

May 25th / Monday

ANTÔNIO ERMÍRIO DE MORAES AUDITORIUM

ALUMÍNIO ROOM

	TECHNICAL SESSION: ELECTRIC STEELMAKING	TECHNICAL SESSION: SOLIDIFICATION / CASTING
8:00 am	iEAF® Technology: Dynamic process control for the electric arc furnace (including water detection) - Joe Maiolo, Vittorio Scipolo (TENOVA)	Solidification of the AISI 316L stainless steel and correlation between casting conditions and structures - Augusto César de Brito Geroldo, Carlos Alexandre dos Santos (PUC-RS), César Rolando Nunura (UFRGS)
8:25 am	New concepts in stainless steel technology - J. Reichel, L. Rose (SMS DEMAG)	Moisture influence on mould fluxes for continuous casting of steels - Mylene Laurindo de Seixas Sá, Maria Carolina Campelo Bezerra, Cláudio Antônio Goulart Valadares, Anibal de Oliveira Lavinias, Antônio Hélio da Silva, José de Alencar Quaresma, Nilson Ferreira Gomes, Ivan Pena Rocha (CARBOOX)
8:50 am	Fluid flow involving slag and liquid steel in ac electric arc furnaces - Y. I. C. Guzmán, A. N. Conejo (Morelia Technological Institute), M. A. Ramírez-Argáez (National Autonomous University of Mexico), G. M. Trápaga (CINVESTAV-IPN)	Investigation of clogging mechanism under fluidynamics analysis at stopper rod employing CFD - André Carlos Contini, Bayard Beling Morales, Antônio Cezar Faria Vilela (UFRGS), Leonardo Barboza Trindade (STE)
9:15 am	The influence of Consteel® EAF practice on the reduction of N₂ pick-up and the increase of metallic yield - Francesco Memoli, Cesare Giovanni, Marta Guzzon (TENOVA)	(*) Analysis of the equiaxed-columnar transition in continuous casting of billet-stells - Viviane Lopes da Silva Gschwenter, Vinicius Karlinski, Thales Cunha Bocorny, Diego Aires de Freitas, Jaime Álvares Spim Junior (UFRGS), Carlos Alexandre dos Santos (PUC-RS)
9:20 am		(*) Accurate modelling of heat transfer in continuous casting: mathematical formulas, parameter study and effect of steel grade - Vinicius Karlinski, Jaime Alvares Spim (UFRGS), Seppo Louhenkilpi (Helsinki University of Technology)
9:40 am	The 1.2 mtpy steelmaking plant and combicaster for the new minimill at Siderurgica Balboa, Spain - M. Fabbro, A. Chiogna, G. Cappellari (DANIELI)	
10:05 am	COFFEE-BREAK - CARBOOX + POSTER SESSION	
10:45 am	Scrap in Brazil for steel making up to 2020 - Lauro Chevrand (CTS – Chevrand Tecnologia Siderúrgica), Fernando de Souza Candido (CSN)	Using numerical simulation tools applied to the maintenance area of continuous casting of long carbon steel - Cristiano Corrêa Mendes, Antônio Eustáquio de Melo Pertence (UFMG), Ramon Guelber Martins (ArcelorMittal Monlevade), Glauber Diniz César e Carvalho (VIBRACON ENGENHARIA)
11:10 am	Recycling of steelmaking slag associate with the waste from granite cutting aiming at the production of glass wool - Joner Oliveira Alves, Denise Croce Romano Espinosa, Jorge Alberto Soares Tenório (USP)	Study of steel grade transition in continuous casting - Bartolomeu Rabello Dalbonne (USIMINAS), Marcelo de Aquino Martorano (EPUSP)
11:35 am	Evaluation of the effect of desulphurization in forged steels produced in an electric arc furnace - Luis Henrique Torres Dantas, Eric Rafael dos Reis, Thiago Lucas da Silva, Leandro Felipe de Sousa, Paulo Santos Assis (UFOP)	Numerical simulation of fluid flow in a three-strand tundish with different configurations of turbostop and levels of liquid steel - Carlos André Ruy Carneiro, Lucas Alves de Castro, Rafael Fernandes Reis, Breno Totti Maia, Roberto Parreiras Tavares (UFMG)
12:00 am	Using simulator of steelmaking for analysis of reduction of costs and optimization of production processes - Michel d'Audenhove, Marcelo Fugihara, Alain de Norman et d'Audenhove (BELGE)	An evaluation of the thermodynamic aspects of a tundish cover material for ultra-low carbon steel relevant to its performance - Cláudio Antônio Goulart Valadares, Maria Carolina Campello Bezerra, Mylene Laurindo Seixas Sá (CARBOOX), André Luiz Vasconcellos da Costa e Silva (EEMVVR-UFF and IBQIN)
12:25 pm	Monitoring a cleaner production program implemented in a metallurgical industry: environmental benefits - Carlos Alberto Mendes Moraes, Daiane Calheiro, Daniel Canello Pires, Mônica Vargas, Clairton dos Santos, Francisco Anastácio de Oliveira Neto, Liza Zotz Jaworski (UNISINOS)	Development of fluorine-free mould fluxes - Jeferson Leandro Klug, Antônio Cezar Faria Vilela, Nestor Cezar Heck (UFRGS), Suzana Lancelote de Freitas, Márcia Maria da Silva Monteiro Pereira, Detlef Jung (STOLLBERG)
12:50 pm	LUNCH-BREAK	

