

# October 9 Friday

## Room A Plenary Lecture

Session Chair: Ko-ichiro Ohno (Kyushu University)

- 09:30 - 10:10 **PL-5** **Iron Ore Sintering at Lower Temperature for Reduced Emission of CO<sub>2</sub> in Ironmaking Process**  
Sungmo Jung\*(POSTECH), Leonardo Toma Da Rocha, Sung-Wan Kim

## Room A Metallurgical Properties of Agglomerates 1

Session Chair: Masaru Matsumura (NIPPON STEEL CORPORATION)

- 10:10 - 10:30 **O-31** **Mineral Phase Distribution and Reduction Degradation Behavior of Iron Ore Sinters Investigated by Gigapixel Imaging XAFS**  
Yasuo Takeichi\*(High Energy Accelerator Research Organization), Yusei Ito, Shuta Nakao, Yasuhiro Niwa, Kanta Ono, Masao Kimura
- 10:30 - 10:50 **O-32** **Effect of Total Gas Pressure on Low Temperature Reduction Disintegration of Sinter**  
Taichi Murakami\*(Tohoku University), Shiori Nakao, Ryota Higashi
- 10:50 - 11:10 **O-33** **Reduction Rate of Sintered Fe<sub>2</sub>O<sub>3</sub>-CaO-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> Tablets at the Softening and Melting Temperatures**  
Kengo Kato\*(University of Toyama), Hideki Ono
- 11:10 - 11:30 **O-34** **Quantitative Evaluation of Sinter Reducibility under Blast Furnace Condition Using Mineral Phases Estimated by Hyperspectral Imaging**  
Ryota Higashi\*(Graduate School of Environmental Studies, Tohoku University), Daisuke Maruoka, Kenya Horita, Taichi Murakami

11:30 - 11:50 **Coffee Break**

## Room A Metallurgical Properties of Agglomerates 2

Session Chair: Osamu Ishiyama (NIPPON STEEL CORPORATION)

- 11:50 - 12:10 **O-35** **Metallurgical Characteristics of Cold-agglomerated Iron Ore Briquettes for Blast Furnace Process**  
Vinicius de Moraes Oliveira\*(Vale S.A.), Felipe Pimenta Viana, Marcus Eduardo Emrich Botelho, Valdirene Gonzaga de Resende, Fábio Rocha da Silva, Augusto Pereira De Sa, Kevin Song, Wei Wang, Zhu Deqing, Pan Jian
- 12:10 - 12:30 **O-36** **Effect of Hot Briquetted Iron Addition on Pressure Loss and Void Structure in Sinter Layers during Load Softening**  
Ryo Iwahashi\*(Graduate School of Engineering, Kyushu University), Tatsuya Kon, Ko-ichiro Ohno
- 12:30 - 12:50 **KeyNote 4** **Simulation of Cold-Agglomerated Briquettes in a Small Charcoal Blast Furnace**  
Jose Adilson Castro, Bruno Amaral Pereira, Silvio Maranhã, Michel Leite, Fabio Rocha, Vinicius de Moraes Oliveira, Fabricio Parreira, Augusto Pereira, Yuri Ferreira\*(Ferrous Technology Center, Vale S.A.)
- 12:50 - 13:10 **O-37** **Reduction Roasting of a Low – Grade Iron Ore Using Hydrogen – Containing Resources**  
Rahul Sarkar\*(IIT Kanpur), Debanjan Gain

13:10 - 13:30 **Poster Award Ceremony**

13:30 - 13:40 **Closing Address**