

SCHEDULE AT A GLANCE

MONDAY MAY 7, 2018 Vendor Exhibits Available All Day

OPENING SESSION (BUILDING 402, APS LECTURE HALL)

7:30	Registration Open
7:30	Welcome Coffee
8:30 – 8:35	Amy Clarke, Chair, APS Users Organization and Zhili Xiao, CNM Users Executive Committee, Welcome and Launch of the 2018 Meeting
8:35 – 8:45	Paul K. Kearns, Argonne Laboratory Director, Welcome from the Laboratory
8:45 – 9:10	Harriet Kung, Associate Director of Science (US Department of Energy, Basic Energy Sciences), The DOE Perspective
9:10 – 9:25	Jodi Muckelbauer (Bristol-Myers Squibb) Member of the Board of Directors for the Society for Science at User Research Facilities (SSURF), Update on the Society for Science at User Research Facilities
9:25 – 9:30	Stephen Streiffer, APS Director, Introduction of Keynote Speaker
9:30 – 10:10	Keynote Speaker: Harald Reichert (European Synchrotron Radiation Facility), Science at the ESRF: Results and Future Challenges
10:10 – 10:35	Break
10:35 – 10:50	Stephen Streiffer, APS Director, APS Update
10:50 – 11:05	Supratik Guha, CNM Director, CNM Update
11:05 – 11:20	Jim Kerby, APS Upgrade Project Manager, APS Upgrade Update
11:20 – 11:25	Amy Clarke, Chair, APS Users Organization and Zhili Xiao, CNM Users Executive Committee, Introduction of the Speed Science Slam
11:25 – 12:00	Speed Science Slam S ³
12:00 – 1:30	Lunch (in the Tent)

PARALLEL PLENARY SESSIONS

APS Session Building 402, Lecture Hall	CNM Session Building 402, Room A1100
1:30 – 1:50 Glenn Decker	1:30 – 2:15 Dmitri Basov
1:50 – 2:30 Rosalind Franklin Young Investigator Award: Joshua Riback	2:15 – 3:00 Manos Mavrikakis and Paul A. Elfers
2:30 – 3:05 Stephan Hruszkewycz	3:00 – 3:20 Break
3:05 – 3:25 Break	3:20 – 3:30 James Rondinelli
3:25 – 4:00 Eva Dyer	3:30 – 4:00 Bozhi Tian
4:00 – 4:05 Presentation of the Gopal K. Shenoy Excellence in Beamline Science Award: Hua Zhou	4:00 – 4:30 Qing Hua Wang
4:05 – 4:25 Invited Student Talk: Ryan Poling-Skutvik	4:30 – 4:45 Invited Student Talk: Alexandra Brumberg
4:25 – 5:00 S.-H. Dan Shim	4:45 Adjourn
5:00 Adjourn	
6:15–9:00 Social Event	

TUESDAY MAY 8, 2018 Vendor Exhibits Available All Day

7:30	Welcome Coffee
8:00	Registration Open
12:00 – 2:00	Poster Setup
12:00 – 1:30	Lunch (in the Tent)
12:00 – 1:30	APSUO Steering Committee/APS Partner User Council Meeting
5:30 – 8:00	Poster Session (Building 240 TCS – Shuttle service available)

POSTER SESSION SETUP WILL TAKE PLACE ON TUESDAY, MAY 9. FOR POSTER SETUP, SHUTTLE BUSES AND VANS WILL RUN FROM NOON TO 2:00 P.M. BETWEEN THE APS, THE GUEST HOUSE, AND THE TCS, BUILDING 240.

TUESDAY MAY 8, 2018 Vendor Exhibits Available All Day

PARALLEL FACILITY-SPECIFIC WORKSHOPS
APS WK2: Workshop on Past, Present, and Future of Insertion Devices at the APS: A Tribute to Efim Gluskin, Emil Trakhtenberg, and Isaac Vasserman
(Building 401, Room A1100)

8:30 – 8:50	Stephen Streiffer and Dennis Mills Welcome Remarks
8:50 – 9:00	David Moncton
9:00 – 9:30	Herman Winick
9:30 – 10:00	Joachim Pflüger
10:00 – 10:30	Kwang-je Kim
10:30 – 10:45	Break
10:45 – 11:15	John Galayda
11:15 – 11:45	Toshiya Tanabe
11:45 – 12:15	Nikolay Vinokurov
12:15 – 1:30	Lunch (in the Tent)
1:30 – 2:00	Tetsuya Ishikawa
2:00 – 2:30	Johannes Bahrtd
2:30 – 3:00	Shigemi Sasaki
3:00 – 3:15	Break
3:15 – 3:45	Yury Ivanyushenkov
3:45 – 4:15	Emil Trakhtenberg
4:15 – 4:45	Efim Gluskin
4:45 – 5:00	Closing Remarks

