

11/27(thu)

9:00 ~ 9:10	Prof.Ishii	Hokkaido Univ.	Opening and Scope lecture
Session 1 Acceleration of reduction and gasification			
9:10 ~ 9:30	Prof.Kashiwaya	Hokkaido Univ.	High Rate and Low Starting Temperature of Iron Ore Reduction by the Mechanical Milling of Hematite-Graphite Mixture.
9:30 ~ 9:50	Dr.Sasaki	Hokkaido Univ.	The Effect of Grain Boundary on the Wüstite Reduction Process
9:50 ~ 10:10	Prof.Cang	USTB	High Efficiency Blast Furnace
10:10 ~ 10:30	Prof.Hino	Tohoku Univ.	Kinetic Analysis of Iron Carburization During Smelting Reduction
10:30 ~ 10:50	Prof.Gudenau	Aachen Metallurgie E&S	Exchange and Reduction of Energy Consumption for Ironmaking and CO ₂ Problem
10:50 ~ 11:10	Break		
11:10 ~ 11:30	Prof.Iguchi	Nagoya Inst. of Tech	Mechanism of Rapid Reactions in Iron Ore-Carbon Composite Pellets Heated at High Temperatures: : Rate of Direct Reactions and Several Factors Affecting it
11:30 ~ 11:50	Prof.Sahajwalla	Univ. of NSW	Reaction Rates and Properties of Cokes during Reaction with Carbon Dioxide and Liquid Iron
11:50 ~ 12:10	Prof.Kawakami	Toyohashi Univ.of tech	Reaction Rate of Various Carbonaceous Materials with CO ₂ and Structure Evaluation of Them
12:10 ~ 12:30	Prof.Vahdati	Iran Univ.	Effect of Metallic Additions on the Milling of Hematite-Graphite Mixture.
12:30 ~ 12:50	Dr.Ishikawa	NIMS	TEM Observation of the Reduction of FeO Induced by Ion Implantation
12:50 ~ 14:20	Lunch		
Session 2 Advanced agglomeration and its properties			
14:20 ~ 14:40	Dr.Maeda	Kyushu Univ.	Formation and Physical Property of Molten Calcium Ferrite in Iron Ore Sinter
14:40 ~ 15:00	Prof.Nakashima	Kyushu Univ.	Physical Properties of Calcium Ferrite Melts
15:00 ~ 15:20	Dr.Zulli	BHP steel	Phase Interactions Within and Below the Cohesive Zone
15:20 ~ 15:40	Prof.Tsukihashi	Univ. of Tokyo	Phase Diagram for the CaO-SiO ₂ -FeOx System and Melting Behavior
15:40 ~ 16:00	Prof.Aizawa	Univ. of Tokyo	Multilevel Modeling for Stiffness and Strength Evaluation of Ores
16:00 ~ 16:20	Break		
16:20 ~ 16:40	Prof.Lu	McMaster Univ.	Partially Metallized Burden in Blast Furnace Ironmaking
16:40 ~ 17:00	Mr.Nakano	NSC	Improvement of Blast Furnace Reaction Efficiency by Controlling Temperature of Thermal Reserve Zone
17:00 ~ 17:20	Prof.Takano	Univ. of São Paulo	Physical and Chemical Behavior of Self-Reducing Agglomerates
17:20 ~ 17:40	Dr.Kasai	KSL	Development of Carbon Composite Iron Ore Hot Briquet and Basic Investigation on its Strength Enhancing Mechanism and Reducibility
17:40 ~ 18:00	Prof.Boom	Corus Research	Corus Continuous Chase to Improve Blast Furnace Ironmaking
18:00 ~ 20:00	Banquet		

11/28(fri)

Session 3 Lowering Melting Temperature of Iron with Carbon and Slag			
9:00 ~ 9:20	Prof.Nagata	Tokyo Inst. of Tech	Carburizing and Melting of Reduced iron with Solid Carbon
9:20 ~ 9:40	Prof.Seetharaman	Royal Inst. of Tech	Coke-its Properties and its Role in Blast Furnace Process
9:40 ~ 10:00	Prof.Iwase	Kyoto Univ.	A Thermodynamic Study of the Systems CaO-SiO ₂ -Al ₂ O ₃ and CaO-SiO ₂ -Al ₂ O ₃ -FeO Toward Exploring "COMPACT BLAST FURNACE"
10:00 ~ 10:20	Prof.Min	Yonsei Univ.	The Effect of Component on Viscous Behavior of Slag in Bosh and Hearth Zone.
10:20 ~ 10:40	Break		
10:40 ~ 11:00	Prof.Tanaka	Osaka Univ.	Evaluation of Viscosity of Molten Slags in Blast Furnace Operation
11:00 ~ 11:20	Prof.Usui	Osaka Univ.	Influence of Slag Composition upon the Reduction Behavior and Pore Blockade of Iron Ore Agglomerates
11:20 ~ 11:40	Prof.Hayes	Univ. of Queensland	Prediction of Phase Equilibria and Viscosities of Blast Furnace Slags using FactSage and Modified Urbain Models
11:40 ~ 12:00	Mr.Matsui	JFE	Fundamental Study on the Low Temperature Melting of Reduced Iron
12:00 ~ 12:20	Dr.K.-Tacke	AG DillingerHuetten	Reduction and Meltdown of Pellets in the ITMK3 Process
12:20 ~ 12:40	Dr.Inaba	ISIJ	Compose Data-Base for Insight into Ironmaking Process.
12:40 ~ 14:10	Lunch		
Session 4 Innovative Blast Furnace			
14:10 ~ 14:30	Dr.Nogami	Tohoku Univ.	Analysis on System Performance of Ironmaking based on Mathematical Simulation of Innovative Blast Furnace Processes
14:30 ~ 14:50	Mr.Hallin/Prof.Wikstrom	LKAB/MEFOS	Ways to Improve Blast Furnace Operation - The Use of an Experimental Blast Furnace
14:50 ~ 15:10	Mr.Murai	JFE	Combustion Behavior of Solid Fuel in Innovative Blast Furnace with Extra High Efficiency and Its Process Outline
15:10 ~ 15:30	Prof. F. Shen	Notheastern Univ.	Development and Application of Bi-segment Pulverized Coal Injection into Blast Furnace
15:30 ~ 15:50	Break		
15:50 ~ 16:10	Prof.Saxen	Abo Academi Univ.	Detection and Estimation of Dead-man Floating and Liquid Levels in the Blast Furnace Hearth
16:10 ~ 16:30	Dr.Nogami	SMI	Study on the Physical and Chemical Phenomena within Raceway.
16:30 ~ 16:50	Dr.Steiler	IRSID	Present State and Innovative Issues for Ironmaking
16:50 ~ 17:10	Prof.Kuwabara	Nagoya Univ.	Isothermal Growth of Liquid Films Around a Bonding Interface Accompanied by Mutual Diffusion
17:10 ~ 17:30	Prof.Yu	Univ. of NSW	Model Studies of Gas-Solid Flows in a Blast Furnace
17:30 ~ 17:50	Prof.Yagi	Tohoku Univ.	Closing lecture : Summary of the Project Research on a Super High Efficiency Ironmaking Process