updated 19 December

30th "JOURNEES SIDERURGIQUES INTERNATIONALES" 18-19 December 2012

FINAL PROGRAMME

"JSI", the Journées Sidérurgiques Internationales, was introduced in 1980 at the initiative of ATS (Association Technique de la Sidérurgie française) to allow engineers of the steel industry and their equipment or service suppliers to exchange on the last and future processes and techniques.

The presentations will also give short-term and predictable solutions to provide some green steel, performing products and solutions for steel users, in particular for the construction, automotive, mechanics sectors.

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30th "JOURNEES SIDERURGIQUES INTERNATIONALES"
18 & 19 December 2012

FINAL PROGRAMME

Tuesday 18 December 2012

08:45:

Session	1:	Sinter and ironmaking	Petit Amphi - ground floor
Session	2:	Oxygen steelmaking	Room 262 - 2nd floor
Session	3:	Electric arc furnace	Grand Amphi - 1st floor
Session	4:	Flat product hot rolling	Room 162 - 1st floor

12:30: Lunch

14:20:

Session	5:	Blast furnace	Room 162 - 1st floor
Session	6:	Continuous casting	Grand Amphi - 1st floor
Session	7:	Long product rolling	Room 262 - 2nd floor
Session	8:	Coating and finishing line	Petit Amphi - ground floor

17:45: Plenary session followed by a cocktail — Grand Amphi - 1st floor

Wednesday 19 December 2012

08:45:

Session	9:	Energy	Grand Amphi - 1st floor
Session	10:	Secondary metallurgy and refractory	Petit Amphi - ground floor
Session	11:	Product and quality management	Room 162 - 1st floor
Session	12:	Pickling and cold rolling	Room 262 - 2nd floor

10:55:

Session	13:	Cokemaking	Room 262 - 2nd floor
Session	14:	Slab continuous casting	Room 162 - 1st floor
Session	15:	Environment and by-products	Petit Amphi - ground floor
Session	16:	Cold rolling	Grand Amphi - 1st floor

13:20: Closing lunch

Coffee breaks will take place in both exhibition halls

For any further information please contact:

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STEEL TIMES INTERNATIONAL

Tuesday 18 December 2012

08:45: Session 1 - Sinter and ironmaking - Petit Amphi - ground floor

Chairperson: J.M. STEILER (JMS Consult)

8:50 From ore to steel - Ironmaking processes
P. SCHMÖLE* (ThyssenKrupp Steel Europe AG), H.B. LÜNGEN (Steel Institut VDEh), Germany

9:10 HIsarna in the context of alternative ironmaking
C. ZEILSTRA*, K. MEIJER, C. TEERHUIS, M. OUWEHAND, J. VAN DER STEL (Tata Steel Europe), The Netherlands

9:30 Study of degradation of sinter and method of preventing fines generation
D. MITRA*, B. DWIVEDI, M. SINHA, U. CHAKRABORTI, P. PRASAD (Tata Steel), India

9:50 The clarification of the effect on sinter productivity with coke split addition method
K. KATAYAMA*, K. HIGUCHI (Nippon Steel Corporation), Japan

10:10 Break

10:50 Selective Granulation Facility Operation in Sinter Plant
J.S. PARK*, Y.C. KWON, M.S. CHOI, G.R. YOO (POSCO), Korea

11:10 Rogesa's new blast furnace No 5 with a modernised top charging system - 24 months of high performance ironmaking
W. HARTIG*, H. ZEWE (AG der Dillinger Hütte), Germany, E. LONARDI, G. THILLEN, J. HOLLMAN, L. HAUSEMER, B. MULLER (Paul Wurth SA), Luxembourg

11:30 The EFA^{TM} Process - State-of-the-Art DeSO$_x$ Technology at ROGESA, Dillingen-Germany
W. HARTIG, G. MAURER (AG der Dillinger Hütte), F. REUFER*, T. WEISSERT (Paul Wurth Umwelttechnik GmbH), Germany

