THE IRON & STEEL TECHNOLOGY CONFERENCE AND EXPOSITION



16–19 MAY 2016 PITTSBURGH, PA AISTech.org



TODAY'S CHALLENGES. TOMORROW'S OPPORTUNITIES.

AISTECI2016

The Iron & Steel Technology Conference and Exposition is the world's largest annual steel exposition. AISTech is a can'tmiss event for anyone in today's steel marketplace, providing a global perspective on the technology and engineering expertise necessary to power a sustainable steel industry.

Thrive in a constantly changing industry and gain a command of cutting-edge steel-related technologies with more than 500+ technical presentations!

Bigger and better: With more than 500 exhibiting companies, AISTech allows you to meet face-to face with key individuals involved in the production and processing of iron and steel.

Make the investment in your career to expand your knowledge base and international networks and attend Steel's Premier Technology Event.



BRIMACOMBE MEMORIAL LECTURE

Monday, 16 May 2016 (8-9 a.m.)



The AIST J. Keith Brimacombe Memorial Lecture Award was established in 1999 to honor Dr. J. Keith Brimacombe's outstanding accomplishments in the area of process metallurgy, his dedication to the steel industry and his profound effect on people in the industry. The 2016 Brimacombe Memorial Lecturer is **Peter D. Hodgson,** ARC Laureate Fellow, Alfred Deakin Professor, Pro Vice Chancellor (Strategic Partnerships), Deakin University. His lecture is titled **"Engineering Steels at the Nanoscale for Improved Performance."**

PRESIDENT'S AWARD BREAKFAST

Tuesday, 17 May 2016 (8-9:45 a.m.)



Recognizing steel industry excellence, the President's Award Breakfast program consists of the presentation of prestigious AIST Board of Directors Awards, including AIST's Steelmaker of the Year, followed by a keynote presentation from **Mario Longhi**, president and chief executive officer of United States Steel Corporation. His presentation is titled **"The Future of Steel."**

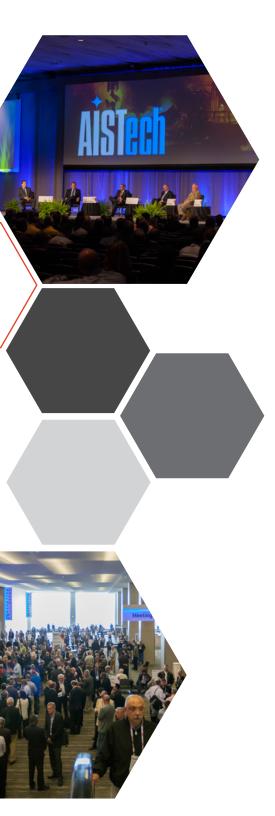
Tickets can be purchased when you register for AISTech. Advance single tickets are US\$40. A table of 10 is US\$350.

Sponsored by



SunCoke Energy





TOWN HALL FORUM

Wednesday, 18 May 2016 (10 a.m.-Noon) (New Time!

The Town Hall Forum is open to all exhibitors, students, full conference registrants and one-day registrants for Wednesday, 18 May 2016.

2016 Panelists



John Bass general manager of public affairs, Nucor Corp.





Lourenco Goncalves chairman, president and chief executive officer, Cliffs Natural Resources Inc.





John Brett president and chief executive officer, ArcelorMittal USA



Doug Matthews

senior vice president, Industrial,

Service Center and Mining

Solutions, United States Steel

Corporation

UsS

U.S. Steel



Piotr Galitzine chairman and chief executive officer, TMK IPSCO





Glenn Pushis vice president, Sheet Products Group, Steel Dynamics Inc. – Flat Roll Group



For a list of topics to be discussed visit AISTech.org



AISTech 2016 will feature a three-day technical program with more than 500 presentations. The program will showcase advancements in all phases of ironmaking, steelmaking, rolling and finishing processes, and the various engineering, equipment and process technologies in today's steel production.

