



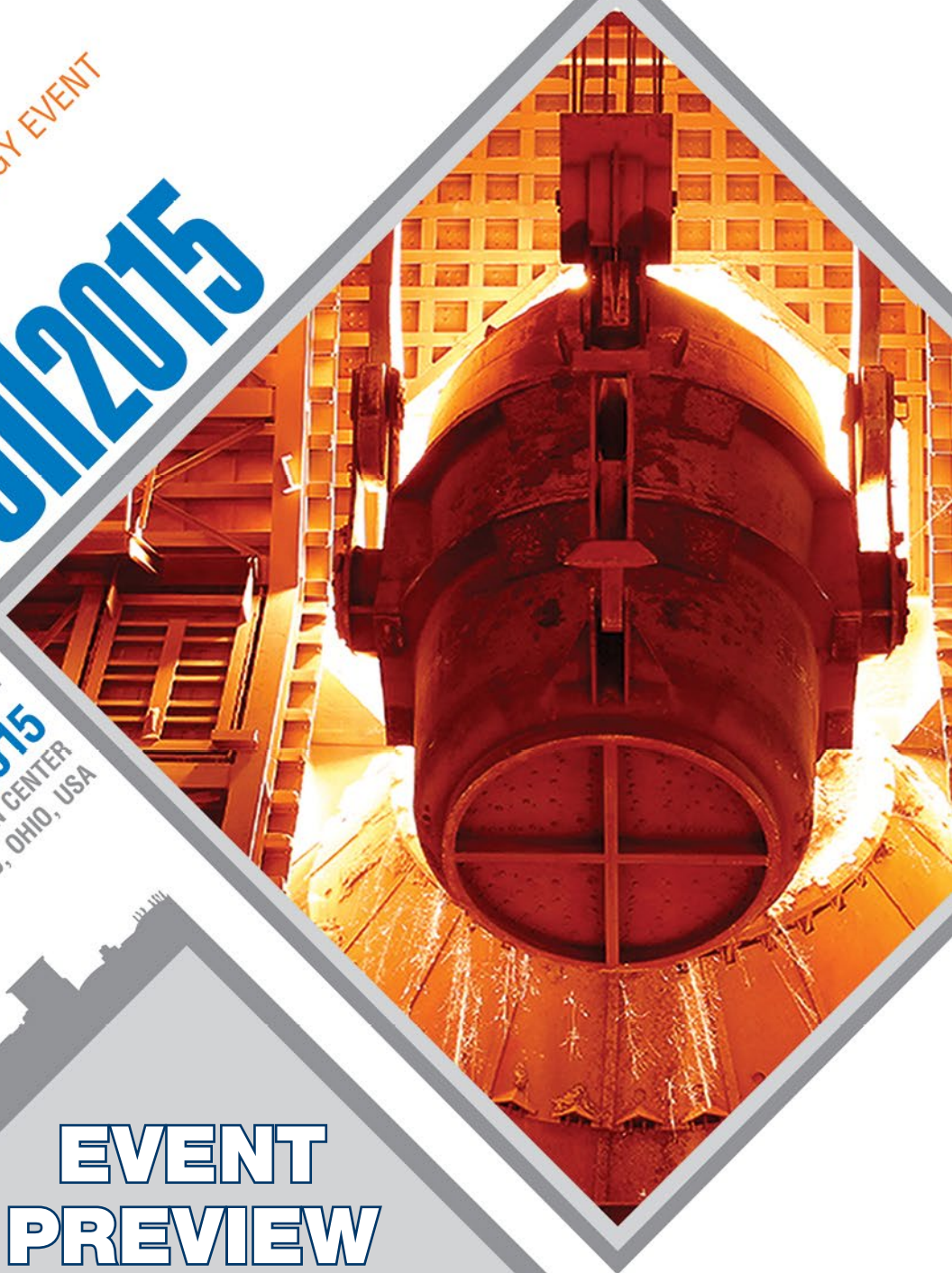
STEEL'S PREMIER TECHNOLOGY EVENT

# ASTech<sup>®</sup> & ICSTI

4-7 MAY 2015  
CLEVELAND CONVENTION CENTER  
CLEVELAND, OHIO, USA



## EVENT PREVIEW







STEEL TECHNOLOGY

AmeriFab, Inc.

EXHIBIT

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS

ASIS/SteelTech

STEEL SYSTEMS





# AISTech<sup>®</sup> 2015 & ICSTI

Today's **CHALLENGES.**  
Tomorrow's **OPPORTUNITIES.**

The Iron & Steel Technology Conference and Exposition is the steel industry's largest annual exposition. AISTech is a can't-miss event for anyone involved at any level of today's global steel marketplace, providing a global perspective on the technology and engineering expertise necessary to power a sustainable steel industry.