11:50 The effect of mixing nut coke in the ferrous burden in the ironmaking blast furnace
Q. SONG*, Y. YANG (Delft University of Technology), H. HAGE (Tata Steel), R. BOOM (Delft University of Technology), The Netherlands

08:45: Session 2 - Oxygen steelmaking - Room 262 - 2nd floor

Chairperson: R. FANDRICH (VDEh)

8:50 Raw material flexibility secures bright future for integrated steelmaking
J. KLUGE*, J. SPIESS, A. FLEISCHANDERL, G. WIMMER, K. PASTUCHA (Siemens VAI Metals Technology), Austria

* speaker

9:10 A study on estimation of phosphorus capacities of molten slags using a neural network approach
B. DERIN*, E. ALAN, O. YÜCEL (Istanbul Technical University), Turkey, M. SUZUKI, T. TANAKA (Osaka University), Japan

9:30 Metal emulsion formation in low-melting-point metal/molten salt system
N. MARUOKA*, D.Y. SONG, H. SHIBATA, S.Y. KITAMURA (Tohoku University), N. SASAKI, Y. OGAWA (Nippon Steel Corporation), Japan

9:50 Break

10:50 A novel data-driven prediction model for BOF endpoint
N. UEBBER*, H.J. ODENTHAL, J. SCHLÜTER (SMS Siemag AG), H. BLOM, K. MORIK (Technical University of Dortmund), Germany

11:10 New approaches for efficient dedusting of basic oxygen furnaces
K. MARX*, S. RÖDL (VDEh-Betriebsforschungsinstitut), Germany

08:45: Session 3 - Electric arc furnace - Grand Amphi - 1st floor

Chairperson: B. CRETON (FFA)

8:50 Plant measurement and numerical simulation of EAF operational data
P.V. GRYGOROV*, M. LÜTTENBERG, H.J. ODENTHAL, M. REIFFERSCHEID, F. THEOBALD, N. VOGL (SMS Siemag AG), Germany

9:10 Spectrometer-based real time measurement of the electric arc radiation in a DC-EAF
T. JANSEN*, V. HAVERKAMP, K. KRÜGER (Helmut Schmidt University), B. DETTMER, H. SCHLIEPHAKE (Georgsmarienhütte GmbH), Germany

9:30 The holistic approach for efficient scrap melting
M. DORNDORF, M. ABEL, M. HEIN* (Siemens VAI Metals Technologies GmbH), Germany, H. AFLENZER, M. TRATNIG (Siemens VAI Metals Technologies GmbH), Austria, D. VAILLANCOURT (Siemens Industry), USA

9:50 LINDARC™ Real time EAF off-gas analysis system
M. MEDEOT*, M. IACUZZI (MORE s.r.l.), Italy

10:10 Break

10:50 Industrial application of chemical energy for special steel grades and processes
L. HACQUARD*, A. GROSSE, K. LIBERA (Badische Stahl Engineering), A. OPFERMANN (Badische Stahlwerke), Germany, R. ERIKSSON (Ovako), Sweden

11:10 Efficient energy recovery from electric arc furnace offgas
F. ZAUNER*, G. ENICKL, A. FLEISCHANDERL (Siemens VAI Metals Technologies GmbH), T. STEINPARZER, M. HAIDER (Technical University of Vienna), Austria

11:30 Improvement of Cr yield in the EAF by use of briquetted Al containing filings
G. STUBBE*, G. HARP (VDEh-Betriebsforschungsinstitut), K. VAMVAKAS (BGH Edelstahl Siegen), Germany

11:50 Direct reduced iron production from EAF slags in fixed bed furnace
I. BILEN* (KTH Royal Institute of Technology), Sweden, A. TURAN, O. YUCEL (Istanbul Technical University), Turkey, P. JÖNSSON (KTH Royal Institute of Technology), Sweden

08:45: Session 4 - Flat product hot rolling - Room 162 - 1st floor

Chairperson: L. FROMM (ArcelorMittal)

8:50 New Hot strip mill of Colakoglu Metalurji - Design, project execution and operational results
O. ÖZSOY*, H. BULUT (Çolakoglu Metalurji), Turkey, H. HÖFER, H. HARTMANN, K. HOEN (SMS Siemag AG), Germany

