The Timetable of the 164th ISIJ Meeting

	September 17（Mon）		September18（Thu）		September19（Wed）	
	a.m.	p.m.	a.m.	p.m.	a.m.	p.m.
Room1 Muse Bldg. 3F Room No.32	— — —	Sintering-1・2 ［1-6］（13:00-15:10）	Reduction with hydrogen /Cokemaking-1 [29-36]（9:00-11:50）	Cokemaking-2 /Young engineer session of coke-making-1・2 [37-47]（13:00-17:00）	Fluidized bed and shaft furnace [89-92]（10:30-11:50）	Innovative aggromerates /Reduction behavior of raw materials [93-100]（13:00-15:50）
Room2 Muse Bldg. 2F Room No.24	Fundamentals of Ironmaking ［7-9］（9:00-10:00）	（D）Reaction and flow control of solid-gas-liquid phases for designing low carbon operation of blast furnace [D1-10]（10:10-16:10）	（D） Improvement of the iron ore sintering process aiming at lowering its environmental load and energy saving [D11-21]（9:00-17:10）		Blast furnace /Young engineer session of ironmaking-1 [101-109]（9:00-12:10）	Young engineer session of ironmaking-2・3 [110-116]（13:20-15:50）
Room3 Educ. Bldg.1 4F Room No.401	The history of iron making technology in western Japan （9:50-16:30）[2,000yen]		Thermophysical properties of high-temperature materials for advanced materials processing-1・2 [48-56]（9:00-12:10）	Thermophysical properties of high-temperature materials for advanced materials processing-3・4 [57-66]（13:00-16:30）	Hot metal treatment /Converter [117-124]（9:00-11:50）	Inclusion-1・2 [125-132]（13:00-15:50）
Room4 Educ. Bldg.1 4F Room No.402	（Int.）Ancient and pre-modern production of iron and non-ferrous metals in Europe, Middle-East and Asia [Int.1-11]（9:00-17:00）		Steel refining and refractories-1・2 [67-74]（9:00-11:50）	Steel refining and refractories-3・4 /Secondary refining [75-84]（13:10-16:50）	Transport phenomena -1・2 [133-138]（9:00-11:10）	Novel processing /Introduction of research topics in novel processing forum [139-145]（13:00-15:30）
Room5 Educ. Bldg.2 1F Lecture theater	Solidification and structure control /Solidification [10-18]（9:00-12:10）	Thermodynamics-1・2・3 [19-28]（13:00-16:40）	Formation mechanism and cotrol of segregation （9:15-17:00）[Charge-free]		Conventional continuous casting-1・2・3 [146-154]（9:00-12:20）	— — —
Room6 Educ. Bldg.2 1F Room No.103	The role of material industry aiming for efficient use of steel alloying elements in automobile recycling process （9:30-16:00）[2,000yen]		— — —	CO_2 reduction [85-88]（13:10-14:30）	— — —	— — —
Room7 Educ. Bldg.2 4F Room No.403	（D） Establishment of smart iron-making system using active carbon recycling energy system technologies (iACRES) [D22-30]（8:45-12:20）	Surface modification for advanced and eco-friendly steel products （13:00-16:10）[1,000yen]	Slag utilization-1・2 [155-161]（9:00-11:30）	Pyro-metallurgy based metals separating and recycling-2 （13:00-16:40）[2,000yen]	Application of green energy-1・2 [162-170]（9:00-12:10）	— — —
Room8 Sci. Res. Bldg.2 2F Room No.26	（D） Advanced process control techniques to achieve energy-conservation and low-carbon as well as high-quality stable production [D31-33]（9:30-12:00）	（D） Advanced system integration for facilitating "systems of operators' skills" in steel works [D34-37]（13:20-16:00）	Control /System [171-176]（9:30-11:40）	Instrumentation [177-180]（13:00-14:20）	— — —	— — —
Room9 General Educ. North Annex Bldg. 4F Room No.41	Tribology /Rolling [181-187]（9:20-11:50）	Cooling-1・2 [188-195]（13:30-16:20）	Joining and bonding /Tube and pipe manufacturing processes and products [196-202]（9:20-11:50）	（D）State-of-the-art welding technologies for pipe and tube production [D38-44]（13:00-17:00）	（D）Hot stamping and related hot forming processes for the high strength steels [D45-51]（9:15-14:30）	