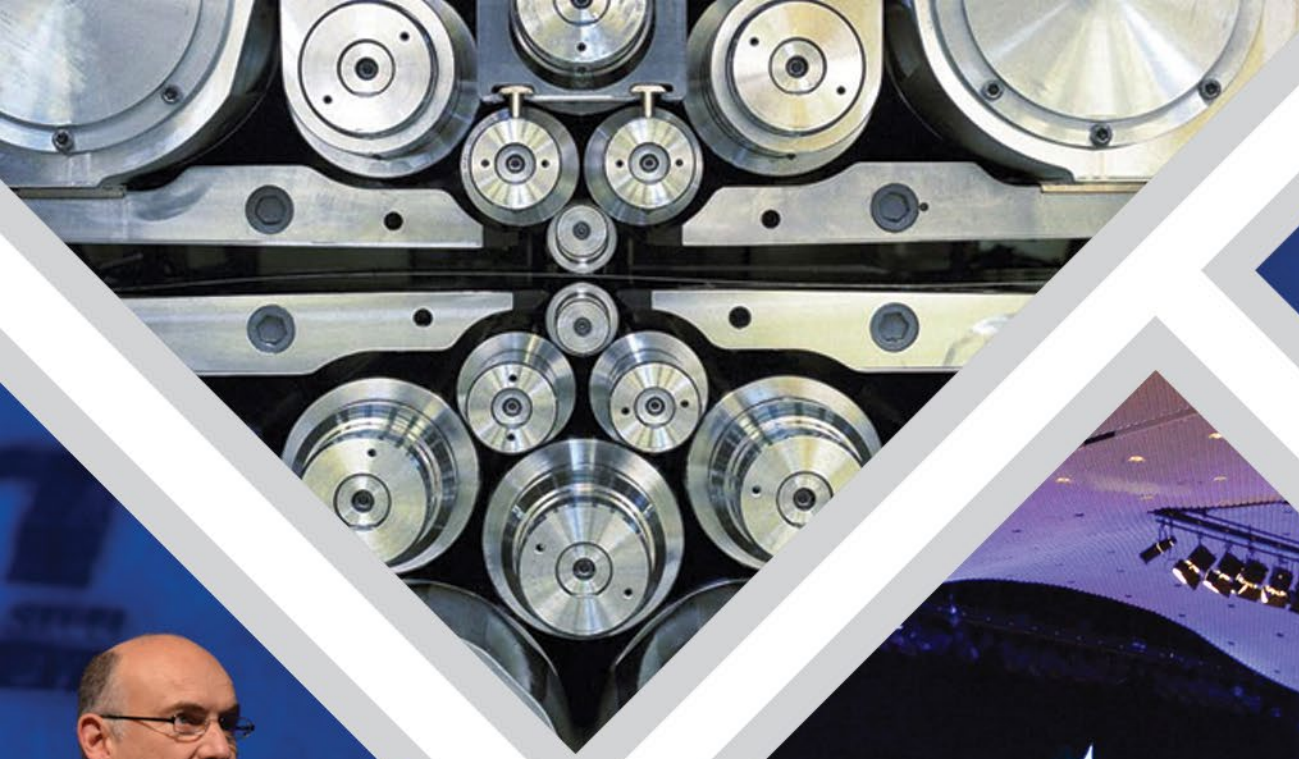
AISTech 2015 will host ICSTI 2015 — The 7th International Congress on the Science and Technology of Ironmaking. ICSTI provides an opportunity to learn about and debate the essential issues and challenges in ironmaking today.

Thrive in a constantly changing industry and gain a command of cutting-edge steel-related technologies with **more than 550 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.







# PRESIDENT'S AWARD BREAKFAST

Tuesday, 5 May • 8–9:45 a.m. • Grand Ballroom



Recognizing steel industry excellence, the President's Award Breakfast program will consist of the presentation of prestigious Board of Directors Awards, including AIST's Steelmaker of the Year, followed by a keynote presentation by **Lourenco Goncalves**, chairman, president and chief executive officer, Cliffs Natural Resources Inc.

## "Global Iron and Steel Outlook"

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

*The 2015 President's Award Breakfast is sponsored by:*



# HOWE MEMORIAL LECTURE

Monday, 4 May • 8–9 a.m. • Room 26 B and C



The Howe Memorial Lecture was established in 1923 to honor Henry Marion Howe, who helped turn steelmaking from an art into a science with his gift of observation and deduction. The lecturer is selected in recognition of outstanding individual contributions to the science and practice of iron and steel metallurgy or metallography. The 2015 Howe Memorial Lecturer is **Dr. Yakov Gordon**, technical director, ironmaking, Iron and Steel Business Unit, Hatch Associates Ltd. His lecture is titled **"The Role of Engineering Consultancy in the Transformation of a Technology Idea to a Working Process Plant."** The Howe Memorial Lecture is open to all conference attendees.









# TOWN HALL FORUM

Wednesday, 6 May • 8:30–11:15 a.m. • Grand Ballroom

The Town Hall Forum provides an insider's view into today's business climate from the people who know: a panel of respected leaders from some of the steel industry's best-regarded companies. The Town Hall Forum's moderated discussion format gives attendees a deeper understanding of the factors that help determine the direction of not just an individual company, but also the greater steel industry.



**Andrew S. Harshaw**  
president and CEO,  
ArcelorMittal USA



**George J. Koenig**  
president, Berry Metal Co.



**Michael D. Lee**  
vice president and general  
manager, Nucor Steel-  
Decatur LLC



**David J. Rintoul**  
senior vice president —  
Tubular Business, United  
States Steel Corporation



**Richard P. Teets Jr.**  
president and chief operating  
officer — Steel Operations,  
executive vice president,  
Steel Dynamics Inc.



The Town Hall Forum is open to all exhibitors, students, all full conference registrants and those who have purchased a one-day conference registration for Wednesday, 6 May 2015.

*Town Hall Forum sponsors:*



**NORTH AMERICA, INC.**







# TECHNICAL PROGRAM

AISTech 2015 will feature a three-day technical program with more than 550 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	Sunday 1 PM	Monday 9:30 AM	Monday 2 PM	Tuesday 10 AM	Tuesday 2 PM	Wednesday 2 PM
<b>Safety &amp; Health</b>						
Safety & Health				◆		
Don B. Daily Grant Awardees					◆	
Safety Innovations						◆
<b>Environmental</b>						
Ironmaking Environmental Developments I (Ironmaking)		◆				
Air Treatment Innovations			◆			
Water Systems & Treatment Optimization				◆		
Energy Efficiency & Management of Wastes					◆	
Management of Wastes						◆
<b>Cokemaking/ICSTI</b>						
Coke Oven Battery Construction and State-of-the-Art Technology in Cokemaking		◆				
Evaluation of Coke Quality & Its Impact on Blast Furnace Performance			◆			
Safety & Environmental Performances – The Two Core Values of Cokemaking				◆		
Prolongation of the Life of a Coke Oven Battery – How to Protect the Asset					◆	
Replacement of Equipment & Improvements at Existing Cokemaking Facilities						◆
<b>Ironmaking/ICSTI</b>						
Ironmaking Across the Globe	◆					
Blast Furnace Operations I – Campaign Life & Productivity		◆				
Direct Reduction Ironmaking I – Use & Value of DRI		◆				
Ironmaking Modeling I – Prediction & Control		◆				
Ironmaking Raw Materials I		◆				
Sintering I		◆				
Blast Furnace Operations II			◆			
Direct Reduction Ironmaking II – Gas-Based DRI			◆			
Ironmaking Environmental Developments II			◆			
Ironmaking Raw Materials II			◆			
Ironmaking/Computer Modeling (Computer Applications)			◆			