CNM WK3: Next-generation Quantum Systems Based on Topological Phases and Integrated Quantum Photonics
(Building 401, Room A5000)

8:30 – 9:15	Arka Majumdar
9:15 – 10:00	Edo Waks
10:00 – 10:30	Break
10:30 – 11:15	Michael Manfra
11:15 – 12:00	Lu Li
12:00 – 1:30	Lunch (in the Tent)
1:30 – 2:15	Koray Aydin
2:15 – 3:00	Han Htoon
3:00 – 3:30	Break
3:30 – 4:15	Weida Wu
4:15 – 5:00	Ulrich Welp

APS WK4: Frontiers of Materials Research with Single-crystal Total Scattering
(Building 402, Room E1100/1200)

9:00 – 9:15	Stephan Rosenkranz and Doug Robinson Introduction
9:15 – 9:45	Richard Welberry
9:45 – 10:15	Thomas Weber
10:15 – 10:45	Break
10:45 – 11:15	Branton Campbell
11:15 – 11:40	Jacob Ruff
11:40 – 12:05	Ray Osborn
12:05 – 1:30	Lunch (in the Tent)

1:30 – 2:00	Marek Pasciak
2:00 – 2:30	Bruce Gaulin
2:30 – 3:00	Alan I. Goldman
3:00 – 3:30	Break
3:30 – 4:00	Olivier Delaire
4:00 – 4:30	Matt Krogstad
4:30 – 5:00	Doug Robinson
5:00 – 5:30	General Discussion
5:30	Adjourn

APS/CNM WK5: *In situ* Rheology, SAXS, and XPCS for the Study of Soft Matter
(Building 446 APCF Conference Room)

9:15 – 9:30	Alec Sandy and Suresh Narayanan Opening Remarks
9:30 – 10:00	Ronald Larson
10:00 – 10:30	Xiao-Min Lin
10:30 – 10:45	Break
10:45 – 11:15	James Harden
11:15 – 11:45	James Swan
11:45 – 12:15	Matthew Helgeson
12:15 – 1:30	Lunch (in the Tent)
1:30 – 2:00	Simon Rogers
2:00 – 2:30	Chris Sorensen
2:30 – 2:45	Break
2:45 – 3:15	Jacinta Conrad
3:15 – 3:45	Subramanian Ramakrishnan
3:45 – 4:15	Xiang Cheng
4:15 – 4:20	Closing Remarks
4:20	Adjourn

CNM WK6: Tribology of 2D Materials: From Nanoscale to Macroscale
(Building 440, Room A105/106)

8:50 – 9:00	Anirudha V. Sumant
9:00 – 9:30	James Batteas
9:30 – 10:00	Graham Cross
10:00 – 10:30	Break
10:30 – 11:00	Horacio Espinosa
11:00 – 11:30	Izabela Szlufarska
11:30 – 12:00	Srilok Srinivasan
12:00 – 1:30	Lunch (in the Tent)
1:45 – 2:15	Jiaxing Huang
2:15 – 2:45	Elena Polyakova
2:45 – 3:05	Kalyan Mutyala
3:05 – 3:30	Break
3:30 – 4:00	Subramanian Sankaranarayanan
4:00 – 4:30	Diana Berman
4:30	Ali Erdemir
Optional: Tour to show multifunctional tribometer facility at CNM	

WEDNESDAY MAY 9, 2018 Vendor Exhibits Available through Lunch

7:30	Welcome Coffee
8:00	Registration Open

PARALLEL FACILITY-SPECIFIC WORKSHOPS

APS WK1: Resolution@speed: Advanced X-ray Spectroscopies with Upgraded APS (APS_U)
(Building 402, Room E1100/1200)

8:25 – 8:30	Assemble
8:30 – 9:00	Steve Heald
9:00 – 9:30	Gilles Doumy
9:30 – 10:00	Yang Ding
10:00 – 10:30	Break
10:30 – 11:00	Robert Gordon
11:00 – 11:30	Yves Joly
11:30 – 12:00	Amy Cordones-Hahn

APS WK7: High-resolution 3D X-ray Imaging
(Building 401, Room A1100)

