

Programme for IREFCON 2010

3rd February 2010	
03.00 pm	Commencement of Registration – THE PORTICO
06.00 pm	<i>Preview of Exhibition</i>
06.30 pm	<i>Welcome Drinks and Snacks – CRYSTAL (East & Central)</i>
4th February 2010	
Crystal Room (East, Central & West)	
08.00 – 12.00 noon	Registration of Delegates – THE PORTICO
09.30 – 10.45 am	<i>Inaugural Session</i> (a) Welcoming of Chief Guest and Key Note Speaker (b) Lighting of Lamp (c) Welcome Address by A.K. Chattopadhyay, Chairman, IREFCON10 Organising Committee (d) Inaugural Address by S.K. Roongta, Chairman, SAIL (e) Key Note Address - <i>Challenges and Opportunities for the Refractories Industry- An Academic Perspective</i> by W.E. Lee, R. Guimaraes de Sá, Dept. of Materials, Imperial College London, & S. Zhang, Dept. of Engineering Materials, University of Sheffield (f) Vote of Thanks by K. Sarda, Deputy Chairman, IREFCON10 Organising Committee
10.45 – 11.15 am	TEA BREAK – THE TERRACE
Crystal Room (East, Central & West) (Chairman – G. Banerjee)	
11.15 – 11.45 am	Theme Lecture – <i>Steel Industry Scenario in India</i> , S. Dasgupta, M.N.Dastur & Co.
11.45 – 12.15 pm	Theme Lecture – <i>Business scenario of refractory industry</i> , M.M. Murugappan, CUMI, India
12.15 – 12.45 pm	Theme Lecture – <i>Future of refractories : Challenges and Opportunities</i> , C. Dumazeau, Vesuvius Group,
12.45 – 02.00 pm	LUNCH – THE TERRACE
	Session I Crystal East (Chairman – Chris Parr)
	Session II Crystal Central (Chairman – P.K. De)
02.00 – 02.20 pm	<i>Technical and Economic reviews of High Alumina Raw Materials for Steel Refractories</i> , A. Buhr, M. Spreij, Almatix Headquarters, Frankfurt am Main, Germany & J. Dutton, Stourbridge, United Kingdom
02.20 – 02.40 pm	<i>Repairs to BF Linings by Grouting</i> , R.N. Avis, Calderys France SAS
02.20 – 02.40 pm	<i>Role of Nanostructured Colloidal Silica on The Properties of Hydratable Alumina Bonded Refractory Castable</i> , K.P. Bera, P. Das, P.K. Das Poddar, University of Calcutta
02.20 – 02.40 pm	<i>Blast Furnace Refractory - Performance: Lining - Wear Mechanism and Solutions</i> , S. Basista; B. Huebener, H. Schult, SGL Carbon Group, Wiesbaden, Germany,
02.40 – 03.00 pm	<i>Influence of Nano TiO₂ Addition on The Properties of Direct Bonded Mag-Chrome Bricks</i> , B. Mishra, P. Mohapatra, B.K. Panda, Dalmia Institute of Scientific & Industrial Research
02.40 – 03.00 pm	<i>Taphole Clay for Blast Furnace</i> , Y. Ohtsubo, K. Yonemoto, Y. Suekawa, K. Murakami, Krosaki Harima Corpn.
03.00 – 03.20 pm	<i>Role of Nano Alumina on Thermo-Mechanical Properties of Alumina Carbon Refractories</i> , V.C. Arasu, S. Adak, A.K. Chattopadhyay, Tata Refractories Ltd.
03.00 – 03.20 pm	<i>Blast Furnace Hearth Design Evolution</i> , McN. Rory, S. Muriel, Saint-Gobain Industrial Ceramics & R. Frederic, Saint-Gobain CREE Research Centre, France
03.20 – 03.50 pm	TEA BREAK – THE TERRACE

