+ AISTech 2017
The Iron & Steel Technology Conference and Exposition
# Meet the Experts

**May 8, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Title and Details</th>
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</table>
| 9:30 a.m. (RM 207D) | | Kyle Chomyn, Senior Engineer, SEAD  
Blast Furnace Hearth Thermal Assessment and Identification of Wear Zones  
(Ironmaking; Refractory Systems) |
| 9:30 a.m. – 12:00 p.m. (RM 207B) | | Dave Rudge, Global Director, Engineered Equipment  
Blast Furnace Technology Development & Research  
(Ironmaking) |
| 9:30 a.m.– 12:00 p.m. (RM 102B) | | Nicole Sitler, Junior Process Engineer  
Plant Upgrades & New Equipment Developments  
(Hot Sheet Rolling) |
| 10:00 a.m. (RM 208B) | | Janice Bolen, Senior Process Engineer  
Historical Operating Cost Comparison for North American Iron and Steelmaking Routes  
(DRI; Electric Steelmaking) |
| 11:00 a.m. (RM 207A) | | Ian Cameron, Principal Metallurgist - Ferrous  
Optimum Blast Furnace Slag Composition for Hot Metal Production, Slag Granulation and Cement Use  
(Ironmaking) |
| 2:00 p.m.– 5:00 p.m. (RM 205C) | | Fraser Lougheed, Process Engineer - Gas Handling  
Cost Savings Technologies  
(Environmental; Energy & Utilities) |
| 2:00 p.m.– 5:00 p.m. (RM 207A) | | Ian Cameron, Principal Metallurgist - Ferrous  
Raw Materials - Sintering & Pelletizing  
(Ironmaking) |
| 2:00 p.m.– 5:00 p.m. (RM 201B) | | Neil Tannyan, Project Manager- Iron & Steel  
Important Lessons for Successful Projects  
(Project and Construction Management) |
| 3:30 p.m. (RM 205C) | | Tom Plikas, Process Consultant  
Assessing Process Impacts of Retrofits for NOx Reduction in Fired Ironmaking Equipment  
(Environmental; Energy & Utilities) |
| 4:00 p.m. (RM 207B) | | Dustin Vickress, Mechanical Engineer - Technologies  
Technology Advancements in Blast Furnace Cooling  
(Ironmaking) |
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<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>10:00 a.m.</td>
<td>RM 207B</td>
<td>The Advancement of a Non-Destructive Testing Method for Cooling Staves Thicknesses (Ironmaking)</td>
<td>Winnie Ying, NDT Specialist</td>
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<td>10:00 a.m.– 12:00 p.m.</td>
<td>RM 207A</td>
<td>Blast Furnace Operations – Campaign Life &amp; Productivity (Ironmaking)</td>
<td>Ian Cameron, Principal Metallurgist - Ferrous</td>
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<tr>
<td>10:00 a.m.– 12:00 p.m.</td>
<td>RM 208B</td>
<td>DRI Raw Materials (Direct Reduced Iron)</td>
<td>Janice Bolen, Senior Process Engineer</td>
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<tr>
<td>10:00 a.m.– 12:00 p.m.</td>
<td>RM 207B</td>
<td>Equipment &amp; Maintenance (Ironmaking)</td>
<td>Dave Rudge, Global Director, Engineered Equipment</td>
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<tr>
<td>10:30 a.m.</td>
<td>RM 207A</td>
<td>Methodology to Estimate Remaining Blast Furnace Service Life (Ironmaking)</td>
<td>Mitren Sukhram, Process EIT</td>
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<tr>
<td>2:00 p.m.– 5:00 p.m.</td>
<td>RM 201B</td>
<td>Achieving Production Excellence While Postponing Major Maintenance Outages (Project and Construction Management)</td>
<td>Russell Sindrey, Regional Manager - Iron &amp; Steel Canada</td>
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<tr>
<td>2:00 p.m.– 5:00 p.m.</td>
<td>RM 202B</td>
<td>Environmental Sustainability (Environmental)</td>
<td>Kyle Wolfe, Junior Process Engineer</td>
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<tr>
<td>2:30 p.m.</td>
<td>RM 103C</td>
<td>Effective Asset Investment Planning for Sustaining Capital Projects - A Case Study for Steel Manufacturing Operations (Maintenance and Reliability)</td>
<td>Michiel Freislich, Manager Advisory</td>
</tr>
<tr>
<td>3:00 p.m.</td>
<td>RM 207A</td>
<td>Performance Comparison of Different Blast Furnace Hearth Designs Using a Novel Structural Refractory Assessment Methodology (Ironmaking)</td>
<td>Hamid Ghorbani, Practice Lead - Specialised Engineering Analysis &amp; Design (SEAD)</td>
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<td>3:30 p.m.</td>
<td>RM 207A</td>
<td>Yakov Gordon, Technical Director - Ironmaking</td>
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<td>Careful Control of Refractory Lining Conditions at NTMK-EVRAZ Ensures Intensive Operation and Long Campaign of Titania Blast Furnace (Ironmaking)</td>
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<td>3:30 p.m.</td>
<td>RM 202C</td>
<td>Andrew Kasza, Mobile/Data Lead - Water</td>
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<td>Demonstration of a High-Throughput Treatability Technique for Evaluating the Physico-Chemical Treatment of Wastewater and Tailings (Environmental)</td>
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<td>3:30 p.m.</td>
<td>RM 103C</td>
<td>Majid Maleki, Senior Structural Engineer</td>
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<td>Design for Vibration for Basic Oxygen Furnace Supports                        (Maintenance and Reliability)</td>
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<tr>
<td>3:30 p.m.</td>
<td>RM 103A</td>
<td>Sunil Kumar, Director - Iron &amp; Steel</td>
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<td>Improving Operational Efficiency and Cost Competitiveness of Steel Plants — A Case Study for Electric Furnace Melt Shop and Hot Rolling Mill (Rod and Ball Rolling)</td>
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<tr>
<td>3:30 p.m.</td>
<td>RM 207A</td>
<td>Afshin Sadri, Global Director of Non-Destructive Testing (NDT) Technologies</td>
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<td>Salamander Tapping Position by Using an Acousto Ultrasonic Non-Destructive Testing (NDT) Technique (Ironmaking)</td>
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<td>4:30 p.m.</td>
<td>RM 207B</td>
<td>Yakov Gordon, Technical Director - Ironmaking</td>
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<td>Influence of Sinter and Pellets on Blast Furnaces Operation (Ironmaking)</td>
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<td>4:30 p.m.</td>
<td>RM 202B</td>
<td>Janice Bolen, Senior Process Engineer</td>
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<td>Technical and Environmental Benefits for Dry Atomization of Stainless Steel and Ladle Metallurgy Slags (Environmental)</td>
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May 10, 2017

