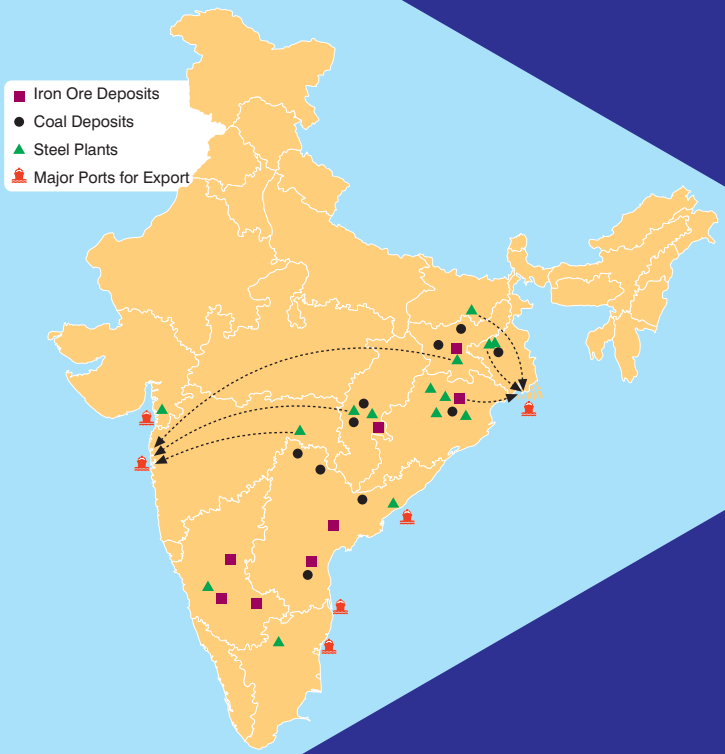
INTERNATIONAL SEMINAR

Organised by

STEEL TECH

First Announcement First Announcement First Announcement First Announcement

DEVELOPING A COMPETITIVE STEEL INDUSTRY IN INDIA: TECHNOLOGY, POLICY AND PRODUCTS



INDIA

- Population of 1.2 billion
- Current per capita consumption of steel only 57 kg.
- Huge deposit of rich iron ore and coal
- Availability of skilled manpower
- Diverse metallurgical routes for steelmaking
- Poised to be the second largest steelmaker shortly

ISRO launching **Mangalayaan** showing country's progress in science and innovation

6th in the Series of Annual Seminars

Thursday 11th September, 2014
at Taj Bengal Hotel, Kolkata, India

Participation and Speakers likely from

Siemens Ltd. | Danieli & C, Italy | Danieli Corus | SMS Siemag | Paulwurth | Tenova | Midrex | Outotec
Tata Steel | SAIL | JSPL | JSW Steel | Essar Steel | TRL Krosaki Refractories | M. N. Dastur & Co.

The Seminar will provide a unique opportunity for iron and steel producers to interact with Technology Suppliers, Designers, Operating Personnel, Researchers, Academicians and Others engaged in iron and steel production / 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.

You can not miss this unique opportunity

Back Ground

Crude steel production in India is expected to go-up from the current 81 million tonnes (Mt) to around 100-110 Mt by 2014-15. A roadmap for achieving the target of 300 Mt of steel production by 2025 is under preparation by the Ministry of Steel. This type of rapid growth in steel production is fuelled by the huge increase in demand following the socio-economic changes that are taking place in the country, particularly in rural India where the standard of living is becoming higher day-by-day.

Steel production in India utilises the rich reserves of indigenous iron ore. India also has substantial deposits of non-coking coal. During the mining of indigenous iron ore, about 60% fines are generated for the utilisation of which, many pelletising plants are being installed. In order to utilise high ash Indian non-coking coal, coal gasification is being attempted in conjunction with gas-based DRI production. Furthermore, many alternative technologies are being considered to produce hot metal using smelting reduction processes like HIsmelt , Finex and ITmk3, based on Indian non-coking coal.

Almost all steel plants in India including those using induction furnaces have adopted continuous casting. Thin slab casting and near-shape castings are becoming increasingly popular to reduce capex and operational cost. Continuous casting and rolling, endless rolling, micro / midi mill for adoption by mid-sized units are some of the latest developments in the processing area. The demand for coated strips is increasing to meet the requirements of the bludgeoning automotive and white goods industry as well as the construction sector. Automation in all the areas is of paramount importance in order to increase the productivity and adhere to strict specifications / tolerance limits that are imposed by users.

In recent years, steel plants in India have been operating in a challenging environment with rising input costs, volatile domestic iron ore supply, high logistic costs, increased domestic competition and contending with imports at lower cost from neighbouring Asian countries. Although labour costs in India are relatively low, productivity is also low. The cost of energy is very high and the energy efficiency in Indian steel plants is low compared with many developed countries. To make matters alarming, the logistic costs in India are high. At the same time, there is increasing pressure to look more closely into the environmental aspects. The cost of rehabilitation of displaced persons where land needs to be acquired for expansion of steel production has been going up very sharply.

Indian steel companies will need to focus on five areas:

- Investing in raw material security, adopting modern and flexible technologies and adding to the downstream value chain
- Capital project management
- Customer centric sales and marketing
- Building differentiated supply chains
- Securing human capital.

Despite the above constraints, the Indian steel industry is in the throes of major innovations that would ensure global competitiveness. At this critical juncture, this Seminar is being organised to discuss technological developments along with other areas in which the cost of production can be brought down. Only in this way can the profitability be increased so that Indian steel plants can cater to internal demand as well as be in a position to export.

