development <ul style="list-style-type: none"> <li>• Subh Mukherjee (NIST)</li> <li>• Qin Hu (Foundry)</li> <li>• Thomas Ferron (WSU)</li> <li>• Guillame Freychet (ALS)</li> </ul>	(Afternoon only workshop)	Experimental Session: RIXS of Energy Materials <ul style="list-style-type: none"> <li>• Shawn Sallis (NYSU)</li> <li>• Liang Zhang (LBNL)</li> <li>• William Gent (Stanford)</li> </ul>	Self-Assembly of Nanomaterials & X-Ray Scattering <ul style="list-style-type: none"> <li>• Mikhail Zhernenkov (BNL)</li> <li>• Andrei V. Petukhov (Utrecht/Eindhoven)</li> <li>• Brendan Folie (UCB)</li> </ul>
<b>Lunch 12:00–1:30 (ALS Patio)</b>									
Afternoon Session 1	Microscopy <ul style="list-style-type: none"> <li>• Lena F. Kourkoutis (Cornell)</li> <li>• Jim Ciston (LBNL)</li> <li>• Benjamin Lev (Stanford)</li> </ul>	BioSAXS Methods <ul style="list-style-type: none"> <li>• Beamline tour and demo</li> <li>• Thomas Weiss (SLAC)</li> </ul>	Phase Contrast with Electrons, Visible Light, Hard, & Soft X-Rays <ul style="list-style-type: none"> <li>• Colin Opus (Foundry)</li> <li>• Leo Fang (BNL)</li> <li>• Aaron Parson (Diamond)</li> </ul>	Scattering from Ordered Electronic & Magnetic Textures <ul style="list-style-type: none"> <li>• Padraic Shafer (ALS)</li> <li>• Margaret McCarter (UCB)</li> <li>• Rebecca Smaha (Stanford)</li> </ul>	Spectroscopy & Dynamics in Heterogeneous Catalysis <ul style="list-style-type: none"> <li>• Susannah Scott (UCSB)</li> <li>• Baran Eren (Weizmann)</li> <li>• Oleg Kostko (LBNL)</li> </ul>	First In Situ Experiments <ul style="list-style-type: none"> <li>• Haimeimei Zheng (LBNL)</li> <li>• Terry McAfee (WSU)</li> <li>• Sintu Rongpipi (Penn State)</li> <li>• Isvar Cordova (ALS)</li> </ul>	Footprinting for Structural Analysis <ul style="list-style-type: none"> <li>• Corie Ralston (LBNL)</li> <li>• Marcell Zimanyi (UCSF)</li> <li>• Shawn Costello (UCB)</li> <li>• Awuri Asuru (Case Western)</li> <li>• Janna Kiselar (Case Western)</li> </ul>	Theoretical Session: RIXS Theory <ul style="list-style-type: none"> <li>• David Prendergast (Foundry)</li> <li>• Brian Moritz (SLAC)</li> <li>• Lin Liao (NYU)</li> </ul>	Self-Assembly of Nanomaterials & X-Ray Scattering <ul style="list-style-type: none"> <li>• Xiao-Min Lin (ANL)</li> <li>• Yadong Yin (UCR)</li> <li>• Ewa Gorecka (U. Warsaw)</li> </ul>
<b>Break 3:00–3:20</b>									
Afternoon Session 2	Nanoparticles <ul style="list-style-type: none"> <li>• Sandeep Ghosh (UT)</li> <li>• Archana Raja (UCB)</li> </ul>	BioSAXS Applications <ul style="list-style-type: none"> <li>• Chris Brosey (MD Anderson)</li> <li>• Fatma Zehra Yildiz (Harvard)</li> <li>• George Ueda (Wash. U.)</li> <li>• Soumya Remesh (LBNL)</li> </ul>	New Algorithms & Software Analysis, Panel Discussion <ul style="list-style-type: none"> <li>• Wen Hu (BNL)</li> <li>• Dinesh Kumar (LBNL)</li> <li>• Discussion</li> </ul>	Correlations in Time-Dependent Magnetic Order <ul style="list-style-type: none"> <li>• Sujoy Roy (ALS)</li> <li>• Xiaoyu Zhang (Yale)</li> <li>• Todd Hastings (U. Kentucky)</li> </ul>	Spectroscopy & Dynamics in Heterogeneous Catalysis <ul style="list-style-type: none"> <li>• Coleman Kronawitter (UC Davis)</li> <li>• Heath Kersell (UCB)</li> <li>• Dana Goodacre (LBNL)</li> </ul>	Future Directions for In Situ X-Rays <ul style="list-style-type: none"> <li>• Daniel Miller (LBNL)</li> <li>• Nicholas Bedford (U. of New South Wales)</li> <li>• Dean Delongchamp (NIST)</li> </ul>	Future Directions for In Situ X-Rays <ul style="list-style-type: none"> <li>• Daniel P. DePonte (SLAC)</li> <li>• Sayan Gupta (LBNL)</li> <li>• Erik Farquhar (BNL)</li> </ul>	XAS & RIXS of Highly Correlated Physics & Practical Materials <ul style="list-style-type: none"> <li>• Byron Freelon (U. Louisville)</li> <li>• Vijayakumar Murugesan (PNNL)</li> <li>• James Thorne (Boston College)</li> </ul>	Self-Assembly of Nanomaterials & X-Ray Scattering <ul style="list-style-type: none"> <li>• Elena Shevchenko (ANL)</li> <li>• Yat Li (UC Santa Cruz)</li> <li>• Group discussion</li> </ul>
<b>5:15—Evening Session in B50 Auditorium</b>									