Room10 General Educ. North Annex Bldg. 4F Room No.42	— — —	— — —	Control technology for free cutting-6-1・2 [203-209]（9:00-11:30）	Analysis・simulation-1・2 [210-217]（14:00-16:50）	Powder metallurgy [218-221]（10:30-11:50）	— — —
Room11 Green Hall	Common bases for hydrogen embrittlement studies （9:00-17:00）[2,000yen]		Heterogeneous structure control:Towards innovative development of metallic structural materials （9:30-17:00）[Charge-free]		Recent developments of analysis techniques and future strategy for predicting microstructures and mechanical properties （9:00-16:00）[1,000yen]	
Room12 （JIM-W） Law and Lett. Bldg. 1F Room No.101	Precipitation /Precipitation・recrystallization・grain growth [222-230]（9:00-12:10）	Solute elements and microstructure /Diffusion transformation and microstructure controll [231-238]（13:30-16:20）	Ductility and toughness of high strength steels-1・2 [292-298]（9:20-11:50）	Structural steel-1・2 [299-308]（13:00-16:30）	ISIJ and JIM joint session Ultrafine grained materials– fundamental aspects for ultrafine grained structures [J25-J32]（9:00-12:00）	— — —
Room13 Law and Lett. Bldg. 1F Room No.102	— — —	— — —	Working process and heat treatment /Pearlite and cementite [309-317]（9:00-12:10）	（D）Effect of bacteria on the materials surface [D52-58]（13:00-17:00）	Hot-clip coating /Corrosion and electrochemistry [374-380]（9:00-11:30）	— — —
Room14 Law and Lett. Bldg. 2F Room No.201	Deformation behavior -1・2 [239-246]（9:00-11:50）	Mechanical property-1・2 [247-254]（13:00-15:50）	Stainless steel-1・2 [318-324]（9:20-11:50）	Stainless steel-3・4 [325-333]（13:30-16:40）	Diffusion and diffusionless transformation-1・2 [381-387]（9:00-11:30）	Diffusion and diffusionless transformation-3・4 [388-395]（13:00-15:50）
Room15 Law and Lett. Bldg.2 3F Room No.305	Super alloy [255-259]（9:50-11:30）	Ferritic heat resistant steel-1・2・3 [260-270]（13:00-17:00）	Heat resisting steel・superalloy-1・2 [334-339]（9:20-11:30）	Austenitic heat resisting steels-1・2・3 [340-350]（13:00-17:00）	Stainless steel-5・6 [396-403]（9:10-12:00）	— — —
Room16 Eng. Bldg.4 1F Room No.18	Electrical steel sheets /Surface treated steel sheets [271-275]（10:00-11:50）	Dual and TRIP steel /Strip steel [276-285]（13:30-17:00）	Hydrogen embrittlement-1 [351-354]（10:30-11:50）	Hydrogen embrittlement -2・3・4 [355-365]（13:00-17:00）	Hydrogen embrittlement -5・6 [404-409]（9:00-11:10）	— — —
Room17 Eng. Bldg.4 2F Room No.19	Fatigue [286-291]（9:00-11:00）	Microstructure and fracture properties of structural materials （13:00-17:20）[1,000yen]	Fructure-1・2 [366-373]（9:00-11:50）	Mechanisms of alloying element effects on microstructure formation in steel （13:00-17:00）[Charge-free]	— — —	Present status and trends in mathematical modeling on corrosion reactions （13:00-15:50）[1,000yen]
Room18 Sci. Res. Bldg.2 2F Room No.27	（D）Smart analytical methods and the monitoring techniques for steel-making processes, development of high performance steels and environmental managements [D59-67]（10:00-15:20） Process evaluation and material characterization board meeting （15:30-16:30）		Elemental analysis /Surface and state analysis [410-417]（9:00-11:50）	（D）New development of iron and steel process evaluation and material characterization technique by using biological index [D68-74]（13:00-16:05）	Crystal structure analysis -1・2 [418-425]（9:00-11:50）	— — —
Room19 （JIM-G） General Educ. Bldg. 3F Room No.33	— — —	— — —	— — —	ISIJ and JIM joint session Titanium and titanium alloys-1・2 [J1-J7]（14:40-17:10）	ISIJ and JIM joint session Titanium and titanium alloys-3・4・5・6・7 [J8-J24]（9:00-12:10）	
	Banquet（18:30-20:30 Ehime Pref. Convention Hall (HIMEGIN Hall)）[10,000yen]		Poster Sesson for Students（12:00-15:00 Media Hall） ISIJ Beer party（17:30-19:00 University Cafeteria）			