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<tr>
<td>8:00 a.m.</td>
<td>RM 208B</td>
<td>Janice Bolen, Senior Process Engineer</td>
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<td>Economics of HBI Addition to North American Blast Furnaces (Ironmaking, DRI)</td>
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<tr>
<td>8:00 a.m. – 10:00 a.m.</td>
<td>RM 207A</td>
<td>Session Chair: Mitren Sukhram, Process EIT</td>
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<td>Blast Furnace Operations Investigations &amp; Analysis II (Ironmaking)</td>
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<tr>
<td>9:00 a.m.</td>
<td>RM 207D</td>
<td>Mitren Sukhram, Process EIT</td>
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<td>Hot Blast Superheating - A Scalable Technology to Reduce Coke Consumption (Ironmaking; Refractory Systems)</td>
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<tr>
<td>9:30 a.m.</td>
<td>RM 207A</td>
<td>Yakov Gordon, Technical Director - Ironmaking</td>
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<td>Mathematical Model and Stabilization System for Slag Mode of Blast Furnace Operation (Ironmaking)</td>
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Leveraging our global pool of iron and steel experts

Iron ore mining
- Grade control
- Fleet performance
- Availability and utilization
- Cost benchmarking
- Mine development
- Lean mining

Primary processing
- Process design
- Cost benchmarking
- Plant debottlenecking
- Availability and utilization
- Asset life assessment
- Sustaining capital
- Waste heat recovery

Rolling & finishing
- Endless strip processing
- Mass coating control systems
- Efficient mill design
- Cost benchmarking

Supply chain & purchasing
- Procurement strategy
- Transportation systems
- Contracts
- Warehousing
- Systems integration
- Global sourcing
- Supplier negotiation

Asset management & reliability
- Maintenance planning
- Predictive maintenance
- Mean time between failures (MTBF)
- Mean time to repair (MTBR)
- Wrench time
- Spares

Sustaining capital
- Technologies
- Estimating
- Engineering
- Project execution
- Cost control

Digital
- Work management systems
- Short interval control
- Wearables
- Drones and robotics

Sustainability
- GHG emission reduction
- Energy optimization
- Social engagement
- Life cycle assessments

Organization & site overhead
- Technical services
- Training and facilitation
- Organizational systems
- Site infrastructure
- Camp services
- Microgrid power
Town Hall Forum
2017: Steel in the Age of President Trump

May 10, 2017

The Town Hall Forum provides an insider’s view into today’s steel industry from the people who know: a panel of respected leaders from some of the industry’s best-regarded companies. We’ll explore the promises and the peril of the Donald J. Trump administration, along with other key topics, during the AISTech 2017 Town Hall.

- Trade Policy
- Workforce Development
- Growth Markets

Source: www.aist.org

George J. Koenig is director – global business and technology development for Iron & Steel at Hatch. George is AIST’s past president (2015-2016). Also, he is an associate member of the AISI and the SMA.

George is a steel industry expert where he leads Hatch’s client development and growth strategies, leveraging our strong technical advisory, technology, project delivery, and operational support capabilities.

Previously worked for Heraeus Electro-Nite in marketing and sales positions and as President of Berry Metal Company before joining Hatch.


Through his many years of experience, professional associations, and client involvement, George has developed an extensive network of key contacts within the iron and steel industry, which he is able to leverage into value for Hatch’s clients. All of his available resources will be deployed to ensure the satisfaction and success of every project Team that he is part of.

Chair:
George Koenig
Director – Global Business and Technology Development, Iron & Steel
Theodore F. Lyon is managing director — bulk metals for Hatch Associates, with responsibility for its Iron & Steel and Light Metals Businesses, and president of Hatch Associates Consultants Inc., Pittsburgh, Pa., USA.

He is responsible for client development, technology development and applications, project development and execution, and overall business performance associated with Hatch’s advisory, technical consulting, engineering, and project delivery services to the iron and steel and light metals industries worldwide. Ted began his career with Conoco Inc. in the petrochemicals, chemicals and polymers business, and held various maintenance, operations, and engineering and project management positions in Maryland, Louisiana and Mississippi.

In 1990, he joined Eichleay Engineers and progressed through various management positions to vice president — business development before joining the Hatch Group in 2002. Ted earned both his B.S. degree in mechanical engineering (1980) and M.B.A. (1993) from the University of Pittsburgh and is a registered professional engineer in Pennsylvania, New York, Michigan, Mississippi and Louisiana.

He is active with AIST as a Foundation Trustee, and is chairman of the University of Pittsburgh Swanson School of Engineering Mechanical Engineering and Materials Science Visiting Committee.
Meet more Hatch Experts at booth #1608