9:10 Standardization concept for the main drives of the hot rolling mills of ArcelorMittal in Europe
C. DELCOURT*, H. JUNGFER, F. KIEFER, M. SARRAZYN (Siemens Belgium), Belgium

9:30 Development and application of a new virtual mill-stand analysis software tool
K. MAYRHOFER* (Siemens VAI Metals Technologies GmbH), S. HUBINGER, K. SHERIF (Austrian Center of Competence in Mechatronics, Linz), R. GRUBER, L. PICHLER (Siemens VAI Metals Technologies GmbH), Austria

9:50 A transducer for normal pressure, friction stress and contact length measurements in hot and cold flat rolling of metals
A. NILSSON* (Mefos), N.G. JONSSON (Jernkontoret), J. LAGERGREN (Åkers), Sweden, T. LUKS (Brno University of Technology), Czech Republic

10:10 Break

10:50 Oil free lubrication in steel hot and cold strip rolling
T. REICHARDT*, H. DELI (VDEh-Betriebsforschungsinstitut), S. MYSLOWICKI, C. MÜLLER, M. RAULF (ThyssenKrupp Steel Europe AG), M. HERRMANN (Chemische Werke Kluthe GmbH), P. DAHMS (Bilstein GmbH & Co KG), C. MÖMMING (Hydro Aluminium Deutschland GmbH), Germany

11:10 Study of tribological oxide layer behaviour during the hot rolling of ferritic stainless steels
É. LUC* (Aperam), M. DUBAR, A. DUBOIS (Laboratoire TEMPO, Université de Valenciennes et du Hainaut Cambrésis), A. HERMANT, A. DESSIS, J.M. DAMASSE (Aperam), L. DUBAR (Laboratoire TEMPO, Université de Valenciennes et du Hainaut Cambrésis), France

11:30 Development of the prediction model for hot strip flatness after coil cooling
M. MIYAKE*, Y. KIMURA, T. KAWAI, T. HIRUTA (JFE Steel Corporation), Japan

11:50 Hot rolled coil cooling and availability system
G. PAULUSSEN*, A. KOORN, P. SEIJTS, H. HOOGLAND, L. STORTELDER (Tata Steel), The Netherlands

12:10 Striving for ultra high-strength and direct-quenched hot band. Modernization of SSAB's hot strip mill
M. THURGREN*, R. HÖGBERG, E. JOHANSSON, P. SIXTENSSON (SSAB), Sweden, K. ECKELSBACH, H. METZ, M. WAGENER (SMS Siemag AG), Germany

14:15: Session 5 - Blast furnace - Room 162 - 1st floor

Chairperson: H.B. LÜNGEN (VDEh)

14:20 Dry Slag Granulation - The Environmentally friendly way to making cement
I. McDONALD*, A. WERNER (Siemens VAI Metals Technologies Ltd), United Kingdom

14:40 Results of the co-injection of PCI and synthetic titanium dioxide products for protection of the hearth of Rogesa blast furnace Nr. 5 after stop for relining
W. HARTIG* (AG der Dillinger Hütte), D. AMIRZADEH-ASL (Sachtleben Chemie), D. FÜNDERS (Gesellschaft für Synthetische Rohstoffe), Germany

15:00 Reduction kinetics of fine hematite ore particles in a high temperature drop tube furnace
Y. QU*, Y. YANG, R. BOOM (Delft University of Technology), The Netherlands

15:20 Control technique of material discharge behavior on center feed type top bunker
Y. KASHIHARA*, A. MURAO, Y. SAWA, M. SATO, K. YAMAMOTO (JFE Steel Corporation), Japan

15:40 Break

16:10 Logistic model of hot metal distribution by torpedo ladles at Rogesa in Germany
H. RAUSCH*, R. LIN (AG der Dillinger Hütte), Germany

16:30 World's first laser profile-measurement-system for the refractory lining of hot torpedo-ladles
R. LAMM* (MINTEQ International GmbH), Germany

