The Timetable of the 161st ISIJ Meeting

	March 25(Fri)		March 26(Sat)		March27(Sun)	
	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.
Room 1 (6B2)	― ― ―	General assembly	(Int.) In-situ high temperature observation and measurement of metallurgical phenomena [Int.1-19](8:40-17:25)		Low CO_2 technology for blast furnace/Operation technology of blast furnace [80-85](9:50-12:00)	Mathematical model for blast furnace [86-89](13:00-14:20)
Room 2 (6B1)	Young engineer in ironmaking1･2 [1-8](9:10-12:00)		Exploring a low carbon sintering process -Aiming at the reduction of 100 kg-CO_2/Fe-ton- (9:30-17:00)[1,000yen]		Present status of EAF dust treatment in the world (9:00-16:00)[3,000yen]	
Room 3 (813)	― ― ―		Ironmaking process enabling low carbon consumption /Coal and coke1 [31-37](9:20-11:50)	Coal and coke2 /Young engineer session of coke-making [38-44](13:00-15:30)	New process [90-94](10:00-11:40)	Symposium on plant management by risk assessment (13:00-15:00)[Charge-free]
Room 4 (814)	Electric furnace /Inclusion /Thermodynamics [9-16](9:10-12:00)		Slag･dust treatment1･2 [45-52](9:10-12:00)	Hot metal treatment /Converter /Secondary refining [53-62](13:30-17:00)	Fundamentals of solidification 1･2･3 [95-103](9:00-12:10)	Development of in-situ observation technique for steel solidification and its application (13:00-16:30)[Charge-free]
Room 5 (815)	Refractories1･2 [17-22](9:30-11:40)	Ceremony of conferment of the honorary membership and prize awarding	Refractories3 /Electromagnetic processing [63-70](9:00-11:50)	Introduction of novel processing forum activity1･2 /Property of cast metals [71-79](13:30-16:40)	Fundamentals and application of special steel refining technology1･2･3･4 [104-116](9:00-14:50)	
Room 6 (821)	CO_2 reduction･scrap utilization /Transport phenomena1･2 [23-30](9:20-12:20)		― ― ―	Frontier uses of iron- and steelmaking slags and their prospects (13:00-16:30)[1,000yen]	Developments of high-temperature thermophysical properties measurement and its systematizations for responding the industrial needs1･2･3･4 [117-132](9:00-16:00)	
Room 7 (JIM-U) (822)	Green energy steelmaking-IV (Hydrogen production and use for steelmaking) 1･2 [133-139](9:00-11:30)		― ― ―	Ecology in iron and steel industry /Environmental equipment /Ancient steelmaking technology [140-146](14:30-17:10)	ISIJ and JIM joint session Fundamentals and application of microwave processing1･2･3･4 [J33-47](9:30-15:50)	
Room 8 (823)	― ― ―		(D)Advanced imaging technologies for innovative steel production process [D1-4](10:00-12:00)	(D)Modeling and control to realize the deviation-free production [D5-9](14:00-16:40)	Instrumentation1･2 /Information system [147-156](8:50-12:30)	Control1･2 [157-163](14:00-16:30)
Room 9 (632)	― ― ―	Special lecture meeting	Rolling and cooling1･2 [169-174](9:40-11:50)	Forming of sheet, plate and tube1･2 [175-182](13:00-15:50)	(D)Approach for the elucidation of metallurgy and effect in processing of an oxide scale [D10-22](9:00-16:30)	
