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## Presentation List (Tentative)

Category	Title Author
Advances in Manufacturing, Installation and Equipment	<p><b>Study on Explosion Resistance of Dense Refractory Castables with Different Bonding Systems</b> Zhanmin Wang *, Xiying Cao, Xujing Yang, Lingyan Yu, Jianjun Chen</p> <p><b>Preparation of Masses for Isostatic Pressed Products for Steel Casting by Using the Original Eirich Preparation Technology</b> Ralf Loebe*, Stefan Vucic</p>
Basic Science	<p><b>The Compressive Strength of Sintered Alumina by Molecular Dynamics Simulation</b> Yosuke Kataoka*, Kiyoshi Goto, Hironori Ogata, Yusuke Moriyoshi</p> <p><b>Phase Formation of <math>Y_2O_3</math> Nano-size Powders through Rapid Cooling Process</b> Takamasa Ishigaki*, Sharif Abdullah Al-Mamun</p> <p><b>Rheological Behavior of Organic Binders for Blast Furnace Taphole Clay</b> Shougo Miyajima*</p> <p><b>Mechanical Properties of In-situ Calcium Hexaluminate Castables with Difference Microstructure</b> Jiraprabha Khajornboon*, Kouichiro Washijima, Takeshi Shiono</p> <p><b>Influence of Magnesium Aluminate Spinel on the Thermomechanical Properties of Alumina-Spinel Castables</b> Karina Tyrala, Jakub Ramult, Ryszard Prorok, Dominika Madej*</p> <p><b>Experimental Study and Thermodynamic Modeling of <math>Li_2O-Al_2O_3-ZrO_2</math> System</b> Xintong Du, Sun Yong Kwon, In-Ho Jung*</p> <p><b>Microstructure and Grain Growth of Mullite by Reaction Sintering of <math>\alpha</math>-Alumina with Rhyolite</b> Toru Fukuoka*, Yoshiyuki Harada, Aya Okubo, Yusuke Moriyoshi, Kenji Tamura, Yujiro Watanabe</p> <p><b>Effect of <math>K_2O</math> Addition on Formation of Tridymite Phase from Quartz</b> Tomoko Kitani*, Takayuki Sano, Takeshi Shiono</p> <p><b>Thermal Changes of Mullite Based Castable Heated in Hydrogen Atmosphere</b> Shuya Shiomi*, Nobuyuki Takeuchi, Yasuhiro Ohba</p> <p><b>Numerical Modeling of Wedge Splitting Test by Discrete Element Approach: Flat Joint Contact Model</b> Farid Asadi*, Damien Andre, Sacha Emam, Pascal Doumalin, Marc Huger</p> <p><b>Effect of Sodium Polyphosphate Addition on Alumina-Spinel Castable Expansion</b> Kosuke Ota*, Kazuya Nakabo, Shigefumi Nishida</p> <p><b>Thermodynamic Approach on Continuous Growth of Spinel between Slag and Solid <math>MgO</math> and <math>MgAl_2O_4</math></b> Cheol Min Yoon*, Dong Joon Min</p> <p><b>Aging Behaviour of Deflocculated Low Cement and Self-flow Castables - Influence of Materials, Additives and Atmospheric Conditions</b> C. J. Dileep Kumar*, Gaurav Sinha, Shushavon Sarkar, Suparna Basu, Saumen Sinha, Santanu Basak</p> <p><b>Influence of <math>Al_2O_3</math> Content on Microstructure and Mechanical Properties of <math>Al_2O_3-MgO</math> Castables</b> Kouichiro Washijima*, Kaname Hayashi, Jiraprabha Khajornboon, Takeshi Shiono</p> <p><b>Separation and Recovery of Gallium Oxide from Discarded LED Device by Thermal Reduction and Oxidation Using Spouted Bed</b> Takaya Akashi*, Yuka Sakai</p> <p><b>Microstructure