14:15: Session 6 - Continuous casting - Grand Amphi - 1st floor

Chairperson: J. GREMILLET (Ascométal)

14:20 World first wide thick amorphous alloy coils production by using a newly ultra rapid cooling transit controlled large-scale thermal spraying gun
J. TAKEHARA*, T. MIMURA, Y. FUKUDOME, H. MATSUMOTO, R. KURAHASHI (Nakayama Steel Works), M. KIUCHI (University of Tokyo), Japan

14:40 Electromagnetic mold level measurement on bloom continuous casting machines equipped with electromagnetic mold stirrer
J. ROHÁČ, A. PAWLIK* (VÚHŽ a.s.), Czech Republic, J.E. ERIKSSON (ABB AB Process Automation), Sweden, D.A. DOMANSKI (ABB Inc.), Canada, K. VÄLIMAA (Ovako Imatra Oy), Finland, D. BOCEK, J. CUPEK (Třinecké železárny), Czech Republic

15:00 Why oxides intensify spray cooling?
M. RAUDENSKY*, M. HNIZDIL, P. KOTRBACEK (Brno University of Technology), Czech Republic

15:20 Increasing the productivity of the vertical continuous casting machine at Hagondange Plant
J. DEMURGER*, J. GREMILLET, M. MATTEI, M. STILGENBAUER, V. SEEMANN, G. BOI, P. GIBONDI (Ascométal), France

15:40 Break

16:10 The new generation of Danieli thin slab casting and rolling plants: lay out concepts breaking all actual parameters in CAPEX and OPEX for advanced markets and product mix
C. PIEMONTE, A. PIGANI, A. SCORDI* (Danieli & C Spa), Italy

16:30 Arvedi ESP - Three years of successful operation
A. JUNGBAUER*, G. WERSHING, G. WINDNER, A. BUMBERGER (Siemens VAI Metals Technologies GmbH), Austria

16:50 CSP® flex - New CSP® concepts for future market requirements
C. KLEIN, C. BILGEN, C. KLINKENBERG*, J. MÜLLER (SMS Siemag AG), Germany

14:15: Session 7 - Long product rolling - Room 262 - 2nd floor

Chairperson: G. MATHIEU (Ascométal)

14:20 WinLink® innovative concept for direct rolling of long products
E. COLOMBO*, U. ZANELLI (Siemens VAI Metals Technologies Srl), Italy

14:40 Installation of Direct Rolling Mill
K. OHUCHI*, S. HIGO, M. MINAMI (Godo Steel), Japan

15:00 Outline and operating results of the first Heavy Duty Reducing & Sizing Block (RSB) in France
J.Y. VERNEDAL*, G. MATHIEU (Ascométal), France, S. SCHWARZ*, B. ZUTER (Friedrich Kocks Gmbh), Germany

15:20 The closed loop size control system in combination with the advanced 3-roll PSM® at DEW Siegen-Geisweid
T. HELSPER, J. EISBACH (Deutsche Edelstahlwerke), G. SCHNELL* (SMS Meer), Germany

15:40 Break

16:10 Revamping of Ascométal Fos-sur-Mer Wire Rod Mill
F. LECOUTURIER*, J.Y. VERNEDAL, B. ONDE (Ascométal), A. BORYSOWICZ (Fives Stein), France, L. CAVALETTI (SMS Meer S.p.A.), Italy, A. OLSSON (Sund Birsta), Sweden

16:30 Improving reliability of mill drive gear boxes at New Bar Mill, Tata Steel
R. MALHOTRA*, G.R.P. SINGH, M.N. SHUKLA, P.K. BANERJEE, B.K. DAS (Tata Steel), India

16:50 Latest developments in drawing and peeling technology
K. VAN TEUTEM* (Danieli & C Officine Meccaniche S.p.A.), Italy, P. MARESCH* (Danieli & C Officine Meccaniche S.p.A.), Germany

17:10 Major improvements of the piercing mill at Vallourec & Mannesmann Tubes
J.P. BRANCART (Vallourec & Mannesmann), P. ROBLIN*, G. MUZARD (GE Energy Power Conversion), France

