

US-Japan workshop

Mirai base, 3-7-25, Eki-higashi, Funaishikawa Tokai, Naka, Ibaraki 319-1106, Japan

Time	Event	Speaker
Wednesday, 06/24/2026		
Morning session chair: Adam Aczel		
9:00 – 9:10am	Welcome	Ryuhei Motokawa (JAEA)
9:10 – 9:20am	Introduction to the US-Japan collaboration	Taka Masuda (ISSP)
9:20 – 9:40am	The neutron scattering group at BNL	John Tranquada (BNL)
9:40 - 10:00am	Neutron scattering at ORNL	Mark Lumsden (ORNL)
10:00 – 10:15am	JRR-3 Overview - JAEA	Toyotaka Osakabe (JAEA)
10:15 – 10:25am	JRR-3 Overview - ISSP	Taku Sato (ISSP)
10:25 – 10:50am	Break and Group Photo	All
10:45 – 10:55am	JRR-3 future plan	Koji Kaneko (JAEA)
10:55 – 11:15am	New SANS at JRR-3	Takayuki Kumada (JAEA)
11:15 - 11:35am	Upgrade plan for INSE	Tatsuro Oda (ISSP)
11:35 – 11:55pm	Soft matter neutron science at ORNL	Gergely Nagy (ORNL)
11:55 – 1:15 pm	Working Lunch – Discussion on the recent development in soft matter	All - TBD
Afternoon session 1 chair: Takayuki Kumada		

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1:15 – 1:35pm	Contribution of SANS-J to the development of metal separation processes	Cyril Micheau (JAEA)
1:35 – 1:55pm	Mathematical design of contrast variation neutron scattering for multi-component materials	Koichi Mayumi (ISSP)
1:55 – 2:15pm	Biological science using neutrons at ORNL	Venky Pingali (ORNL)
2:15 – 2:35pm	Neutron biology @ KURNS	Ken Morishima (Kyoto U.)
2:35 – 2:55pm	Diffractionmeter for Residual Stress HIDRA	Jeff Bunn (ORNL)
2:55 – 3:15pm	Diffractionmeter for Residual Stress RESA	Yuki Shibayama (JAEA)
3:15 – 3:35pm	Coffee Break	All
Afternoon session 2 chair: Takatsugu Masuda		
3:35 – 3:55pm	Neutron Imaging @ ORNL	James Torres (ORNL)
3:55 – 4:15pm	Neutron Imaging @ JRR-3	Isao Harayama (JAEA)
4:15 – 4:35pm	Development of a CdTe-based prompt gamma-ray imaging system at JRR-3	I-Huan Chiu (JAEA)
4:35 – 4:55pm	Pressure cell developments @ ORNL	Dilip Bhoi (ORNL)
4:55 – 5:15pm	Development of New Pressure Cell for Inelastic Neutron Scattering at J-PARC MLF	Shohei Hayashida (CROSS)
5:15 – 6:00pm	Poster session on neutron scattering techniques and Working Dinner	All

Time	Event	Speaker
Thursday, 06/25/2026		
Morning session chair: Masa Matsuda		
9:00 – 9:20am	Triple axis spectroscopy at ORNL	Adam Aczel (ORNL)
9:20 – 9:40am	HODACA	Taka Masuda (ISSP)
9:40 – 10:00am	MANTA	Hodaka Kikuchi (ORNL)
10:00 – 10:20am	Monochromator development strategy	Eleanor Clements (ORNL)
10:20 – 10:35am	Monochromator development strategy	Koji Kaneko (JAEA)
10:35 – 10:50am	Break	All
Morning session chair2: Eleanor Clements		
10:50 – 11:10am	Polarized Neutron Scattering on HB-1	Masa Matsuda (ORNL)
11:10 – 11:30am	Polarized Neutron Scattering Developments on PONTA	Shingo Takahashi (ISSP)
11:30 – 11:50am	Polarized Neutron Scattering on TAS-1	Chihiro Tabata (JAEA)
11:50 – 12:10pm	Polarized Neutrons at MLF	Shunsuke Takada (J-PARC/JAEA)
12:10 – 1:30pm	Working Lunch: Developments for Spallation sources	All - TBD
Afternoon session 1 chair: Koji Kaneko		
1:30 – 1:50pm	Single Crystal diffraction at ORNL	Zach Morgan (ORNL)

Time	Event	Speaker
Thursday, 06/25/2026		
1:50 – 2:10pm	Single Crystal diffraction	Ryoji Kiyanagi (J-PARC JAEA)
2:10 – 2:30pm	Genesis Mission and Current Activities in Neutron Scattering	Mark Lumsden (ORNL)
2:30 – 3:00pm	Break	All
3:00 – 3:20pm	Advancing Neutron Reflectometry through Modern Data Science	Hiroyuki Aoki (J-PARC/JAEA)
3:20 – 3:40pm	Using AI to extract diffuse scattering data	Zach Morgan (ORNL)
3:40 – 4:00pm	Denoising on 3D neutron Bragg edge imaging data	Kazuyoshi Tatsumi (J-PARC/JAEA)
4:00 – 4:50pm	Goals for implementing AI in the neutron scattering workflow	All – Group discussion
4:50 – 5:00pm	Closing	

Wednesday 06/24/2026 Poster session

Poster #	Name	Affiliation	Title
1	Sho Tokunaga	JAEA	Upgrading the Moderator Cell for the JRR-3 Cold Neutron Source
2	Yuki SHIBAYAMA	JAEA	Diffraction for residual stress analysis
3	Takuro Kawasaki	J-PARC, JAEA	TAKUMI: Engineering Materials Diffraction
4	Stefanus Harjo	J-PARC, JAEA	Mechanism of Strength and Ductility Enhancement in Stainless Steel Induced by Hydrogen
5	Isao Harayama	MSRC, JAEA	Neutron imaging @JRR-3
6	Yoshichika Seki	Tohoku University	Recent developments in neutron phase imaging at KUR/CN-3 and JRR-3/MINE
7	Koichi Mayumi	ISSP, The University of Tokyo	Recent progress of SANS-U
8	Katsuaki Kodama	MSRC, JAEA	High Resolution Powder Diffraction HRPD
9	Shusuke Takada	J-PARC, JAEA	Recent Advancements and Operational Applications of ³ He Spin Filters at MLF Beamlines
10	Yusuke Hirose	MSRC, JAEA	Neutron diffraction experiment in rare-earth-metal compounds at TAS-1 and TAS-2
11	Koji Kaneko	MSRC, JAEA	Sample environment at JRR-3/JAEA
12	Hiraku Saito	ISSP, The University of Tokyo	Structural Analysis of Field-Induced Phases of an Antiferromagnet without Local Inversion Symmetry CeMnSi
13	Ryota Ono	ASRC, JAEA	Trigonal field engineering of spin supersolids in triangular-lattice cobaltates