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

Board Meeting: Process evaluation and material characterization
Sept.17(Mon) 15:30–16:30 Room18

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

New development of iron and steel process evaluation and material characterization technique by using biological index

International Organized Sessions

Technology Change in History

2012/09/17 Lecture Room 4

Ancient and pre-modern production of iron and non-ferrous metals in Europe, Middle-East and Asia

09:00 ～ 09:05
Opening remarks Prof.E.Izawa(Kyushu Univ.)

09:05 ～ 10:15 Chairperson:Dr.Alessandra Giumlia-Mair and Prof.T.Nakanishi

09:05 ～ 09:35
Int. 1 Ancient copper production in the Gobi desert,Mongolia ・・・ 812
Ehime Univ. ○T.Sasada, The Mongolian Academy of Sciences A.Chunag

09:35 ～ 10:15
Int. 2 (Invited Lecture)Swamimalai bronze image casting:Chola traditions and changing parameters ・・・ 816
National Inst. of Advanced Studies ○S.Srinivasan

10:30 ～ 12:10 Chairperson:Prof.S.Srinivasan and Dr.M.Tanaka

10:30 ～ 11:00
Int. 3 Earthenware remains used for salt cementation of parting gold and silver at Sado in early seventeenth century Japan ・・・ 820
Kyushu Univ. ○E.Izawa・T.Nakanishi

11:00 ～ 11:40
Int. 4 (Invited Lecture)Early instances of irogane-alloys in the west:An update ・・・ 824
AGM Archeoanalisi ○Alessandra Giumlia-Mair

11:40 ～ 12:10
Int. 5 The use of *bajirome*(ferrous speiss produced from lead smelting)for casting imitated Chinese coins at the Kurosaki mint in the early seventeenth century ・・・ 828
KTR ○M.Suzuki

13:10 ～ 15:00 Chairperson:Prof.R.Tae-cheon and Prof.T.Sasada

13:10 ～ 13:50
Int. 6 (Invited Lecture)Thermomechanical processing of highly alloyed ultra high-carbon steels and high tin bronzes in ancient Indian traditions ・・・ 832
National Inst. of Advanced Studies ○S.Ranganathan

13:50 ～ 14:20
Int. 7 Various aspects of iron use in the Edo era, discovered from the excavations of the remains of city of Edo ・・・ 836
Tokyo Univ. of the Arts ○K.Mizumoto

14:20 ～ 15:00
Int. 8 (Invited Lecture)Han dynasty bloomery iron smelting at Pozui site in Guangxi province,China ・・・ 840
Guangxi Radio and TV Univ. ○H.Quansheng, Univ. of Science and Tech. Beijing L.Yanxiang, Pingnan County Museum of Guangxi G.Hai

15:15 ～ 16:55 Chairperson:Dr.H.Quansheng and Dr.E.Yamasue

15:15 ～ 15:55
Int. 9 (Invited Lecture)An experimental archeological study of the sand-iron sword in the Korean peninsula ・・・ 844
Chungnam National Univ. ○R.Tae-cheon , Kongju National Univ. C.Nam-chul・C.Hyun-kyung

15:55 ～ 16:25
Int. 10 Composition and microstructure of nonmetallic inclusions in Japanese matchlock guns fabricated in the Edo period ・・・ 848
Tokyo Univ. of the Arts ○M.Tanaka・M.Kitada

16:25 ～ 16:55
Int. 11 Building nails in the middle ages at the cloister of the Kasuga shrine in Nara ・・・ 852
Tokyo Univ. of the Arts ○S.Hiratsuka・K.Nagata, Tokyo Inst. of Tech. T.Watanabe

16:55 ～ 17:00
Concluding remarks Prof.K.Nagata(Tokyo Univ. of the Arts)

High Temperature Processes

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