

IREFCON 2014 Programme

15th January 2014					
15:00 hr	Registration of Delegates Commences				
17:00 hr	Inauguration of IREFCON 2014 Exhibition				
18:30 – 20:30 hr	Welcome Drinks				
16th January 2014					
8:00 – 12:00 hr	Registration of Delegates				
	Crystal Room (East, Central & West)				
9:00 – 10:45 hr	<p style="text-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, IREFCON14 Organising Committee (e) Inaugural Address by Chief Guest (f) Key Note Address by C.G. Aneziris, Technical Univ. of Freiberg, Germany: <i>Functionalised Carbon Bonded Filters for Advanced Metal Melt Filtration</i> (g) Vote of Thanks by J.N. Tiwari, Deputy Chairman, IRMA 				
10:45 – 11:00 hr	TEA BREAK				
11:00 – 13:00 hr	Technical Session I Crystal Room (East, Central & West) (Chairman – G. Banerjee, IFGL Refractories)				
11:00 – 11.30 hr	Theme Lecture 1 – <i>Refractory Corrosion by Dissolution in Slag-Challenges & Trends of fundamental Research</i> – Harald Harmuth, Univ. of Leoben				
11:30– 12.00 hr	Theme Lecture 2 – <i>Quality Control of Refractories in blast furnace</i> – Adriaan Deurloo, Vasant Kumar Koppad, Danieli Corus				
12:00– 12.30 hr	Theme Lecture 3 - <i>Overview of Refractory Maintenance Methods for EAF</i> - Karl Michael Zettl, RHI AG				
12.30-13.00 hr	Theme Lecture 4 – <i>Refractories for High Quality Steel</i> – Hatsuo Taira, Krosaki Harima Corporation				
13:00 – 14:00 hr	LUNCH				
14:00 – 15:20 hr	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">Technical Session IIA Crystal East (Chairman – Leslie Power, Almatiss)</td> <td style="width: 50%; text-align: center;">Technical Session IIB Crystal Central (Chairman – Zhou Ningsheng, Henan Univ. of Science & Tech.)</td> </tr> <tr> <td style="text-align: center;">CAC and Castable</td> <td style="text-align: center;">Raw Material</td> </tr> </table>	Technical Session IIA Crystal East (Chairman – Leslie Power, Almatiss)	Technical Session IIB Crystal Central (Chairman – Zhou Ningsheng, Henan Univ. of Science & Tech.)	CAC and Castable	Raw Material
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15:00 – 15:20 hr	<i>Phase and microstructure evolution of synthesized calcium hexa aluminate: A potential corrosion resistant material for high temperature application</i> – M. Jana, S.K. Das, CSIR-Central Glass and Ceramic Research Institute	<i>Effect of zirconia (m) addition on microstructure and densification of magnesia rich magnesia-aluminate spinel derived from Indian magnesite and calcined alumina</i> - Kaberi Das et al- Govt College of Engineering & Ceramic Technology, Univ. of Calcutta
15:20 – 15:40 hr	TEA BREAK	
	Refractories Installation & Application	Blast Furnace & Coke Oven Refractories
15:40 – 17:50 hr	Technical Session IIIA Crystal East (Chairman- Swapan Das, CGCRI)	Technical Session IIIB Crystal Central (Chairman – B. Myhre, Elkem)
15:40 – 16:00 hr	<i>Castables in Indian Context</i> - I.N. Chakraborty, Calderys India Refractories Ltd.	<i>Optimisation of Blast Furnace Operation through Control of its Slag Chemistry and Mineralogy</i> – B. Mishra, DISIR