Session Titles by Committee	Monday AM	Monday PM	Tuesday AM	Tuesday PM	Wednesday AM
Safety & Health					
Safety Advancements					
Safety & Health					
Environmental					
EAF Environmental Control	•				
Dust Control					
Water Treatment					
BOF/Ironmaking — Waste Steam Management					
Practical Energy Savings Projects Reviewed (joint with Energy & Utilities)					
Biomass					
Cokemaking					
Coke Quality: Forecasting & Optimization	•				
From Coal to Quench: Weather Impacts, Recovery Techniques & Dry Quenching					
Coke Maintenance & Refractories					
Ironmaking					
BF Modeling					
BF Equipment					
Postponing BF Relines & Capital Expenditures					
Ironmaking Burden					
BF Process Control					
BF Injection					
BF Hearth					
Direct Reduced Ironmaking					
Gas-Based Direct Reduction					
DRI & Novel Ironmaking					
COREX & FINEX Ironmaking					
Novel Ironmaking					

A full listing of presentations, including authors, schedules and abstracts, is available at AISTech.org.

Session Titles by Committee	Monday AM	Monday PM	Tuesday AM	Tuesday PM	Wednesday AM
Electric Steelmaking					
EAF Raw Materials & DRI (Joint with Direct Reduced Iron)					
EAF Furnace Operations I					
EAF Furnace Operations II					
EAF Energy					
EAF Offgas Analysis Methods					
Oxygen Steelmaking					
BOF Refractory Maintenance Practices					
BOF Productivity & Process Optimization					
BOF Maintenance & Refractories					
BOF Operation & Modeling					
BOF Developments Technology					
Specialty Alloy and Foundry					
Specialty Alloy & Foundry Process Improvement					
Specialty Alloy & Foundry Ingot Production					
Specialty Alloy & Foundry Metallurgy					
Ladle and Secondary Refining					
Inclusions — Modeling Studies					
Inclusions — Industrial Studies					
Ladle Stirring					
Ladle Refractory (Joint with Refractory Systems)					
Equipment & New Technology					
Continuous Casting					
Mold Powders					
Process Optimization					
Caster Fluid Flow & Heat Transfer Modeling (Joint with Metallurgy — Steelmaking & Casting)					
Methodology for Quantitative Assessment of Centerline Segregation — I (Joint with Metallurgy — Steelmaking & Casting)					
Technology & Plant Equipment					

(Joint sessions listed in parenthesis)

A full listing of presentations, including authors, schedules and abstracts, is available at AISTech.org.

Session Titles by Committee	Monday AM	Monday PM	Tuesday AM	Tuesday PM	Wednesday AM
Continuous Casting (cont.)					
Methodology for Quantitative Assessment of Centerline Segregation II (Joint with Metallurgy — Steelmaking & Casting)					
Refractory Systems (Joint with Refractory Systems)					
Hot Sheet Rolling					
Equipment Evaluation, Maintenance & Reliability					
Process Improvement Through Analysis & Mathematical Modeling					
Strip Surface Monitoring & Improvement					
Equipment Solutions for Productivity & Quality					
Reheat Furnace Operation & Control					
Cold Sheet Rolling					
Pickling					
Cold Sheet Rolling I					
Cold Sheet Rolling II					
New Annealing Technologies (Joint with Galvanizing)					
Galvanizing					
Galvanizing AHSS: Current Topics in Galvanizing Line Operations					
Surface Quality of AHSS: Challenges & Advances (Joint with Metallurgy — Processing, Products & Applications)					
Galvanizing AHSS: Processing & Mechanical Properties					
Plate Rolling					
Latest Advancements in Plate Rolling					
Rod & Bar					
Wire Rod Mill					
Rod & Bar Automation					
SBQ					
Bar & Structural Rolling					
Rod & Bar Mill Efficiency					
Pipe & Tube					
Pipe & Tube I					

(Joint sessions listed in parenthesis)

A full listing of presentations, including authors, schedules and abstracts, is available at AISTech.org.

