

2026 IMR-JBNU-KIST Joint Symposium

Date January 27, 2026

Venue IMR Auditorium hall, Institute for Materials Research, Tohoku University, Sendai, Japan

Organizers

Institute for Materials Research, Tohoku University

Jeonbuk National University

Korea Institute of Science and Technology

Program – Tuesday, January 27, 2026

	09:00 – 09:20	Prof. Takahiko Sasaki (Director at Institute for Materials Research, Tohoku University)	Greeting
		Prof. Man Young Kim (Dean of Engineering at Jeonbuk National University)	
Session1	09:00 – 09:40	Prof. Changwoo Nam Jeonbuk National University	Advanced layered nanocomposites with controllable aligned channels for efficient solar-driven desalination
	09:40 – 10:00	Prof. Gunwoo Kim Jeonbuk National University	Meta-composites and Meta-fabric
	10:00 – 10:20	Prof. Norihiko L. Okamoto Institute for Materials Research, Tohoku University	Layered Manganese Dioxide as a Heat-Storage Material Utilizing Environmental Water Vapor
	10:20 – 10:40	Prof. Kwang-Un Jeong Jeonbuk National University	Advanced Materials by Controlling Hierarchical Nanostructures of Programmed Molecules
	10:40 – 11:00	Break time	
	11:00 – 11:20	Prof. Seongseop Kim Jeonbuk National University	Designing Mesoporous Inorganic Materials through Spinodal Decomposition-Directed Morphology Control
Session2	11:20 – 11:40	Prof. Wataru Kosaka Institute for Materials Research, Tohoku University	CO ₂ -actuated Control of Fe(II) Spin Crossover in a Hofmann n-type Metal-Organic Framework
	11:40 – 12:00	Prof. Hyun-Je Song Jeonbuk National University	Reasoning with Large Language Models in Materials Research
	12:00 – 13:40	Break time	
	13:40 – 14:00	Prof. Chang Kyu Jeong Jeonbuk National University	New Dielectric Capacitors with Pyrochlore Oxides
Session3	14:00 – 14:20	Prof. Takeshi Seki Institute for Materials Research, Tohoku University	Spin-Orbit Torque Operation in Synthetic Antiferromagnets
	14:20 – 14:40	Prof. Tae-Wook Kim Jeonbuk National University	Synthesis and assembly of single-crystalline 2D metal nanosheets for conductive film applications
	14:40 – 15:00	Prof. Min-Suk Oh Jeonbuk National University	Engineering and Scientific Perspectives on Coatings, Surface Engineering, and Processing for Next-Generation Steel Technologies
	15:00 – 15:20	Break time	
	15:20 – 15:40	Dr. Wonjin Na Korea Institute of Science and Technology	Structural Integrity Evaluation of Composite Materials using Nondestructive Testing
Session4	15:40 – 16:00	Prof. Yoshinori Onose Institute for Materials Research, Tohoku University	Chirality control and detection in metallic helimagnets
	16:00 – 16:20	Dr. Sook Young Moon Korea Institute of Science and Technology	Design and manufacturing strategies for Ultra-Light Hybrid Composites in Extreme Environments
	16:20 – 16:40	Dr. Seok Hoon Ahn Korea Institute of Science and Technology	Functional Composites for Neutron Shielding Applications through Functionalization of Boron Nitride Nanotubes
	18:00 –	(Night) reception	

