Foreword v

Bio-data of Dignitaries, Session xi
Chairmen and Speakers

Papers

- Sustainable Steelmaking, but How to 1
  Achieve that?'
  Peter Zonneveld,
  Danieli Corus, The Netherlands

- Innovation and Solutions for High Speed 9
  Casting in CSP® Technology
  Jens Kempken and Markus Reifferscheid
  SMS Siemag, Germany

- Introduction of CRISP – Continuous 21
  Reduced Iron Steelmaking Process – to
  the Indian Steel Industry
  F. Wheeler, Y. Gordon, I. Cameron, Sunil Kumar and
  Stephan Broek
  Hatch, Canada

- Improving Energy Efficiency and Reducing 29
  Emissions in the Steel Industry with
  Praxair's Oxy-fuel Technologies
  Pravin Mathur, Sumant Warty, William J. Mahoney
  Praxair Inc., USA; *Arup Nandi, Ritesh Nath, Arup Ghosh*
  Praxair, India

- Oxygen Steelmaking Practices in 37
  Non-Conventional EAF Operations
  Michael G. K Grant, Philippe Blostein
  Air Liquide, France; *Cody Kaufman*
  Air Liquide, USA; *Om Prakash*, Air Liquide, India

- Recent Developments and Emerging 47
  Trends in Indian Steelmaking
  Subrata Mitra and Shyamalesh Basu
  M. N. Dastur & Co., India

- The Phenomenal Growth of Steelmaking 57
  by Induction Furnaces in India
  Jitendra Singh
  Mitra Steel and Alloys, India

- Inert Gas Blanketed Induction Melting 63
  for the Production of Steel Alloys
  Terry LaSorda
  Air Liquide, USA

- Quality Requirement of Sponge Iron for 69
  Steelmaking in Induction Furnaces
  A. Rajasekaran, Senthil Kumar and P.M. Raghu
  Agni Steels, India

- Steelmaking with Direct Reduced Iron (DRI) 73
  Pellets through Induction Furnace Route
  D.S.Thakur
  Monnet Ispat & Energy Ltd., India

- Electric Arc Furnace Operation with Hot Metal 79
  and Coal-based DRI at JSPL, Raigarh, India
  Sanjeev Kumar, S. C. Srivastava and P. K. Mishra,
  Jindal Steel and Power (JSPL), Raigarh, India

- Advantages of Gas-based DRI/HBI in 83
  Quality Steelmaking
  Ravindra Borwankar
  Welspun Maxsteel Ltd., India

- Operating Results with Hot DRI Charge at 91
  Emirates Steel Industries
  Paolo Razza, ESI, Abu Dhabi *and Damiano Patrizio*
  Danieli Centro Met, Italy

- Development of Special Grades of 99
  Steel at JSW
  D. Mishra, S. Manjini, P. K. Ghorui and D. Satish Kumar
  JSW Steel, Vijaynagar, India

- Clean Steel Practices at JSPL, Raigarh 105
  – an Overview
  P. K. Mishra,. K. K. Sinha and
  N. Dharanidhar Reddy, Jindal Steel and
  Power Limited (JSPL), Raigarh, India

- Stainless Steelmaking at Newly 111
  Commissioned SMS of Salem Steel Plant
  M. K. Sardar, R. K. Nagabhushana,
  C. Thirumoothy and A. Bandyopadhyay
  Salem Steel, SAIL, India.

- Development of Free-cutting Leaded Steel 115
  in Adhunik Metaliks
  Mukesh Gupta, S. K. Verma, Sudipto Paul and
  Debasish Mazumdar
  Adhunik Metaliks, India.

- The New Micromill Danieli (MI.DA®) at 119
  CMC Steel, Arizona: an Innovative Process
  for the Most Competitive Production of
  Rebar Products
  P. Losso
  Danieli, Italy

- New Products for Improved BOF Performance .. 125
  Arunava Banerjee
  Siemens VAI, India

- Effect of Blockage of Bottom on the 133
  Performance of BOF
  Ravi Golani, Vikas Singh, S. K. Ajmani,
  Ashutosh Kumar and Debashis Das
  Tata Steel, India

- Dry Dedusting Technology for Converter 141
  Steelmaking
  Peter Puschitz, Siemens VAI, Austria *and*
  Pradip Chaudhuri, Siemens VAI, India

- Indian Steel Industry and Usage of 151
  Monolithics
  A. K. Chattopadhyaya
  TRL Krosaki Refractories Limited, India

- A Computational Approach to Designing of 155
  Oxygen Lances for BOF Steelmaking
  R. Sambasivam, S. K. Ajmani, and S. Chandra
  Tata Steel, India; *F. Durst,* FMP Technology, Germany

- Pre-treatment for Steelmaking – Benefits of 163
  Magnesium Lime Co-injection
  San Filbri and Bart van den Berg
  Danieli Corus, The Netherlands

- Sublance System: Higher Hit Rates, ... 171
  Better Availability and Real-Time Process
  Data of Temperature, Carbon and Phosphorus
  Walter Vortreffich and Willem Heijne
  Danieli Corus, The Netherlands