Session Titles by Committee		Monday AM	Monday PM	Tuesday AM	Tuesday PM	Wednesday AM
Pipe & Tube (cont.)						
Pipe & Tube II						
Pipe & Tube III						
Rolls						
Hot Mill Roll Technologies						
Cold Mill Roll Technologies						
New Developments in Roll Reprocessing Technologies						
Metallurgy — Steelmaking & Casting						
Steelmaking Metallurgy						
Clean Steel						
Casting Solidification Fundamentals						
Inclusion Engineering & Clean Steel						
Metallurgy — Processing, Products & Applications						
Product Metallurgy of AHSS						
AHSS — Steelmaking Through Finishing: Challenges & Advances						
Application & Performance of AHSS in Automotive Body Structures						
Ferrous Physical Metallurgy						
Energy & Utilities						
Measurement Applications & Techniques						
Utilities — General Applications						
Electrical Applications						
Sensors I						
Sensors II						
Electrical Drives & Transformers						
Power & Electric Arc Furnaces						
Computer Applications						
Plant Automation Upgrades						
Automation & Controls						

(Joint sessions listed in parenthesis)

A full listing of presentations, including authors, schedules and abstracts, is available at AISTech.org.

Session Titles by Committee	Monday AM	Monday PM	Tuesday AM	Tuesday PM	Wednesday AM	
Computer Applications (cont.)						
Leveraging Emerging Technologies						
Modeling						
Hot Topics in Compuer Applications for Steel						
Project & Construction Management						
Building Information Modeling						
Execution of a Major Maintenance Outage						
New Technologies Improve Capability & Productivity						
Maintenance & Reliability						
Cost of Equipment Reliability						
Proactive Maintenance						
Industrial Applications & Challenges						
Know Your Bearings						
Safe Maintenance, Performance & New Technology						
Lubrication & Hydraulics						
Fluid Cleanliness						
Refractory Systems						
Tundish to Mold Refractories						
Refractory Modeling						
Material Handling; Transportation & Logistics (joint)						
Material Movement						
Material Handling Concepts						
Cranes						
Cranes						

CONFERENCE PROCEEDINGS

As an additional benefit of conference attendance, one copy of the AISTech 2016 Conference Proceedings on USB will be included in the full conference, one-day and student registration fee and will be available on-site at the AIST Service Center (Booth #2151). Additional copies of the AISTech 2016 Conference Proceedings in softbound book form or USB may be pre-ordered when registering at AISTech.org.

EXHIBIT HALL

To reserve exhibit space, or for advertising and sponsorship opportunities at AISTech 2016, contact sales@aist.org or +1.724.814.3000



EXHIBITOR LIST

#

Α

3tn Industriesoftware GmbH

ABB

- ABP Induction LLC Ace World Companies
- Acuity-vct Inc.
- Advanced Process Optimization Inc. Aeromet Industries Aerzen USA Corp. Agellis Group AIC Capitanio Automation AIM Machinery Air Products

AirStream Systems Inc. Ajax TOCCO Magnethermic Albarrie Environmental Services Allor Mfg. Inc./Plesh Industries Altra Industrial Motion AMEPA America Inc.

American Chemical Technologies Inc. American Roller Bearing Co.

American Sensors Corp. AmeriFab Inc. AMETEK

- AMETEK Factory Automation
- AMETEK LAND
- AMETEK Newage Testing Instruments
- AMETEK Process Instruments

AMI GE

ANDRITZ METALS Inc.

Andronaco Industries ANT Automation LLC Applied Fluids LLC Armstrong Kover Kwick Inc. ASB Industries Inc. ASKO Association of Women in The Metal Industries (AWMI) Atlantic Track - Crane Runway Division Atlas Machine & Supply Inc. AUMUND

В

AustralTek LLC

B.S.A. s.r.l. Babcock & Wilcox MEGTEC Baltimore Aircoil Co.