	Session III Crystal East (Chairman –A. Buhr)	Session IV Crystal Central (Chairman – B.N. Ghosh)
03.50 – 04.10 pm	<i>New Aluminate Binders and Systems for Refractory Monolithics</i> , C. Parr, J.M. Auvray, H. Fryda, Ch. Wöhrmeyer, Kerneos SA, Paris, France	<i>Performance of Open Pots in Glass Melting Furnaces: An On Site Assessment in Firozabad Glass Cluster</i> , A.M. Ghosh, G. Sethi and N. Vasudavan, The Energy Management Institute
04.10 – 04.30 pm	<i>Investigation of TiO₂ added MgO-Al₂O₃-Cr₂O₃ refractory castables</i> , M. Sathiyakumar, A.S. Bal, S. Adak & A.K. Chattopadhyay, Tata Refractories Ltd.	<i>Supercera Ceramic Fibre Energy Efficient Insulation of Steam Turbines</i> , K.K.Mitra, Lloyd Insulations (India) Ltd.
04.30 – 04.50 pm	<i>New Coarse Tabular Aggregates for Improved Castables</i> , X. Liu, Almatiss Qingdao Ltd., Qingdao, PR China, D. P. Zacherl, Almatiss Inc. Leetsdale, Pennsylvania, USA, M. Schnabel, A. Buhr, D. Schmidtmeier, Almatiss Frankfurt/Ludwigshafen, Germany	<i>Operation and Refractory Maintenance of R/H Unit at B.S.P.</i> , S.K. Bose., S. Srivastava, Bhilai Steel Plant, SAIL
04.50 – 05.10 pm	<i>Brick or Monolithic for Cement Rotary Kiln System</i> , I.N. Chakravorty, U.C. Deveswar, Ace Calderys Ltd.	<i>Recent Developments in Vertical Double Shaft Kiln Technology for Production of Lime</i> , S. Banerjee, T. Kar, MECON Ltd.
05.10 – 05.30 pm	<i>Development of Spinel Bonded Basic Castables</i> , A.S. Bal, M. Sathiyakumar, S. Adak, A.K. Chattopadhyay, Tata Refractories Ltd.	<i>Furnace Lining Modification in Wheel & Axle Shop of Durgapur Steel Plant</i> , S. Sarkar, RDCIS & S.R. Bharadwaj, A. Bose and A.K. Ray, Durgapur Steel Plant
05.30 – 05.50 pm	<i>Effect of Indigenous High Alumina Cement on Thermomechanical Properties of the Commercial Ultra Low Cement Castables</i> , N.K. Sahu, J. Bera, Dept. of Ceramic Engineering, NIT, Rourkela & Sk. B. Mohammed, OCL India Ltd.	<i>Effect of Residual Quartz and Rate of Heating/Cooling on The Residual Change of Silica Bricks for Use in Crown of Glass Melting Furnace</i> , P. Sahu, B.K. Panda, Dalmia Institute of Scientific & Industrial Research
05.50 – 06.10 pm	<i>Effect of Calcium Aluminate Type on Placing, Mechanical Properties and Abrasion Resistance of Low Cement and Medium Cement Castables for DRI Applications</i> , G. Bhattacharya, Ch. Wöhrmeyer, S. Li and C. Parr, Kerneos, Kolkata	<i>Mullite Based Refractories for Glass Industries and Recent Advancement</i> , R. Dey, N. Thiagarajan and R. Rajagopalan, Carborundum Universal Limited, Chennai
06.10 – 07.30 pm	EXHIBITION PROGRAMME + POSTER PRESENTATION	
07.30 – 08.30 pm	CULTURAL PROGRAMME- CRYSTAL HALL	
08.30 – 10.30 pm	COCKTAIL DINNER– THE TERRACE	
5th February 2010		
	(Chairman – U.C. Deveshwar)	
09.00 – 09.30 pm	Theme Lecture – <i>Advancement of Refractories Never Stops</i> , C. Semler, USA	
09.30 – 10.00 am	Theme Lecture – <i>Refractories for BOF, EAF and Ladle</i> , G. Kunz, RHI, Austria	
10.00 – 10.30 am	Theme Lecture – <i>Latest Development of Continuous Casting Refractories</i> , H. Okumura, Krosaki Harima Corporation, Japan	
10.30 – 11.00 am	TEA BREAK – THE TERRACE	
	Session V Crystal East (Chairman – H. Schmitt)	Session VI Crystal Central (Chairman – P. Tassot)
11.00 – 11.20 noon	<i>Mixing, Granulating, Coating, Plasticizing and Slurrying in The Intensive Mixer</i> , K.J. Frey, Maschinenfabrik Gustav Eirich GmbH, Germany	<i>Silicon Carbide Refractories: India 2020</i> , A.L. Sashi Mohan