and Mechanical Properties of Lightweight Magnesia Refractories Containing Porous Aggregates</b> Wen Yan*, Guiyuan Wu, Guangqiang Li, Nan Li</p> <p><b>Aluminum Phosphate Phase Changes Caused by the Exposure Environment</b> James Bennett, Anna Nakano, Jinichiro Nakano*, Hugh Thomas</p> <p><b>Real Time Morphology Changes of a Single Natural Hematite Particle during Cyclic Variations in Oxygen Partial Pressures</b> Anna Nakano, Jinichiro Nakano*, James Bennett</p> <p><b>Effect of Catalysts on Microstructure and Thermo-mechanical Properties of <math>Al_2O_3-C</math> Refractories</b> Chaofan Yin*, Xiangcheng Li, Chen Bai, Wei Gong, Pingan Chen, Boquan Zhu</p>

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Collaboration among Customers, Manufactures and Academia	<b>Earlier Sintering of High-alumina Refractory Castables by Using Alternative Calcium Sources</b> A. P. Luz*, L.B. Consoni, C. Pagliosa, V. C. Pandolfelli
	<b>Refractory without Carbon for the Production of Ultra-low Carbon Steels</b> Loise Bonfim Zaidan*, Carlos Pagliosa, Adao Adelcio Campos, Robson Arnaldo Dettogne Nascimento, Marlon Jose dos Anjos Silva, Marcio Jose Verissimo
	<b>Benefits of the Addition of a Structural Insulation Layer in the Refractory Lining of Rotary Kiln: Thermomechanical Modeling and In-plant Results</b> Dan Cole, Eric Stover, Shengli Jin, Lionel Rebouillat*
	<b>Interactions of Steel Ladle Refractories with Ladle Slags in Atmospheric and Lowered Pressures</b> Eetu-Pekka Heikkinen*, Jukka Vatanen, Miika Sihvonen, Heikki Parkka, Henna Tahtila, Riku Mattila, and Timo Fabritius
	<b>Practical Numerical Simulation and Experimental Setup for Speeding up the Drying Behavior of Calcium Aluminate Cement (CAC)-bonded Refractory Castables</b> M. H. Moreira*, A. P. Luz, T. M. Cunha, H. Lemaistre, J. M. Auvray, C. Parr, R. Ausas, V. C. Pandolfelli
	<b>Refractory Lifetime Prognosis for RH Degassers</b> Andreas Viertauer, Nikolaus Mutsam, Franz Pernkopf, Andreas Gantner, Georg Grimm, Waltraud Winkler, Gregor Lammer, Alexander Ratz, Magnus Persson
	<b>Comparison of Cement- and Hydratable Alumina-bonded Alumina-Spinel Materials for Steel Ladle Purging Plugs</b> Bin Long*
	<b>Discrete Element Modeling - A Promising Method for Refractory Application</b> M. G. G. Campos*, M. F. Santos, M. H. Moreira, R. A. Angelico, P. van Beurden, P. Put, P. Tamis, V. C. Pandolfelli, S. Sinnema
	<b>Corrosion Behavior of a Pressure Slip Casted Spider Brick During Ingot Casting</b> Nora Gerlac, Patrick Gehre*, Christos G. Aneziris, Leandro Schottler
	<b>Koblenz University of Applied Science, Department of Materials Engineering, Glass and Ceramics Launched a Praxis-integrated Bachelor-degree Programme</b> O. Krause*, B. Schwarz
	<b>New Anti-oxidation Technology for Trough and Runners Castables: Hot Adhesion Material and the Successful Results at CSN Blast-Furnace #02</b> E. Y. Sako*, W. Alves, F. P. Netto, N. Januario, D. F. Galesi, G. A. Alves, H. Fujiwara, T. Komatsu, L. A. Nascimento, P. R.
