

# The timetable of the 165th ISIJ Meeting

	March 27 (Wed)		March 28 (Thurs)		March 29 (Fri)				
	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.			
Room1 2504		Sintering process [1-5] (13:00-14:40)	Cokemaking1·2 [31-36] (9:20-11:30)	Young engineer session of coke-making1·2 [37-42] (13:00-15:10)	Blast furnace1·2 [90-95] (9:20-11:30)	Young engineer session of ironmaking [96-99] (13:00-14:20)			
Room2 2505 (JIM-T)	Ceremony of conferment of the honorary membership and prize awarding	Production and evaluation of innovative agglomerates /Carbon circulation·High efficiency process /Discrete phase [6-16] (13:00-17:00)	(D) Current technologies and subjects for environmental change in ironmaking process [D1-10] (10:10-16:10)		ISIJ and JIM joint session Fundamentals and application of microwave processing1·2 [J35-42] (9:00-11:50)		(Int.) Recent research and utilization of microwave processing in China and South East Asia [Int.1-8] (12:00-16:10)		
Room3 2601		---	Inclusion behaviors in-temperature range /Solidification·structure control [43-50] (9:00-11:50)	Selection of microstructure in peritectic solidification1·2 [51-57] (13:00-15:30)		Conventional continuous casting·special solidification /Continuous casting·solidification [100-106] (9:30-12:00)		---	
Room4 2602		Transport phenomena /Thermodynamics1·2 [17-24] (13:00-16:00)	Novel processing /High temperature physicochemical properties of materials and their application for production processes1 [58-65] (9:00-11:50)	High temperature physicochemical properties of materials and their application for production processes2·3·4 [66-76] (13:00-17:00)		Development of multiscale and multiphase analysis in refining process (9:00-14:15) [Charge-free]			
Room5 2603		Hot metal treatment·Secondary refining /Scrap utilization·Recycling [25-30] (13:30-15:40)	Fundamentals and applications of techniques toward higher purification in refining process of molten iron1 [77-80] (10:20-11:40)	Fundamentals and applications of techniques toward higher purification in refining process of molten iron2·3 [81-89] (13:20-16:30)		Development of precise control method of high temperature and non-equilibrium microstructure (10:00-15:30) [Charge-free]			
Room6 2604		---	Pre-modern production of iron [113-117] (10:00-11:40)	Slag utilization /Smart Iron-making System using ACRES(iACRES) [118-126] (13:30-16:40)		Contribution of iron and steel industry to phosphorus resource security (9:00-12:00) [2,000yen]		Material flow [127-130] (13:30-14:50)	
Room7 2605		---	(D) Advanced technologies of wireless sensor network for steel manufacturing process [D11-14] (9:30-11:50)	(D) Research activities in the research group on "High precision process control via large scale database and simulation models" [D15-19] (13:30-16:20)		Control·system /Instrumentation [131-138] (9:00-11:50)		Human-system collaborative resilient design symposium (13:00-16:30) [Charge-free]	
Room8 2701		Special lecture meeting	Properties and controlling techniques of oxide scale in high-temperature processes1·2 [139-146] (13:30-16:20)	(D) Tribology and roll cooling in hot rolling and cold rolling [D20-25] (9:45-14:50)		Tribology /Rolling of Sheet [170-176] (9:30-12:00)		---	
Room9 2702			Prediction and measurement of residual stress in strip after leveling /Deformation·Shearing [147-154] (13:00-16:10)	Acicular ferrite development in welds /Joining·bonding [155-161] (9:00-11:30)	Manufacturing technology of high quality and high functional bar and wire /Technological issues and future development of powder metallurgy [162-169] (13:50-16:40)		Cooling [177-180] (10:30-11:50)		---
Room10 2703			Integrity maintenance of components used under severe conditions (13:00-15:40) [Charge-free]	Ductile fracture of multi-phase steels (10:15-16:40) [Charge-free]		Strength·deformation property1·2 [260-266] (9:00-11:30)		---	
Room11 2704			9:00	Steel strip [181-185] (13:00-14:40)	Aging·precipitation1·2 [201-208] (9:00-11:50)	Tool steel ·Machine structural steel1·2 [209-215] (13:30-16:00)	Inclusion /Refractories [107-112] (9:30-11:40)	---	
