

Schedule
International Symposium
“Emerging Challenges for Metals and
Materials: Engineering and
Technology”
November 15, 2009, Kolkata

9:00 – 9:40: Inaugural Program

Welcome address: Dr Debashish Bhattacharjee, Convenor, International Symposium
[Director RD&T, Tata Steel Group]

Dr. Sanak Mishra, President, Indian Institute of Metals and Chairman, International
Symposium [CEO, Greenfield Projects India, ArcelorMittal India Ltd.]

Dr. Brajendra Mishra (TMS)

DVD presentation: Message from President, TMS (Ray D. Peterson): Dr. Brajendra Mishra

Dr. C. Ravindran (ASM)

Release of conference volume: Dr. Sanak Mishra

Release of book (Editor: Dr. Baldev Raj)

9:40 – 10:10:

Key Note Materials Challenges in Nuclear Energy Programmes

Lecture:

by Dr. Srikumar Banerjee, Past President of IIM and Director,
BARC

10:10 – 11:15 Technical Session I:

Session Chairman **Mr. Vijay Bhatnagar, India CEO of ArcelorMittal.**

Speakers	Affiliation	Topic
Mr. Pierre Gugliemina	Chief Technology Officer, ArcelorMittal	<i>CO₂ Breakthrough Technologies in Steel Industry</i>
Dr. C. Ravindran	Centre for Near-net-shape Processing of Materials, Ryerson University	<i>Unique Challenges in Casting Magnesium Alloys</i>
Prof. Dong Han	Central Iron and Research Institute, Beijing, China	<i>The Recent Scenario of the Chinese Steel Industry and Steel Product Technologies</i>

11:15 – 11:30: Tea Break

11:30 – 13:00: Technical Session II:

Session Chairman **Dr. Baldev Raj, Past President of IIM and Director of IGCAR**

Speakers	Affiliation	Topic
Prof. David K Matlock	Advanced Steel Processing and Products Research Centre, CSM, USA	<i>Recent Advances Leading to Improved Fatigue Performance of Automotive Steels</i>
Prof. Wolfgang Bleck	IEHK, RWTH Aachen University, Germany	<i>Status of High Performance Automotive Steels</i>
Prof. Hu-Chul Lee	Seoul National University, Seoul, Republic of Korea	<i>Challenges and Achievements of the Steel Industry in South Korea in the Past 10 Years</i>
Prof. K. A. Padmanabhan	Institute of Materials Physics, University of Muenster, Germany	<i>Increasing Severity of Deformation and Decreasing Forming Forces for Greener Technology</i>

13:00 – 14:00: Lunch Break

14:00 – 15.30: Technical Session III:

Session Chairman **Prof. Vikram Jayaram, Chairman of Department of Materials Engineering, IISc Bangalore**

Speakers	Affiliation	Topic
Prof. Rob Boom	CORUS RD&T, Ijmuiden, The Netherlands	<i>State of the Art of Modelling Ironmaking and Steelmaking Processes</i>
Prof. Chengjia Shang	University of Science and Technology, Beijing, China	<i>Development of High Performance Structural Plate Steels by China in the Last 10 Years</i>
Prof. Kazuhiro Hono	National Institute for Materials Science, Japan	<i>Towards Higher Performance Permanent Magnets for Automotive Applications</i>
Dr. John Allison	Ford Research and Advanced Engineering Ford Motor Company Dearborn, USA	<i>Integrated Computational Materials Engineering</i>

15.30 – 15.45: Tea Break

15:45 – 17:15: Technical Session IV:

Session Chairman **Dr. Dipankar Banerjee, Chief Controller of R&D (DRDO) and current Vice President of IIM**

Speakers	Affiliation	Topic
Prof. Herbert Gleiter	Institute of Nanotechnology, Research Centre, Karlsruhe, Germany	<i>Intelligent Nanomaterials</i>
Dr. Robert D Shull	National Institute of Standards and Technology, Gaithersburg	<i>The Age of New Magnetic Materials: An Effect of Nanotechnology</i>
Prof. J. Mazumder	University of Michigan, USA	<i>Challenges and Promise of Laser Materials Processing</i>
Prof. Brajendra Mishra	Metallurgical and Materials Engineering, CSM, USA	<i>Advances in Magnetron Sputtering for Superior Surface Engineering</i>

Vote of Thanks