	<b>Calcium Hexaluminate Lightweight Refractory Bricks: Manufacturing, Properties, Application</b> Ph.D. Valery V. Martynenko*, Dr. Sc. Vladimir V. Primachenko, Ph.D. Nataliya M. Kaznacheyeva
Energy Saving and Insulation	<b>Development of <math>\text{Al}_2\text{O}_3</math>-CAC Refractory Macroporous Ceramics Derived from Ultrastable Foams and CAC Aqueous Suspensions</b> T. Santos Junior*, O. H. Borges, V.V.S. Machado, V.R. Salvini, C. Parr, V.C. Pandolfelli
	<b>Impact of Distinct <math>\text{Ca}^{2+}</math> Sources on the Physical Properties of Alumina-based Macroporous Refractories for Thermal Insulation at High Temperature</b> O. H. Borges*, T. Santos Jr., R. R. B. de Oliveira, V. R. Salvini, V. C. Pandolfelli
	<b>Novel Innovative High Temperature Insulating Material Damping Capacity Based on Acoustic Emission Algorithms Based on Renewable Raw Material</b> Dr. Volker Stein*, Dr. Thomas Schemmel, Dr. Petra Stein
	<b>High Temperature Ceramic Coatings for Energy Saving Applications</b> Eric Y. Sako*, Heloisa D. Orsolini, M. Moreira, V. C. Pandolfelli
	<b>High Emissivity Coatings for Basic Refractory Bricks</b> Jindaporn Juthapakdeprasert*, Wirat Lerdprom, Domingos De Sousa Meneses, Doni D. Jayaseelan, William E Lee
	<b>Improvement of High Temperature Properties of Ceramic Fiber Board Using Silica-sol Slurry with Ceramic Powders</b> Naoya Takahashi*, Shinobu Hashimoto, Yusuke Daiko, Sawao Honda, Yuji Iwamoto
	<b>Effect of a Ceramic Coating on the Heat Loss Through the Refractory Walls and on the Hot Refractory Surface Stability of a Ceramic Roller Kiln</b> R. Simmat, C. Dannert, S. Otto, V. Finke, A. Mezquita, S. Ferrer, I. Celades, L. Guaita
	<b>Eco Design of Insulating Ceramic Foams for High Temperature Application</b> V. R. Salvini*, V. C. Pandolfelli, J. A. Rodrigues, T. Santos Jr., O. H. Borges, J. R. Binoto
	<b>Reduction of Heat Loss in Steelmaking Process</b> Yoshiyuki Nakamura*, Seiji Hosohara, Akihiko Inoue, Kai Taniguchi, Katsunori Takahashi
	<b>Study on Preparation and Properties of Calcium Hexaaluminate Porous Ceramics</b> Wang Gang*, Zhang Qi, Han Jianshen, Yuan Bo, Li Hongxia
	<b>Development of Insulating Firebrick Through a Gelation Freezing Method</b> Mikako Fujii*, Ayumi Matsuoka, Yosuke Tanaka, Fumihito Ozeki, Manabu Fukushima, Yuichi Yoshizawa
	<b>Microporous Insulation Materials with High Heat Resistance</b> Takeshi Miyake*, Yasuo Shiraishi, Toshiaki Hashimoto
	<b>Characterization of Wool and Product Made by Alkaline Earth Silicate</b> Yusuke Kishigawa*, Yasuo Shiraishi, Toshiaki Hashimoto

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Energy Saving and Insulation	<b>Influence of Temperature on the Phase and Microstructural Evolutions of Mullite in a Reducing Atmosphere</b> Ruofei Xiang*, Yuanbing Li, Zhengliang Xue, Zhiyong He
	<b>Optimization of Porous Alumina Ceramic Structure and Properties Using Different Sol-treated Walnut Shells as Pore Formers</b> Shujing Li*, ZhiPeng Wei, Yuanbing Li, Ruofei Xiang, Qingye Wu
