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

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 Furuhara, NIMS
	Ferrite Transformation
10:00-10:30	**Dynamic Transformation under Diffusional Flow Conditions** Hatem Zurob, McMaster University, Canada
10:30-11:00	**Ferrite transformation behavior in chemically heterogeneous austenite** Xianguang Zhang, USTB, China
11:00-11:30	**Chemical Heterogeneity Driven Microstructure Design of Advanced High Strength Steel (AHSS)** Ji Hoon Kim, Pusan National University, South Korea
	Lunch
	Austenite Reversion
13:00-13:30	**Effect of V/Nb Microalloying on Austenitic Reversion Kinetics in Medium Mn Steels** Haiwen Luo, USTB, China
13:30-14:00	**Effect of pre-existing γ morphology on reverse transformation and elemental partitioning behavior in medium Mn steel** Kazuki Endoh, JFE Steel Corporation, Japan
14:00-14:30	**Austenite reversion by interphase dissolution** Hung-Wei (Homer) Yen, National Taiwan University, Taiwan
14:30-15:00	**Break**

Tuesday, July 14, 2026 (continued)

Time	Program
	Solute-Interface Interaction
15:00-15:30	**Austenite growth and associated Mn partitioning during carburization of Fe-Mn alloy** Kanon Sato, Tohoku University, Japan
15:30-16:00	**Extended calculation model of grain boundary segregation and its application to 'Segregation Engineering'** Ikuo Ohnuma, National Institute for Materials Science (NIMS), Japan
16:00-16:30	**Effect of carbon content on bulge recrystallization of lath martensite** Nobuo Nakada, Institute of Science Tokyo, Japan
17:00-	**Networking Dinner**