# WORKSHOP & TUTORIAL OVERVIEW SCHEDULE

## THURSDAY, OCTOBER 4

Workshop
  Tutorial
  Workshop+Tutorial

Detailed agendas available at [als.lbl.gov/workshops](https://als.lbl.gov/workshops)

Morning start times are 8:30, and evening end times are 5:00, unless otherwise noted.

	Light Sources 101 (15-253)	Strategies for Ambient-Pressure XPS Data Collection & Analysis (6-2202)	Beamline Controls in Python with X-cam, Bluesky, & PyDM (2-400F)	Nanospectroscopies (33-106)	9 <sup>th</sup> Annual SIBYLS BioSAXS Workshop (33-306)	Ptycho-tomography (30-206)	Spin & Electronic Order in Functional Materials (2-100B)
Morning Session 1	<b>Spectroscopy</b> <ul style="list-style-type: none"> <li>Wanli Yang (ALS)</li> <li>Monika Blum (ALS)</li> </ul>	<b>APXPS Experiments &amp; Complementary XAS</b> <ul style="list-style-type: none"> <li>Baran Eren (Weizmann)</li> <li>Coleman Kronawitter (UC Davis)</li> </ul>	<b>Beamline Data Acquisition &amp; Controls Systems</b> <ul style="list-style-type: none"> <li>Ronald Pandolfi (LBNL)</li> <li>Shuai Liu (UCB)</li> <li>Harinarayan Krishnan (LBNL)</li> <li>Kevan Anderson (ALS)</li> </ul>	<b>Optical Methods</b> <ul style="list-style-type: none"> <li>Connor Bischak (UCB)</li> <li>Jim Schuck (Columbia)</li> <li>Shuo Sun (Stanford)</li> </ul>	<b>BioSAXS Introduction (Theory)</b> (starts 9:00) <ul style="list-style-type: none"> <li>Student presentations</li> </ul>	<b>Live Streaming from ALS, Hands-on Tutorial</b> (starts 9:00) <ul style="list-style-type: none"> <li>Pablo Enfedaque (LBNL)</li> </ul>	<b>Manipulating Spins &amp; Magnetization Dynamics</b> <ul style="list-style-type: none"> <li>Mi-Young Im (LBNL)</li> <li>Qian Li (UCB)</li> <li>Satoru Emori (Virginia Tech)</li> </ul>
<b>Break 10:00–10:20</b>							
Morning Session 2	<b>Photoemission</b> <ul style="list-style-type: none"> <li>Chris Jozwiak (ALS)</li> <li>Ethan Crumlin (ALS)</li> </ul>	<b>APXPS Experiments &amp; Complementary XAS</b> <ul style="list-style-type: none"> <li>Cheng-Tai Kuo (ALS)</li> <li>Slavomir Nemsak (ALS)</li> <li>David Mueller (Forschungszentrum Juelich)</li> </ul>	<b>Beamline Controls Interfaces &amp; Automated Acquisition</b> <ul style="list-style-type: none"> <li>Hugo Slepicka (SLAC)</li> <li>Theodore Rendahl (SLAC)</li> <li>Marcus Noack (LBNL)</li> <li>Ronald Pandolfi (LBNL)</li> </ul>	<b>Nanoprobes</b> <ul style="list-style-type: none"> <li>Ben Feldman (Stanford)</li> <li>Brian May (UIC)</li> <li>Sayeef Salahuddin (UCB)</li> </ul>	<b>BioSAXS Introduction (Methods)</b> (starts 10:15) <ul style="list-style-type: none"> <li>Greg Hura (LBNL)</li> <li>Michal Hammel (LBNL)</li> </ul>	<b>Live Streaming from ALS, Hands-on Tutorial</b> <ul style="list-style-type: none"> <li>Pablo Enfedaque (LBNL)</li> <li>Hari Krishnan (LBNL)</li> <li>Bjoern Enders (UCB)</li> <li>Dinesh Kumar (LBNL)</li> </ul>	<b>Ferroic Properties, Topological Interactions</b> <ul style="list-style-type: none"> <li>Lane Martin (UCB)</li> <li>David Lederman (UC Santa Cruz)</li> <li>Dustin Gilbert (U. Tenn.)</li> </ul>
<b>Lunch 12:00–1:30 (ALS Patio)</b>							
Afternoon Session 1	<b>Scattering</b> <ul style="list-style-type: none"> <li>Brian Collins (WSU)</li> <li>Isvar Cordova (ALS)</li> </ul>	<b>APXPS Data Analysis</b> <ul style="list-style-type: none"> <li>Ashley Head (BNL)</li> </ul>	(Morning only tutorial)	<b>NanoARPES</b> <ul style="list-style-type: none"> <li>Aaron Bostwick (ALS)</li> <li>Christoph Kastl (Foundry)</li> <li>Jyoti Katoch (Carnegie Melon)</li> </ul>	<b>Hands-on Practical Tutorial</b> (starts 1:00) <ul style="list-style-type: none"> <li>Greg Hura (LBNL)</li> <li>Michal Hammel (LBNL)</li> <li>Practical session with mentors</li> </ul>	<b>Beamline Tour, Software Tools</b> <ul style="list-style-type: none"> <li>Tour around the beamline</li> </ul> (ends 2:00)	<b>Spin Perturbations &amp; Novel Spin Textures</b> <ul style="list-style-type: none"> <li>Roopali Kukreja (UC Davis)</li> <li>Jun Woo Choi (NIST)</li> </ul> (ends 2:45)
<b>Break 3:00–3:20</b>							
Afternoon Session 2	<b>Scattering &amp; Imaging</b> <ul style="list-style-type: none"> <li>James Holton (UCSF/LBNL)</li> <li>Bjoern Enders (UCB)</li> <li>Dula Parkinson (ALS)</li> </ul> (ends 5:30)	<b>APXPS Data Analysis</b> <ul style="list-style-type: none"> <li>Lena Trotochaud (Duke)</li> </ul>	(Morning only tutorial)	<b>Materials &amp; Applications</b> <ul style="list-style-type: none"> <li>Seung Sae Hong (Stanford)</li> <li>Gong Chen (UC Davis)</li> <li>Elke Arenholz, Hans Bechtel, Aaron Bostwick (ALS)</li> </ul> (ends 4:45)	<b>Hands-on Practical Tutorial</b> <ul style="list-style-type: none"> <li>Practical session with mentors</li> </ul>	(Early-ending tutorial; no session)	(Early-ending workshop; no session)

**Berkeley Lab Site Map**

