

BRIEF REPORT ON SEMINAR ON STAINLESS STEELS, SPECIAL STEELS AND SUPER ALLOYS

Indian Institute of Metals - Delhi Chapter organised a one Full day Seminar on 'Stainless Steels, Special Steels and Super Alloys' at India International Centre, Max Mueller Marg, New Delhi on 02 April 2016. The Seminar was organised in association with ISSDA (Indian Stainless Steel Development Association) New Delhi.

At the outset, Shri K L Mehrotra Chairman Delhi Chapter welcomed the participants in the



Seminar. He gave an overview about the stainless steels industry and introduced the Speakers at the Seminar.

Shri S C Suri, immediate past Chairman of IIM-DC, spoke on various activities of Indian Institute of Metals, in general, and for Delhi Chapter, in particular. He also spoke on the basic theme of the Seminar.

Seven eminent Speakers from Stainless Steels, Special Steels and Alloys Industries made their Presentations on the topic.

Mr. N C Mathur President *Indian Stainless Steels Development Association New Delhi*, in his presentation, highlighted various activities & capabilities of ISSDA and focussed on **Growth of Stainless Steel Industry and its End Use Transformation in India**. He analysed the growth of Global, Regional and Indian Stainless steel production. He emphasised on the fact that Indian Railways will be the main growth driver for enhanced consumption of Stainless steel in India, in addition to Smart Cities and huge infrastructure expenditure. He concluded that looking at anticipated high growth rate in Indian Economy; the stainless steel consumption is expected to grow by 8 – 10% in the next 2/3 years.

Mr. Sushim Bannerjee Director General *Institute for Steel Development & Growth*,



Kolkata, in his presentation focussed on **An Overview of Stainless Steel Industry – Challenges and Prospects**. He emphasised on different attributes of Stainless Steel, grade wise consumption pattern and their projected consumption patterns. He emphasised that ABC (Architecture, Building & Construction) and ART (Automotive, Railways & Transport) are the major areas of growth for stainless steels consumption in India. He focussed on Challenges in Raw Materials Sourcing, Review of existing FTAs and careful monitoring of Indirect Imports for boosting indigenous Stainless Steel production.

Dr. D K Likhi CMD *Mishra Dhatu Nigam Ltd. Hyderabad*, in his presentation focussed on **Emerging Trends in Steel, Super Alloys and Titanium Alloys**. Dr. Likhi emphasised that though consumption of Speciality steels is < 1% of Global Steel Market, their criticality in Defence, Space and Thermal power generation can't be side-lined. He focussed on development of process and management/technology interface for new products. He described in detail Titanium Alloys – their advantages, classification, production and Applications. He also outlined development of Special Steels by MIDHANI for defence requirements.



Mr. Yatinder Suri, M D & Country Head Stainless APAC, *Outokumpu, New Delhi*, focussed on Global activities of OUTOKUMTU and spoke on **Century of Innovations in Stainless Steel**. Mr. Suri highlighted the historic development of Stainless steel from 1912 onwards; contributions and continuous developments at their Avesta plant in Finland, development of Mn based Stainless steels owing to limited availability of Ni in Global Markets, process innovations, Indian growth story, State of Art activities and contribution of Stainless steels in sustainable global development.



Mr. Deepak Vaidya Business Head (North and East) *Outokumpu, New Delhi* made a presentation on **Sustainability and Life Cycle Cost Advantage with Stainless Steel**. Mr. Vaidya traced usage of different metals in human history. He focussed on requirements of India in Clean water, fabrications, food storage etc. He highlighted usage of stainless steel for construction of bridges and as aesthetic & corrosion materials. He also mentioned about usage of Outokumpu stainless steel for elevated structures, water bridges, bus shelters, unique buildings etc.



Mr. Roshan Rampure Manager, Application Technology Centre of Voestaline Bohler Welding India Pvt. Ltd., New Delhi, made a presentation on **Welding of Stainless Steels & Duplex Steels**. Mr. Rampure highlighted the Welding technology of austenitic stainless steels, different high alloyed stick electrodes, welding of dissimilar joints, concepts of flux cored wires, recommended welding parameters, product applications, possible surface defects in stainless steel & cleaning pickling processes, etc.



Mr. Chandra Shekhar Sinha Manager, Industrial Development Services Pvt. Ltd., New Delhi, made a presentation on **Demand Availability Scenario for Stainless Steels in India** on behalf of his colleague **Mr. D P Gupta**. Mr. Sinha traced history of Stainless Steel in India, pattern of domestic production consumption & exports, series-wise applications of stainless steels and emerging demand/availability scenario.





During each presentation, there were lively question and answers interactions with the audience.

About 50 persons participated in the programme, including a few students from IIM student Chapter at Dehradun.



All Presenters were honoured with mementos by Sh. K L Mehrotra & Shri S C Suri on behalf of IIM Delhi Chapter.

Shri G I S Chauhan, Hony Jt. Secretary, proposed vote of thanks.

The programme concluded with High Tea.

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