14:15: Session 8 - Coating and finishing line - Petit Amphi - ground floor

Chairperson: B. de LAMBERTERIE (ESTEP)

14:20 New developments for hot- and cold-strip processing lines
H.G. HARTUNG, L. KÜMMEL, C. SASSE* (SMS Siemag), Germany

14:40 Side trimmer with Dynamic Width Adjustment system (DWA)
T. VALLÉE* (Siemens VAI Metals Technologies), France

15:00 Electromagnetic strip stabilization: eMASS® - results, experiences, and future objectives out of more than 30 industrial applications
M. IRLE*, S. DOMBROWSKI (EMG Automation GmbH), Germany, T. KLING (Nova sarl), France

15:20 Industrial benefits of dynamic air knives implementation on continuous galvanizing lines
J.J. HARDY*, B. GRENIER (Siemens VAI Metals Technologies), France, S. ÖZER, M. BARAS (Borcelik Celik Sanyii Ticaret S.A), Turkey

15:40 Break

16:00 Processing approaches for continuous hot-dip galvanizing of high manganese alloyed steel
G. PARMA*, M. BLUMENAU, M. NORDEN, T. WUTTKE (ThyssenKrupp Steel Europe AG), Germany

16:20 Control of bake-hardening level and aging properties in a hot-dip-galvanizing-line
K. MACHALITZA, R. GERLACH*, C. ESCHER¸ M. NORDEN (ThyssenKrupp Steel Europe AG), Germany

16:40 Innovative flameless regenerative burners for direct fired furnaces on hot dip galvanizing line - up to 15 % lines productivity increase
C. VILLERMAUX, N. RICHARD*, T. BELLIN-CROYAT, G. DAILL, P. BUCHET (GDF SUEZ), K. BEAUJARD, A. DANDA, B. LOUIS, H. SAINT-RAYMOND (ArcelorMittal Global R&D), France

17:00 Continuous performance evaluation of control systems for reducing energy consumption in annealing lines
A. WOLFF* (VDEh Betriebsforschungsinistitut), M. JELALI (Cologne University of Applied Sciences), Germany

17:20 Simultaneous measurement of strip surface emissivity and temperature (SMOTE)
G. KUIPER*, F. MUILWIJK, R. VAN BUREN, J. WESSELINK (Tata Steel R-D & T), The Netherlands

17:45: Plenary session with the speeches of:

- Mr Philippe DARMAYAN, President, Fédération Française de l'Acier,

- Mr Henri-Pierre ORSONI, CEO ArcelorMittal Atlantique & Lorraine

- Mr Anthony de CARVALHO, Chief Steel Unit, OECD.

Wednesday 19 December 2012

08:45: Session 9 - Energy - Grand Amphi - 1st floor

Chairperson: J. DUCLOS (GDF SUEZ)

8:50 Temperature is money: How to make the plants of today comply with the requirements of tomorrow
C. FRÖHLING*, B. BÜTTENBENDER, P. HEMMLING (SMS Siemag AG), Germany

9:10 Utilization of siderurgical gases in gas engines for power generation
E. AMPLATZ, T. ELSENBRUCH*, M. SCHNEIDER, S. WOJCIK (GE Power & Water), Austria

9:30 Reduction of Natural gas consumption after application of Nalco Fire-8252 Prep in Boosters enables Companhia Siderurgica Nacional (CSN) to reduce CO_2 emissions
S.A. BARROS (CSN), P. SANTIAGO*, S. RIBEIRO, F. SUBTIL (Nalco), Brazil

9:50 Process improvements and energy efficiency projects on auxiliary equipment in Tata Steel Aldwarke Cast Products
A. PATSOS*, P.A. BROOKS, A. PRESTON, A. BURGAR (Tata Steel), United Kingdom

10:10 From the energy audit to the final performance tests: success story of a furnace revamping
L. FERRAND* (CMI Greenline Europe), J.L. LAMBERT (Vallourec & Mannesmann), C. BOURGE (CMI Greenline Europe), E. CARRÉ, M. VARLEZ (Vallourec & Mannesmann), C. CONSTANT (CMI Greenline Europe), France

