

IREFCON 2012 Programme

1st February 2012		
15:00 hr	Registration of Delegates Commences	
17:00 hr	<i>Inauguration of IREFCON 2012 Exhibition</i>	
18:30 – 20:30 hr	<i>Welcome Drinks</i>	
2nd February 2012		
	Crystal Room (East, Central & West)	
8:00 – 12:00 hr	Registration of Delegates	
9:30 – 11:00 hr	<p align="center"><i>Inaugural Session</i></p> <ul style="list-style-type: none"> (a) Welcoming of Chief Guest and Key Note Speaker (b) Lighting of Lamp (c) Welcome Address by Arvind Jain, Chairman, IRMA (d) Welcome Address & trends in Indian Refractory Industry by A.K. Chattopadhyay, Chairman, IREFON12 Organising Committee (e) Inaugural Address by C. S. Verma, Chairman, SAIL (f) Key Note Address by Prof. V.C. Pandolfelli, Univ. Of Sao Carlos, Brazil (g) Vote of Thanks by G. Banerjee, Chairman, IREFON12 Technical Committee 	
11:00 – 11:30 hr	TEA BREAK	
	Technical Session I	
	Crystal Room (East, Central & West) (Chairman – G. Banerjee, IFGL Refractories Ltd.)	
11:30 – 12.00hr	Theme Lecture 1 – <i>Present Trends Of Refractory Usage In Japan</i> – Tsuneo Kayama, Krosaki Harima Corpn	
12:00– 12.30 hr	Theme Lecture 2 – <i>Latest Development in Novel Nitride Bonded Refractories</i> – Prof. S. Zhang, Univ. Of Sheffield	
12:30– 13:00 hr	Theme Lecture 3 - <i>Modern Blast Furnace Design & Expectations from Refractory Makers</i> - Roy, Bengal Engineering & Science University	
13:00 – 13:45 hr	LUNCH	
13:45 – 15:05 hr	Technical Session IIA Crystal East (Chairman – To be confirmed)	Technical Session IIB Crystal Central (Chairman – B. Myhre, Elkem)
13:45 – 14:05 hr	<i>New Calcium Aluminates for the Next Generation of Refractory Monolithics</i> , Chris Parr, Kerneos S.A.	<i>Assessment of High Alumina Refractories by Phase Diagram Evaluations</i> – Andus Buhr, Almatiss
14:05 – 14:25 hr	<i>Nano-Structured Refractory Castables For Alumina Calciners</i> , M. A. L. Braulio, Federal University of São Carlos	<i>Synthesis and characterisation of Al₂O₃-Cr₂O₃ refractory resistant to molten glass corrosion</i> , M. Nath, A. Ghosh, K. Banerjee & H. S. Tripathi, CSIR- Central Glass & Ceramic Research Institute and Bhaba Atomic Research Centre
14:25 – 14.45 hr	<i>Studies of Nano Materials as Sintering aids for basic Refractories</i> , B. K. Panda , P. Sahu and P. R. Rauta, Dalmia Inst. Of Scientific & Industrial Research	<i>Development of reaction sintered Zirconia-mullite aggregates for manufacture of slide gate plates</i> , D Chandra, Saikat Maitra and N Sahoo, Govt. College of Engg & Technology & Dalmia Inst. Of Scientific & Industrial Research
14:45 – 15:05 hr	<i>Sol-gel derived binary oxide coatings on graphite for application in carbon containing castables</i> , S. Sengupta, Sk. A. Ansar, S. Mukhopadhyay, Calcutta University	<i>Improve shelf-life of refractory low-cement castables by using a novel dispersant system</i> , Hong Peng, Elkem
15:05 – 15:30 hr	TEA BREAK	

15:30 – 17:50 hr	Technical Session IIIA Crystal East (Chairman- Leslie Power, Almatiss)	Technical Session IIIB Crystal Central (Chairman – Ashim Ganguly, Jindal Steel & Power)
15:30 – 15:50 hr	<i>Micro Silica Gel Bond For Explosion Proof Castables</i> , B. Myhre, Elkem S.A.	<i>Development of Refractories for DRI Kilns: A Value Proposition to Users</i> , A.K.Samanta, S.Satpathy, S.Adak, P.B.Panda & A.K.Chattopadhyay, TRL Krosaki Refractories Ltd.