Denotes AISTech 2016 sponsor

Bearing Service Co. **BEDA Oxvgentechnic USA** Belcon/Regis

Belt Conveyor Guarding Belzona Inc.

Berry Metal Co.

Berthold Technologies USA LLC Bi-State Rubber Inc. Birmingham Rail & Locomotive Blaschak Coal Corp. Bloom Engineering Co. BM Group Holding SpA Boll Filter

BRAUN Machine Technologies LLC Brilex Inc.

Brokk Bruker BSE Bulk Equipment Corp. **Busch International** Busch Vacuum Pumps and Systems **Butech Bliss**

С

C & E Plastics Inc. C.R. Cylindrical Roller Bearings Cableform Inc. Cage Gear & Machine LLC Caldwell Group Inc.. The Can-Technologies Inc. Carolina Strapping & Buckles Co. CASTELLINI Officine Meccaniche S.p.A. Caster Maintenance Co. **CCR** Technologies Centro - Metalcut/Quantum Design Cervis Inc. CGThermal CH2M ChemTreat Chiz Bros. **CID Associates Inc.** CITGO Petroleum Civil & Environmental Consultants Inc. Clark Testing Clean Water Technologies Cleveland Gear Co. Clyde Bergemann Power Group **CMI Heavy Industries**

CMI Industry Metals

Cobra Wire and Cable - GCG COH Inc Columbia Machine Works Inc. Comesa Work Rolls Cometto Industrie SpA Conductix-Wampfler Contractors & Industrial Supply Inc. (CIS) Control Chief Corp. Cooling Tower Depot Inc. Corewire Ltd. C-Sert Manufacturing LLC CTS Inc.

D

D & L Inc. D&S Hoist and Crane Dana Holding Corp. - GWB Driveshafts Dango & Dienenthal Filtertechnik GmbH Danieli Datapag Inc. De Nora Water Technologies Delta Railroad Construction Inc. Delta USA DESHAZO LLC DesignMecha Co. Ltd. Deublin Co Diamond Power International Inc. **DIAS Infrared Corp.** Die Craft Machining & Engineering **Dimetix USA Dixon Specialty Products DLZ Industrial Surveving** Doerrenberg Edelstahl GmbH Dover Hydraulics Inc. Drafto Corp. **Duraloy Technologies**

EAFab Eaton Ebner Furnaces Inc. EC&M Co. LLC Ecovery **Edwards Vacuum** EJP Maschinen GmbH Ekoplant Srl Elementar Americas Elettrotek Kabel North America Inc. Elster Thermal Solutions, a Honeywell company

Е

Visit AISTech.org for the most up-to-date list of exhibitors.

EM Moulds srl EMG USA Inc. EMPCO EMSCO Inc. ENERGOPROM Group Enprotech Ergolines Lab srl ERIEZ ESW Inc. EVERLOY Shoji Co. Ltd. Extrel CMS

F

FARO Technologies Fedmet FEI Co. Ferrex Engineering Ltd. FESIL SALES Inc. Filtertech Fives Fives Bronx Fives Celes Fives North American Combustion Inc. Fives Stein Flame Tech FLANDERS Flexospan FLSmidth Inc. – AFT Operations Foerster Instruments Freudenberg-NOK Sealing Technologies FrigorTec LP FTI Flow Technology Inc. Fuchs Lubricants Co.

G

G.W. Becker Inc. Galdabini SPA Gantrex Inc. Gauss Magneti Srl GEORG **GES** Graphite Gexpro Gigasense AB Gleason Reel Global Gauge Corp. Global Maintenance LLC **GP** Strategies Graebener Reika Inc. GrafTech Graphite Cova GmbH

EXHIBITORS LIST

Н

GSB Group GmbH Guild International

Hanna Cylinders HarbisonWalker International HARSCO HASTEC Engineering Inc. HASTEC Rebs Inc. Hatch Hauhinco Water Hydraulics Hausner Hard-Chrome Inc. HBC-radiomatic Inc.

HEF Groupe USA HEG Ltd. Heraeus Electro-Nite Co. LLC Hickman, Williams & Co.