10:30 Towards low energy consumption and low CO_2 production: Steelmaking plants, a roadmap
R. NICOLLE* (Consultant), France

08:45: Session 10 - Secondary metallurgy and refractory - Petit Amphi - ground floor

Chairperson: R. FANDRICH (VDEh)

8:50 Optimised steel ladle upper ring technology
P. TASSOT* (Calderys Deutschland), Germany

9:10 Wear mechanisms of Al_2O_3-MgO spinel forming refractories used in steel ladle impact pads
J. POIRIER* (CEMHTI CNRS), T. CORDONNIER (ArcelorMittal Global R&D), P. PRIGENT (TRB), M.L. BOUCHETOU (CEMHTI CNRS), E. ARFAN, N. SCHMITT (LMT Ecole Normale Supérieure, Cachan), France

9:30 Technical improvements using air cooled staged oxy-air-gas burners for ladle heating
M. BENTIVEGNI*, T. BÉNARD (Vallourec Research Aulnoye), O. DESURMONT, R. BRIEND (Vallourec & Mannesmann), N. DOCQUIER (Air Liquide), P. BOUSSARD (PB Consulting), France

9:50 How to improve sustainability, safety, health and doing quality and cost-savings (up to 20%) with new injection technologies and cored wire in steelmaking?
M. SCHATZ*, C. LENOIR, S. GERARDIN (AFFIVAL), A. BINNINGER (Vallourec & Mannesmann), France

10:10 Inclusion thermodynamics in high Al and high Mn alloyed steels
J.J. PAK*, M.K. PAEK, K.H. DO, J.M. JANG (Hanyang University), Korea

08:45: Session 11 - Product and quality management - Room 162 - 1st floor

Chairperson: J.L. JACQUOT (FFA)

8:50 K44X: a new ferritic stainless steel grade with improved durability for high temperature automotive applications
L. FAIVRE*, P.O. SANTACREU, A. ACHER (Aperam Europe), France

9:10 Industrial data mining in steel industry
H. PETERS*, A. EBEL (VDEh-Betriebsforschungsinstitut), J. HACKMANN (PSI Metals), T. HECKENTHALER (ThyssenKrupp Nirosta GmbH), N. HOLZKNECHT, N. LINK (VDEh-Betriebsforschungsinstitut), F. LÜCKING (QuinLogic), M. PANDER (SMS Siemag AG), Germany

9:30 Finite element modeling of non destructive system for assessment of steel strip properties
A. LEBOUC*, Y. GABI, G. MEUNIER (G2Elab - Grenoble Electrical Engineering Laboratory), P. MEILLAND (ArcelorMittal Global R&D), C. GUERIN (Cedrat SA), P. LABIE (G2Elab - Grenoble Electrical Engineering Laboratory), France, B. WOLTER (Fraunhofer Institute for non-destructive testing), Germany

9:50 Image processing applied to inclusion detection: results for tinplate application
O. DESCHAMPS*, L. DOREL (Siemens VAI Metals Technologies GmbH), France, Z. CANALEJO CATALAN (ArcelorMittal Asturias), Spain, L. SATYANARAYAN, P. PIQUEMAL (ArcelorMittal Global R&D), France

10:10 Three-dimensional investigation of inclusion and cluster characteristics on different stages of steel production of various steel grades
A. KARASEV*, A. TILLIANDER, P. JÖNSSON (KTH Royal Institute of Technology), Sweden

08:45: Session 12 - Pickling and cold rolling - Room 262 - 2nd floor

Chairperson: J. SCHELINGS (ArcelorMittal)

8:50 Eco Pickled Surface (EPS) - An Environmentally Preferred Alternative to Acid Pickling of Flat Rolled Steel: Production Experience and Economic Performance
R. THOMAS*, K. VOGES (The Material Works, Ltd), W. PERRY (Mercury Business Development Services Corporation), USA