	TECHNICAL SESSION: ELECTRIC STEELMAKING	TECHNICAL SESSION: SOLIDIFICATION / CASTING
2:20 pm	Study of the influence parameters in the metallic yield of an electric steelmaking - Cláudio Correa do Nascimento (GERDAU COSIGUA), Maurício Waineraich Scal (GERDAU AÇOS LONGOS), José Adilson de Castro (UFF)	Modeling and simulating of real processes on a steel making plant: mould level control of a continuous casting machine case - Fábio de Borba Sanchotene, Flávio Morais de Souza (ArcelorMittal Tubarão), José Leandro Felix Salles (UFES)
2:45 pm	Reduction of electric arc furnace dusts by pure CO and CO-CO₂ mixtures - Mery Cecilia Gómez Marroquín, José Carlos D'Abreu, Hélio Marquês Kohler (PUC-RIO)	Development of bearings with super wear resistance applied in continuous casting machines - NSK SWR - Fábio Henrique Rissari Bissa (NSK)
3:10 pm	Consteel® EAF and conventional EAF: a comparison in maintenance practices - Francesco Memoli, Cesare Giovanni, Andrea Grasselli (TENOVA)	Programming the continuous casting at Vallourec & Mannesman Brasil (V&M): a seamless tubes industry - Julio Cesar, Fernando Fonseca (VALLOUREC & MANNESMAN), Fernanda Menezes, Marcus Poggi (GAPSO TECNOLOGIA DA DECISÃO)
3:35 pm	Evaluation of lime consumption minimization on electric arc furnace steelmaking and its contribution do reduction of greenhouse gases emission - Carlos Alberto Mendes Moraes, Daiane Calheiro, Mônica Vargas, Clairton dos Santos, Francisco Anastácio de Oliveira Neto, Daniel Canello Pires (UNISINOS)	Laboratory simulation of solidification of steels in continuous casting moulds - Leonardo José Silva de Oliveira (USIMINAS), Roberto Parreiras Tavares (UFMG)
4:00 pm	The use of scrap substitutes like cold / Hot dri and hot metal in electric steelmaking - Markus Abel, Michel Hein (SIEMENS VAI)	Training system for CSN operators in the steel works - Lourival Coutinho Neto, Antônio Carlos Sant'anna da Silva, Carlos Tadeu de Carvalho Reis, Otávio Machado Filho, Moisés Veltman Caldeira, Antônio Marcos Pereira, Pedro Eduardo Martins de Farias, Uiliam Lopes Andrade, Jander de Carvalho Ladeira (CSN)
4:05 pm	COFFEE-BREAK - CARBOOX + POSTER SESSION	
4:55 pm	TECHNICAL INFORM: ENFIL	
5:10 pm	ROUND-TABLE: Perspectives of siderurgy in Brazil	