Environmental Sustainability and Recycling	<b>Recycled Raw Materials in Refractory Castables - Part 1 of 3: Water Soluble Ions from Recycled Refractory Raw Materials in Alkaline Solution</b> Johannes Kasper*, Christian Dannert, Alexandra Koch, Olaf Krause
	<b>Recycled Raw Materials in Refractory Castables - Part 2/3: Influence of Water Soluble Ions From Recycled Refractory Raw Materials on the Dispersion and Coagulation of the Matrix Suspension of CAC-Bonded Refractory Castables</b> Johannes Kasper*, Christian Dannert, Alexandra Koch, Olaf Krause
	<b>Recycled Raw Materials in Refractory Castables - Part 3/3: Influence of Water-soluble Ions from Recycled Refractory Raw Materials on the Coagulation and Hydration Velocity of CAC-bonded Refractory Castables</b> Alexandra Koch*, Olaf Krause, Johannes Kasper, Christian Dannert
High Temperature Engineering Ceramics	<b>Low Temperature Synthesis of <math>\alpha</math>-Si<sub>3</sub>N<sub>4</sub> Powders via High-energy Ball Milling Combined with Salt-assisted Nitridation</b> Li Hongxia*, Liu Guoqi, Zhang Jing, Gu Qiang
	<b>Spark Plasma Sintering of Aluminum Nitride Ceramics</b> Toshiyuki Nishimura*
	<b>Residual Strain in the Composites of Oxygen Ionic Conductors and Oxides</b> Ryosuke Kuwabara, Keiji Yashiro, Takashi Nakamura, Fumitada Iguchi*
	<b>Improvement in Corrosion Resistance of Silicon Nitride / Boron Nitride Composite Ceramics and Application to Atomizing Spray Nozzle</b> Nobuhiro Otsuka, Atsushi Makiya
	<b>3-dimensional Observation of Coarse Pore Evolution During Sintering in Alumina Ceramics</b> Satoshi Tanaka*, Tsuyoshi Hondo
	<b>Microstructure and Phase Evolution of Corundum-Spinel Based Castables Containing Nano Phases</b> Xiangcheng Li*, Hui Zhu, Pingan Chen, Chen Bai, Boquan Zhu
Industrial Refractories Applications	<b>Monolithic Basic Unshaped Materials for the Steel Industry</b> Patrick Tassot *, Thomas Schemmel
	<b>Characteristics of Zirconia Refractories for High Temperature Melting</b> AKM Aziz Ahmed*, Kouichi Ando, Takashi Hori
	<b>Countermeasure for Reduction of Boron in Cast Iron for Refractories of Channel Induction Furnaces</b> Yoshihiro Teraura*, Hiroyuki Suzuki, Atsuhito Naka, Toshikazu Nagai, Dr.Yuechu Ma
	<b>Phase Transition and Microstructural Evaluation of Aluminosilicate Refractories Used in Anode Baking Furnaces - A Case Study</b> J. P. Nayak*, B. Ghosh, A. K. Samanta, K.C. Khan, K. Tsuyuguchi, P. B. Panda, A. Patra
	<b>Improvement in Refractory Lining Life of Rotary Kiln for Iron Ore Pelletizing</b> Elias Tiburcio*, Mohammed Khan, Alexandre Loyola, Marcus Fernandis
	<b>Refractories for Fluidized Bed Alumina Calciners: Planned Selection, Testing and Implementation to Improve the Materials' Performance</b> M. A. L. Braulio*, J. R. Cunha, A. J. Maxwell, D. Whiteman, V. C. Pandolfelli
	<b>Refractory Management Program for Smelting Furnaces</b> Mitchell Henstock, Afshin Sadri*, Winnie Ying
	<b>Design of Hydratable Alumina-bonded Castables with Optimized Drying Behavior</b> A. P. Luz*, B. P. Bezerra, M. H. Moreira, V. C. Pandolfelli