9:10 Steel pickling, acid regeneration and plastic corrosion in steel rolling mills
F. RÖGENER* (VDEh-Betriebsforschungsinstitut), Germany, K. JACOBSON, P. BERGSJÖ (Swerea KIMAB), Sweden, G. HARTMANN (ThyssenKrupp Nirosta GmbH), M. SARTOR, T. REICHARDT (VDEh-Betriebsforschungsinstitut), Germany

9:30 New Siemens VAI pickling model helps to improve surface purity - FAPLAC® APM
S. MAILLARD*, B. JALLARD (Siemens VAI Metals Technologies), France, H. DAGN (Siemens VAI Metals Technologies), Germany

9:50 Pickling line / tandem cold mill with electrical and automation systems from SMS Siemag successfully commissioned at MMK
D. EHLERT*, M. BÜHREN (SMS Siemag AG), Germany, S.N. USHAKOV (Magnitogorsk Iron & Steel Works), Russia

10:10 Asolid laser welder
H. THOMASSON* (Siemens VAI Metals Technologies), France

10:30 Benefits of chrome plating and long-term viability of use in the rolling industry
G. PENZES* (Nord Chrome), France

10:55: Session 13 - Cokemaking - Room 262 - 2nd floor

Chairperson: J.P. GAILLET (CPM)

11:00 The new stamp charged coke oven batteries at Zentralkokerei Saar of Dillinger Hütte - Technical characteristics and operational experience
Y. HERRMANN* (Zentralkokerei Saar GmbH), B. DELLMANN (HBD Engineers), Germany, T. HANSMANN (Paul Wurth Italia SpA), Italy, W. FAUST (Paul Wurth SA), Luxembourg

11:20 Production of metallurgical coke with hypercoal (ash free coal) - The use of non / slightly coking coals as a coke feedstock
T. TANAKA*, T. SHISHIDO, N. OKUYAMA, M. HAMAGUCHI, N. KIKUCHI (Kobe Steel) A. KOTANI, Y. NISHIBATA (Kansai Coke and Chemicals Co Ltd), Japan

11:40 Recent operation of new coke plant in Gwanyang works, POSCO
M.W. OAK*, J.S. EUN, D.H. KIM, D.C. YIM (POSCO), Korea

12:00 Industrial Measurement of pushing force using torque sensors
M. LANDREAU*, Y. HERGALANT, D. ISLER (Centre de Pyrolyse de Marienau), F. ENTRINGER, D. DUMAY (ArcelorMittal Florange), France

10:55: Session 14 - Slab continuous casting - Room 162 - 1st floor

Chairperson: F. MIGNARD (Siemens VAI)

11:00 Investigation of the influence of mould oscillation on the continuous slab casting
G. XIA*, C. FÜRST, K. BURGSTALLER (voestalpine Stahl), Austria

11:20 Development and application of a non-steady state strand solidification model
G. STEPHENS*, A. STRAKER, B. BARBER, B. HOOPER (Tata Steel Europe Research Development and Technology), United Kingdom

11:40 Innovative New 250 / 350 mm continuous caster in Salzgitter
P. MULLER, M. SCHÄPERKÖTTER, S. ROSSIUS (Salzgitter Flachstahl GmbH), M. REIFFERSCHEID, C. GEERKENS, L. FISCHER, U. KERP* (SMS Siemag AG), Germany

12:00 Operational results of the world's most modern Siemens VAI bow type caster with vertical mold for the production of 355 mm thick slabs for demanding quality requirements
M. HADLER*, E. REISENBERGER, A. EICHINGER (Siemens VAI Metals Technologies GmbH), C. FÜRST, H. UNTER, P. HODNIK (voestalpine Stahl), Austria

10:55: Session 15 - Environment and by-products - Petit Amphi - ground floor

Chairperson: A. PONS (ArcelorMittal)

11:00 Metal recovery from liquid and solid waste streams generated in stainless steel cold rolling mills
F. RÖGENER* (VDEh-Betriebsforschungsinstitut), D. BUCHLOC (ThyssenKrupp Nirosta GmbH), A. BAN, T. REICHARDT (VDEh-Betriebsforschungsinstitut), Germany

