

23rd Alloying Element Effects on Migrating Interfaces (ALEMI) Meeting @ Sendai

Meeting Program

Dates	July 14-15, 2026
Venue	Auditorium, Institute for Materials Research, Tohoku University 2-1-1 Katahira, Aoba-ku, Sendai, Japan

Organized by Goro Miyamoto, Institute for Materials Research, Tohoku University and sponsored by The Japan Institute of Metals and Materials

Tuesday, July 14, 2026

8:30 - Registration

Time	Program
9:00-9:15	Welcome
Plenary Lecture	
9:15-10:00	Importance of Boundary Segregation on Microstructure and Properties of Alloyed Steels Tadashi Furuhashi, NIMS
Ferrite / Austenite Transformation	
10:00-10:30	Dynamic Transformation under Diffusional Flow Conditions Hatem Zurob, McMaster University, Canada
10:30-11:00	Chemical Heterogeneity Driven Microstructure Design of Advanced High Strength Steel (AHSS) Ji Hoon Kim, Pusan National University, South Korea
11:00-11:30	Machine Learning Accelerated Phase-Field Calculations: A Case Study of Fe-C-Mn Yang Su, Tsinghua University, China
	Lunch
13:00-13:30	Ferrite Transformation Behavior in Chemically Heterogeneous Austenite Xiangguang Zhang, USTB, China (online)
13:30-14:00	Effect of V/Nb Microalloying on Austenitic Reversion Kinetics in Medium Mn Steels Haiwen Luo, USTB, China (online)
14:00-14:30	Effect of pre-existing γ morphology on reverse transformation and elemental partitioning behavior in medium Mn steel Kazuki Endoh, JFE Steel Corporation, Japan
14:30-15:00	Austenite reversion by interphase dissolution Hung-Wei (Homer) Yen, National Taiwan University, Taiwan
15:00-15:30	Break

Tuesday, July 14, 2026 (continued)

Time	Program
Carbide Precipitation	
15:30-16:00	Uniform Dispersion Mechanism of Carbides by Subcritical Annealing below the A₁ Transformation Temperature for High-chromium Case-hardening Steels Kenta Matsuo, Sanyo Special Steel Co., Ltd., Japan
16:00-16:30	Shearing of Chemically Complex Vanadium Carbide Nanoprecipitates in Microalloyed Steels Amir Sabet Ghorabaei, Zernike Institute for Advanced Materials, University of Groningen, The Netherlands
16:30-17:00	Austenite/ferrite Interphase Migration During Interphase Precipitation in Fe-C-Mn-V Steel: Comparison Between Theory and Experiment Erik Offerman, Delft University of Technology, The Netherlands
17:30-	Dinner

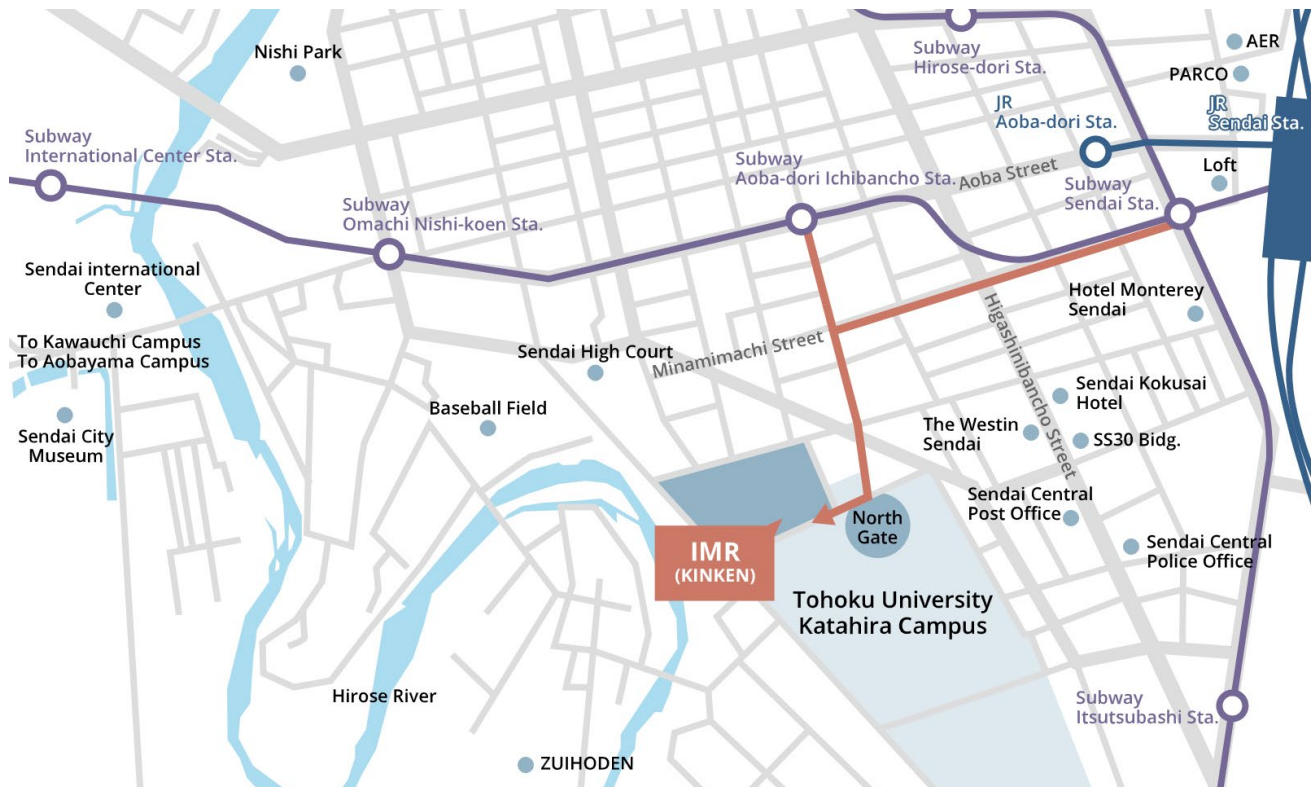
Wednesday, July 15, 2026

Time	Program
Nucleation & Bainite Transformation	
9:30-10:00	Nucleation in Kinetically Constrained Systems Christopher Hutchinson, Monash University, Australia
10:00-10:30	Nucleation/growth Competition During the Bainitic Transformation Hugo P. Van Landeghem, SIMaP, France
10:30-11:00	High Energy X-Ray Diffraction Studies of Bainite Arina DeBoer, McMaster University, Canada
11:00-11:30	Effect of Phosphorus on Bainite Transformation in Low-carbon Steel Taku Miyakawa, Nippon Steel Corporation, Japan
	Lunch
Solute-Interface Interaction	
13:00-13:30	Austenite Growth and Associated Mn Partitioning During Carburization of Fe-Mn Alloy Kanon Sato, Tohoku University, Japan
13:30-14:00	Extended Calculation Model of Grain Boundary Segregation and Its Application to 'Segregation Engineering' Ikuro Ohnuma, National Institute for Materials Science (NIMS), Japan
14:00-14:30	Effect of Carbon Content on Bulge Recrystallization of Lath Martensite Nobuo Nakada, Institute of Science Tokyo, Japan
14:30-14:45	Break
14:45-15:45	IMR Tour Honda Memorial Room, Miyamoto Lab.
15:45-16:00	Closure

Access to IMR

Institute for Materials Research (IMR), Tohoku University, Katahira Campus

2-1-1 Katahira, Aoba-ku, Sendai, Japan



Area map from Sendai Station to the Katahira Campus



Katahira Campus map