11.20 – 11.40 pm	<i>Gunning Methods for Refractory Mixes, - State-Of-The-Art</i> , C. Wolf, W. Berger, Velco- GmbH, Germany	<i>Selection of Refractories for High Efficiency 'DRI' Process</i> , A.K. Samanta, S. Satapathy, S. Adak, A.K. Chattopadhyay, Tata Refractories Ltd.
11.40 – 12.00 pm	<i>Modernisation of Hydraulic Presses: Opportunities and Limits</i> , M. Heinz, H. Schmitt, Laeis GmbH, Luxembourg	<i>Developments in The Refractory Technology of Electric Arc Furnaces in The Last Decade</i> , H. Jansen, T. Leppkes, U. Sankar, Refratechnik Steel, Germany
12.00 – 12.20 pm	<i>PHR 2500: Technical Introduction to New Refractory Presses</i> , A. Grandi, Sacmi Imola S.C., Italy	<i>Opportunity Based Repairing of Blast Furnace Hearth at Ispat – Dolvi</i> , V. Pandey, V.N. Patil , S.C. Anand, Ispat Industries
12.20 – 12.40 pm	<i>Design Considerations in Repair of Refractory Lining</i> , P. Pal, B. Sarkar, P. Saha & P.P. Lahiri, Engineers India Ltd.	<i>Development of Magnesia Alumina Zirconia Bricks for Lime Kiln</i> , B. Mishra, B.K. Panda, DISIR & N. Sahoo, S.C. Swain, J.N. Tiwari, OCL India Ltd.
12.40 – 02.00 pm	LUNCH– THE TERRACE	
	Session VII Crystal East (Chairman – S. Hanumantha Rao)	Session VIII Crystal Central (Chairman – Ajay Dasgupta)
02.00- 02.20 pm	<i>Some Way for Improving Steel Quality in Tundish</i> , P. Tassot, N. Reichert, Calderys Germany	<i>Steel Ladle Refractory Management at JSW steel</i> , V. Poyyamozi, P.K. Ghorui, S.C. Vishwanath, A. Ramesh, A.K. Sarkar, J.S.N. Raju, JSW Steels Limited, Toranagallu, Karnataka
02.20 – 02.40 pm	<i>Slide Gate Refractory Development for Aggressive Steels</i> , P.G. Desai, M.R. Snyder, A. Rezaie, Vesuvius R&D, Pittsburgh, USA	<i>Improvement of Steel Ladle Lining Life with MgO-C and Al₂O₃-MgO-C Refractories</i> , N.K. Ghosh, M.K. Kujur, P.K. Roychoudhury, S.K. Garai, L. Tiwari, RDCIS, Ranchi & S. Mukherjee, S.K. Banerjee, Rourkela Steel Plant, SAIL
02.40 – 03.00 pm	<i>Simulation of Free Surface Profile and Flow Pattern in The Mold With A View To Assess Suitable SEN Design for casting better quality of steel</i> , S.K. Shrisvastava, J. Chaudhuri, S. Sinha, IFGL Refractories Ltd. & S.K. Dash, Dept. of Mechanical Engineering, IIT, Kharagpur	<i>Development of Ladle Shroud for Longer Sequence Casting</i> , A. Sen, B. Prasad, J.K. Sahu, N. Sahoo, J.N. Tiwari, OCL India Ltd. & B. Singh, J.B. Singh, Tata Steel Ltd.
03.00 – 03.20 pm	<i>Behaviour of MgO Based Tundish Refractory Lining with Steel Making Slag</i> , N.V.S. Krishna, S. Bose, R. Adepur, A.R. Pal, Tata Steel Ltd.	<i>Effect of Spinel Addition in MgO-C Refractory for Slag Zone of Steel Ladle</i> , B.B. Nayak, National Institute of Technology, Rourkela, & R.R. Das, S. Adak, A.K. Chattopadhyay, Tata Refractories Ltd.
03.20 – 03.50 pm	TEA BREAK– THE TERRACE	
	Session IX Crystal East (Chairman – D. P. Chakraborty)	Session X Crystal Central (Chairman – S. Adak)
03.50 – 04.10 pm	<i>Microsilica in Refractory Castables - Surface Properties and Set</i> , B. Myhre, Elkem Silicon Materials, Norway	<i>Free Opening Performance in Steel Ladles and A Step Towards Achieving 100% Free Opening at SMS-I, BSL</i> , T.K. De, K. Kumar, P.K. Giri, Dr. J. Prasad, RDCIS & A. Dandapath, Bokaro Steel Plant, SAIL
04.10 – 04.30 pm	<i>Monolithic Refractories in Casting House of Blast Furnace</i> , Z. Wang, X. Cao, H. Shi, S. Wang and H. Zhang, Sinosteel Luoyang Institute of Refractories Research Co., Ltd., Luoyang, China	<i>Development of Flow Modifier to Improve Performance of Tundish</i> , U. Sengupta, N. Sahoo, J.N. Tiwari, OCL India Ltd.

