

2024 APS/CNM Users Meeting Schedule at a Glance

Plenary and Workshops Locations Listed at Bottom

Monday, May 6, 2024

7:30	Registration Open (Atrium Lobby)
7:30	Welcome Coffee Event (Atrium)
8:00-5:00	Exhibits (Atrium & Lower Level Gallery)

Combined APS & CNM Plenary Session

8:30-8:35	Mingda Li, Vice-chair, APS Users' Executive Committee (Massachusetts Institute of Technology) Welcome and Launch of the 2024 APS/CNM Users Meeting
8:35-8:45	Paul K. Kearns, Laboratory Director (Argonne National Laboratory) Welcome from the Laboratory
8:45-8:50	Laurent Chapon, Associate Laboratory Director, Photon Sciences (Advanced Photon Source, Argonne National Laboratory) Introduction of DOE Speaker Linda Horton
8:50-9:15	Linda Horton (Basic Energy Sciences, Department of Energy) The DOE Perspective
9:15-9:20	Ilke Arslan, Division Director (Center for Nanoscale Materials and the Nanoscience and Technology Division, Argonne National Laboratory) Introduction of Keynote Speaker Jessica Wade
9:20-10:10	Keynote Address: Jessica Wade (Imperial College London) Chiral Materials and Changing Research Culture
10:10-10:35	Break (Atrium)
10:35-10:55	Laurent Chapon, Associate Laboratory Director, Photon Sciences (Advanced Photon Source, Argonne National Laboratory) APS Update
10:55-11:15	Ilke Arslan, Division Director (Center for Nanoscale Materials and the Nanoscience and Technology Division, Argonne National Laboratory) CNM Update
11:30-1:30	Lunch at Argonne Guest House (Shuttle available)

APS Plenary Session

1:15-1:20	Mingda Li, Vice-chair, APS Users' Executive Committee (Massachusetts Institute of Technology) Welcome and Announcement of the 2024 Gopal K. Shenoy Excellence in Beamline Science Award Winner: Denis T. Keane (DND-CAT, Northwestern University)
1:20-2:00	Yuting Luo (Johns Hopkins University) 2024 Rosalind Franklin Young Investigator Award Recipient Bridging Atomistic, Mesoscale, and System Perspectives in the Design of V2O5 Cathodes for Li-ion Batteries
2:00-2:40	Grigorii Skorupskii (Princeton University) Designing Complex Electronic and Magnetic Orders
2:40-3:20	Randall Meyer (ExxonMobil Research and Engineering Company) X-ray Absorption Spectroscopy Studies for Early-stage Industrial Catalysis Research
3:20-3:35	Break (Lower Level Gallery)
3:35-4:15	Vasilije Dobrosavljevic (Carnegie Institution for Science) Probing Melting in Deep Planetary Interiors with Multi-technique Synchrotron Methods
4:15-5:00	Jim Kerby and Jonathan Lang (Argonne National Laboratory) APS Upgrade Q&A
5:30	Banquet bus transportation loads in front of APS and Guest House
6:00	Banquet Dinner (Monte Bello Estate)

Tuesday, May 7, 2024 Shuttle available for Lunch and WK#3

8:00	Registration (Atrium lobby)
7:30	Coffee/Tea (Lower Level Gallery)
8:00-5:00	Exhibits (Atrium & Lower Level Gallery)
5:30-8:00	Poster Session (Bldg. 201, shuttle available)

CNM Plenary Session

10:00-10:10	Nihar Pradhan, CNM User Executive Committee Vice-Chair (Jackson State University) Welcome Remarks and UEC Update
10:10-11:00	E. Charles H. Sykes (Tufts University) CNM Keynote Address
11:00-11:30	Teri Odom (Northwestern University) Exciton-polariton Dynamics in Strongly Coupled Plasmonic Lattices
11:30-12:00	Danielle Chamberlin (NanoPattern Technologies) Thin Film Photo-patternable Quantum Dot Downconverters