15:50 – 16:10 hr	<i>QD NCC: Quick Drying No Cement Castables A Novel Non-Cementitious Mineral Bond Permitting Extreme Rapid Dry Out Of Monolithic Refractory Linings</i> , Calderys S.A.	<i>Changes In Quality Of Silica Bricks After 20 Years Of Operational Exposure In A Heating Wall Of Coke Oven Battery</i> , S. Dvorak, P-D Refractories
16:10 – 16:30 hr	<i>A new Calcium Aluminate Cement for conventional castables</i> , Goutam Bhattacharya, Chris Parr, Herve Fryda, Susan Li, Kerneos, Kolkata, India	<i>Some Aspects Of Silica Bricks For Coke Ovens</i> , B.Mishra, N.Sahoo & P.Sahu, J.N.Tiwari et al Dalmia Institute of Scientific & Industrial Research & OCL India Ltd
16:30 – 16:50 hr	<i>Substitution of Kyanite for Calcined Alumina in low cement castable</i> , Dilip Jain, Kyanite Mining, Corpn.	<i>Improvements in Blast Furnace Cast House Runner Refractories</i> , Sujat A Khan, Subir Biswas, L P Singh, Ajit D Kothari, Atanu R Pal, S K Roy, Tata Steel Limited
16:50 – 17:10 hr	<i>Andalusite Applied To Refractory Castable (main component, secondary component and bonding agent)</i> , Xiong Xiao-Yong, N. Ananthanarayana, Damrec-Imerys.	<i>Blast Furnace Stack Repair; Technology And Experience In India</i> , Giuseppe Guasto, Mohammed Hasan and Santosh Upadhyay ACE Calderys, Calderys Corporate
17:10 – 17:30 hr	<i>Polymeric Dispersants for Castable Mix Improvement</i> , Joachim v. Seyerl, BASF	<i>Erection and Commissioning Experience of Sixteen Coke oven Battery at JSW Steel Ltd – Vijaynagar Works , India.</i> Samsul Hoque , Asis Kumar Sarkar , Annam Ramesh et al, JSW
17:30 – 18:30 hr	Poster Presentation	
18:30 – 19:45 hr	Cultural Programme	
19:45 – 22:00 hr	Drinks and Dinner	
3rd February 2012 9:00 – 10:30 hr	Technical Session IV Crystal Room (East, Central & West) (Chairman – T. K Naha, JSW Steel)	
09.00-09.30 hrs	Theme Lecture 4 – <i>Importance of Tailoring Microstructure & Phase Aggregate in Refractory</i> –Prof. I. Manna, CSIR-Central Glass & Ceramic Research Institute	
09:30 – 10:00 hr	Theme Lecture 5 – <i>Refractory Selection in the Modern Steel Industry – A Holistic Approach</i> , Patrick Tassot, Calderys S.A.	
10:00 – 10:30 hr	Theme Lecture 6 – <i>Possibilities of Getting An Optimized Balanced Lining In Steel Ladles & AOD Converters</i> – Ferdinand Schuessler, RHI AG	
10:30 – 11:00 hr	TEA BREAK	
11:00 – 12:40 hr	Technical Session VA Crystal East (Chairman – P K De, M N Dastur & Co)	Technical Session VB Crystal Central (Chairman – V. Pandey, JSW Ispat)
11:00 – 11:20 hr	<i>Process Modelling & Optimization: Application in Steel Making</i> , Prof. D. Mazumdar, IIT, Kanpur	<i>Steel Making Through Coal Based DRI-BF-EAF Route And Balancing Its Refractory Management- At JSPL</i> , L.N. Deo, RN Singh, SC Shrivastava, AK Ganguly, Jindal Steel & Power Ltd
11:20 – 11:40 hr	<i>High Performance BOF Tap Hole Sleeve Optimizing The Refractory Material Design</i> - Masayuki Egami, Krosaki Harima Corpn.	<i>Development Of Sub Entry Nozzle Having High Corrosion And Erosion Resistance</i> , Anupal Sen, B.Prasad, J.K. Sahu, N.Sahoo, J.N.Tiwari, OCL India Ltd.