New Development	<b>The Application of Ti-Max Phase in Low Carbon Refractories and Elucidating Its Related Role</b> Junfeng Chen*, Nan Li, Yaowu Wei, Shaowei Zhang
	<b>Slag Resistance of No-cement Refractory Castables</b> Hong Peng*, Jun Liu, Qinghu Wang, Bjorn Myhre, Yawei Li
	<b>Development and Application of Advanced Refractory Systems for Improved Mechanical and Corrosion Resistance</b> James G. Hemrick*
	<b>Splintered Versus Cubic Grains in High Alumina Castables - Part II: Influence of Aggregate Shapes on Thermomechanical and Microstructural Changes During the Initial Heat-up</b> Sandra Abdelouhab, Pascal Pilate*, Erwan Brochen, Christian Dannert
	<b>High Temperature Low Bio-persistence Fiber with FeO Resistance</b> Tsuyoshi Maeda*, Kenji Komatsu
	<b>Splintered Versus Cubic Grains in High Alumina Castables - Part III: Assessment of the Failure Tendency in the Wear Lining of a Modelled Steel Ladle Using the Drucker-Prager Failure Criterion</b> Erwan Brochen*, Maren Sollbach, Christian Dannert, Olaf Krause, Laura Erbar, Sandra Abdelouhab, Pascal Pilate
	<b>Assessment of a New Magnesia-based Binder Concept for Refractory Castables</b> Christoph Wohrmeyer *, Frederic Lacoue, Lauri Thomas, Magali Szepizdyn, Chris Parr

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New Development	<b>Splintered versus Cubic Grains in High Alumina Castables - Part I: Examination of the Impact of the Particle Shape on the Explosion Resistance</b> Laura Erbar*, Olaf Krause, Tobias Steffen, Erwan Brochen, Christian Dannert
	<b>Reinforcement of the Support Structure for Ceramic Fiber Blocks in a Reheat Furnace</b> Takuya Matsumoto*, Motokuni Itakusu, Hiroshi Imagawa
	<b>Towards a New Generation of Dry Vibrating Materials Dedicated to Coreless Induction Furnace : A Boron Free Solution</b> Romain Techer*, Dirk Holl, Patrick Malkmus
Raw Materials	<b>Refractory Raw Materials - Current Trends and Prospects to 2024</b> Kerry Satterthwaite*
	<b>Influence of CA<sub>2</sub> Lightweight Raw Materials on Properties of Corundum-based Castables with TiO<sub>2</sub> Additions</b> Danyang Zhang, Chunxue Li, Jianying Gao, Bruno Touzo, Wenjie Yuan*
	<b>A New Approach to Improve the Sintering of Cr<sub>2</sub>O<sub>3</sub> with a Controllable Grain Size</b> Hang Ye, Suzhe Yao, Enhui Wang, Enxia Xu, Xinmei Hou*, Kuochih Chou
	<b>Synthesis of Aluminum Silicon Carbide Particles by Using Carbonized Natural Ligneous Sources</b> Hatsuo Taira, Tomoyuki Maeda*, Tomohiro Nishikawa, Yasuhiro Hoshiyama, Shigeki Uchida
	<b>Fabrication of the Highly Porous Alumina Aggregate by High-temperature Evaporation of Na<sub>2</sub>O-B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> Glass Flux and Its Application to Castable Materials</b> Daimo Muto*, Shinobu Hashimoto, Sawao Honda, Yusuke Daiko
	<b>Effect of Preheating Temperature of Andalusite Aggregate on the Properties of Mullite-based Refractory</b> Qingfeng Wang*, Xianhui Li, Guihua Liao, Gan Shi, Huimin Liu, Xiaoyu Wang, Guotian Ye
