6th Japan-Brazil Symposium on
Dust Processing-Energy-Environment in Metallurgical Industries
22-23 November 2006

PROGRAM

22 Nov (Wed)

9:00-9:15 Opening

9:15-10:45

Reduction of Self-Reducing Pellet of Chromites using Simultaneously Coke and Fe-Si as Reductants

Adolfo Pillihuaman Zambrano, Cyro Takano, Alberto Eloy Anduze Nogueira, Marcelo Breda Mourão
The University of Sao Paulo

Reduction Rate of Spherical Wüstite Transported with CH_4 Gas

Naoyuki Takeuchi, Youhei Nomura, Ko-ichiro Ohno, Takayuki Maeda, Koki Nishioka, Masakata Shimizu
Kyushu University

Behavior of Agglomerates Prepared with Mechanically Activated Iron Ore

Marcelo Breda Mourão, Olmede Celestino dos Santos Filho, Cyro Takano
The University of Sao Paulo

10:45-11:00 Coffee Break

11:00-12:00

Raw Material Flexibility in the Tecnred Process

José Henrique Noldin Jr, José Carlos D'Abreu* , Edmar Saul Marcheze, Pedro Henrique Carpinetti Costa
Tecnored , *Catholic University of Rio de Janeiro

Microwave Pig-Ironmaking

Miyuki Hayashi, Kazuhiro Nagata
Tokyo Institute of Technology

12:00-13:30 Lunch & Poster

13:30-15:00

Reduction Behavior of Hematite-Graphite-Plastics Composite

Taichi Murakami, Takumi Akiyama, Naohito Hayashi, Eiki Kasai
Tohoku University

Production of Titaniferous Slag Using Ilmenite Self-Reducing Pellets

Ailton Nascimento Silva, João Pedro Valls Tosetti, João Bastista Ferreira Neto, Flávio Beneduce Neto, Cyro Takano*, Marcelo Breda Mourão
Institute for Technological Research, * The University of Sao Paulo

Separation of Iron and Copper-Tin by Using Immiscibility of Fe-Cu-Sn-B System
Kenji Taguchi, Hideki Ono-Nakazato, Tateo Usui *
Osaka University

15:00-15:30 Coffee Break & Poster

15:30-17:00
Energy Reduction Effect of Various Scrap Melting Processes
Yutaka Ujisawa, Takaiku Yamamoto
Sumitomo Metal Industries, Ltd.

β-SiAlON Ceramics by Combustion Synthesis using Si Scraps
Ramasamy Sivakumar, Kazuhiko Aoyagi, Tomohiro Akiyama
Hokkaido University

Technical and Environmental Aspects of Tire Injection into Blast Furnace Tuyeres-Some Results
Paulo Santos Assis, Gerson de Araujo Filho
Federal University of Ouro Preto

23 Nov (Thu)

9:00-10:30
Numerical Simulation of the Raceway Channel of the Blast Furnace Operating with Two Lances of Pulverized Coals
Jose Adilson de CASTRO, Anderson W. S. BALTAZAR and Alexandre Jose da SILVA
Federal Fluminense University

Phase Equilibrium and Chemical Potentials of Iron Oxides in Iron Ore while Descending Within Blast Furnace
Masakatsu Hasegawa, Masanori Iwase
Kyoto University

Measurement of the Reactivity of Some Solid Reductants
Flavio Beneduce Neto, Joao Batista Ferreira Neto, Cyro Takano*, Marcelo Breda Mourao*
Institute for Technological Research, *The University of Sao Paulo

10:30-10:45 Coffee Break

10:45-11:45
Crystal Phases Precipitated during Solidification of Slags Based on TTT AND CCT Diagrams
Seitaro Akiyama, Pham Khanh Son, Toshiki Nakauchi, Yoshiaki Kashiwaya, Kuniyoshi Ishii
Hokkaido University

Thermoelectric Properties of $Sr_{1-x}La_xTiO_3$ for Waste Heat Recovery on Steel Works
Lihua Zhang, Tsuyoshi Tosho, Noriyuki Okinaka, Tomohiro Akiyama
Hokkaido University

11:45-12:00 Closing Remarks