11:40 – 12:00 hr	<i>Refractory Lining of ladles- Concepts & influence of operational parameters</i> , Helge Jansen, Thomas Leppkes, Thomas Schemmel, V.Udayasankar, Ujjwal Sengupta & Yarra Prasad, Refractech Steel GmbH	<i>Development of twin online tundish nozzle changer for beam blank casting</i> , Shinjiro Saitoh, Krosaki Harima Corpn
12:00 – 12.20 hr	<i>Introduction Of Inclined Bottom Lining In Steel Ladle of BSL -A Value Addition In Steel Making</i> , K. Bhattacharya, S. Haldar, H. N. Kumar & K. K. Singh, Bokaro Steel Plant	<i>High performance tundish refractories for billet caster at JSPL Raigarh</i> , Sandeep Kabra, Rakesh R. Pandey, IFGL Refract. Ltd. K.K. Sinha; Ashim Ganguly and P.K. Mishra, Jindal Steel & Power Ltd.
12:20 – 12:40 hr	<i>Improving The Metal Zone Lining Life Of Steel Ladle At Tata Steel</i> , Goutam Ghosh, NVS Krishna, Subir Biswas, Atanu Ranjan Pal, Tata Steel	<i>Design Of Porous Plug Having High Purging Efficiency</i> , P. Das, Subeer Si, B. Prasad , J.K. Sahu , N. Sahoo, J.N. Tiwari, OCL India Limited
12:40 – 14:00 hr	LUNCH	
14:00- 15:40 hr	Technical Session VIA Crystal East (Chairman – Atanu Pal, Tata Steel)	Technical Session VIB Crystal Central (Chairman – H. Schmitt, Laeis)
14:00- 14:20 hr	<i>Analysis of Performance of Ceramic Cup & Carbon Hearth Lining used in Shagang 5800 M3 BF</i> - Jian Liu, Ruitu Xu, Rory McNally, Stefan Basista	<i>Processing of LC and ULC material grades in dry gunning by using the patented GUNMIX®-System – recent case studies</i> , Christian Wolf, Wilhelm Berger, VELCO - GmbH
02.20 – 02.40 hr	<i>Effect of addition of different metal powders on properties of MgO-C</i> , MK Kujur, NK Ghosh, SK Nandi, PK RayChoudhury, KN Gupta, RDCIS	<i>Robotics & Refractories: improvements in job “handling”</i> , Andrea Grandi, Sacmi Imola S.C.
14:40 – 15:00 hr	<i>The influence of antioxidants on some critical properties of magnesia-carbon refractory</i> , A. Ghosh, M. K. Haldar, H. S. Tripathi, CSIR-Central Glass & Ceramic Research Institute, Pritam Roy and A K Rama Rao, RINL	<i>Preparation of masses for isostatic pressed products for steel casting</i> , Klaus J. Frey, Eirich
15:00 – 15:20 hr	<i>Repair Technology & maintenance practice of Blast Furnace Stoves at Bhilai Steel Plant</i> , Indradip Chatterjee, M.V. Rao, A.Kumar, Bhilai Steel Plant, SAIL	<i>The Introduction of SD Series Refractory Electric Program-controlled Screw Press</i> , William Zhao, Sangde Machinery Equipment
15:20 – 15:40 hr	<i>Development of Synthetic Mag - Chrome Aggregates for Refractory Application</i> P.G. Pal, Apurba Chakrabarty, Anshul Mishra, Govt. College of Engineering & Ceramic Technology	<i>Refractory Pumping and Shotcreting</i> , Bob Harmon, Allentown Shotcrete Technology
15:40 – 16:10 hr	TEA BREAK	
16.10 – 17.10 hr	Technical Session VIIA Crystal East (Chairman – Ishwar Sahu, IISCO, SAIL)	Technical Session VIIB Crystal Central (Chairman – to be confirmed)
16:10 – 16:30 hr	<i>Trial Of High Carbon Containing Mag-Carbon Bricks At Electric Arc Furnace Hot Spot Areas</i> , D. Halder, R. K. Singh, S. Sarkar, P. K. Roychoudhury, & K. Banerjee, K. Prasad, P.K. Ghosh, RDCIS, SAIL	<i>High Performance SiC-based Refractories and The Applications in High Temperature Industries</i> , Zhigang Huang Jiandong Wang Gang Li Sinosteel Luoyang Institute of Refractories Research

16:30 – 16:50 hr	<i>Development of Chrome-Free Magnesia-Spinel Brick through in-situ Spinel Formation</i> , B. P. Padhy, R. P. Rana, A. S. Bal, S. Adak, P. B. Panda & A.K.Chattopadhyay, TRL Krosaki Refractories Ltd.	<i>A New Generation Spinel-Calcium Aluminate Refractories for Aluminum Melting/Holding Furnace</i> , R. P. Rana, A. S. Bal, B. P. Padhy, S. Adak, P. B. Panda & A. K .Chattopadhyay, TRL Krosaki Refractories Ltd.