	<b>Low Temperature Decarbonation of LimesTone under Vacuum</b> Yuki Mihashi*, Akihiko Shibuya, Tetsuo Umegaki, Yoshiyuki Kojima
	<b>Research and Application of Microcrystalline Magnesite in China's Tibet</b> Runtang Feng*, Baikuan Liu, Xiaoli Tian, Zhenxin Gao, Tianqing Li, Zhixun Li
	<b>New Alternatives in the Manufacturing of Sintered 70%-Alumina Cement</b> Andre Luis Pereira, Milli Aline Sant'Anna, Leonardo Curimbaba Ferreira*, Peter Miura Nakachima
	<b>Corrosion Modeling of the Magnesia Aggregates in Contact with Molten Slags</b> Wenxuan Zhang, Ao Huang*, Yongshun Zou, Huazhi Gu, Lvping Fu
	<b>Mullitisation and Dryout Behaviour of Sol-gel Based Bauxite and Andalusite NCCs with Sillimanite/Kyanite</b> T. Leber*, T. Tonnesen, R. Telle
	<b>Performance of a New Aluminate Binder Adapted to Dry Gunning</b> Bruno Touzo*, Simon Gao, Christoph Wohrmeyer, Chris Parr
	<b>Relationship between Chemical Composition of Synthetic Dead Burned Magnesia Used as Raw Material of Shaped Refractories and Corrosion of Shaped Bricks by Alkali Sulfate</b> Naoto Nishida*, Ikuya Umemoto, Takashi Arase, Akira Yoshida, Yuuzou Katou
	<b>Evaluation of Acheson Silicon Carbide for High Demanding Oxidation Resistance Environments</b> Felipe Semeghin*, Daniel Moreira, Vinicius Borges, Daniel Vale
	<b>The Changing Behaviors of Microstructure Morphologies According to Different Viscous Carbon Source</b> Jae-Eun Kim, Sang-Ahm Lee, Jae-II Jung*, Jens Stiegert, Christoph Jacob
Refractories for Glass and Cement Production	<b>Energy Saving Design with High Thermal Resisting and Insulating Monolithic Refractory around Glass Furnace</b> Toshiro Tanimoto*
	<b>Hybrid Spinel Technology - Basic Refractories for Cement Rotary Kiln Linings with Optimised Flexibility</b> M. Geith*, S. Jörg, R. Krischanitz
	<b>Basic Refractories Enabling Ecological Cement and Lime Production under Difficult Conditions</b> Hans-Jurgen Klischat, Holger Wirsing*
	<b>Cement-free Refractory Concretes with Balanced Thermomechanical Properties in Highly Loaded Areas of the Cement Clinker Burning Process</b> Hans-Jurgen Klischat, Kai Beimdiek*
	<b>Improvement of Magnesia-Spinel Bricks in Each Zone of Cement Rotary Kiln</b> Tsuyoshi Suwa, Yoshihiro Toda, Koichi Igabo, Tamiatsu Koyake
	<b>Effect of Minor Components on the Properties of Magnesia-Spinel Brick for Cement Rotary Kilns</b> Hitoshi Toda, Mikako Fujii, Makoto Ohno,
	<b>Influence of Glassy Phase Composition on Glass Exudation of AZS Fused Cast Refractories</b> Kuniyuki Yanagawa*, Toshiro Tanimoto, Kenji Matano
	<b>Formation of Bubbles at the Interface between Borosilicate Glass and Dense Zircon Refractory</b> Hiroki Akahane*, Takeshi Shiono
	<b>Bonded High-zirconia Refractories for Glass</b> M. D. Patil*, M. J. Dejneca, J. S. Sutherl, A. Zellet-Lukaso

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Refractories for Iron and Steel Making - BOF	<b>Improvement of Tolerance of Converter by Improving Material of MHP</b> Hideya Masaki*, Satoru Shimizu , Atsuhisa Iida
	<b>Investigation of MHP Wear Pattern and Advanced MHP Refractory for BOF</b> Gaku Shimada*, Masayoshi Kakihara, Ryoma Fujiyoshi, Hiroki Yoshioka, and Atsuhisa Iida