(Joint sessions listed in parenthesis)



# TECHNICAL PROGRAM

Session Titles by Committee	Sunday 1 PM	Monday 9:30 AM	Monday 2 PM	Tuesday 10 AM	Tuesday 2 PM	Wednesday 2 PM
<b>Ironmaking/ICSTI</b>						
Sintering II			◆			
Blast Furnace Cohesive Zone				◆		
Blast Furnace Equipment & Maintenance I – Staves				◆		
Blast Furnace Slags				◆		
Direct Reduction Ironmaking III – DRI Raw Materials				◆		
Ironmaking Energy Studies				◆		
Ironmaking Poster Session						
Blast Furnace Hearth					◆	
Blast Furnace Injection					◆	
Direct Reduction Ironmaking IV – Coal-Based DRI					◆	
Ironmaking Raw Materials III – Flux					◆	
Reduction Phenomena					◆	
Alternate Ironmaking & Resource Recovery						◆
Blast Furnace Equipment & Maintenance II – Burden Distribution						◆
Blast Furnace Operating Improvements						◆
Ironmaking Modeling II – Process Studies						◆
Ironmaking Raw Materials IV – Composite Pellets						◆
<b>Electric Steelmaking</b>						
EAF Operations		◆				
EAF Technology Innovations			◆			
EAF Start-Ups & Revamps				◆		
EAF Experiences With DRI					◆	
EAF Equipment Updates						◆
<b>Oxygen Steelmaking</b>						
Environmental & Byproduct Management		◆				
Shop Floor Implementation of New Technology		◆				
Productivity & Process Optimization			◆			
Maintenance & Refractories				◆		
BOF Operation & Modeling					◆	
BOF Chemistry & Quality						◆

(Joint sessions listed in parenthesis)



# TECHNICAL PROGRAM

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

Session Titles by Committee	Sunday 1 PM	Monday 9:30 AM	Monday 2 PM	Tuesday 10 AM	Tuesday 2 PM	Wednesday 2 PM
<b>Specialty Alloy &amp; Foundry</b>						
Specialty Alloy – Part I				◆		
Specialty Alloy – Part II					◆	
<b>Ladle &amp; Secondary Refining</b>						
Ladle Metallurgy Technology		◆				
Ladle Processing Technology			◆			
Vacuum Treatment Technology & Process Control					◆	
<b>Continuous Casting</b>						
Caster Design & High-Speed Casting		◆				
Tundish & SEN Design			◆			
Caster Fluid Flow & Heat Transfer Modelling			◆			
Mold Technology for High Productivity & Long Life				◆		
Mold Powder & Mold Level Control					◆	
Design for Quality Steel Production						◆
<b>Hot Sheet Rolling</b>						
New Sensor Technology & Hot Rolling			◆			
Technological Methods for Improving the Hot Sheet Rolling Process				◆		
Roll Manufacturing Technology (Rolls)					◆	
<b>Cold Sheet Rolling</b>						
Mill Performance		◆				
Annealing & Rolling Theory			◆			
Pickling & Welding				◆		
Shape & Surface (Sensor Systems)					◆	
<b>Plate Rolling</b>						
Plate Mill Technologies					◆	
Plate Heat Treatment (Metallurgy – Processing, Products and Applications)						◆
<b>Rod &amp; Bar Rolling</b>						
SBQ Rolling			◆			
Rod & Bar Rolling Innovations				◆		
Wire Rod Rolling					◆	

(Joint sessions listed in parenthesis)



# TECHNICAL PROGRAM

Session Titles by Committee	Sunday 1 PM	Monday 9:30 AM	Monday 2 PM	Tuesday 10 AM	Tuesday 2 PM	Wednesday 2 PM
<b>Pipe &amp; Tube</b>						
Pipe & Tube Technology – Part I				◆		
Pipe & Tube Technology – Part II					◆	
<b>Rolls</b>						
Roll Shop Processing			◆			
<b>Metallurgy – Steelmaking &amp; Casting</b>						
Steelmaking Metallurgy		◆				
Clean Steel – Inclusion Formation Fundamentals			◆			
Clean Steel – Characterization Techniques				◆		
Casting Solidification Fundamentals					◆	
Clean Steel – Cast & Final Product						◆
<b>Metallurgy - Processing, Products &amp; Applications</b>						
Product Metallurgy I		◆				
Product Metallurgy II			◆			
Non-Metallic Inclusions				◆		
Process Quality & Technology					◆	
<b>Energy &amp; Utilities</b>						
EAF Energy Savings		◆				
Natural Gas Supply & Demand Dynamics			◆			
Practical Energy Savings Projects Implemented by Steel Producers				◆		
Energy Efficiency Savings					◆	
<b>Electrical Applications</b>						
Electrical Application Case Studies		◆				
<b>Computer Applications</b>						
Applications of Information Technology		◆				
Using Data				◆		
Automation & Control					◆	
Modeling II						◆
<b>Project &amp; Construction Management</b>						
Project Management Success			◆			
Planning Major Maintenance Outages					◆	

(Joint sessions listed in parenthesis)



# TECHNICAL PROGRAM

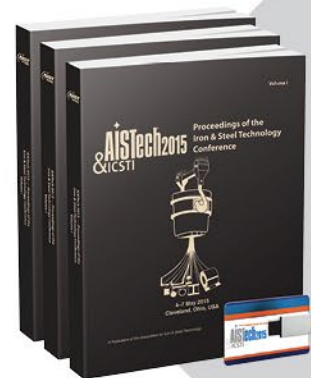
A full listing of presentations, including authors, schedules and abstracts, is available at [AISTech.org](http://AISTech.org).

