

About the Program

This workshop-based training seminar will provide attendees with hands-on instruction, tools, and the best available technologies for mechanical, electrical, lubrication, hydraulics, management system maintenance and reliability solutions. In addition, maintenance and outage planning, system design, and maintenance troubleshooting and techniques will all be covered. Manufacturing reliability is an integral part of sustainability in the metals industry. Improvement in reliability is essential to assuring manufacturing results at the lowest cost. Both operations and maintenance personnel must understand the direction their organizations need to take with respect to improving and managing their equipment maintenance programs.

Who Should Attend

The conference is intended for maintenance, operations and engineering personnel. It is useful for individuals who are in middle management or frontline supervisor positions, as well as maintenance, operational, and reliability personnel responsible for equipment reliability processes, including planners, schedulers, senior tradesmen, maintenance managers, maintenance engineers, plant engineers, project engineers, maintenance superintendents, operators and operations managers. Maintenance technology, equipment and service suppliers should also attend.

Registration Fees

Advance registration by 15 August 2023: Member US\$945, Non-member US\$1,195. Registration after 15 August 2023: Member US\$1,045, Non-member US\$1,295. Registration includes breakfast, lunch, and receptions Tuesday-Wednesday, plant tour, and a course workbook or flash drive including presentations.

Hotel Accommodations

A block of rooms has been reserved at the Hyatt Regency Greenville. Please call the hotel at +1.864.235.1234 by 5 September 2023 to secure the AIST discount rate of US\$172 per night for single/double occupancy.

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 the course. This course is not approved for PDH credits in New York, Florida, North Carolina and Oklahoma.

Attention Non-Members

Non-member registration fees include membership in AIST through 31 December 2024. Membership is not automatic. A completed membership application must be returned to AIST.

Organized By

AIST's Maintenance & Reliability Technology Committee.



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AIST Members
US\$945 Before 15 August
US\$1,045 After 15 August

Non-Members
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Maintenance Solutions

Concepts to Troubleshooting

26-28 September 2023

Hyatt Regency Greenville
Greenville, S.C., USA

Plant Tour: GE Power

AIST.org

Tuesday, 26 September 2023

- 8 a.m. **Welcome and Conference Overview**
Rachel Schmidt, Hydro
- 8:25 a.m. **Reliability Achievement Award Overview**
Terry Adams, Cleveland-Cliffs Rockport Works
- 8:30 a.m. **Maintenance and Reliability Workforce of the Future**
Bob Edl and Sukh Manku, ArcelorMittal Dofasco G.P.
This presentation will ask "what are we doing to upscale our workforce for a more automated life?"
- 9:30 a.m. **Break**
- 9:45 a.m. **Transforming Tribal Knowledge**
Ian Reid, ArcelorMittal Dofasco G.P.
- 10:30 a.m. **Digitalization of Safety — Organization, Automation and Management of Safety Data**
Charles Droessler, LJB
Where are your workplace hazards? What is needed to work safely? Have the hazards been mitigated? Safety programs contain a lot of data; this presentation will share digital considerations for organizing and streamlining safety management.
- 10:45 a.m. **Break**
- 11:15 a.m. **Mounting, Handling and Lubrication of Large Spherical Bearings**
Jennifer Wagoner, NTN Bearing Corp. of America
- Noon **Lunch**
- 1 p.m. **Best Lubrication Practices and Certifications**
Brian Wilson, HASTEC
- 1:45 p.m. **Intro to Augmented Reality Tools and Troubleshooting**
Eric Almquist, Star Tool & Die Works Inc.
This presentation will provide a non-commercial introduction to augmented reality (AR) technology before showing examples of specific software enabling creation and use of troubleshooting features.
- 2:15 p.m. **Break**

- 2:30 p.m. **Reducing the Time It Takes to Get to a Root Cause Using AI Analytics**
Winston Mizelle, Bently Nevada, a Baker Hughes business
Artificial Intelligence (AI) has developed a taboo reputation in industry due to years of overpromising and underdelivering in the market. Learn how purpose-built AI combats these concerns, enhances troubleshooting, and brings machine problem root causes to light so reliability and maintenance teams can spend more time acting and eliminating machine defects instead of looking for machine defects.
- 3 p.m. **Gearbox Drive Do's and Don'ts**
Cory Mecham, Regal Rexnord
- 3:30 p.m. **Break**
- 3:45 p.m. **Selection of Lubricating Greases for Applications of Steel Production**
Tim-Oliver Mattern, Carl BECHEM GmbH
This presentation will cover selecting the right lubricant, typical failure modes of bearings, and possible root causes to allow less troubleshooting and downtime.
- 4:15 p.m. **Various Methods of Oil Sample Collection From Book to Real World**
Eddie Emch, Lubrication Engineers Inc.

Wednesday, 27 September 2023

- 7 a.m. **Breakfast**
- 8 a.m. **Bearing Usage in Mill Stands: Understanding Premature Damage and Drivers for Unplanned Downtime**
Mike Allega, The Timken Co.
- 8:30 a.m. **Grease Delivery Options for the Steel Industry**
Wayne Gaskill, DropsA USA Inc.
- 9:15 a.m. **Break**
- 9:30 a.m. **Types of Fire-Resistant Fluids — Pros and Cons**
John Accurso, Quaker Houghton
- 10 a.m. **Hydraulic Troubleshooting**
Rob Sensel, Dover Hydraulics
- 10:30 a.m. **Break**
- 10:45 a.m. **Vibration Analysis**
Brian Biby, Cleveland-Cliffs Indiana Harbor

- 11:15 a.m. **Improving Sealing**
Matthew Zalick, System Seals Inc.
- Noon **Lunch**
- 1 p.m. **Autonomous Coil Yard Case Study**
Steve Herron and Mark Fedor, Morgan Engineering
- 2 p.m. **Break**
- 2:15 p.m. **Common Pitfalls of Piping and Ducting Systems**
Gary Gerba, Interep Inc.
This presentation focuses on exploring some of the telltale signs and practices necessary to ensure the reliability of process piping and duct systems for the long term.
- 3:00 p.m. **Filtration**
Denis Balogh, Mi Fluid Power Solutions
The presentation will cover the cause and effect of fluid contamination. Common terminology of fluid analysis and filters will be reviewed.
- 3:30 p.m. **Alignment**
Payam Assadi, IVC Technologies
- 3:50 p.m. **Break**
- 4 p.m. **Hands-On Demonstrations and Reception**
 - AR goggles
 - Valves
 - Vibration equipment
 - AirOil technology
 - Gearbox

Thursday, 28 September 2023

- 7 a.m. **Breakfast**
- 8 a.m. **Plant Tour of GE Power** 🧢
- Noon **Conference Adjourn**



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