8:30 – 8:40	Opening Remarks
8:40 – 9:10	Evgeny Nazaretski
9:10 – 9:40	Jan Garrevoet
9:40 – 10:00	Nestor Zaluzec
10:00 – 10:30	Break
10:30 – 11:00	Yuan-Hung (Mike) Lo
11:00 – 11:30	Mingyuan Ge
11:30 – 12:00	Ke Yuan
12:00 – 1:30	Lunch (in the Tent)
1:30 – 2:00	Young-Sang Yu
2:00 – 2:30	Peng Li
2:30 – 3:00	Stefano Marchesini (Advance Light Source)
3:00 – 3:30	Break
3:30 – 4:00	Junjing Deng
4:00 – 4:30	Vincent de Andrade
4:30	David Vine

APS/CNM WK8: Tipping X-ray – Comprehensive Nanoscale Characterization with Multimodal X-ray Imaging
(Building 401, Room A5000)

9:00 – 9:15	Haidan Wen and Volker Rose Welcome and Workshop Charge
9:15 – 9:20	Jonathan Lang and Stefan Vogt
9:20 – 9:40	Qian Li
9:40 – 10:00	Nozomi Shirato
10:00 – 10:30	Break
10:30 – 11:00	Jeremy Levy
11:00 – 11:30	Sergei Kalinin
11:30 – 12:00	Mengkun Liu
12:05 – 1:30	Lunch (in the Tent)

1:30 – 2:00	Tyler Cocker
2:00 – 2:30	Woei Wu Larry Pai
2:30 – 3:00	TeYu Chien
3:00 – 3:30	Break
3:30 – 4:00	Didier Tonneau
4:00 – 4:30	Eli Rotenberg
4:30 – 5:30	Panel Discussion

CNM WK9: Nanoscience for Quantum Science: Developing, Characterizing, and Harnessing Optically Active Defects
(Building 440 APCF, Room A105/106)

8:30 – 8:40	Introductory Remarks
8:40 – 9:30	David Awschalom
9:30 – 10:10	Alec Jenkins
10:10 – 10:40	Break
10:40 – 11:20	Cyrus Dreyer
11:20 – 12:00	Giulia Galli
12:00 – 1:40	Lunch
1:40 – 2:20	Jay Gupta
2:20 – 3:00	Greg Fuchs
3:00 – 3:30	Break
3:30 – 4:10	Ajit Srivastava
4:10 – 4:50	Tian Zhong
4:50 – 5:00	Closing Remarks

APS WK10: Applications of Synchrotron X-ray Techniques for Studying Metal Additive Manufacturing
(Building 446, Advanced Protein Characterization Facility Conference Room)

8:30 – 8:40	Tao Sun, Welcome and Introduction
8:40 – 9:00	Aaron Greco
9:00 – 9:30	John Barnes
9:30 – 10:00	Lianyi Chen
10:00 – 10:30	Break
10:30 – 11:00	Jian Cao
11:00 – 11:30	Christopher Tassone
11:30 – 12:00	Hahn Choo
12:00 – 1:30	Lunch (in the Tent)
1:30 – 2:00	Uta Ruett
2:00 – 2:30	Lyle Levine
2:30 – 3:00	Xin Sun
3:00 – 3:30	Break
3:30 – 4:00	Don Brown
4:00 – 4:30	Paul Shade
4:30 – 5:00	General Discussion

THURSDAY MAY 10, 2018**CNM SHORT COURSE (NOTE: FEE OF \$40 IN ADDITION TO MEETING REGISTRATION FEE; PRE-REGISTRATION REQUIRED.)**

9:00 – 12:00 **Using the Hard X-ray Nanoprobe** (*Sector 26*)
Instructor: Martin Holt (CNM)

SATELLITE WORKSHOP (NOTE: PRE-REGISTRATION REQUIRED.)

8:30 – 5:00 **WKS: User Workshop for Micromanipulator Use in Diamond Anvil Cell Loading and Other Applications** (*Building 401, Room A1100*)
Organizers: Steven M. Barnett (Barnett Technical Services) Ross Hrubyak and Vitali Prakapenka (APS/ANL)

SATELLITE COURSE—MAY 10 – 11, 2018**(NOTE: FEE OF \$35 IN ADDITION TO MEETING REGISTRATION FEE; PRE-REGISTRATION REQUIRED.)**

9:00 – 4:30 **SAXS Software Course Irena and Nika** (*Building 402, Room E1100/1200*)
Daily Instructor: Jan Ilavsky (XSD)

NEED A COFFEE BREAK? PLEASE BE SURE TO VISIT THE EXHIBITORS IN EACH AREA!

Gallery on the lower level

Atrium

Behind APS Lecture Hall