HMC Gears Hohl Industrial Services Horsburgh & Scott Hose Master Houghton International Hubbell Inc. Hubbell Industrial Controls Huebner Giessen Hunger Hydraulics USA Hunt Valve Co. Inc. Hutchinson Industries Hvdro Inc. HydroThrift Corp. Hyster Co. HYTORC

iba America LLC IDC Industries Ideal Welding Systems L.P. IKEUCHI USA Inc. IKUSI USA Inc. Illinois Electric Works Imerys Metalcasting Solutions

IMS Systems Inc.

Inductotherm InfoSight Innerspec Technologies Innovative Analytical Solutions In-Place Machining Co. Inc. Integrated Power Services IntelliSchematic

IRCON Inc. Irwin Car and Equipment

Itipack Systems ITR IVC Technologies

J & W Systems LLC J.C. Steele & Sons Inc. J.R. Merritt Controls J.T. Thorpe & Son Inc. James Walker Mfg. Janus Automation Javne Industries Inc. JNE Consulting Jordan Transformer JVCKENWOOD USA Corp. JW Hicks Inc.

K

J

Kalenborn Abresist Corp. Kalmar USA KAMAG Transporttechnik GmbH & Co. KG Kastalon Polyurethane Products Kerry Co. Inc. KettenWulf USA L.P. Key Bellevilles Keytroller LLC Kidde Fire Systems KME America Inc. Kocsis Brothers Machine Co. Konecranes Inc. Kress Corp. KT Grant Kubota Materials Canada

LABEA Ingeniería y Servicios S.A. Lagun Engineering Solutions Laird Controls North America LAKOS Separators and Filtration Solutions Lamiflex LAP Laser LASE GmbH Laser Distance Spectrometry Latanick Equipment Lechler Inc. Lehigh Heavy Forge Corp. Lenox Instrument Co. Inc.

Lintern Corp. LISMAR Inc. Lokring Great Lakes Ludeca Inc. Lumar Metals North America LumaSense Technologies Luyang Energy Savings Materials Co. Ltd.

Μ

M. Brashem Inc. Mack Mfg. MAE-Eitel Inc. Magaldi Power S.p.A. Magid

Magna

Magneco/Metrel Inc. Magnetech Industrial Services Magnetek Maina Power Transmission Management Science Associates MAS Air Systems LLC Maschinenfabrik Liezen und Giesserei GesmbH Maxcess (Webex, Fife, Tidland, MAGPOWR) Mazzella Companies McKeown Group Measurement Systems International, a Rice Lake Weighing Systems Brand Meccanica 2 Elle Srl Melter Merford Cabins B.V. MERMEC Messinger Bearings Metal Products and Engineering **MICRO-EPSILON America** Middouah Midrex

Midwesco-TDC Filter Midwest Industrial Supply Inc. Mi-Jack Products Inc. MikroPul Nederman Miller Plastic Products Inc. Minteg International Inc. Misano Group Mobil Industrial Lubricants Moduloc Control Systems Moffitt Corp. Molvneux Industries Monroe Environmental MORE s.r.l.

Morgan Advanced Materials Morgan Engineering Systems Inc. Motion Industries MRSI MSI Universal Shafts MTUS Technology Inc.

Ν

Nalco, an Ecolab company NCCM Co. NDC Technologies (Beta LaserMike Products) NDC Technologies Inc. NDT Technologies NEXTSENSE Nidec NILCO nokra GmbH Nord-Lock/Superbolt North American Crane Bureau Inc. Northrop Grumman Information Systems NSD Corp. **NSK** Americas

0

Oerlikon Leybold Vacuum USA Ohio Magnetics Inc. Oil Skimmers Inc. Orind Special Refractories Ltd. **Orival Water Filters** Orlaco Osborn OTC Services Inc. Oxylance

Ρ

Pannier Corp. Parts Super Center Paul Wurth Inc. PCI Gases Penn Fan Co. Perfection Servo Philpott Rubber Co. PhyMet Inc. Pintsch Bubenzer USA PKG Equipment Inc. PlotterStore Polyonics Inc. Polytec Inc. POSCO E&C

Visit AISTech.org for the most up-to-date list of exhibitors.