Session Titles by Committee	Sunday 1 PM	Monday 9:30 AM	Monday 2 PM	Tuesday 10 AM	Tuesday 2 PM	Wednesday 2 PM
<b>Maintenance &amp; Reliability</b>						
Reliability Culture		◆				
Rolling Mill Reliability			◆			
Analysis Methods for Maintenance & Reliability				◆		
Practical Solutions for Everyday Problems to Improve Equipment Reliability (Metallurgy – Processing, Products and Applications)					◆	
Maintenance & Reliability Technology						◆
<b>Lubrication &amp; Hydraulics</b>						
New Technology in Lubrication & Machinery Components to Improve Equipment Efficiency				◆		
<b>Refractory Systems</b>						
Steelmaking & Casting Refractory Technology		◆				
Refractories for Blast Furnace Maintenance				◆		
<b>Material Handling/Transportation &amp; Logistics</b>						
Addressing Challenges Moving Steel				◆		
Material Handling, Transportation & Logistics					◆	
<b>Cranes</b>						
Cranes		◆				

(Joint sessions listed in parenthesis)

## POSTER SESSION

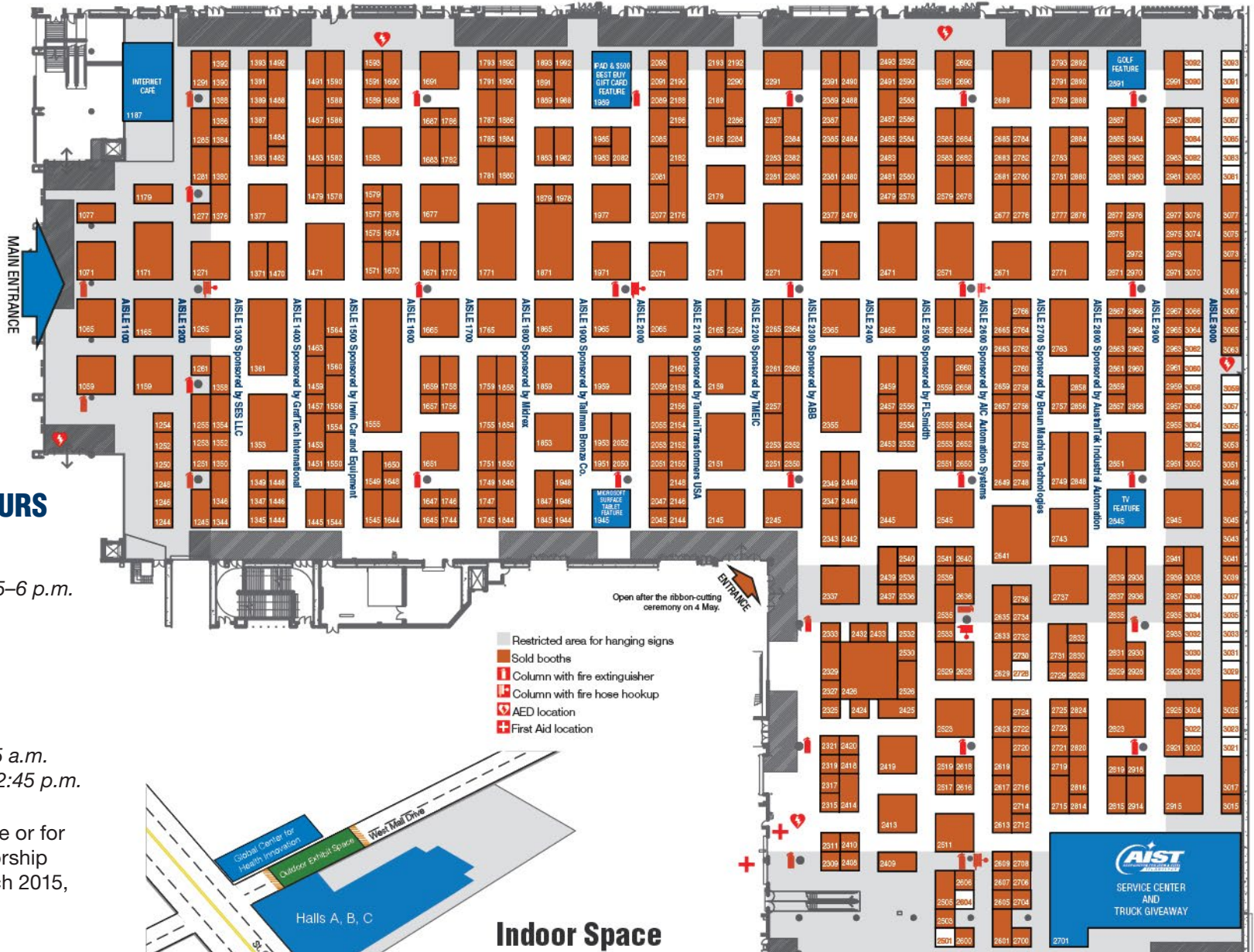
ICSTI 2015 — the 7th International Congress on the Science and Technology of Ironmaking will provide an open forum to present, discuss and achieve solutions to current ironmaking challenges and future ironmaking opportunities. In addition to the technical program presentations, an Ironmaking Poster Session will be held on **Tuesday, 5 May 2015 from Noon to 2 p.m.**



## CONFERENCE PROCEEDINGS

As an additional benefit of conference attendance, one copy of the AISTech 2015 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 #2701). Additional copies of the AISTech 2015 Proceedings in softbound book form or USB may be pre-ordered when registering at [AISTech.org](http://AISTech.org).

