

STEEL TECH

INTERNATIONAL SEMINAR

ON

ADVANCEMENT IN TECHNOLOGY FOR PRODUCTION & PROCESSING OF STEELS: APPLICATION OF INDUSTRY 4.0.

Fourth Industrial Revolution

9TH IN THE SERIES OF ANNUAL SEMINARS ON LATEST TECHNOLOGIES



- India is now the third largest producer of steel and the demand for steel will grow rapidly because of high GDP growth and infrastructural spend.
- India has substantial reserves of iron ore and coal. Steel plants in India have diverse routes for iron and steel making.
- Technologies changing rapidly causing disruption in traditional methods and offering 'Era of Exponential Technologies' through use of Automation, Robotics, etc. which will have significant impact on raw materials requirements, process route, skilled labour, supply-chain, etc. 'Fourth Industrial Revolution' will transform the way the industry is now working for continued sustainability.
- Products to be made as per Customers' need and quality so as to maximize profits from existing steel plants. Import substitution products need to be developed.

**Wednesday
30th August, 2017**

**ITC Sonar Hotel
Kolkata, India**



Participation and Speakers from
Ministry of Steel; ABP; Danieli & C; Danieli Corus; SMS group; Primetals Technologies; Midrex; Fives; Siemens; Tata Steel; SAIL; JSPL; Tenova; Outotec; JSW Steel; M N Dastur & Co; Mecon & many more

Chief Guest: Shri Syedain Abbasi, Jt. Secretary, Ministry of Steel.

Key Note Speaker: Mr. T.V.Narendran, MD, Tata Steel
Guests of Honour from Danieli & C, Italy; Primetals Technologies, Austria and SMS group, Germany

The Seminar will provide a unique opportunity for Iron and Steel producers to interact with Steel Ministry Officials, Technology Suppliers, Designers, Operating Personnel, Researchers, Academicians and Others in the Industry involved with Iron and Steel production and processing from across the world. The latest technological developments in conventional / alternative methods of Iron and Steel production / usage as well as advanced process control techniques will be deliberated upon in this Seminar.

Contact : B P Sarkar email: info@steeltech-india.com

Do not miss this unique opportunity

Back Ground

India is currently the third largest steel producer in the world at 97 Mt per annum and poised to overtake Japan in the next two years. The Government has planned to raise steel production to 300Mt by 2030 so that per capita consumption of steel can go up from the present 60 kgs to global average of about 225 kgs. India is endowed with large reserves of rich iron ore and substantial non-coking coal. During mining of indigenous iron ore, about 60% fines are generated. With a view to substantial utilization of indigenous raw materials, stress being laid on utilization of lower grade ores, involving beneficiation and agglomeration. Large capacities for pellet making has come up recently for utilization of the fines to feed rotary kilns for making DRI as well as charging in blast furnaces. There is a good opportunity for exports also. Diverse technologies have been adopted by India's Secondary steel producers for making DRI. Midrex and other reputed companies are working in this area to offer technologies for the use of local raw materials and by-product gases to remain competitive.

Alternative routes for ironmaking (like Corex) have been adopted in many steel plants and MoUs are being considered for the use of Finex technology and ITmk3 route.

In steelmaking area, integrated steel plants are using both BF-BOF and DR-EAF routes. Secondary steel producers are primarily using Induction furnace (IF) which does not meet BIS standard. They are looking for technology to refine steel produced through IF at a competitive cost. In view of rising coking coal prices, India need to explore raising of coking coal from Jharia where vast deposits exist. High prices of coking coal have led to increased demand for high grade ore and scrap. Since India has reserves of high grade ore and can beneficiate low grades, they should be competitive and select appropriate iron & steelmaking routes. There is a technology gap for production of Advance High Strength Steels required by the burgeoning automotive industry, CRGO steel for the Power sector and high alloy steels for the defense industry. As a result, India still has to imports a substantial tonnage for these requirements.

Indian steel companies will need support in the following areas:

- Increase in blast furnace productivity and utilization of by-product gases and wastes to reduce energy intensity and emission for sustainable operations
- Technology support for production of high grade steels
- Adoption of Automation in all areas of iron & steelmaking and processing.

