OAK RIDGE National Laboratory

AGENDA

MANAGED BY UT-BATTELLE LLC FOR THE US DEPARTMENT OF ENERGY

Agenda as of 09/17/2022

Event contact	Matthias Frontzek, 865-333-2613 (mobile); frontzekmd@ornl.gov		
Time	**Event**	**Speaker**	
Monday, 09/19/2022, Bldg. 8600 Room C-156			
9:00 – 9:30am	Badging	Matthias Frontzek and Taka Masuda	
9:30 – 9:45am	Welcome	Hans Christen – Neutron Scattering Division Director	
9:45 – 9:55am	Welcome	Osamu Yamamuro – Neutron Science Laboratory Director	
9:55 – 10:00am	Welcome and charge	Matthias Frontzek and Taka Masuda	
10:00 – 10:30am	Hard Matter Plenary	Taro Nakajima - (ISSP)	
10:30 – 11:00am	Coffee Break		
11:00 – 11:30am	Hard Matter Plenary	Raphael Hermann – “Neutron scattering in the Foundational Materials Science Section” (ORNL)	
11:30 – 12:00pm	Hard Matter Plenary	Taku Sato - (ISSP)	
12:00 – 1:00pm	Lunch	Q&A on morning plenaries - Matthias Frontzek and Taka Masuda	
1:00 – 1:30pm	Hard Matter Plenary	Igor Zaliznyak “hard condensed matter science using multiplexed detectors and polarization analysis” - (BNL)	
1:30 – 4:00pm	Breakout sessions	Hard matter Focused session C-152	Soft matter Focused session C-156

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Time	**Event**	**Speaker**
Monday, 09/19/2022, Bldg. 8600 Room C-156		
4:00 – 5:00pm	SNS Tour	
5:00 – 7:00 pm	Working Dinner + Poster Session	Developments and Results - Matthias Frontzek and Taka Masuda
7:00 pm	Depart for hotel	

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Event contact	Matthias Frontzek, 865-333-2613 (mobile); frontzekmd@ornl.gov	
Time	**Event**	**Speaker**
Tuesday, 09/20/2022, Bldg. 8600 Room C-156		
9:00 – 9:15am	Program of the day	Matthias Frontzek and Taka Masuda
9:15 – 9:45am	Soft Matter Plenary	Masaaki Sugiyama “Biosoft Matter” - (Kyoto University)
9:45 – 10:15am	Soft Matter Plenary	Changwoo Do “Energy and soft materials research using SANS” - (ORNL)
10:15 – 10:45am	Coffee Break	
10:45 – 11:15am	Soft Matter Plenary	Piotr Zolnierczuk “soft matter dynamics” - (ORNL)
11:15 – 11:45am	Soft Matter Plenary	Koichi Mayumi - (ISSP)
11:45 – 12:00pm	Photo outside	
12:00 – 1:00pm	Lunch	Q&A of the morning plenaries - M. Frontzek and Taka Masuda
1:00 – 5:00pm	Breakout sessions	Focused session Instrumentation including software, sample environment, machine learning algorithms
5:00 pm	Depart for hotel	

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Event contact	Matthias Frontzek, 865-333-2613 (mobile); frontzekmd@ornl.gov			
Time	**Event**	**Speaker**		
Wednesday, 09/21/2022, Bldg. 7995 Room B302				
9:00 – 9:15am	Welcome and Charge	Matthias Frontzek and Taka Masuda		
9:15 – 9:45am	Instrumentation Plenary	Fankang Li (ORNL) – Development of Polarization Program at HFIR		
9:45 – 10:15am	Instrumentation Plenary	Takatsugu Masuda - (ISSP)		
10:15 – 10:45am	Coffee Break			
10:45 – 11:45am	HFIR Tour			
11:45 – 1:00pm	Lunch	Q&A of morning plenaries - Matthias Frontzek and Taka Masuda		
1:00 – 1:30pm	Instrumentation Plenary	Jon Taylor “Software development at ORNL” - (ORNL)		
1:30 – 2:00pm	Instrumentation Plenary	Kenji Nakajima “Future Instruments for Solid State Physics” -(JAEA)		
2:00 – 3:00pm	Breakout sessions Prepare of the Report	Hard matter Focused session 7962 Library	Soft matter Focused session 7918 Room 102	Instrumentation including software, sample environment, machine learning algorithms
3:00 – 4:45pm	Report of the Breakout sessions			
4:45 – 5:00 pm	Closing	Matthias Frontzek and Taka Masuda		

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Time	**Event**	**Speaker**
Wednesday, 09/21/2022, Bldg. 7995 Room B302		
5:00 pm	Depart for hotel	

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Agenda as of 09/13/2022

Focus Sessions Topics (5 to 10 mins overview talks)

Monday 1:30-4:00pm Parallel sessions Hard and Soft Condensed matter

Hard Condensed Matter (C-152) Chair: Gabriele Sala

1:30-2:45

- 4-circle diffractometer FONDER - Hiroyuki Kimura (Tohoku University)
- DEMAND upgrades and future developments – Huibo Cao (ORNL)
- SANS for hard matter - Hazuki Furukawa (Ochanomizu Univ. / RIKEN CEMS)
- STS CHESS – Gabriele Sala (ORNL)

2:45-3:00

Coffee break

3:00-4:00

- Educational use of neutron triple axis spectrometer - Kazuaki Iwasa (Ibaraki University)
- Teaching students TAS techniques using vTAS – Songxue Chi (ORNL)
- Development of pressure cell - Yoshiya Uwatoko (ISSP)

Soft Condensed Matter (C-156) Chair: Lilin He

1:30-2:45

- Soft Matter Sample environments for neutron scattering – Lilin He (ORNL)
- Understanding the arrangement of lipid/surfactant molecules in Bicelles using neutron scattering with contrast variation and deuteration – Wellington Leite (ORNL)
- The role of disordered protein in maintaining cellular structure – Viswanathan Gurumoorthy (ORNL)
- Utilize neutron imaging to study polymer compatibilization – Yuxuan Zhang (ORNL)

2:45-3:00

Coffee break

3:00-4:00

- Spin echo (Oda, instrumental scientist of iNSE)
- Application of machine learning for SANS data analysis - Wei-Ren Chen (ORNL)
- Deconvoluting hierarchical plant cell wall structure using X-rays and Neutrons – Manju S. Mudiyanselage (ORNL)
- SANS for soft matter - Rintaro Inoue (Kyoto University)
- STS Centaur – Shuo Qian (ORNL)

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Tuesday 1:30-5:00

Instrumentation Chair: Travis Williams

1:30-2:30

- Sample environment in PONTA - Taro Nakajima/ Hiraku Saito (ISSP)
- Double-focusing technology - Taku Sato (IMRAM Tohoku University)
- Implementation of the EPICS control system for GPTAS at JRR-3 – Taku Sato (IMRAM Tohoku University)
- AGNES at JRR-3 – Osamu Yamamuro (ISSP)

2:30-3:00

Coffee break

3:00-4:00

- The Latest Development in Spherical Neutron Polarimetry at ORNL – Jacob Tosada (ORNL)
- ^{3}He-polarizer program at HFIR – Chenyang Jiang (ORNL)
- Collaboration on Polarized Neutron Scattering (topic from US-Japan meeting)

4:00-4:15

Coffee break

4:15-5:00

- HFIR Beryllium Reflector Replacement (HBRR) project – Matthias Frontzek
- Sample environment developments, possibility for complimentary use (topic from US-Japan meeting)
- Spin echo (Oda, instrumental scientist of iNSE)