04.30 – 04.50 pm	<i>Wear Resistant Castable for External Monolithic Lining of RH Snorkel</i> , Sk. B. Mohammad, N. Sahoo, J.N. Tiwari, OCL India Ltd.	<i>A Critical Evaluation of Chemical Interaction of High Calcium Treated Steels with Slide Gate Plates</i> , J. Chaudhuri, A. Bhattacharyya, S. K. Shrivastava, G. Banerjee, IFGL Refractories Ltd. & R. Sarkar, Dept. of Ceramic Engineering, National Institute of Technology, Rourkela
04.50 – 05.10 pm	<i>The Value in Use of Steel Ladle Refractories Management</i> J.J. Liefhebber S.J. van der Wal, S.J. Everstein, J.P.T.M. Brockhoff, P.G.J. Broersen Corus Strip Products Ijmuiden	<i>Choice of Refractories for AOD Vessel</i> , S. Majumdar, P. Das, S. Kundu, T.K. Saha, M.N. Dastur & Co.
05.10 – 05.30 pm	<i>High Alumina Aggregates from Sillimanite Sand: Microstructure and Thermal Shock Behaviour</i> , H.S. Tripathi, Central Glass & Ceramic Research Institute	<i>Lining Configuration & Wear Mechanisms of Dolimitic Lining in 60T AOD Converter of Alloy Steels Plant, Durgapur</i> , A. Dasgupta, S. Roy, P.K. Patel, A.K. Chattopadhyay, Tata Refractories Ltd.
05.30 – 05.50 pm	<i>Study on Suitability of Refractory Grade Magnesite Developed from Gujarat Region</i> - M.K. Haldar and A. Ghosh, Central Glass & Ceramic Research Institute	<i>Critical Issues in Steel Ladle Bottom Purging: Innovative Technical Approaches</i> , S. Sinha, S. Shrivastava, G. Banerjee, IFGL Refractories Ltd. & R. Sarkar, Dept. of Ceramic Engineering, National Institute of Technology, Rourkela
05.50 – 06.10 pm	<i>Failure Analysis of Monolithic Refractories Roof for A Rotary Hearth Furnace- An Indian Experience</i> , S. N. Laha, Natasha Ceramics & Consultancy Services, Kolkata	<i>Installation of Ladle Furnace Unit at Durgapur Steel Plant – Its Impact on Steel Ladle Refractories</i> , S. Sarkar, RDCIS & P.K. Datta, J.K. Pradhan, A. Bose, Durgapur Steel Plant & A.K. Ray, CMMG, SAIL
06.10 – 06.30 pm	N.A.	<i>Challenges for EAF Refractories at Essar Steel Ltd.</i> , A. Mandal, K.V.S. Mani and A. Basu, Essar Steel Ltd.
6th February 2010	Rang Manch (Swabhumi)	
	(Chairman – B.Myhre)	
9.30 – 10.00 am	<i>Theme Lecture – Benefits and Limitation of Additions of Nanostructured Particles in Carbon Bonded Refractories</i> , C.G. Anziris, V. Rongos, Institute of Ceramic, Glass and Construction Materials, Technische Universität Bergakademie Freiberg, Germany and S.L. Jin, Y.W. Li, The Hubei Province Key Lab of Ceramics and Refractories, Wuhan University of Science and Technology, Wuhan, China	
10.00 – 10.30 am	<i>Theme Lecture – Recent Trends in the Refractory Raw Materials: An overview in Indian context</i> , S.K. Das, Central Glass & Ceramic Research Institute	
	Session XI	
	(Chairman: N. Sahoo)	
10.30 – 10.50 am	<i>Refractories Research and Education in India</i> , P.K. Das Poddar, University of Calcutta	
10.50 – 11.10 am	<i>Refractory for Aluminium Industry</i> , J. Mukhopadhyay, Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur	
11.10 – 11.30 am	Tea Break	

11.30 –1.00 pm	<p style="text-align: center;">Panel Discussion (Refractory Industry: Future Directions of Growth) Rang Manch (Swabhumi) (Chairman – A.K. Chattopadhyay)</p> <p>Panellists</p> <ol style="list-style-type: none"> 1. Charles E. Semler, Refractory Consultant 2. Han Kelu, Magus China 3. Chris Parr, Kerneos S.A. 4. Remco De Jong, Almatris 5. Sambit Chakraborty, Avenir Consultants <p>Topics for Panel Discussion:</p> <ol style="list-style-type: none"> 1. Raw material issues of the refractory industry 2. Total Refractories Management 3. Fundamental Research: Need & Constraints 4. A Policy Framework for HRD in refractory industry 5. Integration of efforts of Large Scale & SME sector
1.00 - 1.15 pm	Awards Distribution & Vote of Thanks
1.15 - 02.00 pm	LUNCH– RANG DURBAR

The programme is subjected to last minute change.