# EXHIBIT HALL



## EXHIBIT HALL HOURS

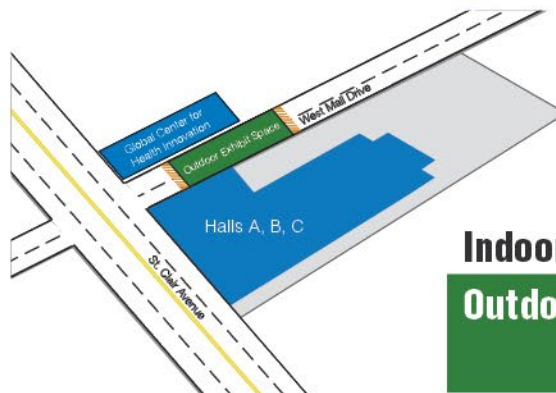
**Monday, 4 May**  
9 a.m.–6 p.m.  
Welcome Reception 5–6 p.m.

**Tuesday, 5 May**  
9:30 a.m.–6 p.m.  
Reception 5–6 p.m.

**Wednesday, 6 May**  
11 a.m.–3 p.m.  
Truck Giveaway 11:45 a.m.  
Prize Drawings 2:30–2:45 p.m.

To reserve exhibit space or for advertising and sponsorship opportunities at AISTech 2015, contact:

The AIST Sales Team  
Phone: +1.724.814.3000  
Fax: +1.724.814.3005  
Email: sales@aist.org



Indoor Space

Outdoor Space

31E	33E	35E	37E	39E	41E	43E	45E	47E	51E	53E	55E	57E	59E	61E	63E	65E	67E
32E	34E	36E	38E	40E	42E	44E	46E	48E	52E	54E	56E	58E	60E	62E	64E	66E	68E



# EXHIBITORS

as of 11 March 2015

Visit [AISTech.org](http://AISTech.org) for the most up-to-date list of exhibitors.

## A

Abanaki Corp.  
**ABB Inc.**  
ABP Induction LLC  
Accurate Technologies  
**Ace World Companies**  
Acuity-vct Inc.  
Advanced Application Modernization  
Aerodyne Environmental  
Aeromet Industries Inc.  
Affival Inc.  
Agellis  
Aggreko  
Aginzo Consulting Group  
**AIC Capitanio Automation**  
AIM Machinery  
Air Products  
AirStream Systems Inc.  
Ajax TOCCO Magnethermic  
Albarrie Environmental Services  
Allor Mfg. Inc./Plesh Industries  
Alloy Sling Chain  
Altra Industrial Motion

- Ameridrives Couplings
- Ameridrives Power Transmission
- Bauer Gear Motors
- Nuttall Gear & Delroyd Worm Gear
- Twiflex USA

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 Herr-Voss Stamco**  
ANDRITZ METALS Inc.  
Andronaco Industries  
ANT Automation LLC  
Anvil Attachments  
Applied Fluids LLC  
ARKO By PMP  
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.  
ATS SpA  
Auburn Environmental Services  
**AustralTek LLC**

## B

Babcock & Wilcox MEGTEC  
Baltimore Aircoil Co.  
Bar Hydraulics Inc.  
BASF Corp.  
Bearing Service Company of PA  
BEDA Oxygentechnic USA  
Beijing Yingnian International Exhibition Co. Ltd.  
Belt Conveyor Guarding  
Belzona Inc.  
**Berry Metal Co.**  
Berthold Technologies USA LLC  
Beta LaserMike  
Bijur Delimon International  
Birmingham Rail & Locomotive  
Bi-State Rubber Inc.  
**Blaschak Coal Corp.**  
Bloom Engineering Co.  
Blundstone Footwear  
BMR Group  
Boldrocchi srl  
Boll Filter Corp.  
Boneng Transmission USA  
Brady IT Solutions  
**BRAUN Machine Technologies**  
Brillex Inc. – Taylor-Winfield Technologies Inc.  
Brokk  
Bruker Corp.  
Brunel Corp.  
BSE  
Buckeye Pumps Inc.  
Bültmann GmbH  
Burdy LLC  
Burns Industrial Equipment  
Busch Vacuum Pumps and Systems  
Butech Bliss

## C

C & E Plastics Inc.  
C.R. Cylindrical Roller Bearings  
Cableform Inc.  
Caldwell Group Inc., The  
Can-Technologies Inc.  
Carolina Strapping & Buckles Co.  
CASTELLINI Officine Meccaniche S.p.A.  
Caster Maintenance Co.

CavCom Inc.  
CCR Technologies Inc.  
Cervis Inc.  
Changzhou Kaida Heavy Industry Technology Co. Ltd.  
ChemTreat  
**CID Associates Inc.**  
CIMM Group Co. Ltd.  
Cincinnati Thermal Spray Inc.  
**CITGO Petroleum Corp.**  
Civil & Environmental Consultants Inc.  
CLARCOR Industrial Air | BHA  
Clean Water Technology Inc.  
Cleveland Gear Co.  
CMI Heavy Industries  
CMI Industry (EFCO)  
Cobra Wire & Cable, A Division of EIS Inc.  
Columbia Machine Works Inc.  
Comesa Work Rolls  
**Conductix-Wampfler**  
ConeDrive  
Continental Field Machining  
**Contractors & Industrial Supply Inc.**  
Control Chief  
Cooling Tower Depot Inc.  
Cope Plastics Inc.  
Corewire Ltd.  
Corrosion Fluid Products Corp.  
CORTS Bearing Technology & Engineering

## D

D & L Inc.  
D&S Hoist and Crane  
Dalton Industries  
Dango & Diententhal Filtertechnik GmbH  
**Danieli**  
Datapaq  
Delta Railroad Construction Inc.  
Delta USA  
DESHAZO LLC  
DesignMecha Co. Ltd.  
Deublin Co.  
Dialight  
Diamond Power International Inc.  
DIAS Infrared Corp.  
Dixon Valve & Coupling Co.  
DLZ Industrial Surveying  
Doerrenberg Edelstahl GmbH  
Dover Hydraulics Inc.  
Drafft Corp.  
Drivecon  
DropsA USA Inc.

Duff-Norton  
Duraloy Technologies  
Duranice Applied Materials (Dalian) Co. Ltd.