EXHIBITORS LIST

Power Electronics Powerclean Industrial Services Powerohm Resistors Praxair PRC Inc. Precisioned Components **Primetals Technologies** Prince International Corp. ProcessBarron Proco Products Inc. ProMinent Fluid Controls Inc. Pruftechnik Service Inc. PSI Metals North America Inc. Purdue University Calumet – Steel Manufacturing

Simulation and Visualization Consortium Pyrotek

Q

Quaker Chemical Corp. Qual-Fab Inc.

QuinLogic LLC

R R.E. Warner RAD-CON Inc. Ramon Tech LLC Ravagnan S.p.A. REA JET RECO Equipment Inc. REDEX Regal Power Transmission Solutions Reichard Industries LLC Renold Torque Transmission **Rexnord Industrial Services** RF System Lab RHI (RHI US Ltd.) Riise Inc. Ritbearing Corp. Robinson Engineering Co. Robinson Fans Inc. Rockwell Automation Ross Controls RotaDyne RoviSys Russula RustX USA

S.I.T. America Inc.

S

S.P. Kinney Engineers Inc. Samuel Strapping Systems SANGRAF International Sapotech Sarclad North America L.P. Sarralle USA Scantech Schenck Process Scheuerle Fahrzeugfabrik GmbH Schust Engineering Searchlight LLC Seifert Companies Selinsky Force LLC

Senett Control Gessman Group

SenTek Corp.

- SES LLC
- SGL Carbon SGM Magnetics Corp. Shanghai Gongxiang Shanghai Special Metal Co. Ltd. Shapeline Shinagawa Showa Denko Carbon Inc. Shuttlelift SIC Marking USA SIDEREX Sideridraulic System S.p.A. Signal Metal Silvent Intech SKF USA Inc. Slingofer Srl SlipNOT[®] Metal Safety Flooring SMS group • SMS Concast America Inc. SMS Elotherm North America

 - SMS Technical Services LLC SMS USA LLC
 - Drever International
 - SMS Logistiksysteme
 - · Paul Wurth Inc.

Solenis

Sonic Air Systems

Spraying Systems Co.

Spuncast Inc. SRI Quality System Registrar Starex Inc./Nantong Carbon Stellar Materials

Steuler-KCH GmbH Stoody. An ESAB Co. Stucchi USA Inc. Superior Graphite Superior Industries Superior Machine Co. System Seals Inc. The Systems Group

T. Bruce Sales Inc. Tallman Bronze Tamini Transformers

Taylor Machine Works Inc.

Taylor-Winfield Technologies Inc. Tebulo NA Ltd. Technical Weighing Services Inc. **TECO-Westinghouse** Tekleen Automatic Filters Inc. Tele Radio LLC Temtek Solutions/MSSI Refractory Tenova

TES - Transformer Electro Service Srl ThermalMax Inc.

Thermo Scientific

Thermo-Calc Software

Thermocast S.p.A. Timkan Tech (Symeo) TMEIC

Tokai Carbon Group Transformers and Rectifiers (India) Ltd. TransTech Tribco Inc. Tri-Chem Tube City IMS **Tube-Mac Piping Technologies** Turtle Plastics TYHS

П

UE Systems Inc. UKCG Group Ltd. UMECC Unigen Steel Engineering Srl Unilux Union Electric Steel Corp. United Rolls U-S Safety Trolley

Visit AISTech.org for the most up-to-date list of exhibitors.

V

Vail Rubber Works Inc. Velco GmbH Veolia Water Technologies Vesuvius USA Voith Turbo Inc. Vollmer America Inc. Vossloh North America VUHZ a.s.