16:00 – 16:20 hr	<i>An Overview of Dry Gunning and Wet Shotcreting Application</i> - G. Bhattacharya, B. Valdelièvre, C. Wöhrmeyer & C. Parr, Kerneos India	<i>The Development and Applications of Nitride-bonded SiC Materials for CDQ Furnaces</i> - Z. Huangl, Longfei Li, Haiyang Xu, et al, State Key Laboratory of Advanced Refractories, Sinosteel Luoyang Institute of Refractories Research Co., Ltd
16:20 – 16:40 hr	<i>Effect of refractory quality on glaze formation mechanism in steel ladle metal zone</i> - S Bharati, R Kishore, S Biswas and A R Pal, Refractory Technology Group, Tata Steel Ltd.	<i>High Performance Refractory for F-BF Hot Blast Stove at Tata Steel</i> - Aman Kumar, S.A.Khan, Subir Biswas, A.R.Pal, Refractory Technology Group, Tata Steel Ltd
16:40 – 17:00 hr	<i>Development, Application and Lining Pattern of Refractory Castable in A Cement Plant Burner Pipe</i> - Gangadharan Manari, A. Praveen Kumar, Padmaja Inc	<i>Enhancement of chambers availability by regular refractory maintenance practices in Coke Dry Cooling Plant at Visakhapatnam Steel Plant</i> - G Datta, B N Singh, N T Rao, Rashtriya Ispat Nigam Ltd
17:00 – 17:20 hr	Microsilica gel-bonded self-flowing MgO based castables using a new additive package- Hong Peng & Bjørn Myhre, Elkem Silicon Materials	<i>Design Development of Mini Blast Furnace Hearth Refractory Lining with Carbonaceous Refractories</i> -B N Bera & S Mukherjee, Mecon
17:20 – 17:40 hr	<i>Sol-bonded alumina monolithic – development & improvement</i> , René von der Heyde, RHI AG Vienna, Milos Blajs, RHI AG Leoben	<i>Enhancement of Life of Blast Furnace Runner through Design of Runner Castable</i> - A. K. Samanta, Anindya Roy, et al, TRL Krosaki Refractories Limited, Y. Fujitake, Y. Suekawa et al, Krosaki Harima Corporation
17:40 – 18:30 hr	Poster Presentation	
18:30 – 19:30 hr	Cultural Programme	
19:30 – 22:00 hr	Drinks and Dinner	
17th January 2014		
9:00 – 10:30 hr	Technical Session IV Crystal Room (East, Central & West) (Chairman – N. Sahoo, DISIR)	
09.00-09.30 hrs	<i>Theme Lecture 5 – CSP Caster Tundish Refractory Practices for Longer Casting Duration</i> - Deepak Mohanty, Bhushan Power & Steel Ltd.	
09:30 – 10:00 hr	<i>Theme Lecture 6 – Quick Dry Spraycast Solutions - Optimizing Heating Up & Kiln Availability</i> , Volker Wagner, Calderys S.A.	
10:00 – 10:30 hr	<i>Theme Lecture 7 – New Glass Making Processes & Their Impact On Performances of Refractories</i> –A C Jain, Consultant-Container Glass Technology	

10:30 – 11:00 hr	TEA BREAK		
11:00 – 12:40 hr	Technical Session VA Crystal East (Chairman – H. Harmuth, Univ. of Leoben)		Technical Session VB Crystal Central (Chairman – to be decided)
	Refractories Research & Mathematical Modelling	Performance Improvement	
11:00 – 11:20 hr	<i>Considerations About The Development of Refractory Industry in China During Economic Recession</i> - Li Hongxia, Sinosteel Luoyong Institute of Refractories Research	<i>Failure Analysis of Refractories: Blink, the Power of Thinking</i> - Atanu Ranjan Pal, Tata Steel Ltd.	