## E

EAFab  
Ebner Furnaces Inc.  
Ecovery  
Edwards Vacuum  
Elettrotek Kabel North America Inc.  
eMeasurematics  
Emerson Industrial Automation  
EMG USA Inc.  
**EMPCO**  
EMSCO Inc.  
Enertech Inc.  
Enrotech  
Ergolines Lab srl  
ERIEZ  
ESM Group Inc.  
ESW Inc.  
ETA Engineering Inc.  
ETS/Evertz Technology Service  
EVERLOY Shoji Co. Ltd.  
Exactration LLC  
EXO Technologies LLC

## F

Falk-PLI  
Fedmet, Diamond Graphite, TKE  
Ferrum International  
Filtertech  
Finzer Roller Inc.  
Fives

- Fives Bronx
- Fives Celes
- Fives DMS
- Fives Keods
- Fives North American Combustion Inc.
- Fives North American Construction Services Ltd.
- Fives OTO SpA
- Fives ST Corp.
- Fives ST Furnace Div.
- Fives Stein Inc.

Flame Tech  
FLANDERS  
Flexospan  
Flow In Motion  
**FLSmith Inc. – AFT Division**  
Freudenberg-NOK Sealing Technologies  
FrigorTec LP

**BOLD = AISTech 2015 sponsor**

# EXHIBITORS

as of 11 March 2015

Fromm Packaging Systems  
FTI Flow Technology Inc.  
Fuchs Lubricants Co.

## G

G.W. Becker Inc.  
GAI-Tronics  
Galdabini SPA  
Gantrex Inc.  
Gexpro  
Gigasense AB  
Gleason Reel  
Global Gauge Corp.  
Globex Corp.  
Gorman-Rupp Pumps  
GP Strategies  
GPM – Eliminator Solid Pumping Solutions  
Gradall  
**GrafTech**  
Graphite Electrode Sales Inc.  
GS Hydro Inc.  
Guild Internationa

## H

Habets BV – Surface Technology  
HARSCO  
HASTEC Engineering Inc.  
HASTEC Rebs Inc.  
Hatch  
Hauck Manufacturing Company  
Hausner Hard-Chrome Inc.  
HBC-radiomatic Inc.  
HDT Global  
HECO – All Systems Go  
HEF Groupe USA  
HEG Limited  
HELMKE  
**Heraeus Electro-Nite**  
Herzog Automation Corp.  
**Hickman, Williams & Co.**  
Hohl Industrial  
Horsburgh & Scott  
Hose Master  
Houghton International  
Hubbell Inc.  
Hubbell Industrial Controls  
Hubbell Lighting  
Huebner  
Hunger Hydraulics CC Ltd.  
Hutchinson Industries  
HydroAire Inc.

Hyson Industrial  
Hyster Co.

## I

iba America LLC  
IDC Industries  
Ideal Welding Systems L.P.  
IKEUCHI USA Inc.  
Imerys Metalcasting Solutions  
(formerly Stollberg)  
Incosa Solutions  
INDEV Gauging Systems  
Inductotherm Corp.  
Industrial Pulley Puller  
InfoSight  
Innerspec Technologies  
In-Place Machining Co.  
INTECO atec automation  
INTECO Group  
INTECO pti process technology int.  
INTECO special melting technologies  
INTECO tbr casting technologies  
Integrated Power Services  
Integrity Tax Consulting  
IntelliSchematic  
IRCON Inc.

*Iron & Steel Today*

**Irwin Car and Equipment**

ISRA VISION Parsytec Inc.  
ITC – International Technical Ceramics LLC  
Itipack Systems  
ITR  
IVC Technologies

## J

J.C. Steele & Sons Inc.  
J.R. Merritt Controls  
J.T. Thorpe & Son Inc.  
James Walker Mfg.  
Janus Automation  
Jayne Industries Inc.  
Jordan Transformer  
JW Hicks Inc.

## K

Kalenborn Abresist Corp.  
Kalmar USA  
KAMAG Transporttechnik GmbH & Co. KG  
Kastalon Inc.  
Kelly Tube Systems  
Kenwood USA Corp.  
KettenWulf USA L.P.

Key Bellevilles  
Killark  
Kocsis Brothers Machine Co.  
Konecranes Inc.  
Koyo Bearings  
Kress Corp.  
KT Grant Inc.  
Kubota Materials Canada

## L

Laird  
LAKOS Separators and Filtration Solutions  
LAP Laser  
Latanick Equipment Inc.  
Lechler Inc.  
Lehigh Heavy Forge Corp.  
Lenox Instrument Co. Inc.  
LIMAB North America  
Linde LLC  
Lintern Corp.  
LISMAR Inc.  
Logika Technologies  
Lokring Great Lakes  
Loveman Steel Corp.  
Ludeca Inc.  
Lumar Metals North America  
LumaSense Technologies

## M

M. Brashem Inc.  
Mack Mfg.  
Magaldi Industrie S.r.l.  
Magid  
MAGNA  
Magneco/Metrel Inc.  
Magnesita – KMR  
Magnetech Industrial Services  
Magnetek  
Malco Inc.  
Management Science Associates  
MAS Air Systems LLC, a New York Blower company  
Matrix NAC  
Maxcess (Webex, Fife, Tidland, MAGPOWR)  
Mazzella Companies  
McKeown Group  
Measurement Systems International, a Rice Lake Weighing Systems brand  
Melter  
Merford Cabins  
MERMEC Inc.  
Messinger Bearings

Metal Products and Engineering  
Metallurgical Solutions Inc.  
MICRO-EPSILON America  
Middough Inc.  
**Midrex**<sup>+</sup>  
Midwesco/TDC Filter  
Midwest Engineering and Automation  
Midwest Industrial Supply Inc.  
Mi-Jack Products  
MikroPul Nederman  
Mino  
Minteq International Inc.  
Miwenti  
Mobil Industrial Lubricants  
Moduloc Control Systems  
Moffitt Corp.  
MORE s.r.l.  
Morgan Engineering Systems Inc.  
MRSI

**MTUS Technology Inc.**

## N

Nalco, an Ecolab company  
National Safety Apparel Inc.  
**NCCM Co.**  
NDC Technologies Inc.  
Nicro S.P.A.  
**Nidec Industrial Solutions**  
NILCO  
NORD-LOCK/SUPERBOLT  
**North American Crane Bureau Inc.**  
Northrop Grumman Information Systems  
NSD Corp.  
**NSK Americas**  
**NTN Bearing Corp.**  
Nutec Bickley

## O

Oerlikon Leybold Vacuum  
Ohio Magnetics Inc.  
Oil Skimmers Inc.  
Orival Water Filters  
Osborn  
OTC Services Inc.  
Otto Trading Inc.  
Oxford Instruments  
Oxy-Arc International Inc.  
Oxylance

## P

Pacific Consolidated Industries  
Pannier Corp.