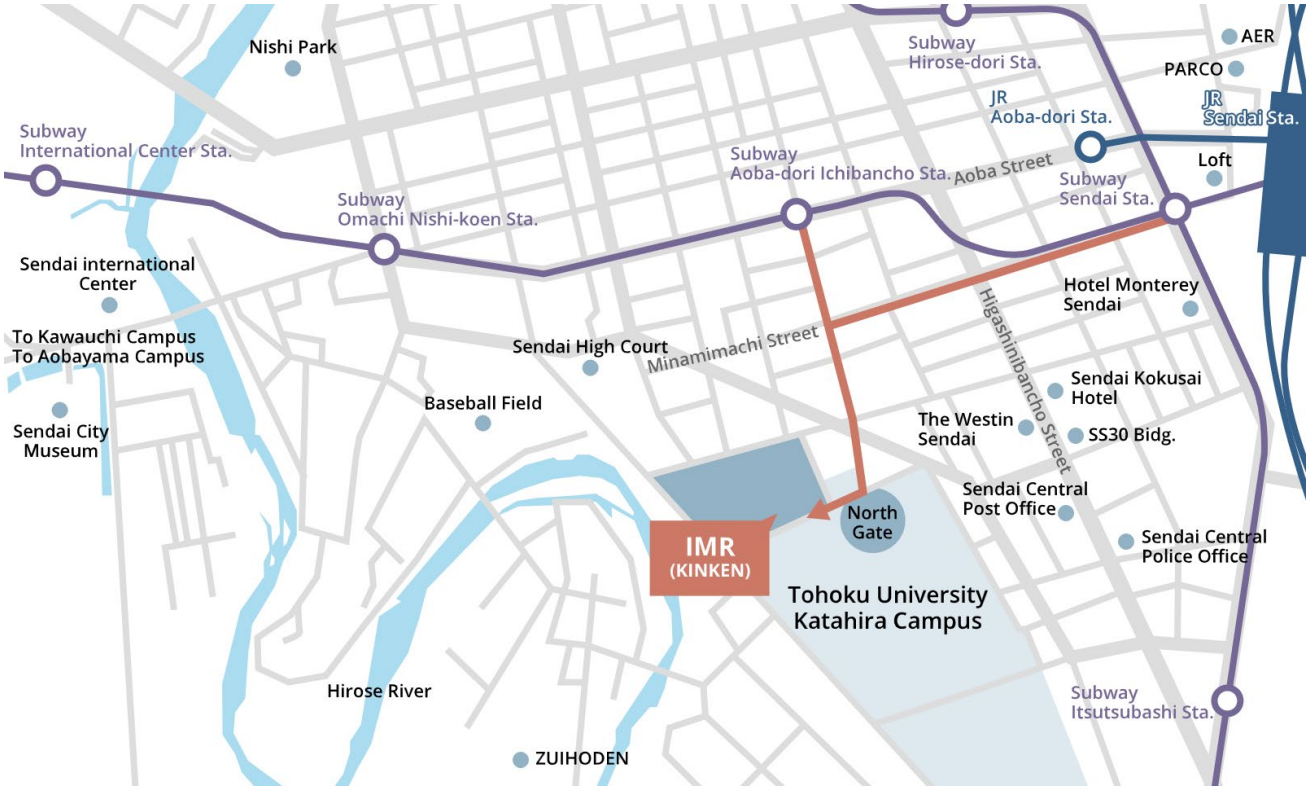
Wednesday, July 15, 2026

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
	Carbide Precipitation
13:00-13:30	**Uniform Dispersion Mechanism of Carbides by Subcritical Annealing below the A_1 Transformation Temperature for High-chromium Case-hardening Steels** Kenta Matsuo, Sanyo Special Steel Co., Ltd., Japan
13:30-14:00	**Shearing of chemically complex vanadium carbide nanoprecipitates in microalloyed steels** Amir Sabet Ghorabaei, Zernike Institute for Advanced Materials, University of Groningen, The Netherlands
14:00-14:30	**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
14:30-14:45	**Break**
14:45-15:45	**IMR Tour** Honda Memorial Room, Miyamoto Lab.
15:45-16:00	**Closure**

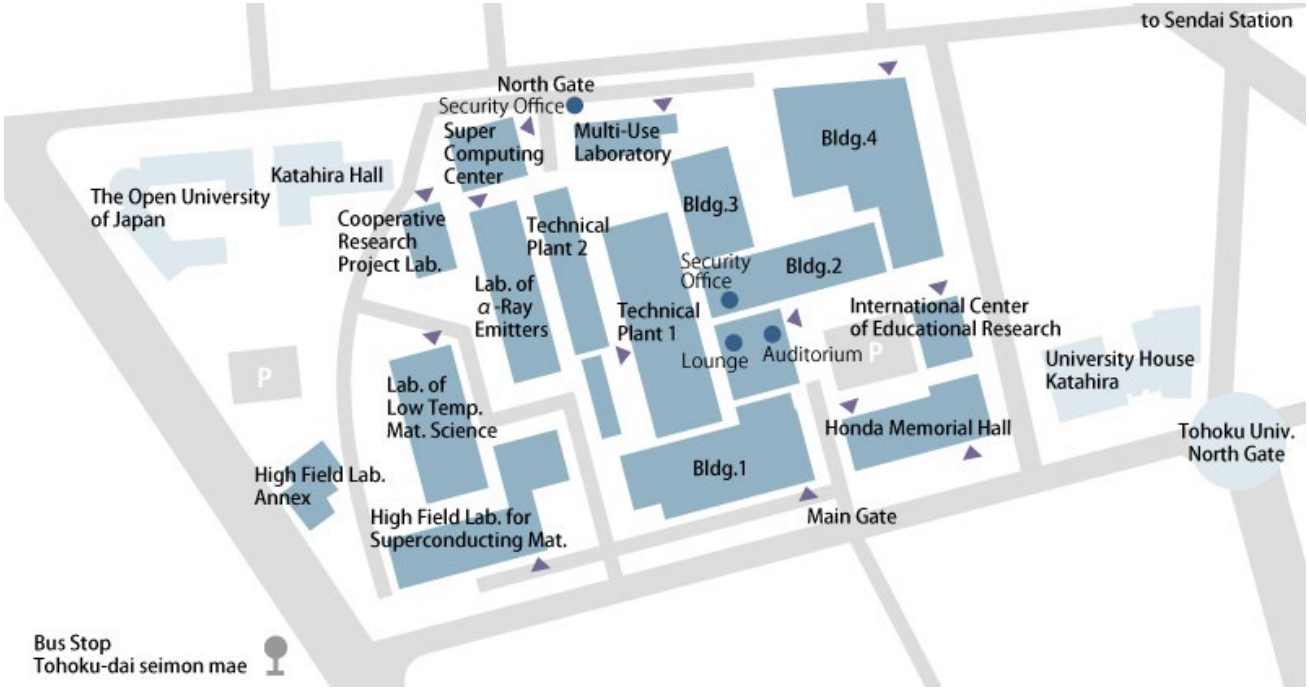
Access to IMR

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