

**The timetable the 177th ISIJ Meeting**  
(March 20–22, 2019 at Tokyo Denki University, Tokyo Senju Campus)

Session Room	Mar. 20 (Wed.)		Mar. 21 (Thu.)		Mar. 22 (Fri.)	
	AM	PM	AM	PM	AM	PM
Session Room 1 Bldg. No.5 Room 5505	Analysis of coking reduction [1–5] (10:00–11:40)	---	Activity of young researchers and engineers of microwave processing in foreign countries [Int.1–12] (10:25–16:20)		---	---
Session Room 2 Bldg. No.5 Room 5501	---	---	Approaches to comprehension and control of cohesive zone phenomena in blast furnace [D1–D13] (9:00–16:40)		Production and characteristics of agglomerates 1·2/Young engineer session of iron making [61–70] (9:00–12:40)	---
Session Room 3 Bldg. No.5 Room 5401	---	---	Young engineer session of coke-making [23–27] (10:00–11:40)	Thermodynamics of transition and tramp elements in steel for advanced sustainable steelmaking (13:20–16:55)[Charge-free]	Reaction and structure in blast furnace 1·2 [71–76] (10:10–12:20)	---
Session Room 4 Bldg. No.5 Room 5402	Thermodynamics 1·2 [6–12] (9:30–12:00)	---	Challenge for elucidation of the heat and mass transfer phenomena of high-temperature materials and its application toward novel material processing 1·2 [28–35] (9:00–11:50)	Challenge for elucidation of the heat and mass transfer phenomena of high-temperature materials and its application toward novel material processing 3/Transport phenomena/Refining [36–45] (13:00–16:40)	Inclusion behavior and its control from secondary refining to thermomechanical processing 1·2 [77–83] (9:00–11:30)	---
Session Room 5 Bldg. No.5 Room 5403	Application of in-situ observation method to novel processing 1·2 [13–18] (9:30–11:40)	---	Quantification of solidification phenomena using in-situ observation, modeling and simulation techniques II 1·2 [46–51] (9:30–11:40)	Solidification and structure control/Conventional continuous casting 1·2 [52–60] (13:00–16:20)	Slag and dust [84–88] (10:00–11:40)	Versatile use of iron- and steelmaking slags (13:10–16:40)[Charge-free]
Session Room 6 Bldg. No.5 Room 5502	Advanced utilization of waste heat and low-grade/unused resources for energy saving and CO <sub>2</sub> reduction in steelworks/ New viewpoint of ironmaking reaction [89–93,19–22] (9:00–12:10)	---	Elemental technologies for "Effective use of unutilized energy in steelworks" (9:00–17:00)[Charge-free]		---	---
Session Room 7 Bldg. No.5 Room 5503A	Evaluation and visualization of social value of steel 1·2 [94–101] (9:00–11:50)	---	Instrumentation [102–106] (9:40–11:20)	Control/System [107–112] (13:10–15:20)	---	---
Session Room 8 Bldg. No.5 Room 5503B	---	---	Cooling [113–115] (10:30–11:30)	Forging/Cutting [116–121] (13:00–15:10)	Rolling and deformation resistance [130–134] (9:30–11:10)	Joining [135–139] (13:00–14:40)
Session Room 9 Bldg. No.5 Room 5504	---	---	Young engineer's latest researches on tubes and pipes 1·2 [122–129] (9:10–12:00)	Advances in material modeling for the forming simulations of steel sheets (13:00–17:00)[Charge-free]	Manufacturing technology of high quality and high functional bar and wire [140–144] (10:00–11:40)	Progress and remaining problem in shape rolling [D14–D18] (13:00–15:50)
Session Room 10 Bldg. No.5 Room 5404	Heat resistant steels and alloys 1·2 [145–151] (9:30–12:00)	---	Electrical steel 1·2 [168–173] (9:30–11:40)	Toward understanding of corrosion-Induced hydrogen absorption to steels in air - Part II (13:00–17:00)[Charge-free]	---	---
Session Room 11 Bldg. No.5 Room 5301	Recrystallization and texture/ Solidification microstructure [152–159] (9:00–11:50)	---	Hydrogen embrittlement 1·2 [174–179] (9:40–11:50)	Hydrogen embrittlement 3·4·5 [180–190] (13:00–17:00)	Hydrogen embrittlement 6·7 [227–233] (9:20–11:50)	Hydrogen embrittlement 8·9 [234–238] (13:00–14:50)
Session Room 12 Bldg. No.5 Room 5302	Phase transformation 1·2 [160–167] (9:00–11:50)	Dislocation characterization and properties in stainless steel II (13:00–16:20)[Charge-free]	Chemical property 1 [191–194] (10:40–12:00)	Chemical property 2/ Surface technology [195–202] (13:00–15:50)	Phase transformation 3·4 [239–246] (9:00–11:50)	Phase transformation 5·6 [247–256] (13:00–16:30)
Session Room 13 Bldg. No.5 Room 5303	Frontier of quantum beam analysis for metallic microstructures (9:15–16:45)[Charge-free]		Steel sheets and plates/ Machine structural steel [203–209] (9:30–12:00)	Strength and deformability 1·2·3 [210–219] (13:00–16:40)	---	Fatigue/Toughness 1·2 [257–266] (12:50–16:30)
Session Room 14 Bldg. No.5 Room 5304	---	---	ISIJ and JIM joint session Ultrafine grained materials –fundamental aspects for ultrafine grained structures- 1·2·3 [J22–J31] (9:30–14:00)	Grain boundary segregation/ Simulation and modeling [220–226] (14:10–16:40)	---	---
Session Room 15 Bldg. No.2 Room 2501	---	---	Understanding and application of martensite and bainite structure in steels (9:00–16:45)[Charge-free]		Light elements in steels and their roles in microstructure and properties (9:00–16:20)[1,000yen]	
Session Room 16 Bldg. No.5 Room 5615	---	---	Surface and state analysis/ Elemental analysis 1 [267–274] (9:00–11:50)	Elemental analysis 2 [275–277] (13:00–14:00)	Digitization of analytical instruments in steel analysis [278–281] (10:00–11:20)	---
Session Room 17 Bldg. No.5 Room 5405A	---	---	Innovative perspectives and techniques in a study of cultural materials [Int.13–22] (9:30–16:20)		---	---
JIM Session Room D Bldg. No.2 Room 2605	---	---	---	ISIJ and JIM joint session Titanium and its alloys 1·2·3·4 [J1–J12](13:00–17:30)	ISIJ and JIM joint session Titanium and its alloys 5·6 [J13–J21](9:00–12:10)	
* Ceremony of conferment of the honorary membership and prize awarding, Special lecture meeting (14:00–17:00 at NIWA Hall (Bldg. No.1, 2nd Fl.)) * Banquet (18:00–20:00 at The 100 years anniversary Hall (Bldg. No.1, 1st Fl.))[7,000yen]			* Poster Session for Students (12:00–15:00 at Bldg. No.2, 5th Fl.) * ISIJ Beer Party (17:30–19:00 at Cafeteria (Bldg. No.3, 2nd Fl.))			

[ ] : Lecture Number  
( ) : Lecture Time  
■ : Symposium: Please ask to each of symposium room desks directly

\* Board Meeting:  
Instrumentation, Control and System Engineering March 21 (Thu.) 12:00–13:00 Session Room 7  
Processing for Quality Products March 21 (Thu.) 12:00–13:00 Session Room 8