# EXHIBITORS

as of 11 March 2015

Parker Hannifin Complete Piping Solutions  
Paul Wurth Inc.  
Perfection Servo  
Pfeiffer Vacuum  
PhyMet Inc.  
Pintsch Bubenzer USA  
PKG Equipment Inc.  
Plattco Corp.  
Polytec Inc.  
Polytec SRL  
POSCO E&C  
Power Asset Recovery Corp.  
Power Electronics  
Powerohm Resistors  
Praxair Inc.  
Praxair Surface Technologies  
PRC Inc.  
PREET Machines Ltd.

**Primetals Technologies U.S.A. Holdings Inc., formerly Mitsubishi-Hitachi Metals Machinery Inc.**  
**Primetals Technologies USA LLC, formerly Siemens VAI**  
Prince International Corp.  
ProcessBarron  
Proco Products Inc.  
ProMinent Fluid Controls Inc.  
Proto Manufacturing  
Pruftechnik Service Inc.  
PSI Metals North America Inc.  
PT TECH  
Purdue University Calumet  
Pyro Shield  
Pyrotek Inc.

## Q

**Quaker Chemical Corp.**  
Qual-Fab Inc.  
QuinLogic

## R

RR&MS Solutionpartner GmbH & Co. KG  
RAD-CON Inc.  
RAMON Science & Technology Co. Ltd.  
Rapid Gear  
**REA JET**  
RECO Equipment Inc.  
REDEX  
Regal Power Transmission Solutions  
Reichard Industries LLC  
RelaDyne  
Renold Torque Transmission

REXA  
**Rexnord Industrial Services**  
RHC Deutschland GmbH  
RHI AG  
Riise Inc.  
Ritbearing Corp.  
Robinson Fans Inc.  
Ross Controls  
RotaDyne  
RoviSys  
Russula

## S

**S.G. Morris Co.**  
S.P. Kinney Engineers Inc.  
SAB North America  
Samuel Strapping Systems  
SANGRAF International  
Sarclad North America L.P.  
**Sarralle USA Inc.**  
Scantron Robotics  
Schenck Process  
Scheuerle Fahrzeugfabrik GmbH  
**Schneider Electric**  
Schoen Insulations Services  
Schust Engineering  
Schweitzer Engineering Laboratories  
SD Myers  
Seifert Companies  
Selinsky Force LLC  
Senett Control Co. Ltd. Gessmann Group  
SenTek Corp.  
Sentek Solutions Inc.  
**SES LLC**  
Severn Trent Services  
SGL Carbon  
SGM Magnetics Corp.  
Shanghai Gongxiang  
Shanghai Tianbao Stainless Steel Co. Ltd.  
Shantou Hi-Tech Zone ESG Bearing Manufacture Co. Ltd.  
Shapeline  
Shinagawa Refractories Co. Ltd.  
Showa Denko Carbon Inc.  
Shuttlelift  
SIDEREX  
Signal Metal  
Silvent North America Inc.  
Simmers Crane Design & Services  
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 GmbH
- Paul Wurth Inc.

Solenis  
Solid Platforms Inc.  
Sonetics Corp.  
Sonic Air Systems  
**Spraying Systems Co.**  
SRI  
Starex Inc./Nantong Carbon  
Starr Manufacturing Inc.  
*Steel Times International*  
Stellar Materials Inc.  
Stoody Co.  
STOR-LOC  
Structural Design Corporation  
Stucchi USA Inc.  
Sund Birsta AB  
Superior Environmental Solutions (SES Inc.)  
Superior Graphite  
Superior Industries  
Superior Machine  
System Seals Inc.  
The Systems Group

## T

T. Bruce Sales Inc.  
Taier Heavy Industry Co. Ltd.  
**Tallman Bronze**  
**Tamini Transformers**  
Taylor Machine Works Inc.  
Tebulo NA Ltd.  
Technical Weighing Services Inc.  
Temtek Solutions/MSSI Refractory  
**Tenova**  
TES Transformer Electro Service S.R.L.  
ThermalMax Inc.  
**Thermo Scientific**  
Thermo-Calc Software  
Thermocast S.p.A.  
Thomas & Betts  
**TMEIC**  
Tokai Carbon Group  
Transbotics Corp.  
Transformers and Rectifiers (India) Ltd.  
TransTech  
Tri-Chem  
Tribco Inc.

Visit [AISTech.org](http://AISTech.org) for the most up-to-date list of exhibitors.

T-T Electric USA  
Tube City IMS  
Tube-Mac Piping Technologies

## U

U.S. Tsubaki Power Transmission LLC  
**UKCG Group Limited**  
UMECC  
Unifrax  
Unigen Steel Engineering srl  
Unilux  
Union Electric Steel Corp.  
United Rolls  
Universal Plant Services Inc.

## V

VAHLE Inc.  
Vail Rubber Works Inc.  
VELCO GmbH  
Veolia Water Technologies  
Vesuvius USA  
Vista Control Systems  
Voith Turbo Inc.  
Vollmer America Inc.  
VUHZ a.s.