W

W.L. Gore & Associates Inc. Walker Magnetics West Virginia Development Office WHEMCO Inc. WHEMCO Ohio Foundry WHEMCO Steel Castings Inc. Whiting Corp. Whiting Equipment Canada Winkle Industries Inc. World Water Works Inc. WS Hampshire WS Thermal Process Technology Inc.

X-Z

Xtek/Bradley Lifting

Yates Cylinders YEUP Tube Co. Ltd. YorkHoist Zhuzhou Cemented Carbide Works USA Inc. Zigong International Marketing Inc.

SCHEDULE OF EVENTS

Sunday, 15 May

AIST Foundation Golf Classic – Morning Student Plant Tour **Conference Registration** AIST Foundation Golf Classic – Afternoon Young Professionals' Plant Tour Young Professionals' Reception

Monday, 16 May

Author/Chair Introductions	7:15 a.m.
Conference Registration	7:30 a.m.–5 p.m.
J. Keith Brimacombe Memorial Lecture	8–9 a.m.
Exhibit Hall Open	9 a.m.–6 p.m.
AIST Service Center Open	9 a.m.–6 p.m.
Student Project Presentation Contest	9:30–11:30 a.m.
Technical Sessions	9:30 a.m.–Noon
Graduate Student Poster Contest Display	9:30 a.m.–5 p.m.
Technology Committee Meetings	Noon–1:30 p.m.
University-Industry Relations Roundtable	Noon–1:45 p.m.
Technical Sessions	2–5 p.m.
AIST Welcome Reception – Exhibit Hall	5–6 p.m.
Steel to Students Reception	6–8 p.m.

7 a.m.–2 p.m. Noon-4 p.m. Noon-5 p.m. Noon-7 p.m. 12:30-4 p.m.

5-6 p.m.

President's Award Breakfast **Conference Registration** Graduate Student Poster Contest Display **Exhibit Hall Open AIST Service Center Open Technical Sessions** Exhibit Hall Lunch **Technology Committee Meetings Technical Sessions**

Reception - Exhibit Hall

Tuesday, 17 May

Author/Chair Introductions

7:15 a.m. 8-9:45 a.m. 8:30 a.m.-5 p.m. 9 a.m.-5 p.m. 9:30 a.m.-6 p.m. 9:30 a.m.-6 p.m. 10 a.m.-Noon 11:30 a.m.-1:30 p.m. Noon-1:30 p.m. 2-5 p.m. 5–6 p.m.

Wednesday, 18 May New Times!

Author/Chair Introductions **Conference Registration Technical Sessions Town Hall Forum** Town Hall Lunch – Exhibit Hall Exhibit Hall Open **AIST Service Center Open** Truck Giveaway – Exhibit Hall **AIST Prize Drawings Technology Committee Meetings**

Thursday, 19 May

7:30 a.m.-Noon

7:15 a.m.

8–10 a.m.

7:30 a.m.-3 p.m.

10 a.m.-Noon

Noon-2 p.m.

Noon-4 p.m.

Noon-4 p.m.

2:30-3 p.m.

3:30-4 p.m.

3:30-5:30 p.m.

Plant Tours: Ellwood Group Inc. Steel Dynamics Inc. - The Techs Division U. S. Steel - Mon Valley Works **Carrie Furnaces**

Young **Professional Program**

Expand your industry knowledge and network at AISTech 2016. Young professionals (age 30 and under) are entitled to receive a 50% registration discount* and are invited to attend the following young professional events on Sunday, 15 May 2016:

Young Professional only plant tour of AK Steel Corp. – Butler Works

Networking reception exclusively for industry young professionals

*Cannot be combined with any other discount. This program is sponsored by the AIST Foundation.

REGISTRATION

Full Conference Member US\$650

Non-Member US\$850

One-Day Conference Member US\$475 Non-Member US\$675

Exposition Only Member FREE Non-Member US\$50

Student Member FRFF

Non-Member US\$50

After 25 April 2016 there will be a US\$100 increase for all conference registrations and a US\$30 for full-time students

PLANT TOURS



Ellwood Group Inc.