(*) Paper to be presentend in poster form

May 26th / Tuesday

ANTÔNIO ERMÍRIO DE MORAES AUDITORIUM

ALUMÍNIO ROOM

	TECHNICAL SESSION: SOLIDIFICATION / CASTING	TECHNICAL SESSION: OXYGEN STEELMAKING
8:00 am	Worldwide longest continuous casting machine for highest performance at POSCO GWANGYANG works CCP2-CCM3 / South Korea - Paul Pennerstorfer, Johann Penn (SIEMENS VAI)	Optimization of heat exchange at the bottom of MRP-L converter in a safe way Adão Adelcio Campos, Anderson Batista Lana, Antonio Marcos Bolba Roldão, Cleber Caetano Tomazio, Edilson Simões Cavalieri, Hélcio de Araújo Quintão, João Domingos Guimarães de Athayde Júnior, José Eustáquio Pinto, José Geraldo Ank, Otávio Augusto da Cunha Teixeira, João Cordeiro Neves (ArcelorMittal Inox Brasil), Carlos Pagliosa, Luiz Wander Tonelli Reis (MAGNESITA)
8:25 am	The arvedi endless strip production line (ESP) – From liquid steel to hot-rolled coil in seven minutes - J. Siegl, G. Holleis, A. Angerbauer (SIEMENS VAI)	Production management improvement by implementation of the overall performance indicator OEE - Aluizio Francisco de Barros, Riberto de Barros Araújo (Primus Inter Pares), Jadir Dadalto (ArcelorMittal Tubarão)
8:50 am	Breakout detection/prevention for slab and bloom caster: A new step forward with "MARTINE" - Etienne Castiaux, Gunnar Gruenzner (EBDS)	BOF endpoint prediction modeling & results using EFSOP® technology and a novel ir sensor - Steven Gillgrass, Salvador Rego-Barcena, Omar Davis, Vittorio Scipolo, Joseph Maiolo (TENOVA), Murray J. Thomson (UNIVERSITY OF TORONTO)
9:15 am	The new Danieli slab casters in operation in ArcelorMittal Dunkerque and fos sur mer sites (France) - Marcellino Fornasier, Carlo P. Piemonte, Alessandro Milan (DANIELI)	Technical feasibility study of the use of metal contained in rock ornamental waste in the steel manufacturing processes - Eduardo Junca, José Roberto de Oliveira, Jorge Alberto Soares Tenório (USP), Felipe Fardin Grillo, Roberto Graciano Steinkopf Junior, Ramiro Conceição Nascimento (CEFET-ES)
9:40 am	Development status of continuous casting technology - T. Bolender, G. Kemper (HÜTTENWERKE KRUPP MANNESMANN), R. Fandrich (STAHLINSTITUT VDEH), H. P. Narzt (VOESTALPINE STAHL GMBH), Ney (STAARSTAHL AG), R. Müller, H. Schnitzer (THYSSENKRUPP STEEL AG)	Increasing the refractories wearing profile control on the steel ladles at the V&M do Brasil - Hudson Guerra Asth, Luiz Fernando da Silva, Geraldo Cruz, Leandro Almeida (V&M DO BRASIL), Geraldo Bastos (MAGNESITA)
10:05 am		(*) Understanding the CaO-SiO ₂ -'CrOx' slag system - Nestor Cezar Heck, Antônio Cezar Faria Vilela, Jeferson Leandro Klug, Aline Lima da Silva (UFRGS)
10:10 am	COFFEE-BREAK + POSTER SESSION	
10:50 am	New slab casting technologies at ArcelorMittal Tubarão - Altemar Dettogne do Nascimento, Sandro de Souza, Iuri Pinheiro de Sant'Anna, Antonio Luiz Gomes Reis Junior, Sergio de Souza Mendes (ArcelorMittal Tubarão)	Start up of CISAM hot metal defosforization plant with TECNOSULFUR process - José Flávio Viana, Darlan Rodrigues Azevedo (TECNOSULFUR), Igino Foschi (CISAM)
11:15 am	X-CAST® technology ensures a wide product range - Continuous casting solutions by SMS Demag - Christian Geerkens, Axel Weyer, Martin Becker, Bujor Dumitriu (SMS DEMAG)	Mathematical model of additions of ferroalloy and deoxidizer - Vanessa Cavaleiro de Azevedo, Antonio Augusto Martins, Antonio Carlos Sant'Anna da Silva, Fernando da Rocha V. Pinto, Mac Donald de Souza Arruda (CSN)
11:40 am	Compact steel plant scheduling with sigmaplanner: an AIS steelplanner direct charge solution at Ternium Mexico - Esther Tenorio, Alfredo Halun (TERNIUM), Pierre Beghin, Pascal Moinier (A.I. SYSTEMS)	Technical viability study of the use of the marble waste in the hot metal desulphurisation - Gianni Ferreira Alves, Diego Arrivabene, Ramiro da Conceição Nascimento, Estéfano Aparecido Vieira, José Roberto de Oliveira (CEFET-ES), Jorge Alberto Soares Tenório (USP)
12:05 pm	SIEMENS VAI'S next generation casting technology for ultimate productivity and flexibility - Andreas Flick, Andreas Jungbauer, Oliver Schulz, Karl Mörwald, Armin Bumberger (SIEMENS VAI)	CSN's static model review for utilization of different types of exothermic agents - Antônio Augusto Martins, Carlos Tadeu de Carvalho Reis, Rodrigo da Silva Magalhães, Wellington Ferreira Barbosa (CSN) e Elsomar Biancard (UFF)
12:30 pm	Revamp of continuous casting machine at Villares Metals - Robson Leandro da Silva, Eduardo Netto de Souza, Bruno Pessoa Ramos, Celso Antonio Barbosa, Wilfried Meyer (VILLARES METALS), Karl berger (SIEMENS VAI)	Self-compacting concrete with BOF steel slag addition - Marcelo Meneguelli, João Luiz Calmo, Fernando Avancini Tristão, Marcela Giacometti (UFES)
12:55 pm	LUNCH-BREAK	

