What You Will Learn

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 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 You Will Meet

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 Hour (PDH) credits are available for this training course.

Upcoming Events

- **Hot Sheet and Plate Rolling Fundamentals — Practical Training Seminar**
  - 19–22 September 2022 • Starkville, MS, US

- **Secondary Steelmaking Refractories – A Practical Training Seminar**
  - 4–6 October 2022 • Orlando, FL USA

- **Environmental Solutions: Meeting EPA Air Emission Requirements**
  - 25–27 October 2022 • Orlando, FL USA

- **Scrap Supplements and Alternative Ironmaking 9**
  - 6–8 March 2023 • Orlando, FL USA
Monday, 20 June 2022
4–6 p.m. Registration
5–6 p.m. Reception

Tuesday, 21 June 2022
7 a.m. Registration and Breakfast
8 a.m. Introduction and Opening Remarks
8:30 a.m. How to Give a Technical Presentation
Tom Berenger, Gantrex Inc.
9 a.m. Productivity Tools of Today
Matthew Bruels, PT Tech LLC and Ryan Marks, UESCO Cranes
9:30 a.m. Break
9:45 a.m. Navigating the Mega-Trend of IoT and Applying CBM for Critical Mill Equipment
Daniel Phillips, Regal Rexnord
10:15 a.m. Understanding Your Crane’s Language
Casey Cummins and Bob Schmitt, Magnetek Inc.
10:45 a.m. Break
11 a.m. Introduction to Safe Rigging
Noon Lunch
1 p.m. Industrial Networking for Mobile Applications
Brian Roberts and Pete Kirst, Conductix, Inc.
1:30 p.m. Crane Conversion to Modern Industry 4.0-Ready Crane
Edgardo La Bruna, Janus Automation and Tim Jones, Navellis Inc.
2 p.m. Break
2:30 p.m. Strategies for Crane Runway Upgrades
Tim Bidell, CSD Structural Engineers
3 p.m. A Quarter-Million Pounds Through a Quarter
3:30 p.m. Break
4 p.m. Safety Control Retrofit to Overhead Cranes Using Advanced Sensors and Controls at Ford Motor Company Metal Stamping Operations
4:30 p.m. Automated Wire Rope Inspection
Ajay Bajaj, Rotator Products Limited
5 p.m. End of Day Wrap-Up and Adjourn
5:30 p.m. Dinner at Bottle House Forty-Two

Wednesday, 22 June 2022
7 a.m. Breakfast
8 a.m. Introduction and Opening Remarks
8:15 a.m. Autonomous Warehouse Coil Crane With LiDAR Vision for Rail Unload
Chris McCuley, Deshazo Crane Co.
8:45 a.m. Implementing Multi-Level Crane Collision Avoidance Solutions Using Radio Frequency Positioning and Communication in a Steel Meltshop
Franca La Bruna, TimkanTech LLC
9:15 a.m. Break
9:30 a.m. Ergonomics — The Operator Is Your Greatest Asset
Andreas Van Meeteren, Metagro BV
10 a.m. Fall Protection
10:30 a.m. Break
11 a.m. Types of Condition Monitoring for Overhead Traveling Cranes
Ryan Marks, Uesco Cranes
11:30 a.m. Configuration of Charging and Teeming Cranes: The Features That Make the Difference
Lorenzo Bacchetti, Danieli & C. Officine Meccaniche SpA
Noon Lunch
1 p.m. Modernization Projects and Integrated Autonomous Crane Systems
John Rowe, Schneider Electric
1:30 p.m. Automatic Scrap Bucket Handling by Charging Crane at ABS Meltshop
Lorenzo Bacchetti, Danieli & C. Officine Meccaniche SpA
2 p.m. Break
2:30 p.m. Structural Condition Based-Risk Inspections on Cranes and Crane Runways While Maintaining Reliability and Reducing Costs
Scott Sambuco, Orbital Engineering
3 p.m. Challenges in Design of Crane-Supporting Steel Structures
Scott Thompson, CSD Structural Engineers
3:30 p.m. Break
3:45 p.m. Automatic High-Bay Warehouse for Wire Rod Coils at ABS QWR4.0
Lorenzo Bacchetti, Danieli & C. Officine Meccaniche SpA
4:15 p.m. 24/7 Condition Monitoring of Assets in the Steel Industry
Adam Soder, Sumitomo Drive Technologies Inc. IIoT: Industry 4.0.
4:45 p.m. Conference Wrap-Up and Adjourn

Organized By: AIST’s Cranes Technology Committee