

**ALMAMET**

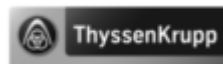
will host the

**14<sup>th</sup> INTERNATIONAL SYMPOSIUM  
ON THE DESULFURIZATION OF  
HOT METAL AND STEEL**

In Athens, September 14- 17, 2016

Partner:

ThyssenKrupp  
Industrial Solutions



# Contents

## **Transitioning Desulphurization Reagent from CaC<sub>2</sub> to Lime Carrier in South Africa**

Steven N. Biljan, Almamet GmbH, Canada.....page 3

## **Experience of Improving Desulphurization at JSW Steel Ltd**

Ravi Dashottar, Amit Sarkar, Abhijit Sarkar, S.C. Vishwanath, Ratna Prasad, India.....page 10

## **Numerical Simulation of Nitrogen Injected into a Vessel filled with Molten Iron**

Yu Weimin, Beijing Met. Equ. R&D Corp. Ltd. Of MCC group; Wang Jie, Lu Tao, College of Mech. and Electr. Engineering, Beijing University of Chemical Technology, China.....page 15

## **Development of China's Iron and Steel Industry in twenty Years and Optimization of Magnesium Metal Application in Steel Production**

Su Tian-sen, The Chinese Society for Metals, China.....page 23

## **Possibilities of Desulphurization in the New Secondary Metallurgy in the LD3 Steel Plant in Linz**

Andreas Gantner, Voestalpine Stahl GmbH, Austria.....page 36

## **Using of Mg cored wire in foundry and steel industry**

Boris Huna, Almamet GmbH Ainring, Germany.....page 42

## **Primetals Technologies – Solution for Steelmaking from the Market Leader**

Jens Kluge, Primetals Linz, Austria.....page 49

## **Development of Refractory Slag Skimmer Plates**

Kumar Subramaniam, Alfred Kremer, GSB group, Germany.....page 59

## **Graphite Electrodes, Markets and Process Management**

Gernot Macher, Almamet GmbH, Austria.....page 67

## **Dephosphorization reagent for hot metal treatment**

Robert Moger, Dunafer, Boris Huna, Almamet GmbH Ainring, Germany.....page 69

## **Thermal processing of desulfurization slags**

Christoph Pichler, Jürgen Antrekowitsch, Doppler Institut Leoben; Karl Pilz, Voestalpine Stahl GmbH, Austria.....page 73

## **Efficient Hot Metal Desulphurization Ladle**

Andreas Viertauer, RHI AG, Austria.....page 82

## **Innovating the AMC Refractory Products for the Pig Iron Area with the Introduction of Antioxidants**

Roberto Prudente, Roberto Peri, Sanac, Italy.....page 88

**Switching from Carbide to Lime in Hot Metal Pre-treatment – Tata Steel experience**

J Haribabu, Vikram Singh Shekhawat, Sneha Ranjan, Amarnath Mukherjee, Debashis Das, Sudhansu Pathak, TATA Steel, India.....page 98

**Economic Desulphurization of Hot Metal by Revamping and Process Optimization**

Lutz Kaiser, Thyssen Krupp Industrial Solutions, Germany.....page 104

**Metallurgical Improvements by Conversion from Carbide Alloys to KM115-D at Voestalpine Donawitz**

Gerald Klösch, Klaus Srienc, VA Donawitz, Gernot Macher, Almamet GmbH, Austria.....page 118