Ellwood City Forge has more than 100 years of forging experience coupled with the latest innovations in open-die forging. Ellwood Mill Products, a division of Ellwood City Forge (ECF), has forging, heat treatment and machining capabilities to handle the largest forgings that are produced by ECF - up to 110,000 lbs. EMP's close proximity to Ellwood Quality Steels (an Ellwood Group Inc. (EGI) business unit) allows the receipt of hot ingots via an in-house transfer car. North American Forgemasters (NAF), a joint venture between Scot Forge and EGI, is also located on-site. NAF is expected to start up a new 10,000-ton open-die forge press in early 2016. Tour attendees will visit Ellwood City Forge, Ellwood Quality Steel, Ellwood Mill Products, and North American Forgemasters, and can expect to see melting, refining, casting of ingots, open-die forging, a heat treating operation, rough machining of open-die forgings, and non-destructive testing and extracting of destructive tests samples.





Steel Dynamics Inc. – The Techs Division

Steel Dynamics Inc. - The Techs Division in Pittsburgh, Pa., USA, consists of three galvanizing lines: MetalTech, NexTech and GalvTech. The Techs is the largest domestic supplier of hot-dipped galvanized steel sheet in the United States and specializes in galvanizing specific gauges and widths of flat roll carbon steel. MetalTech. The Techs' flagship facility, began production in 1984 and specializes in the hot-dip galvanizing of both hot rolled and cold rolled heaviergauge steel sheet in thicknesses from 0.040 to 0.160 inch and in widths from 24 to 52 inches. The plant has an annual capacity of 375,000 tons. NexTech is a state-of-the-art facility established in 1990 that specializes in the hot-dip galvanizing of cold rolled light-gauge steel sheet. NexTech has an annual production capacity of 170,000 tons. GalvTech is a state-of-the-art hot-dip galvanizing facility with an annual capacity to finish 475.000 tons of cold rolled steel sheet.







U. S. Steel – Mon Valley Works

Mon Valley Works is an integrated steelmaking operation that includes four separate facilities: Clairton Plant, Edgar Thomson Plant, Irvin Plant and Fairless Plant (outside Philadelphia). Edgar Thomson Plant, located about 10 miles southeast of Pittsburgh in Braddock, Pa., USA, is where basic steel production takes place at Mon Valley Works. Steel slabs from the facility are sent by rail to the nearby Irvin Plant, where they are rolled into a number of different sheet products. Irvin Plant, located in West Mifflin, Pa., rolls and treats steel slabs produced at the Edgar Thomson Plant to meet customer specifications. Major sheet products manufactured at the Irvin Plant include hot rolled, cold rolled, and coated sheet in addition to products for special applications, such as embossed sheet, vitrenamel sheet and commercial bright sheet.





Carrie Furnaces

Constructed in 1906, the Carrie Furnaces stood at the heart of U.S. Steel's Homestead Works until 1979. At one time, the furnaces and the steel workers who labored in them produced more than 1.000 tons of iron a day. Now these 92-foot-tall structures stand as sentinels to Pittsburgh's steel heritage. Visitors will be guided through the ironmaking process, with stories of the site's technology, workers and culture from its heyday to the post-industrial present. Please note that the Carrie Furnaces are part of a former industrial site and at this time are not handicapped-accessible. Attendees should dress appropriately for the weather as most of the tour takes place outdoors. Heels and/ or open-toed shoes are not permitted.



+ AISTCCD2016



DON'T MISS YOUR CHANCE TO WIN ONE OF THESE GREAT PRIZES .

Prize drawings will be held at the AIST Service Center (Booth #2151) on 18 May 2016 at 3:30 p.m., except where noted.

The Chevy[™] Silverado Giveaway final drawing will be held 18 May 2016 at 2:30 p.m. at Booth #3355. Winner must be present to win the Chevy[™] Silverado Truck.

Visit AISTech.org for official rules and regulations.