	TECHNICAL SESSION: SECONDARY METALLURGY	TECHNICAL SESSION: OXYGEN STEELMAKING
2:25 pm	Reduction of cut sequence caused by purging plug failure - Bruno Cesar Calazans, Bruno Gomes Silva, Luiz de Souza Gomes, Pedro Victor de Araújo, Vinícius Franco do Nascimento, Wellington Ferreira Barbosa, Wesley Ferreira Barbosa (CSN)	Installation of a CFP sublance on a steel plant - Carlos Fernando Pereira (CFP Consultoria Representação e Comercio), Robson Matos Azevedo, Nacif de Oliveira Sírío (ECIL MET TEC), Ivan Lopes Alves, Emérico Batista Campos (USIMINAS)
2:50 pm	Scale from continuous casting use to reduce Si in nickel-chromium austenitics steels Jonas Dias de Carvalho, Elizangela de Jesus Bianchi, José Roberto de Oliveira, Ramiro da Conceição do Nascimento, Estéfano Aparecido Vieira (CEFET-ES)	Implementation of technology for steel tapping in the bof of V&M do Brasil - Leandro Peixoto Almeida, Fabrício Batista Vieira, Hudson Guerra Asth, Luiz Fernando da Silva (V&M DO BRASIL), Wolfgang Bender-Bergold (AMEPA), Felipe Alves Ribeiro (MAGNESITA)
3:15 pm	Competitiveness improvement of ferritic stainless steel P439A in the ArcelorMittal Inox Brazil - Joilson Moreira Ferreira da Silva, Francisco Manoel Perez do Nascimento, Daniel Luiz Coimbra, José Luiz Ramos de Carvalho, Valdeci Paula Alvarenga, Edson Amorim, Paulo César dos Santos, Tarcísio Reis de Oliveira, Helio José Batista Alves (ArcelorMittal Timóteo)	Numerical simulation of the steel flow in the EOF tapping - Carlos André Ruy Carneiro, Lucas Alves de Castro, Rafael Fernandes Reis, Breno Totti Maia, Roberto Parreiras Tavares (UFMG)
3:40 pm	Tecnosulfur sinterized chemical slag TECSLAG-FLUID 2277 lime based use to hydrogen pick up reduction during secondary refining - Marcos A. dos Santos, Ronaldo Carius da Cunha, Juarez Gonçalves de Souza, Paulo César Pontelo, Paulo A. Ferraz de Pontes (TECNOSULFUR)	Methodology to evaluate refractory mortars - Fábio Henrique Rissari Bissa (NSK)
4:05 pm	COFFEE-BREAK	
4:35 pm	ROUND-TABLE: CUSTOMER'S VISION ABOUT STEEL QUALITY	

(*) Paper to be presentend in poster form