Room12 2705				Steel plate [186-189] (13:30-14:50)	Formability·mechanical property /Fracture behavior [216-223] (9:00-11:50)	Nondestructive damage evaluation with nonlinear phenomena (13:00-17:00) [Charge-free]	Microstructure evolution1·2 [267-273] (9:00-11:30)	Microstructure evolution3·4 [274-281] (13:00-15:50)	
Room13 2801			12:00	Current state of understanding about microstructure of high Cr ferritic steel welds (13:00-17:05) [Charge-free]	New frontier of galvanized steel sheets technology (10:30-16:40) [1,000yen]		Hot dip coating [282-286] (10:20-12:00)	Functional treatment·corrosion resistance /Mechanism of corrosion·corrosion protection [287-293] (13:00-15:30)	
Room14 2803				Comprehensive understanding of the surface suppressing hydrogen adsorption to steels for prevention of hydrogen embrittlement (13:30-17:00) [1,000yen]	Nonferrous material (Titanium alloy) /Stainless steel1·2 [224-231] (9:00-12:00)	Frontier in the application of stainless steel (13:00-17:00) [Charge-free]	Stainless steel3·4 [294-300] (9:40-12:10)	---	
Room15 2804				Diffusion·Diffusionless transformation1·2·3 [190-200] (13:00-17:00)	Hydrogen embrittlement1·2 [232-238] (9:30-12:00)	Electrical steel sheets1·2 [239-244] (13:00-15:10)	Deformation behavior1·2 [301-308] (9:00-11:50)	Deformation behavior3 /Fatigue fracture [309-316] (13:00-15:50)	
Room16 2805				Elemental & inclusion analysis [317-321] (13:00-14:40)	Ferritic heat resistant steels1·2 [245-252] (9:00-11:50)	Ni-base superalloys /Austenitic heat resistant steels [253-259] (13:30-16:00)	---	---	
Room17 2904				Neutron as a tool for developing miracle steel-III (13:00-17:00) [Charge-free]	X-ray analysis /Surface & state analysis [322-329] (9:00-11:50)	Characterization of basic calcium species in steel slag (13:00-17:00) [Charge-free]	Diversified estimation of nonmetallic inclusion particles (9:40~16:00) [Charge-free]		
Room18 Tokyo Univ. of Sci., Kagurazaka-Campus, Bld.No2 4th Flr. 241 (JIM-H)		ISIJ and JIM joint session Ultrafine grained materials—fundamental aspects for ultrafine grained structures-1·2·3·4 [J22-34] (10:00-15:30)		---	ISIJ and JIM joint session Titanium and titanium alloys1·2 [J1-6] (3/28 14:00-16:10) Titanium and titanium alloys3·4·5·6 [J7-21] (3/29 9:00-15:30)				
		Banquet (18:30-20:30 Tokyo Garden Palace Hotel) [10,000yen]	Poster Session for Students (12:00-15:00 100th Anniversary Hall) ISIJ Beer Party (17:30-19:00 Cafeteria)						

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

● Board Meeting:  
Instrumentation, Control and System Engineering March 28 (Thurs) 12:00-12:30 Room7  
Processing for Quality Products March 28 (Thurs) 12:00-13:00 Room9

## High Temperature Processes

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D2	Status and prospect of hydrocarbon gas addition technique in iron ore sintering process	Y.Iwami	• • • 5
D3	Continuous measurement and control of sinter mix moisture for decrease in sintering fluctuation	K.Morioka	• • • 9
D4	High ore/coke operation at No.1 blast furnace in Kure works	M.Shimizu	• • • 13
D5	Decrease in carbon consumption of blast furnace by using iron oxide agglomerate with high carbon content	K.Higuchi	• • • 17
D6	Effect of vicinity arrangement of iron ore and carbonaceous materials on blast furnace reaction	S.Watakabe	• • • 21
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## Instrumentation, Control and System Engineering

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<b>Advanced technologies of wireless sensor network for steel manufacturing process</b>			
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## Processing for Quality Products

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# International Organized Sessions

## High Temperature Processes

2013/3/29 Lecture Room 2

### Recent research and utilization of microwave processing in China and South East Asia

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## Environmental, Energy and Social Engineering

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