



First Asia-Oceania Neutron Scattering Association Symposium: Neutron Scattering Applications for Caloric Materials



Hosted by
Institute of Metal
Research Chinese
Academy of Science

Oct. 23 - 26, 2024

[https://aonsa2024.
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First Asia-Oceania Neutron Scattering Association Symposium: Neutron Scattering Applications for Caloric Materials

Oct.23-26,2024

Shenyang, China

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Timeline

- Oct. 23, check-in
- Oct. 24 – 25, scientific program and local tour
- Oct. 26, departure

Symposium site

Room 310, Kuo Ke-Hsin Building

Institute of Metal Research, Chinese Academy of Sciences

No.72 Wenhua Road Shenhe District, Shenyang 110016, P.R.China

Accommodation

- Swissotel Shenyang
No.109 Qingnian Street, Shenhe District, Shenyang,
Tel: +86-020-86007566
- Holiday Inn Express Shenyang Golden Corridor
No. 169-2A Qingnian Street, Shenhe District, Shenyang,
Tel: +86-024-31972000

Meals

- Oct. 23, dinner at 2F, Yulongxuan room, Swissotel, Shenyang
- Oct. 24, lunch at 3F, Dining hall IMR, banquet at 5F, Conrad

Hotels

- Oct. 25, lunch at 3F, Dining hall IMR, dinner at No.333 room of Hongyingtao Restaurant (Baogong Street)

Transportation

- Airport - Hotel: pick up and drop off by volunteers
- Hotel - Institute - Local tour: bus

Virtual meeting

<https://zoom.us/j/97036750444?pwd=BESiRmwpdfHmZ5y0MyFqHPkHjhZqJJ.1>

Zoom meeting ID: 970 3675 0444

Passcode: 209873

Oct. 24, Room 310, Kuo Ke-Hsin Building			
Time	Topic	Speaker	Chair
8:30—9:00	Opening Speech	Fangwei WANG	Bing Li
		Yukinobu Kawakita	
		Xingqiu Chen	
9:00—9:30	Current Status of MUSE and Scientific Highlights for Muon Science in J-PARC	Koichiro Shimomura	
9:30—10:00	Magnetocaloric/barocaloric effect: Materials and device	Fengxia Hu	
10:00—10:15	Coffee break and group photo		
10:15—10:45	Exploring entropic contributions using neutron scattering	Helen Claire Walker	Fengxia Hu
10:45—11:15	The operation status of the Multi-Physics Instrument	Wen Yin	
11:15—11:45	Large barocaloric effects in ferroelectric molecular plastic crystals	Pol Marcel Lloveras Muntane	
11:45—13:30	Lunch		
13:30—14:00	Current Status of MLF and Scientific Highlights for Neutron Science in J-PARC	Yukinobu Kawakita	Claudio Cazorla Silva
14:00—14:30	The application of total scattering + Reverse Monte Carlo methods to understand entropic materials	Martin Travis Dove	
14:30—15:00	Barocaloric Effects of Liquids	Peng Tong	
15:30—15:45	Coffee break		
15:45—16:15	PELICAN - A Decade of Successful Operation and Future Perspectives	Yu Dehong (zoom)	Peng Tong

16:15—16:45	Novel giant photocaloric effects in ferroelectric and two-dimensional materials	Claudio Cazorla Silva	
16:45—17:15	The 3d magnetism to rare-earth based magnetocaloric materials: Should the "minority" be considered?	Lingwei Li	
17:15—17:30	Microcalorimetry Approach to Barocaloric materials characterization	Hongyu Zeng	
17:30—20:30	Banquet		

Oct. 25, Room 310, Kuo Ke-Hsin Building			
Time	Topic	Speaker	Chair
8:30—9:00	Overview of Neutron Science at JRR-3	Kenjin Nakajima (zoom)	Helen Claire Walker
9:00—9:30	Developing Neutron Techniques at Extreme Conditions: The High-Pressure Neutron Diffractometer (HPND) at China Spallation Neutron Source	Liping Wang	
9:30—10:00	Study of elastocaloric and caloric thermal-energy-storage materials by neutron and synchrotron techniques	Daoyong Cong	
10:00—10:15	Coffee break		
10:15—10:45	Entropy change studied by neutron diffraction for oxide caloric materials	Yuichi Shimakawa	Yukinobu Kawakita
10:45—11:15	Inelastic neutron scattering with caloric materials	Shin-ichiro Yano (zoom)	
11:15—11:45	Investigation on magnetic phase transition materials in all-d-metal Heusler compounds for refrigeration applications	Guijiang Li	
11:45—12:00	Closing Remarks	Bing Li	
12:00—13:30	Lunch		