The Seminar will allow the delegates extensive opportunities to network with global experts on technological developments, particularly with respect to their applicability to the Indian iron and steel industry and benchmarking their operational parameters with the best in the field.

About the Event

Steel Tech has made this International Seminar in Kolkata an Annual Event that has been extremely well received by all those who participate owing to its business-like approach. The earlier Seminars, starting from 2009, covered subjects like 'Alternative Routes for Ironmaking in India', 'Ironmaking in Blast Furnaces', 'Steelmaking Technology in India' and "Innovative Technologies for Clean, Green & Automated Steel Plants : A Better Tomorrow", which attracted a large number of Indian and global participants.

In order to survive amidst challenges from cheap imports, it is imperative for the Indian steel industry to reduce cost of production by adopting latest technologies and maximize profits from the existing set up. This has led us to set the focus of this year's International Seminar on 'Advancement in Technology for Production & Processing of Steels' where technology suppliers from across the world and Indian steel producers can participate and deliberate.

This Event will be one-of-a-kind and cover:

- Technology for processing and using iron ore fines
- Production of iron at lower cost through reduction of energy intensity and CO2 emission
- Selection of Steelmaking Route and Thin Slab / Newer Casting Technologies to reduce conversion cost
- Rolling and Finishing technology for Special Steels
- Ways to enhance profitability from existing steel plants
- March towards Fourth Industrial Revolution.

About the Organiser

Steel Tech is a reputed technical journal published quarterly from Kolkata. It features technical articles involving steel technology for today and tomorrow. It has received widespread acclaim from within the industry, research as well as academic institutions. The Editorial Board of the journal consists of luminaries in the Indian steel industry, including top executives of major steel plants, well-known scientists in research organizations and academicians of repute.

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Editor & Publisher : Mr. B. P. Sarkar

Editor Incharge : Dr. Asim Kr. Ray, Technical Advisor, Lechlar (I) Pvt. Ltd. & Former GM (Quality), DSP-SAIL

Brief seminar programme

- 09.30-10.45: Address by Chief Guest, Guests of Honor & Key Note Speaker
10.45-11.15: Tea break and Net working
11.15-12.15: Panel discussion by Industry Leaders on Adoption of Advanced Technologies and Steps for Increasing Steel Demand in India
12.15-12.45: Technical Session 1: Production of Special Steels for Automobiles, Defense & Other Sectors
12.45-13.30: Technical Session 2: Recent developments in the area of Agglomeration, Direct Smelting and Blast Furnace Ironmaking.
13.30-14.30: Lunch
14.30-16.00: Technical Session 3: Recent Developments in Steelmaking, Casting & Finishing Operations
16.00-16.45: Technical Session 4: Energy and Environmental Issues
16.45-17.00: Tea Break
17.00-17.45: Automation and Digitisations in Steel Industry
17.45-18.00: Valedictory Session and Vote of Thanks
19.00-21.30: Cocktail & Networking Dinner

Participation Details

- Participation Fee : Rs. 5,000 per person for Indian participants
: Rs. 2,000 per Student participant (minimum Group size 5)
: USD 300 / Euro 250 per person for Overseas participants

You should not miss this opportunity to participate in this Event. Please register NOW.

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For booking rooms at ITC Sonar Hotel, Kolkata, India, Please contact : (91) 33

INTERNATIONAL SEMINAR ON ADVANCEMENT IN TECHNOLOGY FOR PRODUCTION & PROCESSING OF STEELS

Venue : ITC Sonar Hotel, Kolkata, India

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Mail to:
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**See Overleaf

Participants who require an Invitation Letter for procuring Visas (at their own cost and through their respective Travel Agents) are requested to write to Mr. B. P. Sarkar providing the following information:

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- Surname
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First Announcement

STEEL TECH

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**INTERNATIONAL SEMINAR
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ADVANCEMENT IN TECHNOLOGY FOR
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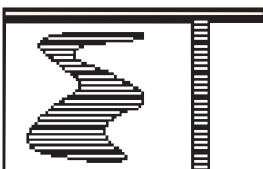
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