Joint APS/CNM WK 1: Advancing Data Analysis for XRD/XCT in Post-APS-U: FAIR, Automated Analysis Pipelines and Graph Deep Learning		APS WK 8: Quantum Solids under a Dark-field X-ray Microscope: A Journey from Imagination to Discovery at APS-U	
1:30-1:40	D. Travis Carter	8:00-8:05	Introduction and welcome
1:40-2:00	Daniela Ushizima	8:05-8:10	Introduction by Chair
2:00-2:20	Roger French	8:10-8:40	Zhan Zhang
2:20-2:40	Pawan Tripathi	8:40-9:10	Peter Kenesei
2:40-3:00	Hemant Sharma	9:10-9:40	Daniel Gianola
3:00-3:10	Break (Atrium)	9:40-9:55	Break (Lower Level Gallery)
3:10-3:30	Reeju Pokharel	Session II: Quantum Solids under a Dark-field X-ray Microscope	
3:30-3:50	Rafael Vescovi		
3:50-4:10	Brian Toby	9:55-10:00	Introduction by Chair
4:10-4:30	Dan Savage	10:00-10:30	Jayden Plumb
4:30-4:50	Jana B. Thayer	10:30-11:00	Kaan Alp Yay
4:50-5:00	Conclusion and Closing Remarks	Session III: Discussion	
APS WK 3: Operando Synchrotron Experiments on Advanced Manufacturing Processes		11:00-11:30	Discussion: Potential First Experiments
		11:30-1:30	Lunch (Argonne Guest House)
8:00-8:30	Organizers Introduction	Session IV: Functional Devices	
8:30-9:00	Steven Van Petegem	1:30-1:35	Introduction by Chair
9:00-9:30	Nicholas Calta	1:35-2:05	Elliot Kiesel
9:30-10:00	Break (Bldg. 446)	2:05-2:35	Pavel Salev
10:00-10:30	Anthony Rollett	2:35-2:50	Break (Atrium)
10:30-11:00	Amy Clarke	Session V: Novel Development and Directions	
11:00-11:30	Xuan Zhang	2:50-2:55	Introduction by Chair
11:30-1:30	Lunch (Argonne Guest House)	2:55-3:25	Mads Carlsen
1:30-2:00	Ho Yeung	3:25-3:55	Doga Gursoy
2:00-2:30	Lianyi Chen	3:55-4:25	Takashi Kimura
2:30-3:00	Nathan Crane	Session VI: Discussion and Wrap-up	
3:00-3:15	Break (Bldg. 446)	4:25-5:00	Discussion: Potential First Experiments
3:15-3:45	Atieh Moridi		
3:45-4:15	Xun Liu		
4:15-4:45	Frank Pfefferkorn		
4:45-5:00	Group Discussion		

Wednesday, May 8, 2024 Shuttle available for Lunch and WK#2

8:00-2:00 Registration (Atrium lobby)
 7:30 Coffee/Tea (Atrium)
 8:00-1:30 Exhibits (Atrium & Lower Level Gallery)

Joint APS/CNM WK 2: Advanced Characterizations for Critical Materials Innovation and Sustainability		APS WK 7: Ultra-small, Ultra-powerful: APS-U-USAXS' Role in Advancing Materials and Manufacturing	
1:30-1:40	Opening Remarks	8:00-8:05	Opening Remarks
1:40-2:10	Peter Sushko	8:05-8:30	Jan Ilavsky
2:10-2:40	Linsey Seitz	8:30-8:55	Andrew Allen
2:40-3:10	Pietro Papa Lopes	8:55-9:20	Trevor Willey
3:10-3:30	Break (Bldg. 446)	9:20-9:45	Lilo Pozzo
3:30-4:00	Mark Schlossman	9:45-9:55	Break (Atrium)
4:00-4:30	Benjamin Doughty	9:55-10:20	Lawrence Anovitz
4:30-5:00	Michael Servis	10:20-10:45	Greg Beaucage
		10:45-11:30	Panel Discussion

APS WK 6: Elucidating 3D Microstructures through Diffraction-based Imaging and Simulations		APS WK 9: Using Synchrotron Light to Probe Earth and Environmental Systems (EES)	
8:15-8:30	Jun-Sang Park	8:00-8:05	Opening Remarks
8:30-9:00	Hemant Sharma	Session I: Instrumental/eBERlight/FICUS	
9:00-9:30	Weijan Zheng	8:05-8:20	Zou Finfrock
9:30-9:50	Break (Atrium)	8:20-8:50	Tamas Varga
9:50-10:20	Stephan Hruszkewycz	8:50-9:10	Joanne Stubbs
10:20-10:50	Laura Vietz	9:10-9:30	Andrei Smertenko
10:50-11:20	Wenxi Li	9:30-10:00	Break (Atrium)
11:20-1:30	Lunch (Argonne Guest House)	Session II: Earth and Environmental Science (Soil, Biogeochemistry, Atmospheric)	
1:30-2:00	Darren Pagan	10:00-10:30	Alexandra Kravchenko
2:00-3:00	Matthew Kasemer	10:30-10:50	Sharon Bone
3:00-3:20	Break (Atrium)	10:50-11:10	Viktor Nikitin
3:20-4:20	Michael Sangid, Krzysztof Stopka, and Kyle Jung	11:10-11:30	Lucie Stetten
4:20-4:50	Ryan Hurley	11:30-1:30	Lunch (Argonne Guest House)
4:50-5:20	Marm Dixit	Session III: Plant and Rhizosphere Science	
5:20-5:30	Break	1:30-2:00	Joseph Jakes
5:30-6:00	Darren Pagan	2:00-2:20	Gyorgy Babnigg
		2:20-2:40	Gosia Korbas
		2:40-3:00	Tom Regier
		3:00-3:30	Break (Atrium)
		Session IV: Data Processing, Integration, and Automation	
		3:30-3:50	Arthur Glowacki
		3:50-4:10	Neil Getty
		4:10-4:30	Maksim Yakovlev
		4:30-5:00	Round Table Discussion