Room 10 (824)	Surface technology [164-168](10:00-11:40)		Joining and high temperature oxidation/Manufacturing technology of high quality and high functional bar and wire [183-189](9:00-11:30)	Today and future outlook of long life/life extension technologies of steel structures (13:00-17:10) [Member 2,000yen,Non-member 3,000yen]	― ― ―	― ― ―
Room 11 (633)	Hydrogen embrittlement1･2 [190-195](9:20-11:30)	13:30	― ― ―	Electrical steel1･2 [214-222](13:50-17:00)	Austenitic heat resisting steels ･chemical compounds /Ni-base superalloys [237-242](9:30-11:40)	Ferritic heat resisting steels [243-247](13:00-14:40)
Room 12 (820)	The world technical trends in surface hardening and automotive steels (9:30-12:30)[1,000yen]	I	Fundamentals and novel approaches for new demands on work-hardening properties of steels (8:45-17:30)[4,000yen]		Electroplating･hot-dip coating･ chemical conversion treatment /Corrosion･SCC [248-256](9:00-12:10)	Corrosion mechanism [257-261](13:30-15:10)
Room 13 (JIM-T) (831)	― ― ―	17:00	ISIJ and JIM joint session Titanium and its alloys1･2･3･4･5･6･7 [J1-18](9:00-17:30)		Fracture /Fracture behavior of dual phase steels [262-270](9:00-12:10)	Mechanical properties of steels1･2 [271-277](13:30-16:20)
Room 14 (832)	Grain refinement /Recovery and recrystallization [196-203](9:00-11:50)		Overview for perspectives and problems of materials and process design toward resource saving and circulating society (8:45-12:15)[Charge-free]	Science and latest technologies of stainless steel Part1 (13:00-16:50) [Charge-free, Textbook 3,000yen]	Bainite and martensite1･2 [278-286](9:00-12:10)	New aspects of steel research and development under resource and environmental restrictions (13:00-16:30)[1,000yen]
Room 15 (833)	Hot stamping [204-208](10:20-12:00)		Microstructure control1･2 [223-228](9:30-11:40)	Diffusional and diffusionless transformation /Aging･precipitation [229-236](13:30-16:20)	Steel plate and pipe･Machine structural steel [287-291](9:00-10:40)	Hot rolled steel sheet ･cold rolled steel sheet [292-296](13:00-14:40)
Room 16 (834)	Mechanical property [209-213](10:00-11:40)		Effect of biofilm and bacteria on the material characteristics (10:00-17:00)[1,000yen, Student charge-free]		Microstructure prediction /Physical property [297-304](9:00-11:50)	Modeling of microstructure and phenomenon [305-309](13:30-15:10)
Room 17 (835)	― ― ―		― ― ―	New approaches to the nondestructive evaluation with nonlinear phenomena for degradation of ageing structural materials (13:00-17:00)[Charge-free]	Stainless steel1･2･3 [310-319](9:50-14:20)	
Room 18 (825)	― ― ―		Elemental analysis /Surface and state analysis [320-327](9:00-11:50)	(Int.) Neutron: as a tool for developing miracle steel-1 [Int.20-28](13:00-17:40)	(D)The application of biological index to the evaluation and analysis for steels and steel making processes [D23-29](9:00-12:10)	― ― ―
Room 19 (JIM-L) (721)	― ― ―		― ― ―		ISIJ and JIM joint session Ultrafine grained materials–fundamental aspects for ultrafine grained structures-1･2･3･4 [J19-32](9:00-15:10)	
		Banquet Meguro Gajoen (18:30-20:30) [12,000yen]		Poster session for students (12:00-15:00) ISIJ Beer Party (17:30-19:00)		