	<b>Technical Follow-up of BOF MgO-C Supplies: Quality Controls of Refractories and Analysis of Process Parameters</b> Tiphaine Cordonnier*, Valerie Blaise, Guillaume Brosse
	<b>Reduction of Refractory Repair Materials Used in the BOF Converter</b> Shigeto Sawai*, Koji Yamada, Yasuhiro Yamada
	<b>Improved Mechanical Properties and Thermal Shock Resistance of Low Carbon MgO-C Refractories via the Catalytic Formation of Nanocarbons and Ceramic Bonding Phases</b> Tianbin Zhu*, Yawei Li, Shaobai Sang
	<b>MgO-C Bricks for BOF's: Challenges from the Past and Perspectives for the Future</b> Carlos Pagliosa*, Tom Vert
	<b>Development of Innovative Basic Gunning Mixes and Methods to Determine Their Practical Performance</b> Ronald Lanzenberger*, David Wappel, RHI Magnesita GmbH, Technology Center Leoben, Austria
	<b>Improvement of MgO-C Bricks for the Charging Sidewall of the BOF in Kashima Steel Works</b> Kensuke Kato*, Satoru Ito
	<b>Development of Taphole Clay with New Generation Resin Binder</b> Yuji Otsubo*, Yoshinobu Ushijima, Koji Yonemoto, Yutaka Kitazawa
	<b>Application of Silica-Sol for Trough Castables Containing Spinel</b> Ryuuke Funakoshi*, Yasuhiro Oba
Refractories for Iron and Steel Making - Coke Ovens and Blast Furnace	<b>The Roles of Matrix Aluminas on the Properties of Blast Furnace Trough Castables</b> A. K. Samanta*, R. Swain, A. Tripathi, T. Matsunaga, K. Tsuyuguchi, P. B. Panda, Shankha Chatterjee
	<b>Behavior of Fe-Si<sub>3</sub>N<sub>4</sub> in Taphole Mix Texture after Long-time Heating</b> Yuga Yamamoto*, Daisuke Tanaka, Tatsuya Kageyama
	<b>Influence of Carbon Raw Materials on Characteristics of Blast Furnace Trough Slag Line Castable after Thermal Cycle</b> Tsuneyuki Iikumi*, Daisuke Tanaka, Masatsugu Kitamura
	<b>High Performance Tap Hole Clay - A Key for Blast-furnace Hearth Protection and a Tool for Cost Reduction</b> E. Y. Sako*, D. C. F. Hespanhol, A. M. Souza, N. Januario, D. F. Galesi, D. Tanaka, T. Kageyama
	<b>Effort to Prevent Cracks by Changing the Runner Structure at the Tip of Iron Runner</b> Tatsuya Nakagawa*, Toshio Komatsu
	<b>Enhancing Thermal Conductivity of Anthracite-based Carbon Blocks for Blast Furnace</b> Yawei Li*, Tongsheng Wang, Shaobai Sang
	<b>Use of High Durability Carbon Blocks for Blast Furnace Bottom Lining</b> Shohsei Miyamoto*, Keisuke Hatakeyama, Michio Nitta
	<b>Investigation of Main Trough ML Castable Wear Rate under Different Temperature Conditions</b> Yoshihisa Morimoto*, Kosuke Yasuo
	<b>Newly Developed Low Cement and Cement-free Castables Based on Silica</b> Lucie Kersnerova*, Karel Lang, Stanislav Dvorak
	<b>The Influence of Crystallisation on Thermal Shock Behaviour of a Fused Silica Refractory Castable Concrete</b> Vahid Tadaion*, Kirill Andreev, Thorsten Tonnesen, Rainer Telle

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	<b>Performance Optimization of Torpedo Ladles Through Innovative Product Development and Design</b> Prof. Dr. Helge Jansen, Dr. Thomas Schemmel*, Dr. Ujjwal Sengupta