11:20 – 11:40 hr	<i>Physical And Mathematical Modeling: A Tool For Better Refractory Solutions</i> , S.K. Ajmani, Tata Steel Ltd.	<i>Improvements in BOF Refractory Practices at Tata Steel Limited-</i> Tadashi Honda, Masayuki Egami, Shubhashis Paul, Ayanendu Mandal et al, Krosaki Harima Corporation	
11:40 – 12:00 hr	<i>Physical and Mathematical Modelling of Grade Intermixing Phenomena in A Single Strand Slab Casting Tundish</i> -Madhusudan Sharma, Ankit Karwa& Dipak Mazumdar, IIT Kanpur	<i>Improvement in performance of hot metal ladles through changes in operation logistics and repair/relining practices</i> - D. Mustafi, T.K. Purkait, A.Kundu, DSP, SAIL	
12:00 – 12.20 hr	<i>Mathematical modelling of slag entrainment in gas stirred ladles by LES-Ao</i> Huang, Wuhan University of Science and Technology, Harald Harmuth, Montanuniversitaet Leoben	<i>Development of Alumina Spinel Castable for Improvement in Performance of Well block and Housing Blocks for Steel Ladles –</i> P. Chintaiah, N.K. Ghosh et al, RDCIS, SAIL	
12:20 – 12:40 hr	<i>Development of CaO based refractory for AOD Converter-</i> A. Ghosh & H. S. Tripathi, CSIR-Central Glass & Ceramic Research Institute, K B Panda, J N Tiwari, Dalmia Institute of Scientific & Industrial Research	<i>New Development in Steel Making Shop Refractories for API and IF Grade steel at JSW Steel Vijaynagar Works –</i> A.K. Sarkar, A. Ramesh, JSW Steel	
12:40 – 14:00 hr	LUNCH		
14:00- 15:40 hr	Technical Session VIA Crystal East (Chairman – to be decided)	Technical Session VIB Crystal Central (Chairman –Amit Roy, DSP, SAIL)	Technical Session VIC Portico (Chairman – S. Adak, TRL Krosaki Refractories)
	Steel Plant Related Refractories	Steel Plant Related Refractories	Equipments & Business Management
14:00- 14:20 hr	<i>High Performance Taphole Clay for Blast Furnace</i> - Yuji Otsubo, Krosaki Harima Corporation & A. K. Samanta, TRL Krosaki Refractories Ltd	<i>Effect of operating parameters and quality of refractory on performance of secondary steel ladles</i> - S.K. Garai, SRU, Steel Authority of India Ltd.	<i>New Generation of Forming Technique for Refractories Shaping –SD Series Electric Statistical Process Control Screw Press</i> - TIAN Jiangtao et al, Zibo Sangde Machinery Equipment Co Ltd
02.20 – 02.40 hr	<i>Development and Application of Venturi Nozzle with Anti-clogging Material</i> - A. Kitamura, TYK Corporation	<i>High Performance Composite Sliding Nozzle-Plate</i> -Yuji Nakamoto & Satoru Fujii, Krosaki Harima Corporation	<i>Gunning Robots For The Hot Repair</i> - Christian Wolf, Velco GmbH
14:40 – 15:00 hr	<i>Labyrinth Purger- A new generation plug for smooth purging in ladle</i> - Helge Jansen, Thomas Leppkes et al Refratechnik Steel GmbH	<i>Tundish Refractory: A Holistic Approach-</i> P. Tassot, S. Agrahari, Calderys S.A.	<i>Innovative Refractory Maintenance Practices of Reheating Furnaces at Rourkela Steel Plant, SAIL</i> - R.B. Gupta, D. Ghosh, Rourkela Steel Plant (SAIL)

15:00 – 15:20 hr	<i>Development and Evaluation of Tundish Spray Coating Material for SAIL Plants</i> - Indranil Roy, N.K.Ghosh et al Research & Development Center for Iron & Steel, SAIL, S.K.Bose, SAIL Refractory Company Ltd	<i>Development of high oxidation, corrosion and erosion resistant Al₂O₃-C slide gate plates</i> - N.Sahoo, B.Mishra and R.R.Rout, DISIR, A.K.Sau & J.N.Tiwari, OCL India Ltd	<i>Introduction to Elkem Business System</i> - S. Iyer, Elkem India
TEA BREAK			
15.40 – 17.00 hr	Technical Session VIIA Crystal East (Chairman –Arup Samanta, TRL Krosaki Refractories)	Technical Session VIIB Crystal Central (Chairman – Xiaoyong Xiong, Imerys)	Technical Session VIIC Portico (Chairman – J. Soudier, Calderys)
	Kilns/Boiler Related Refractories & Equipments	Raw Materials	Research & Development
15:40 – 16:00 hr	<i>Alternate Process for Steel Making</i> - Ashim Ganguly, Jindal Steel & Power Ltd.	<i>A Comparison of different lime stabilized zirconia powders made under different production conditions</i> - Angelika Priesea, Andreas Börger, Imerys SA	<i>Development of purging plugs with high performance and long life</i> - A. Kitamura, TYK Corporation
16:00 – 16:20 hr	<i>Failure Analysis of Refractories in CFBC Boilers</i> - R.N. Das, BHEL	<i>Latest Research and Development of Sintered High Purity Oxides Raw Materials for Refractory Production</i> - LI Zhenkun (Jiangsu Jingxin High Temperature Materials), GU Huazhi (Wuhan University of Science & Technology) et al	<i>Development of Higher Life Purging Refractories for Pb grade & High Mn Low Carbon Steel</i> - S.P. Das, Asish Nayak, Subeer Si, B. Mohammed, et al OCL India Ltd.
