About the Program
The symposium will deliver practical information and experiences from crane maintenance personnel, crane manufacturers, equipment manufacturers and engineering consultants who strive to make electric overhead traveling (EOT) cranes and their runways the safest, most reliable, durable machinery and equipment in the industry. This two-day program will include presentations focused on safe work practices and ergonomics; electrical, mechanical and structural maintenance techniques; crane inspection technologies; and best practices in EOT crane modernizations. As part of the Crane Symposium program, the Charlie Totten Crane Innovator of the Year Award winner will be announced, recognizing the individual who has brought forth the latest in technology, or increased efficiencies in operational and maintenance practices for the continuous improvement of heavy industrial cranes.

Who Should Attend
Plant maintenance staff; applications, electrical, mechanical, safety, service and design engineers; operations and maintenance personnel and management; and those people who supply parts, equipment and services to the industry. Anyone who has responsibility for cranes and crane service and is interested in improvements and incidents in this area should attend.

Professional Development Hours
This course may qualify for up to 14 Professional Development Hour (PDH) credits. Each attendee will receive a certificate listing the quantity of PDH credits earned for the course. This course is not approved for PDH credit in New York, Florida, North Carolina and Oklahoma.

Organized By
AIST’s Cranes Technology Committee.

Registration Includes
Sunday reception, breakfasts and lunches Monday and Tuesday, a dinner Monday evening, and a course workbook or flash drive including presentations.

Hotel Accommodations
A block of rooms has been reserved at The Seelbach Hilton. Please call the hotel at +1.800.333.3399 by 10 May 2019 to secure the AIST discount rate of US$159 per night for single/double occupancy.

AIST Members
US$895
by 22 April 2019
US$995
after 22 April 2019

AIST Non-Members
US$1,110
by 22 April 2019
US$1,210
after 22 April 2019

Visit AIST.org/byoyp for more information
Schedule of Events

Sunday, 2 June 2019

4–6 p.m.  Registration
5–6 p.m.  Reception

Monday, 3 June 2019

7 a.m.  Registration and Breakfast
8 a.m.  Introduction and Opening Remarks
8:15 a.m.  2019 Charlie Totten Crane Innovation Award: Proper Crane Rigging Training
Heath Hooker, Nucor-Yamato Steel Co.
8:45 a.m.  Crane Emergency Brakes in Critical Lift Applications
Mike Astemborski and Joel Cox, Pitchfork Eubanzer USA
9:15 a.m.  How to Give a Technical Presentation
Tom Bieringer, Gantex Inc.
9:45 a.m.  Break
10 a.m.  Benefits of Weight Measurements on an Overhead Crane
Bob Wymynko, RHN Neber Canada
This presentation discusses the benefits of having a weight measurement system on cranes.
10:30 a.m.  The Scared In Safety
Todd Cook, Hoekstra Crane
This presentation will discuss changes in the U.S. Occupational Safety and Health Administration’s standards for fall protection and the impact of those changes on the crane industry.
11 a.m.  A Look Six Years Later at a Fully Autonomous AIST Class 4 Pot Mill W/P Crane
Steve Horner, Morgan Engineering and Jared Gilips, Nucor Steel–Berkley
Automated cranes, whether operated in full auto or semi-auto, can provide the user with increased throughput, repeatability, reduced operator error and improved safety. As with any project, the road to success is full of obstacles, big and small, with the end result being certainly worth the effort. This presentation will explore the project dimensions of a fully automated, non-manned EOT overhead bridge crane handling, including system hardware, motion control, automated sequence, ground-based safety designed into programmable logic controllers and intelligent controls with intellectual coding, level 2 interfaces and reporting. The presentation will conclude with lessons learned.
11:30 a.m.  Weld Joint Design: A Key to Understanding Weight Differences
Scott Zilke and Matt Jones, Morgan Engineering
Weld joint design is critical to understanding weight differences. The presentation will discuss weight differences as seen through the eyes of an integrated crane manufacturer. This abbreviated presentation gives insight on how to implement these systems resides among potential users. The presentation intends to illustrate its ease of installation and revisit its benefits.
1:15 p.m.  Crane Emergency Brakes in Critical Lift Applications
Twan Pelders, Ametek
The presentation will describe new technologies used in cranes utilized in the metals industry that facilitate crane electrification and safety.
1:45 p.m.  A Buyer’s Guide to Cranes
Alan Horgan, Whiting Corp.
An overview look at current crane specifications (AIST, CMAA, D2010-13001) and interpretations as they apply to various steel mill crane applications as seen through the eyes of an integrated crane manufacturer. This abbreviated presentation highlights considerations for a long-term material handling strategy.
2:15 p.m.  Break
2:30 p.m.  Methods for Monitoring Crane Magnet Operation and Condition
Brian Koth, Nucor Steel–Berkley
Magnet systems are critical tools for many applications in the steel industry. Magnet failures place employees at risk, and can cause damage and impact productivity. This presentation offers some tools that can be used to verify that design parameters are not being exceeded and determine the operational health of the complete magnet system.
3 p.m.  Crane Lab in Hell
Timothy Boyd, Steel Dynamics Inc. – Muncie Bar Division
This presentation details a before-and-after window systems upgrade. Discussion will include going from normal glass windows to ones designed for safety and comfort.
3:30 p.m.  Remembering Charlie Totten
Rich Worret, Foley Material Handling Co. Inc./Virginia Crane
4 p.m.  Panel Discussion
5:30 p.m.  Dinner on the Belle of Louisville Riverboat

