

# XI International Seminar on Mineral Processing Technology (MPT-2010) inaugurated at NML

## Mail News Service

**Jamshedpur, Dec 15:** The IX International Seminar on Mineral Processing Technology (MPT-2010) under the aegis of Indian Institute of Mineral Engineers was inaugurated in NML Auditorium morning traditionally lighting the ceremonial lamp by the dignitaries.

Dr. S. Srikanth, Director NML and chairman organizing committee welcomed the gathering. Dr. Srikanth in his welcome address mentioned that the National Metallurgical Laboratory (NML), CSIR, Jamshedpur in collaboration with Tata Steel jointly organizing the XI International Seminar on Mineral Processing Technology (MPT-2010) during 15-17 December, 2010 as part of the Diamond Jubilee Anniversary celebrations of NML.

He further added, Minerals are non-renewable resources, contributing significantly towards the expansion of the industries and economic growth of a nation.

There are growing concerns about the depletion of good grade ores and coals at a fast rate, and more so with the rapid industrial growth in the country. This coupled with the increased energy demand and more stringent environmental regulations have put a challenging task ahead of India to sustain its impressive growth rate and its aspirations towards a developed economy.

Growth in the mining and mineral processing sector will be dictated by land, water,



energy and environment. Research and development activities should focus on the utilization of low-grade and dumped ores and development of energy efficient and environmentally friendly processes. The coals used both for metallurgical industries and thermal power generation should be beneficiated for enhanced energy efficiency and minimization of waste. Technology has to be evolved for the processing of fine particles and development of zero-discharge processes. Besides, instrumentation and process control in the plants must be incorporated to ensure efficient operation as regards quality and productivity of mineral concentrates.

This certainly requires a more innovative thinking and a strong sense of social responsibility. A concentrated and coordinated effort by the planners, plant personnel, engineers and researchers is required.

A.D. Baijal, President, IIME also added, having organized such seminar will help the mineral industries, technologist, plant operators,

and academicians by providing a common platform for exchange of knowledge. In this context he mentioned about the tremendous progress made by China with respect to design and engineering capabilities with respect to Mineral industries.

While introducing the Chief Guest, Arun Kumar Mishra, joint convener MPT mentioned about the different programme of seminar. The topics are grouped into fifteen sections namely Characterisation; Comminution and Classification; Gravity and Magnetic Separation; Flotation, Flocculation and Surface Chemistry; Modelling and Simulation; Coal Processing; Beneficiation of Iron Ore; Processing of Strategic Minerals; Processing of Industrial Minerals; Agglomeration; Hydro and Electro Processing; Bio-processing; Pyro-metallurgical-processing; Treatment of Waste and Environmental issues and Allied Topics.

More than 400 delegates have registered. These include foreign delegate representing countries like - USA,

Australia, Iran, Sweden, South Africa, Turkey, Egypt, Korea, Republic of Kazakhstan; and Indian experts, academicians, Industries from organisation like - IISc., Bangalore; IIT, Bombay; IIT, Kanpur; IIT, Kharagpur; ISM, Dhanbad; Aimil Limited, Kolkata; Central Leather Research Institute (CLRI), Chennai; Indian Institute of Chemical Technology (IICT), Hyderabad; Merck Specialties Pvt. Limited, Mumbai; Hyquip Systems Limited, Hyderabad; National Environment Engineering Research Institute (NEERI), Nagpur; National Geophysical Research Institute (NGRI), Hyderabad; Turnkey Engineers, Kolkata; National Aluminium Company Limited (NALCO), Bhubaneswar; Advanced Materials & Processes Research Institute, (AMPRI), Bhopal; Central Glass & Ceramic Research Institute (CGCRI), Kolkata; Institute of Minerals and Materials Technology (IMMT) Bhubaneswar; Gon Engineering Works, Dhanbad; Central Institute of Mining & Fuel Research (CIMFR), Dhanbad; Sabari Alloys & Metals Pvt. Limited, Tamil Nadu; Central Electronics Engineering Research Institute (CEERI) Pilani; FACOR, Orissa; MPC, New Delhi; Perkin Elmer (India) Pvt Limited, Kolkata; NETZSCH India Pvt. Limited, Kolkata; Censico International Pvt. Limited, Agra; Central Electrochemical Research Institute (CECRI), Karaikudi; Central Road Research Institute

(CRR), New Delhi; SERC, Chennai; DIEMME Filtration (CDE Asia); M.N.Dastur Co (P) Ltd, Kolkata; McNally Sayaji Eng. Ltd, Bangalore; NMDC Ltd., Hyderabad; SAIL, Bampur; Sarada Energy & Minerals Ltd, Nagpur; TRDDC, Pune; Trimex Sands Pvt. Ltd, Srikakulam; UCIL, Jaduguda and many more including students from Engineering Institute

The Chief Guest S. Machendranathan, mentioned that with the globalization our economic growth was in the rate of 8-9%, whereas our growth in steel industries was at 9-10%. Last year India ranked third (65 mt. steel) in world crude steel production, this year we are at the 4th position. However, it has been targeted for production of crude steel at 200 mt. by 2020. He emphasized to take up R&D on low grade ores, their beneficiation and use for sustainable growth. He also mentioned about prospect of non coking coal and at their utilities. He said fund may be available through Steel Development Fund Programme.

Dr. Ratnakar Singh, Secretary declared the IIME annual awards and recognitions. This year IIME felicitated three distinguished personalities for their outstanding contributions to the growth of Science & Engineering of Mineral Processing. They are - K.S. Koppiker, Former Head, Uranium and Rare Earths Extraction Division, BARC, Mumbai, J.P. Srivastava, Former Dy. Director & Head, Mineral Process-

ing Division, NML, Jamshedpur and Dr. B.K. Sahu, Former Professor, Department of Earth Sciences, IIT Bombay, Mumbai. A.D. Baijal, President IIME presented them the felicitation plaque.

This year IIME Mineral Beneficiation Awards in R&D and academic category is given jointly to K.K. Bhattacharyya, Scientist NML and Dr. B. Das, Scientist IMMT, and The coal Beneficiation Award in same category was conferred to P.S.P. Reddy, Scientist IMMT. Chief Guest S. Machendranathan, gave away the award plaques to them.

A Souvenir was brought out to mark the occasion and the proceeding volumes were released by the Chief Guest. K.K. Bhattacharyya, Convener MPT-2010 proposed the vote of thanks.

Later the Chief Guest also inaugurated the MPT-2010 exhibition organized at NML premises.

Dr. Amit Chatterjee, Tata Steel, delivered the Plenary Lecture on How the Steel Industry can get the best out of Indian coal. R. Gupta UCIL, Jaduguda, delivered on Challenges and Opportunities in Uranium Processing Industry in India. Dr. B.K. Mishra, IMMT, Bhubaneswar, spoke on Processing of Iron Ore Tailings : What are the options. Dr. P. Somasundaram, Columbia University, USA on Impact of pulp rheology on selective recovery of value minerals from ore