



Upcoming Events

Long Products Rolling –
A Practical Training Seminar
25–28 February 2019
Homewood Suites by Hilton
Charleston Historic District
Charleston, S.C., USA

The Making, Shaping and Treating of Steel: 101
26–27 February 2019
DoubleTree by Hilton Memphis Downtown
Memphis, Tenn., USA

Sheet Processing and Finishing Lines –
A Practical Training Seminar
17–21 March 2019
The Battle House Renaissance Mobile Hotel
Mobile, Ala., USA

26th AIST Crane Symposium
2–4 June 2019
Seabach Hilton
Louisville, Ky., USA

Digital Transformation Forum for the Steel Industry

25–28 March 2019
Omni William Penn Hotel
Pittsburgh, Pa., USA



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About the Program

Digital transformation is a critical component for steel companies' future success. It is a broad concept with the potential to influence all aspects of the steelmaking process. This workshop will provide an overview of and insight into the buzzwords (Industry 4.0, the Internet of Things) and technologies of digital transformation, such as smart sensor applications, artificial intelligence, robots and drones, augmented and virtual reality, cybersecurity, and additive manufacturing. Some sessions will focus on the integration and practical application of these technologies and procedures.

Who Should Attend

Decision-makers and those with a technical background who are interested in learning more about how to make their areas smarter by utilizing digital transformation methods through the use of automation, information technology, maintenance, smart factories, the digital supply chain, cloud computing and advanced tools.

Professional Development Hours

This course may qualify for up to 18.5 Professional Development Hour (PDH) credits. Each attendee will receive a certificate listing the quantity of PDH credits earned for this course. This course is not approved for PDH credit in New York, Florida, North Carolina and Oklahoma.

Organized By

AIST's Electrical Applications Technology Committee/Sensors Subcommittee and Computer Applications Technology Committee.

Registration Includes

Reception Monday and Tuesday, breakfasts Tuesday through Thursday, lunches Tuesday and Wednesday, continuous breaks, and a course workbook or flash drive including presentations.

Hotel Accommodations

A block of rooms has been reserved at the Omni William Penn Hotel. Please call the hotel at +1.800.843-6664 by 4 March 2019 to secure the AIST discount rate of US\$145 per night for single/double occupancy.

AIST Members

US\$945

by 11 February 2019

US\$1,045

after 11 February 2019

AIST Non-Members

US\$1,160

by 11 February 2019

US\$1,260

after 11 February 2019



AIST.org

Schedule of Events



Monday, 25 March 2019

4 p.m.
Registration

5–6 p.m.
Welcome Reception

Tuesday, 26 March 2019

7 a.m.
Registration and Breakfast

8 a.m.
Opening Remarks
Ron Ashburn, Association for Iron & Steel Technology, and Michael Dudzic, ArcelorMittal Dofasco G.P.

8:10 a.m.
Keynote Presentation: Digitalization and the Steel Industry
Pinakin Chaubal, ArcelorMittal Global R&D

9 a.m.
Overview of the Digital Transformation of Industry
Gary Fedder, Carnegie Mellon University

9:40 a.m.
Break

9:55 a.m.
Creating and Leveraging Digital Ecosystems to Deliver Real ROI
Steve Carlson, ThermoFisher Scientific

10:35 a.m.
Digital Transformation: The Edge Analytics Approach to Industry 4.0
David Kober, iba America LLC

11:15 a.m.
Synchronized Real-Time Analysis of Video Data and Measurement Data for Holistic View of Steel Production
Andreas Quick, IBA AG

11:55 a.m.
Lunch

1 p.m.
Autonomous Material Handling System (AGVs and Cranes) in the Steel Industry
Edgardo LaBruna, Janus Automation LLC

1:40 p.m.
Steel Drones
Jeffery Yeager, AM/NS Calvert LLC

2:20 p.m.
VR and AR Visualization for Digital Transformation
Chenn Zhou, Purdue University Northwest

3 p.m.
Break

3:15 p.m.
The Role of Real-Time Operational Data in the Digital Transformation of Steel Companies
Perry Zalevsky, OSisoft LLC

3:55 p.m.
Using AI Modeling for Predictive Quality and Routing
Heiko Wolf, PSI Metals GmbH

4:35 p.m.
Cybersecurity Systems and Its Implementation/Practical Application of Cybersecurity Systems
Johannes Bauer, UL International Germany GmbH

5:15 p.m.
Reception

Wednesday, 27 March 2019

7 a.m.
Breakfast

8 a.m.
Keynote Presentation: Digital Transformation: Beginning With the End in Mind
R. Joseph Stratman, Nucor Corp.

For a complete list of abstracts, visit AIST.org

8:50 a.m.
Introduction to Big Data: The Fuel to Digital Transformation
Kevin Modreski, IBM North America

9:30 a.m.
Cloud Computing Examples in the Metals Industry
Patrick Gallagher, Management Science Associates Inc.

10:10 a.m.
Break

10:30 a.m.
What Is AI and How to Get Started With It in Steel Operations
Mahesh Bhatia, Noodle.ai

11:10 a.m.
Applications of AI in Steel Manufacturing: Selected Client Cases
Jose R. Favilla, IBM Worldwide Industry Solutions

11:50 a.m.
Lunch

1 p.m.
How AI Can Fast-Track Your Industrial Automation
Humera Malik, Canvass Analytics

1:40 p.m.
From Buying Scrap to Delivering Coils – How AI Can Enable a Better Steel Industry
Ying Tat Leung and Hyungil Ahn, Noodle Analytics Inc.

2:20 p.m.
Case Study for a Data Lake Implementation in a Sheet Mill
Robert Oldroyd, Nucor Steel – Decatur LLC

3 p.m.
Break

3:15 p.m.
Manufacturing 4.0 for Metals
Manish Lunge, TATA Consultancy Services

3:55 p.m.
Data Analytics Based on Projected Quality Data Enabling Product Optimization and Development of New Steel Grades
Wolfgang Oberaigner, Primetals Technologies Austria GmbH

4:25 p.m.
Driving Operational and Economic Impact With Real Machine Learning Applications
Aldo Ferrante, ITG Technologies

Thursday, 28 March 2019

7 a.m.
Breakfast

8 a.m.
Keynote Presentation: Artificial Intelligence: Enabling a Leap to Radical Efficiency
Stephen Pratt, Noodle.ai

8:50 a.m.
Live Monitoring and Forensics for Product Quality
Pallavi Mohata, SMS group Inc. and Sanika Athaley, SMS group Inc.

9:30 a.m.
Efficiency Potentials Within Process Optimization
Benedikt Rettenbacher, ANDRITZ

10:10 a.m.
Break

10:30 a.m.
Your Digital Transformation Journey in the Steel Industry: Big Data IoT Impact
Leonard Kosatka, Rockwell Automation

11:10 a.m.
Digital Transformation: The Importance of a Strategy and Road Map
Craig Thornton, Hatch Ltd.

11:50 a.m.
Lunch

1 p.m.
Digital Transformation Roundtable Discussion
Panelist: Donald Hughes, Nucor Steel–Decatur LLC
Mike Dudzic, ArcelorMittal Dofasco G.P.
Christopher Carney, AK Steel Corp.

3 p.m.
Adjourn Conference