11:20 Granulated metal product from direct tapped furnace - Experience from operation at BEFESA Sweden
P. VESTERBERG*, K. BESKOW, C.J. RICK (UHT Uvån Hagfors Tek), Sweden, A. RUH (Befesa), Germany

11:40 A case study in utilising rainwater harvesting to reduce abstracted water in a steel production facility
T. BALHATCHET*, V. STOVIN (University of Sheffield), A. GHOSH, S. WOOLASS (Tata Steel Europe), United Kingdom

12:00 Emissions inventory of Priority Hazardous Substances and Priority Substances from the Water Framework Directive in effluents from integrated steelworks in the UK
J. CHEN*, E. ARIES, P. COLLINS, J.S. HODGES (Tata Steel Europe), United Kingdom

12:20 Site-wide models to evaluate CO_2 emission reduction options
B. GOLS*, C. TREADGOLD (Tata Steel R-D & T), The Netherlands, B. ADDERLEY (Tata Steel Group Environment), United Kingdom

12:40 The role of steel in environmentally friendly construction
A.L. HETTINGER*, J.S. THOMAS, D.P. BRIDOUX (ArcelorMittal Global R&D), France, O. VASSART (ArcelorMittal Global R&D), Luxembourg, V. HUET, L. GERON (CRM), Belgium, P. LE PENSE (ArcelorMittal Construction), Luxembourg A. LAVAUD (ArcelorMittal Flat Carbon Europe), France

10:55: Session 16 - Cold rolling - Grand Amphi - 1st floor

Chairperson: J. JOUET (CMI)

11:00 Modernization of the four-stand tandem cold mill BILSTEIN GmbH & Co KG. High performance rolling of special steel grades in medium wide format
K. HOEN*, C. SCHWARZ, A. WELLER (SMS Siemag AG), G. ZWICKEL (BILSTEIN GmbH & Co KG), Germany

11:20 First results of a recently installed minimum quantity lubrication system on a tandem cold mill
K. KRIMPELSTÄTTER* (Siemens VAI Metals Technologies GmbH), Austria, A. FLAXA (Quaker Chemical Europe), The Netherlands

11:40 Evaluation of tool material Vancron 40 with regard to wear, surface quality and galling
M. TAHIR* (University of Dalarna), N.G. JONSSON (Jernkontoret), J. LAGERGREN (Åkers), J.O. WIKSTRÖM (AB Sandvik Materials Technology), H. HEDENLUND (Outokumpu AB), Sweden

12:00 Novel method for setting the mechanical and topographic properties of strips within one process step
V. DIEGELMANN* (VDEh-Betriebsforschungsinstitut), G. ZWICKEL, M. ULLRICH (Bilstein GmbH), Germany, H. GOUVEIA (Instituto de Soldadura e Qualidade), Portugal, U. WEIRAUCH (Andritz-Sundwig GmbH), Germany, A.V. PERNIA ESPINOZA (Universidad de la Rioja), Spain

12:20 TopPlanHybrid: A new hybrid online measurement system for measurement of surface shape of rolled strips with arbitrary reflection characteristics
H. KRAMBEER*, M. FELDGES, U. MÜLLER (VDEh-Betriebsforschungsinstitut), R. FACKERT (IMS Messsysteme GmbH), W. GERLACH (ThyssenKrupp Nirosta GmbH), Germany

12:40 Integrated thickness and flatness control for Sendzimir mills
J. POLZER*, A. WOLFF (VDEh-Betriebsforschungsinstitut), M. JELALI (Köln University of Applied Sciences), M. TRUSKOWSKI (ThyssenKrupp Nirosta GmbH), R. FACKERT, T. HERMEY (IMS MessSysteme GmbH), Germany

13:00 Major improvements of the Skin-Pass 48'' at ArcelorMittal Florange
X. BREUVAL, J. JOSSET (ArcelorMittal Florange), P. ROBLIN*, F. BAUDEL*, G. MUZARD (GE Energy Power Conversion), France