16:50 – 17:10 hr	<i>Matrix Modification Of MgO-C With Spinel And Spinel Forming Materials To Improve Properties</i> , N. K. Ghosh, M. K. Kujur and P. K. Roy Choudhury, RDCIS, SAIL	<i>High Emissivity Coatings For Aluminum Melting Furnaces</i> , M. A. L. Braulio, Federal University of São Carlos
17.15 – 18.15 hr	Technical Session VIIIA Crystal East (Chairman –L. Tiwari, Bhilai Steel Plant, SAIL)	Technical Session VIIIB Crystal Central (Chairman –N. Sahoo, Dalmia Institute of Scientific & Industrial Research)
17:15 – 17:35 hr	<i>Improvement of SN plate material</i> , Tomohiro Tsuda, Kenji Chihara, Tomohiro Yotabun et al, TYK Refractories	<i>Sol-Gel-Aluminium Oxide Wool Contribution to Energy Savings and Environmental Protection</i> , Gernot Mevec , RATH
17:35 – 17:55 hr	<i>Characteristic Of Zro2 Refractory Raw Material And Its Application Result As Slide Gate Plate</i> , Keiichirou Akamine, Krosaki Harima Corporation	<i>Glass studio refractories: new development at CSIR-CGCRI</i> , Surajit Gupta & Swapan Kumar Das, CSIR- Central Glass & Ceramic Research Institute
17:55 – 18:15 hr	<i>Improvement in efficiency of soaking pits at BBM(BSP)</i> , S. Srivastava, P. Saha, P. Chintaiyah, Bhilai Steel Plant	<i>Refractory Lining Of FCCU at HPCL - Mittal Energy Limited</i> , Guru Gobind Singh Refinery Ltd –K K Mitra, Lloyd Insulation
4th February 2012	Technical Session IX Crystal Room (East, Central & West) (Chairman –Swapan Das, Central Glass & Ceramic Research Institute)	
9:30 – 10:00 hr	Theme Lecture 7 – <i>Nano-engineered Refractories – An Innovative Approach</i> , S. Adak, TRL Krosaki Refractories Ltd.	
10:00 – 10:30 hr	Theme Lecture 8 – <i>Raw Material Strategy for Self Sufficiency of India</i> –G. Banerjee, IFGL Refractories Ltd	
10:30 – 11:00 hr	Theme Lecture 9 – <i>Refractories Selection For Cement Industry</i> –I.N. Chakraborty, Ace Calderys Ltd.	
11:00 – 11:20 hr	Tea Break	
11:20 – 12:30 hr	Technical Session X (Chairman: R. Rajagopalan, Carborundum Universal Ltd)	
11:20 – 11:50 hr	Theme Lecture 10 – <i>Low Bio-Persistent fibres as an alternative to Refractory Ceramic Fibre high temperature insulation</i> – Robin Mottram, Thermal Ceramics Plc	
11:50 – 12:10 hr	<i>Review of Matrix aluminas for refractory Formulations</i> , A. Buhr, Almatiss Alumina	
12:10 – 12:30 hr	<i>Perspective of Refractory Education in 21st Century</i> , Prof. Saikat Maitra, Govt. College of Engg. & Ceramic Technology	
12:30 –14.00 hr	Panel Discussion (Topic: Value Creation through Refractories) (Chairman – A.K. Chattopadhyay, TRL Krosaki Refractories Ltd) Tentative Panellists: 1. Chris Parr, Kerneos SA 2. Suresh Thawani, Tata Sponge Iron Ltd. 3. Atanu Ranjan Pal, Tata Steel Ltd. 4. Kelu Han, Magus China 5. Sushim Banerjee, INSDAG 6. Abhijit Basu, Essar Steel	
14:00 - 14:10 hr	Awards Distribution & Vote of Thanks by J.N. Tiwari, Deputy Chairman, IRMA	
14:10 – 14:45 hr	LUNCH	

(Programme subjected to last minute change)