The Timetable of the 163rd ISIJ Meeting

	March 28（Wed）		March29（Thurs）		March30（Fri）	
	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.
Room1 （C-201）	Coke making technology /Young engineer session of coke-making [1-9]（9:00-12:10）	General assembly ・ Ceremony of conferment of the honorary membership and prize awarding ・ Special lecture meeting 13:30 ｜ 17:00	（D）Cokemaking technology for low-quality and unused carbon resources [D1-13]（9:00-17:20）		New agglomeration process /Blast furnace and shaft furnace [71-77]（9:30-12:00）	Evaluation of advanced agglomerates /Mathematical model of blast furnace [78-86]（13:00-16:10）
Room2 （JIM-R） （C-301）	Process control for sintering1・2 [10-16]（9:20-11:50）		（D）Recent progress on advanced mathematical model of blast furnace [D14-21]（10:20-16:15）		Young engineer session of ironmaking1・2 [87-93]（9:30-12:00）	ISIJ and JIM joint session Fundamentals and application of microwave processing1・2 [J29-35]（13:00-15:30）
Room3 （A-107）	Blast furnace reactions1・2 [17-24]（9:10-12:00）		― ― ―	― ― ―	Technical developments and recent aspects for researches on high-temperature thermophysical1・2 [94-101]（9:00-11:50）	Technical developments and recent aspects for researches on high-temperature thermophysical3 [102-107]（13:00-15:00）
Room4 （A-108）	Inclusion [25-28]（10:40-12:00）		Introduction of novel processing forum [40-43]（10:00-11:20）	Transport phenomena1・2・3 [44-53]（13:20-17:00）	Converter /Secondary refining ・Electric furnace [108-115]（9:10-12:00）	Hot metal treatment /Refractories3 [116-123]（13:10-16:00）
Room5 （A-106）	Thermodynamics /Recycling [29-34]（9:30-11:40）		（Int.）Innovations and future directions for BOF steelmaking processes [Int.1-10]（10:00-15:55）		Fundamentals and applications of non-metallic inclusions in solid steel （9:15-16:30）[Charge-free]	
Room6 （A-105）	Continuous casting1 [35-39]（9:30-11:10）		Continuous casting2・3 [54-60]（9:20-11:50）	Refractory1・2 /Mould flux [61-70]（13:00-16:40）	Fundamental of solidification1・2 [124-130]（9:20-11:50）	Fundamental of solidification3 [131-134]（13:30-14:50）
Room7 （A-104）	Utilization of biotechnology [135-137]（10:50-11:50）		（D）Automobile recycling from material industry's perspective: Part1 [D22-28]（9:00-11:50）	Pyrometallurgy based separating and recycling （13:00-16:40）[2,000yen]	Present status of EAF dust treatment in the world （9:00-16:00）[3,000yen]	
Room8 （A-102）	Utilization technology of slag and dust1・2 [138-144]（9:30-12:00）		― ― ―	Establishment of low-carbon ironmaking system by using carbon recycling technologies （13:00-17:00）[2,000yen]	Production of green energy and the use for ironmaking and steelmaking （9:00-16:20）[Charge-free]	
Room9 （A-208）	（D）Advanced system integration for preserving, sharing and improving work quality in steel plants [D29-32]（9:20-12:00）		Instrumentation1・2 [145-152]（9:00-11:50）	Instrumentation3・Control /System [153-160]（13:30-16:20）	― ― ―	Nowadays safety: security and holonomy （13:00-16:30）[Charge-free]
Room10 （A-207）	Control technology for free cutting-5 /Cutting [161-168]（9:00-11:50）		Testing methods of steel tube formability and its standardization （10:00-16:15）[2,000yen]		Steel structure production and fracture /Tube and pipe [175-180]（9:30-11:40）	Today and future outlook of long life/life extension technologies of steel structures （13:00-17:00） [Member2,000yen/Non-member3,000yen]
Room11 （A-206）	（D）Advanced tribological studies on hot rolling [D33-38]（9:00-11:40）		（D）Research and development towards high-precision simulation of forming processes [D39-46]（9:55-15:30）		Cooling /Scale [181-188]（9:00-11:50）	Rolling1・2 [189-197]（13:00-16:10）
Room12 （A-204）	― ― ―		Manufacturing technology of high quality and high functional bar and wire1・2 [169-174]（9:40-11:50）	Cold rolling /Hot rolling1・2 [227-236]（13:00-15:30）	Modeling and simulation /Magnetic property [272-278]（9:20-11:50）	Mechanical property1・2 /Strength, deformation behavior [279-289]（13:00-17:00）
Room13 （A-203）	Fracture・Deformation behavior1・2 [198-205]（9:00-11:50）		Pipe and machine structural steel1・2 [237-243]（9:20-11:50）	New approaches to the nondestructive damage evaluation with nonlinear phenomena of structural materials （13:00-17:00）[Charge-free]	Investigation of mechanism and detection of hydrogen evolution and absorption reactions induced by atmospheric corrosion （9:30-16:30）[1,000yen]	
Room14 （A-101）	Structure control1・2 [206-213]（9:00-11:50）		Dual phase steels /Dual phase steels and martensite [244-251]（9:00-11:50）	Hydrogen embrittlement1・2 [252-260]（13:00-16:10）	Microstructure formation1・2 [290-296]（9:20-11:50）	Martensitic transformation1・2 [297-305]（13:00-16:10）
Room15 （A-201）	― ― ―		Nanoscale inhomogeneities in steels and their control -Functions of alloying elements （9:00-17:00）[Charge-free]		Toward effective 3D4D analysis for materials research （9:00-16:30）[1,000yen]	
Room16 （A-202）	The world technical trends in surface hardening and automotive steels （9:30-12:30）[1,000yen]		― ― ―	Science and latest technologies of stainless steel （13:00-17:00） [Charge-free、Textbook:4,000yen]	Physical metallurgy of heat-resistant steels and alloys Ⅱ （9:00-16:30）[2,000yen]	
Room17 （A-305）	Austenitic heat resisting steels1・2 [214-222]（9:20-12:30）		Ferritic heat resisting steels1 [261-264]（10:30-11:50）	Ferritic heat resisting steels2・3 [265-271]（13:00-15:30）	Titanium and its alloys /Stainless steel1 [306-312]（9:20-11:50）	Stainless steel2・3 [313-319]（13:00-15:30）
Room18 （JIM-Q） （A-306）	Precipitation and segregation [223-226]（9:20-10:20）		ISIJ and JIM joint session Titanium and its alloys1・2・3・4 [J1-15]（9:20-16:10）		Electrical steel sheets1・2 [320-326]（9:00-11:30）	Electromagnetic materials [327-330]（13:00-14:20）
Room19 （A-307）	（D）Characterization of advanced materials with complicated structures [D47-54]（9:00-12:40）		Crystal structure analysis [342-345]（10:30-11:50）	Elemental analysis/Others [346-354]（13:30-16:40）	― ― ―	Hot-dip coating・Electroplating・Painting /Mechanism of corrosion and corrosion protection /Hydrogen absorption [331-341]（13:00-17:00）
Room20 （JIM-I） Faculty of Education and Human Sciences[EdHS] Lecture Hall 7, 1st Flr. 7-103	― ― ―		― ― ―		ISIJ and JIM joint session Ultrafine grained materials–fundamental aspects for ultrafine grained structures-1・2・3・4 [J16-28]（9:30-15:30）	
		Banquet* （18:30-20:30 Rose Hotel Yokohama） [10,000yen] *Sichuan and French Cuisine		Poster Session for Students （12:00-15:00 University Hall） ISIJ Beer Party （17:30-19:00 Cafeteria Ⅰ）		