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

Board Meeting:
Instrumentation, Control and System Engineering March 27(Sun) 12:30-13:00 Room8
Processing for Quality Products March 26(Sat) 12:00-13:00 Room9

Instrumentation, Control and System Engineering

Processing for Quality Products

Process Evaluation and Material Characterization

International Organized Sessions

High Temperature Processes

2011/03/26 Lecture Room 1

In-situ high temperature observation and measurement of metallurgical phenomena

08:40 ～ 10:20 Chairperson:S.Kitamura(Tohoku Univ.)

08:40 ～ 09:00

09:00 ～ 09:20

09:20 ～ 09:40

09:40 ～ 10:00

10:00 ～ 10:20

10:30 ～ 12:00 Chairperson:M.Guo(K.U.Leuven)

10:30 ～ 10:55

10:55 ～ 11:15

11:15 ～ 11:35

11:35 ～ 12:00

13:00 ～ 14:30 Chairperson:H.Fukuyama(Tohoku Univ.)

13:00 ～ 13:25

13:25 ～ 13:45

13:45 ～ 14:05

14:05 ～ 14:30

14:45 ～ 16:15 Chairperson:Y.Sasaki(POSTECH)

14:45 ～ 15:10

15:10 ～ 15:30

15:30 ～ 15:50

15:50 ～ 16:15

16:30 ～ 17:25 Chairperson:H.Shibata(Tohoku Univ.)

16:30 ～ 16:55

16:55 ～ 17:20

Int. 19 (Invited Lecture)A decade of collaboration between KTH and Tohoku university ··· 529
–Examples from CSLM studies to increase the metallurgical knowledge
KTH ○P.G.Jonsson・A.Tilliander・K.Nakajima・A.Karasev, Tohoku Univ. H.Shibata・S.Kitamura

17:20 ～ 17:25

Closing remark H.Shibata(Tohoku Univ.)

International Organized Sessions

Process Evaluation and Material Characterization

2011/03/26 Lecture Room 18

Neutron:as a tool for developing miracle steel1

13:00 ～ 14:40 Chairperson:M.Ohnuma(NIMS)

13:00 ～ 13:40

Int. 20 (Invited Lecture)In–situ neutron scattering study of nanostructured steel ··· 533
Oak Ridge National Lab. ○X.–L.Wang・M.K.Miller, Oak Ridge National Lab./Hong Kong Polytechnic Univ. C.T.Liu, HZB U.Keiderling, Oak Ridge National Lab. A.D.Stoica・D.Ma

13:40 ～ 14:00

Int. 21 Real time neutron small–angle scattering during cementite spheroidization ··· 534
Ibaraki Univ. ○Y.H.Su・Y.Tomota, JAEA J.Suzuki, NIMS M.Ohnuma, Yokohama National Univ. S.Morooka

14:00 ～ 14:40

Int. 22 (Invited Lecture)Neutron scattering at the HIPPO beamline as a tool for steel development ··· 537
LANSCE ○S.C.Vogel

14:50 ～ 16:10 Chairperson:K.Sato(JFE)

14:50 ～ 15:30

Int. 23 (Invited Lecture)In–situ neutron diffraction studies of various metals on engin–X at ISIS ··· 539
ISIS ○A.M.Paradowska, AGH Univ. of Science and Tech. A.Baczmanski, ISIS S.Y Zhang, The Open Univ. A.Rao, The Open Univ. P.J.Bouchard, ISIS J.Kelleher

15:30 ～ 15:50

Int. 24 In situ stress measurement by neutron diffraction during tension ··· 543
–Comression deformation(Bauschinger effect)in nodular graphite cast iron
Ibaraki Univ. ○D.Naito・Y.Tomota, JAEA S.Harjo , Hitachi Construction Machinery S.Kubota

15:50 ～ 16:10

Int. 25 Microstructure evolution during isothermal annealing of 17Ni–0.2C martensite steel studied by *in situ* neutron diffraction ··· 547
JAEA ○P.G.Xu・S.Harjo・T.Ito , Ibaraki Univ. Y.Tomota

16:20 ～ 17:40 Chairperson:Y.Tomota(Ibaraki Univ.)

16:20 ～ 17:00

Int. 26 (Invited Lecture)Neutron scattering techniques on steel research ··· 550
KAERI ○B.S.Seong・E.Shin・Y.S Han・C.Woo, Seoul National Univ. J–.Y Choi・H.C.Lee

17:00 ～ 17:20

Int. 27 Quantitative analysis of nano–size carbide precipitated in steels using small–angle X–ray and neutron scattering methods ··· 552
NIMS ○Y.Oba・M.Ohnuma, Kobe Steel E.Kakiuchi・T.Murakami・H.Hatano, JAEA J.Suzuki

17:20 ～ 17:40

Int. 28 Wetting process of β –FeOOH rust with Ti by small–angle neutron scattering ··· 553
NIMS ○M.Ohnuma・Y.Oba, Kobelco Research Inst. T.Wakabayashi・K.Sasakawa, Kobe Steel T.Nakayama, JAEA J.Suzuki

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