Tuesday, 4 June 2019

7 a.m.  Breakfast
8 a.m.  Introduction and Opening Remarks
8:15 a.m.  OSHA Crane Inspections Programs That Clik
Larry Dunville and Todd Dunville, Overhead Crane Consulting LLC
Nowhere does the U.S. Occupational Safety and Health Administration (OSHA) say exactly what’s required for OSHA crane inspections. Well, that’s not exactly right, it does have 667 words, which is hardly enough to cover the multitude of issues involved in crane inspection. Further, if you ask 10 inspection professionals, you’ll probably get 10 different answers as to the requirements! This presentation will show you how to put together an OSHA inspection presentation that will help you keep production running and your people safe as well as work with any OSHA requirements. In the event of an unfortunate accident, this program should provide you with a firm foundation from which to begin the accident investigation process.
8:45 a.m.  The Human Impact of Cameras on Cranes
Heath Hooker, Nucor-Yamato Steel Co.
This presentation is designed for crane operators, crane managers, and crane owners. This presentation will explore the impact on OSHA duty cycle designation on crane design and subsequent results in reliability and life cycle cost. It will also present additional factors other than duty cycle that should be considered when specifying cranes.
8:45 a.m.  Break
9:00 a.m.  Crane Automation/Intelligent Crane Systems
Edgardo La Prusa, James Automation LLC
New technologies applied to crane automation, operation assistance, safety and maintenance will be discussed. The presentation will describe new technologies used in cranes utilized in the metals industry that facilitate crane automation, operation, safety and maintenance.
9:45 a.m.  The Human Impact of Cameras on Cranes
8:15 a.m.  A Buyer’s Guide to Cranes
Rich Worret, Foley Material Handling Co. Inc./Virginia Crane
This presentation covers a new method for safety isolating runway conductor rails to create designated maintenance areas for crane runways with multiple cranes. This method provides for maintenance area to be safely shut down and prevent being energized by tandem collectors.
10 a.m.  Lunch
1:15 p.m.  Crane, Cameras, Action!
Tuan Phuoc, Amcros
1:45 p.m.  Isolating Conductor Rails for Crane Maintenance Areas
Pete Kirst, Conductix Inc.
This presentation covers a new method for safely isolating runway conductor rails to create designated maintenance areas for crane runways with multiple cranes. This method provides for maintenance area to be safely shut down and prevent being energized by tandem collectors.
2:15 p.m.  Break
2:30 p.m.  The Human Impact of Cameras on Cranes
8:45 a.m.  Break
3:30 p.m.  VHD — Very High Duty Cycle Crane
Scott Zilke and Matt Jones, Morgan Engineering
Weld joint design is critical to understanding weight differences. The presentation will discuss weight differences as seen through the eyes of an integrated crane manufacturer. This abbreviated presentation highlights considerations for a long-term material handling strategy.
3:30 p.m.  Panel Discussion
3:45 p.m.  Conference Adjourn