The Seminar programme will allow the Delegates extensive opportunities to network with global experts on recent technological developments, particularly in terms of their applicability to the Indian iron and steel industry.

About the Event

Steel Tech has made the September International Seminar in Kolkata an Annual Event that has been extremely well received by all those who participated owing to its business-like approach. The 2009 Seminar was on “Alternative Routes for Ironmaking in India”; the 2010 Seminar (attended by over 280 Delegates) focused on “Ironmaking in Blast Furnaces”; the 2011 Seminar focused on ‘Steelmaking Technology in India”; the 2012 Seminar was on “Optimisation of Iron an d Steelmaking Operations.” and the 2013 Seminar, attended by the largest number of Indian and global participants was on “Technological Developments in Iron and Steel: Production to Final Processing”.

On the basis of these Seminars on different aspects of iron and steel production, it has been decided that the 2014 Steel Tech Seminar would focus on developing a competitive steel industry in India by adopting the appropriate technology and policy to make products that would be required in future in India.

Though the Govt. of India is planning huge increase in steel production, clear-cut policy in terms of land acquisition, R&R for people that would be displaced, environmental clearance, construction in forest areas, infrastructure for bulk movement of raw materials, water resources, etc. is yet to be clearly spelt out. Unless these issues are attended to, steel usage in rural areas where the per capita consumption is only 10 kg cannot be augmented. This is vital for the sustenance of the Indian steel industry. Furthermore, at present, the bulk of India's steel production comprises ordinary grades of steel. India depends on imports to cater to the demand of special steels for automobiles, construction, strategic weapons, gas pipe lines, space vehicles, etc. These sophisticated sectors have to be serviced in future in order to ensure adequate returns of the huge capital investment.

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

- **Beneficiation / Agglomeration of Iron Ore and Coal**
- **Coal Gasification Technology for DRI Production.**
- **Direct Reduction and Smelting Reduction**
- **Thin Slab and Other New Casting Technologies**
- **Rolling and Finishing of Special Steels**
- **Automation in Iron and Steel Production**
- **Government Policy and Incentives for Setting-up New Steel Plants**
- **Allocation of Captive Mines and Resources for New Steel Plants**
- **Developments of High-end Products to be Made in India**
- **Competitiveness of Steel Made in India for Export.**

Mr. Andreas Flick, Chief Technology Officer, Siemens Ltd. will be the Guest of Honour.

About the Organiser

Steel Tech is a reputed technical journal that is published four times a year from Kolkata. Steel Tech features technical articles dealing with steel technology for today and tomorrow. It has received widespread acclaim from those in 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 organisations and academicians of repute.

Editorial Board of Steel Tech

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Chief Editor:
Dr. Amit Chatterjee
Convener:
Mr. B. P. Sarkar
Ex. Chairman, IIM, Kolkata

Who Should Attend

The 2014 Seminar will be of interest to:

- Designers and operating personnel in pelletising plants, DRI production units and suppliers of consumbales to the steel industry.
- Technology providers and potential customers for utilising coal gasification.
- Technology providers in all areas of iron and steel production.
- Furnace / equipment manufacturers and suppliers of various auxiliaries to the iron and steel industry.
- Service providers in the area of automation, testing, simulation and computational techniques.
- Operating personnel from iron and steel plants.
- Environment management agencies and pollution control technologists.
- Financial institutions and all others connected with the steel industry.
- Students aspiring to serve the steel industry.

Participation Details

Participation Fee	:	Rs. 4,000 per head for Indian participants
	:	Rs. 2,000 per Student participant (minimum Group size 5)
	:	USD 300 / Euro 250 per head for Overseas participants

Register before 1st July 2014 and avail of 10% Early Bird Discount

Advertisement in Seminar Proceedings

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Exhibition Stall	:	Rs. 12,500 per sq. metre per stall (2mx2m; 3mx2m, 4mx4m, etc.) USD 300/ Euro 250 per sq. metre per stall for overseas exhibitors.
Poster Display	:	Rs. 5000 / USD 200 / Euro 150 per Poster Size of poster: 3-4 ft (height), 2-3 ft width

Payment Details

Payments are to be made in favour of "STEEL TECH".

Bank: United Bank of India, New Manicktala Branch, Kolkata-700 054, India

Account no.: 0082050022171; Swift Code: UTBIINBBOVE.

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on
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Date : 11th September, 2014

Venue : Taj Bengal Hotel, Kolkata, India

REGISTRATION FORM

Name(s)	**1.** **2.** **3.**
Designation(s)	**1.** **2.** **3.**
Email address & Mobile	**1.** **2.** **3.**
Organisation	
Status (Please tick)	**1. Indian Participant** **2. Overseas participant**

Registration Fee of Rs. / US$ / Euro ..... vide Cheque / Demand Draft No. ..... dated ..... is enclosed in favour of 'Steel Tech'/ sent to UBI, New Manicktala Branch, P-41, CIT Road, Kolkata-700 054, India (IFSC Code –UTBIONMT147, 9-DIGIT CODE No-700027099 and current account no 0082050022171; Swift Code: UTBIINBBOVE)

Date:

.....
(Signature)

Mail to:

Mr. B. P. Sarkar
BH-209, Sectot-2. Salt lake. Kolkata-700 091. India

**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:

- Name (Surname and all Given Name[s])
- Organisation
- Surname
- Given name
- Passport Number
- Address in the Passport
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- Date of Issue of Passport
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