16:20 – 16:40 hr	<i>Refractory & Its Performance In Circulating Fluid Bed Combustor – CFBC</i> , D .K. Singh, R. Chokkar, Samir Kar, R. Bhowal, I. N. Chakraborty, Calderys India Refractories Ltd.	<i>Densification and property studies of inferior grade Indian Magnesite for refractory application</i> - M.K.Haldar, Chandrima Ghosh, et al, CSIR-Central Glass & Ceramic Research Institute	<i>Novel Oxidation Resistant MgO-C Refractories</i> – S. Pratihari, S. Behera et al, National Inst. Of Technology, Rourkela
TEA BREAK			
17.10 – 18.10 hr	Panel Discussion (Topic: Optimum Performance of Refractories in Iron & Steel) (Chairman – J.N. Tiwari, OCL India Ltd.) Panellists: 1. Helge Jansen, Refratechnik Steel GmbH 2. Atanu Ranjan Pal, Tata Steel Ltd. 3. Vijay Sharma, Usha Martin Ltd 4. Ishwar Sahoo, IISCO, Steel Authority of India Ltd.		
18th January 2014			
9.30-10.50 AM	Technical Session VIII Crystal Room (East, Central & West) (Chairman – R. Rajagopalan, CUMI)		
9.30-10.00 AM	Theme Lecture 8 – <i>All Pervasive Innovations</i> – Bhaskar Bhat, Titan Industries		
10.00-10.30 AM	Theme Lecture 9 – <i>Refractory Research & Development Scenario in India</i> –Arup Ghosh, CSIR- Central Glass & Ceramic Research Institute		
10.30-10.50 AM	<i>Career Opportunities in Refractories Industry</i> - Saikat Maitra, Govt. College of Ceramic Engineering & Technology, Kolkata		
10.50-11.15 AM	Tea Break		

	Technical Session VIIIA (Chairman:A. Bhatnagar, Hindalco)	Technical Session VIIIB (Chairman: N.K. Ghosh, RDCIS, SAIL)
	Non Ferrous Industry	Castables
11.15-11.35 AM	<i>Refractories Problems & Solutions in Copper Industry</i> – B.Mishra, Dalmia Institute of Scientific & Industrial Research	<i>Effect of Fillers on the Properties of Low Cement Castable</i> , Mandvi Saxena and S.K. Pratihar, Dept. of Ceramic Engineering, National Institute of Technology, Rourkela, A.K.Samanta, S. Adak et al, TRL Krosaki Refractories Ltd.
11.35-11.55 AM	<i>Andalusite applied to Refractory Bricks for Anode Baking Furnace-</i> Xiao-Yong XIONG & Ananthanarayana N, IMERYS Refractory Minerals, Zhong-Xin WANG and Bo LU, Shenyang Aluminium Magnesium Institute, Yan-Jun JIN, Xincheng Refractory Co.	<i>Nanodimensional calcium aluminate coatings on graphite for carbon containing refractory castables</i> - S.Dutta, P.K.Maiti & S.Mukhopadhyay, Department of Chemical Technology, Univ. of Calcutta
11.55 – 12:15 hr	Break	
12:15 –13.15 hr	Panel Discussion (Topic: Refractories Solutions Through Innovations) (Chairman – A.K. Chattopadhyay, TRL Krosaki Refractories Ltd) Panellists: 1. C.G. Aneziris, Tech. Univ. of Freiberg 2. Chris Parr, Kerneos S.A. 3. Sudhansu Pathak, Tata Steel Ltd 4. Jerome Soudier, Calderys S.A.	
13:15 - 13:30 hr	Awards Distribution & Vote of Thanks by J.N. Tiwari, Deputy Chairman, IRMA	
13:30 – 14:30 hr	LUNCH	

(Programme subjected to last minute change)