## W

Walker Magnetics  
Watteredge LLC/Flohe  
West Virginia Development Office  
WHEMCO Inc.  
WHEMCO Ohio Foundry  
WHEMCO Steel Castings Inc.  
Whiting Corp.  
Whiting Equipment Canada  
Winkle Industries Inc.  
Franz Wölfer Elektromaschinenfabrik Osnabruck GmbH  
WS Thermal Process Technology Inc.

## X-Z

Xtek/Bradley Lifting  
Yates Cylinders  
Yoder – a member of the Formtek Group  
Zhuzhou Cemented Carbide Works USA Inc.

# SCHEDULE OF EVENTS

## Sunday, 3 May

Golf Registration, Practice, Lunch  
Student Plant Tour  
Technical Sessions  
Conference Registration  
AIST Foundation Golf Classic  
Young Professionals' Reception  
*(by invitation)*

Noon–1 p.m.  
Noon–4 p.m.  
1–3:30 p.m.  
Noon–5 p.m.  
1–7 p.m.  
5–6 p.m.

## Monday, 4 May

Author/Chair Breakfast  
Conference Registration  
**Howe Memorial Lecture**  
Exhibit Floor Open  
AIST Service Center Open  
Graduate Student Poster Contest Display  
Undergraduate Student Project Presentation Contest  
Technical Sessions  
University-Industry Relations Roundtable  
Technology Committee Meetings  
Technical Sessions  
AIST Welcome Reception — Exhibit Hall  
Steel to Students Reception

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

## Tuesday, 5 May

Author/Chair Breakfast  
**President's Award Breakfast**  
Conference Registration  
Exhibit Floor Open  
AIST Service Center Open  
Technical Sessions  
Exhibit Hall Lunch  
Technology Committee Meetings  
Technical Sessions

7–8 a.m.  
**8–9:45 a.m.**  
8:30 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–2 p.m.  
2–5 p.m.

Reception — Exhibit Hall 5–6 p.m.

## Wednesday, 6 May

Author/Chair Breakfast 7–8 a.m.  
Conference Registration 7:30 a.m.–2 p.m.  
**Town Hall Forum 8:30–11:15 a.m.**  
Exhibit Floor Open 11 a.m.–3 p.m.  
AIST Service Center Open 11 a.m.–3 p.m.  
Town Hall Lunch — Exhibit Hall 11:30 a.m.–1:30 p.m.  
Truck Giveaway — Exhibit Hall 11:45 a.m.  
Technology Committee Meetings Noon–2 p.m.  
Exhibitor Committee Meeting 1–2 p.m.  
Technical Sessions 2–5 p.m.  
AIST Prize Drawings 2:30–2:45 p.m.

## Thursday, 7 May

Plant Tour: ArcelorMittal Cleveland 7:30 a.m.–Noon  
Charter Steel – Cleveland 7:30 a.m.–Noon  
TimkenSteel Corp. – Faircrest Plant 7:30 a.m.–2 p.m.

The AISTech schedule of events is subject to change.

## Young Professional Program

Expand your industry knowledge and network at AISTech 2015. 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, 3 May 2015:

- Networking reception exclusively for industry young professionals

\*Cannot be combined with any other discount.

This program is sponsored by the AIST Foundation.





# PLANT TOURS

Limited space available, register soon!

## ArcelorMittal Cleveland • Thursday, 7 May • 7:30 a.m.–Noon



ArcelorMittal Cleveland is recognized as one of the most productive integrated steelmaking facilities in the world, producing one ton of steel for slightly more than one worker hour. Part of the world's leading steel and mining company, the Cleveland facility is the company's third largest in the United States. The plant operates two blast furnaces which can feed two steelmaking facilities capable of producing 3.8 million tons of raw steel annually. In recent years, ArcelorMittal Cleveland has become a global center of excellence in producing advanced high-strength steel for the automotive industry. Products made at this location are hot rolled, cold rolled and hot-dip galvanized sheet and semi-finished (slabs).

## Charter Steel – Cleveland • Thursday, 7 May • 7:30 a.m.–Noon



Charter Steel is a producer of high-quality carbon and alloy steel rod, bar and wire. This site utilizes state-of-the-art technology in equipment and manufacturing systems to optimize steel cleanliness, precision rolling tolerances and coil handling.

## TimkenSteel Corp. – Faircrest Plant • Thursday, 7 May • 7:30 a.m.–2 p.m.



At the Faircrest Plant, TimkenSteel develops some of the strongest alloy steels in the world. The plant's 450-acre site houses individual steelmaking, ingot and continuous casting and steel-processing facilities. The plant's new jumbo bloom vertical caster is the biggest continuous vertical bloom caster globally and the only one of its kind in North America. The caster uses an optimized tundish design and advanced clean steelmaking technology to help create answers to customers' toughest engineering challenges.

# REGISTRATION

Register by 13 April 2015 and save up to US\$100 on full conference or one-day registrations.

### FULL CONFERENCE REGISTRATION

Monday–Wednesday, 4–6 May

**US\$650** Member  
Adv. Reg.

**US\$850\*** Non-member  
Adv. Reg.

### FULL-TIME STUDENT REGISTRATION

**FREE** Member  
Adv. Reg.

**US\$50** Non-member  
Adv. Reg.

### ONE-DAY CONFERENCE REGISTRATION

Monday, Tuesday or Wednesday

**US\$475** Member  
Adv. Reg.

**US\$675\*** Non-member  
Adv. Reg.

### EXPOSITION ONLY

**FREE** Member

**US\$50** Non-member

\*Non-member full conference and one-day registrations include 2015 AIST membership upon completed membership application at AISTech 2015. Student non-members receive membership to Material Advantage upon completed membership application at AISTech 2015







186 Thorn Hill Road  
Warrendale, PA 15086 USA



# & AIISTech<sup>®</sup>2015 & IICSTI TRUCK GIVEAWAY

## Drive Home in Style!

11:45 a.m. 6 May 2015 • AIST Service Center Booth (# 2701)



Sponsored by



Must be present at final drawing to win.

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