	<b>Improvement of the Lance Refractories for Desiliconization of Molten Iron in Torpedo Cars</b> Masato Shiokawa*, Kunihiko Watanabe
	<b>Improvement of Steel Productivity in Consolidating Upstream Processes Into Kakogawa Works</b> Koichiro Takeno*, Kazumasa Adachi, Hitoshi Sawada, Norio Sakaguchi, Atsuhiko Yoshida
	<b>Improvements of Hot Metal Ladle Refractory Material and Design in Order to Reduce Specific Consumption, Increase Ladle Availability and Reduce Operational Cost</b> Daniele Fonseca de Lima*, Sandro Souza Santos, Odair Jose Kirmse, Camila B Albani, Katia C F
	<b>On the Thermal Management of Torpedo Ladle Car Logistics at Tata Steel in Ijmuiden</b> Paul van Beurden*, Joeri Liefhebber, Peter Sentveld, Frank Kerkhoven
Refractories for Iron and Steel Making - Ladle and Secondary Refining	<b>Vibrational Determination of Gas Purging Regime and Efficiency in a Water Model and Validation by a High-speed Camera</b> Bernd Trummer*, Christian Manhart, Wolfgang Fellner
	<b>Indigenously Developed Mag Dolo Refractory for Steel Ladles as an Alternate to Imported Mag-C - A Risk Mitigation Strategy</b> Kshitish Kumar Jena, Amit Banerjee, Navneet Sinha, Brijender Singh*, Subir Biswas, Sudhansu Pathak
	<b>Global and Indian Perspectives of Alumina-Spinel Lining Concepts in a Steel Ladle</b> Andreas Buhr*
	<b>Development of New Optimized Material for Lower Vessel of RH Degasser</b> Hisashi Tomiya*, Koichi Igabo, Kentaro Hirayama
	<b>Improvement in Steel Ladle Life at LD# Shop 1...Hitting a Century</b> Navneet Sinha*, Sudhansu Pathak, Brijender Singh, Rajeev Ranjan, Amit Banerjee
	<b>Melting Phase Formation in MgO-CMA-C and Their Impact on Protective Slag Layer Formation for Steel Ladle Application</b> Patrick Gehre*, Theresia Preisker, Stefan Guhl, Nora Brachhold, Gert Schmidt, Christos G. Aneziris, Christoph Wohrmeyer, Christopher Parr
	<b>Influence of Submicron-Size <math>\alpha</math>-Al<sub>2</sub>O<sub>3</sub> Powders on Slag Resistance of Corundum-Spinel Bricks in Ladle Metal Zone</b> Tianqing Li, Qixiu Zuo, Jie Gao, Houxing Zhang, Baikuan Liu
	<b>Study on Corrosion Mechanism of Spinel-containing Alumina Castables with Different Types of Slag</b> Dominika Madej*, Klaudia Wisniewska, Jakub Ramult, Karina Tyrala, Ryszard Prorok
	<b>Development of Burnt Alumina-Magnesia-Spinel Brick for Steel Ladle Lining</b> S.K.Hazra*, Avishek Mitra, Birendra Prasad, Ingo Gruber, Shankha Chatterjee
	<b>Development of Injection Lance in BOF Slag Modification Technique</b> Jyun Yi Wu*, Li-Te William Chao
	<b>Evaluation of Reduction Resistant Magnesia Chrome Bricks</b> Kenji Tamaki*, Kiyoshi Goto, Katsumi Morikawa
	<b>Matrix Engineered ULC High Alumina-Spinel Castable Developments for Steelmaking Applications</b> Vladnilson Peter S. Ramos*, Eric Y. Sako, Silvio C. Frasson, Douglas F. Galesi, Haysler A. A. Lima
	<b>Bonding Mechanisms of Basic Refractories for RH Snorkels</b> Zongqi Guo*, Ying Ma
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