Thursday, May 9, 2024 Shuttle available for Lunch

8:00-2:00 Registration (Atrium lobby)

7:30 Coffee/Tea (Atrium)

Joint APS/CNM WK 2: Advanced Characterizations for Critical Materials Innovation and Sustainability		APS WK 10: Advanced X-ray Capabilities for High-pressure Research	
1:30-2:00	Chong Liu	1:30-1:35	Opening Remarks
2:00-2:30	Xiao Su	1:35-2:05	Guoyin Shen
2:30-3:00	Albert Lipson	2:05-2:35	Maddury Somayazulu
3:00-3:20	Break (Bldg. 446)	2:35-2:50	Break (Atrium)
3:20-3:50	Eva Allen	2:50-3:20	Vitali Prakapenka
3:50-4:20	Linqin Mu	3:20-3:50	Paulo Rigg
4:20-4:30	Closing Remarks	3:50-4:20	Jiyong Zhao
		4:20-4:40	Open Discussion

APS WK 5: Integrating Nanofabrication with Next Generation X-ray Techniques to Probe and Control Novel Phenomena		APS WK 11: APS-U-enabled Advanced Tools for Structural Biology: Advancing Enzymatic Catalysis and Drug Discovery through Synchrotron Serial Crystallography	
8:30-8:40	Gilberto Fabbris	8:30-8:40	Opening Remarks
8:40-9:05	David Czaplewski	8:40-9:15	Alke Meents
9:05-9:30	Alexander High	9:15-9:50	Simon Vecchioni
9:30-9:55	Stephan Hruszkewycz	9:50-10:40	Break (Atrium) & Beamline Posters
9:55-10:10	Preetha Sarkar	10:40-11:15	John Rose
10:10-10:30	Break (Atrium)	11:15-11:50	Zhong Ren
10:30-10:55	Claire Zurkowski	11:50-1:30	Lunch (Argonne Guest House)
10:55-11:20	Pedro Lozano	1:30-2:05	Vadim Cherezov
11:20-11:45	James Walsh	2:05-2:40	Kara Zeilinski
11:45-12:00	Eduardo Poldi	2:40-3:10	Break (Atrium) & Beamline Posters
		3:10-3:45	Marius Schmidt
		3:45-4:20	Meng Yuan
		4:20-4:55	Rebecca Jernigan
		4:55-5:00	Final Remarks

Friday, May 10, 2024

8:30-12:00 Workshops

7:30 Coffee/Tea (Atrium)

APS WK 4: The Future of Full-field 3D Imaging at APS-U: A Multiscale and Multimodal Approach		APS WK 10: Advanced X-ray Capabilities for High-pressure Research	
8:30-8:50	Alberto Mittone	8:55-9:00	Opening Remarks
8:50-9:10	Viktor Nikitin	9:00-9:30	Wonsuk Cha
9:10-9:35	Aaron Kuan	9:30-10:00	Felix Lehmkuhler
9:35-10:00	Nathan Bechle	10:00-10:30	Hemant Sharma
10:00-10:20	Break (Atrium)	10:30-10:45	Break (Atrium)
10:20-10:45	Jake Socha	10:45-11:15	Daniel Haskel
10:45-11:10	Tim Fister	11:15-11:45	Naoki Ishimatsu
11:10-11:35	Nikhilesh Chawla	11:45-12:15	Xiaoyi Zhang
11:35-12:00	Christopher Powell	12:15-12:30	Open Discussion and Conclusion

APS WK 5: Integrating Nanofabrication with Next Generation X-ray Techniques to Probe and Control Novel Phenomena

8:30-8:55	Zachary Geballe
8:55-9:20	Luiz Pimenta Martins
9:20-9:45	Stanley Tozer
9:45-10:00	Zackary Rehfuss
10:00-10:30	Break (Atrium)
10:30-10:55	Jeffrey S. Pigott
10:55-11:20	Shua Sanchez
11:20-11:45	Jiarui Li
11:45-12:00	Discussion and Closeout

SESSION

Combined Plenary Session

APS Plenary Session

CNM Plenary Session

Joint APS/CNM WK #1

Joint APS/CNM WK#2

APS WK#3

APS WK#4

APS WK#5

APS WK#6

APS WK#7

APS WK#8

APS WK#9

APS WK#10

APS WK#11

LOCATION

Bldg. 402 Lecture Hall

Bldg. 402 Lecture Hall

Bldg. 402 Lecture Hall

Bldg. 402 Lecture Hall

Bldg. 446, APCF Conference Room

Bldg. 446, APCF Conference Room

Bldg. 401, Rm. A1100

Bldg. 402 Lecture Hall

Bldg. 402 Lecture Hall

Bldg. 401, Rm. A1100

Bldg. 401, Rm. A1100

Bldg. 402, Rm. E1100/1200

Bldg. 402, Rm. E1100/1200

Bldg. 401, Rm. A1100