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

● Board Meeting:
Instrumentation, Control and System Engineering March 29(Thurs) 12:00-12:50 Room9
Processing for Quality Products March 29(Thurs) 12:00-13:00 Room11

High Temperature Processes

Environmental, Energy and Social Engineering

Instrumentation, Control and System Engineering

Processing for Quality Products

Process Evaluation and Material Characterization

International Organized Sessions

High Temperature Processes

2012/03/29 Lecture Room 5

Innovations and future directions for BOF steelmaking processes

10:00 ～ 10:05
Opening adress Y.Kobayashi(Tokyo Inst. of Tech.)

10:05 ～ 11:55 Chairperson:Y.Kobayashi(Tokyo Inst. of Tech.)

10:05 ～ 10:35
Int. 1 Development of simulation program for hot-metal dephosphorization processes ・・・ 188
-The activity of the ISIJ Research Group "Process simulation for dephosphorization of pig iron by multi-phases"-
Waseda Univ. ○K.Ito・M.Mori

10:35 ～ 11:05
Int. 2 (Invited Lecture)Bloated droplet model of oxygen steelmaking ・・・ 191
Swinburne Univ. of Tech. ○G.Brooks, Univ. of Wollongong N.Dogan, McMaster Univ. K.Coley

11:05 ～ 11:25
Int. 3 Effect of changes in slag basicity and stirring intensity on hot metal dephosphorization ・・・ 195
NSC ○N.Sasaki・Y.Ogawa・K.Miyamoto

11:25 ～ 11:55
Int. 4 (Invited Lecture)Thermodynamic database and kinetic simulation for BOF process ・・・ 199
McGill Univ. ○I.-H.Jung・M.-A.Van Ende・W.-Y.Kim

13:10 ～ 14:30 Chairperson:N.Maruoka(Tohoku Univ.)

13:10 ～ 13:40
Int. 5 (Invited Lecture)Advances in converter technology ・・・ 203
-A new direction for research in the basic oxygen converter
Tata Steel ○C.McDonald

13:40 ～ 14:00
Int. 6 Development of hot metal dephosphorizaton with CaO powder top blowing ・・・ 204
Sumitomo Metals ○T.Tamura・M.Miyata・Y.Higuchi, Formerly Sumitomo Metals T.Matsuo

14:00 ～ 14:30
Int. 7 (Invited Lecture)The effect of solid particles on liquid viscosity and slag foaming ・・・ 208
Royal Inst. of Tech. ○D.Sichen

14:40 ～ 15:50 Chairperson:N.Sasaki(NSC)

14:40 ～ 15:10
Int. 8 (Invited Lecture)Reduction of dephosphorization slags using slag modification method in a hot metal bath ・・・ 212
Northeastern Univ. of China ○M.Jiang・D.Wang・C.Liu

15:10 ～ 15:30
Int. 9 Condensation of phosphorus as the $2CaO{\cdot}SiO_2$-$3CaO{\cdot}P_2O_5$ solid phase in the CaO-FeO-SiO_2 flux system ・・・ 213
The Univ. of Tokyo ○H.Matsuura・X.Yang・X.Gao・F.Tsukihashi

15:30 ～ 15:50
Int. 10 Influence of formation layer around CaO on the dissolution rate in steelmaking slag ・・・ 217
Tohoku Univ. ○N.Maruoka・A.Ishikawa・H.Shibata・S.Kitamura

15:50 ～ 15:55
Closing remark S.Kitamura(Tohoku Univ.)

High Temperature Processes

Environmental, Energy and Social Engineering

Instrumentation, Control and System Engineering

Processing for Quality Products

Microstructure and Properties of Materials

Process Evaluation and Material Characterization

ISIJ and JIM Joint Session