



## Upcoming Events

Maintenance & Reliability for the Next Generation

10-12 September 2019  
Embassy Suites by Hilton Indianapolis Downtown  
Indianapolis, Ind., USA

Secondary Steelmaking Refractories – A Practical Training Seminar

14-17 October 2019  
Hilton Palacio Del Rio  
San Antonio, Texas, USA

Continuous Casting – A Practical Training Seminar

21-24 October 2019  
Holiday Inn Downtown Memphis  
Memphis, Tenn., USA

The Making, Shaping and Treating of Steel: 101

29-30 October 2019  
Hilton Milwaukee City Center  
Milwaukee, Wis., USA

Plant tour:  
American Cast  
Iron Pipe Co.

# Pipe and Tube

## A Practical Training Seminar

### 23-26 September 2019

DoubleTree Birmingham Perimeter Park  
Birmingham, Ala., USA



## About the Program

This seminar will provide attendees with a broad understanding of the role of pipe and tube in the growing energy markets. The presenters will begin with basic discussions on the various manufacturing methods for producing pipe and tube as well as how steelmaking chemistry is responding to the challenges and opportunities presented by deepwater and horizontal drilling. Presentations will include safety, electric resistance welding, heat treating, coating systems, pipeline identification and non-destructive testing. Attendees will also learn about advances in drilling and fracking processes that are changing the game for the industry.

## Who Should Attend

This training seminar is designed for anyone interested in gaining a better understanding of the opportunities for pipe and tube products in today's changing energy market. This includes steel and pipe mill personnel, i.e., mill managers, metallurgists, engineers, sales, maintenance; and the energy sector, i.e., managers, petroleum engineers, material science engineers, drilling supervisors, purchasing managers, midstream managers and line pipe construction managers.

## Professional Development Hours

This course may qualify for up to 13 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.

## Organized By

AIST's Pipe & Tube Technology Committee.



**BRING YOUR OWN  
YOUNG PROFESSIONAL**

Visit [AIST.org/byoyp](http://AIST.org/byoyp) for more information.

## Registration Includes

Breakfast and lunch Tuesday and Wednesday, reception Tuesday, breakfast Thursday, plant tour with bus transportation, and a course workbook or flash drive including presentations.

## Hotel Accommodations

A block of rooms has been reserved at the DoubleTree Birmingham Perimeter Park. Please call the hotel at +1.800.567.6647 by 9 September 2019 to secure the AIST discount rate of US\$125 per night for single/double occupancy.

### AIST Members

US\$845  
by 12 August 2019

US\$945  
after 12 August 2019

### AIST Non-Members

US\$1,090  
by 12 August 2019

US\$1,190  
after 12 August 2019



## Featured Plant Tour:

American Cast Iron Pipe Co.

# AIST.org

# Schedule of Events



## Monday, 23 September 2019

4–6 p.m.  
Registration

## Tuesday, 24 September 2019

7 a.m.  
Registration and Breakfast

8 a.m.  
Introduction

8:05 a.m.  
Keynote Speaker  
David Johnson, Paragon Industries Inc.

8:45 a.m.  
Break

9 a.m.  
Safety Doesn't Just Happen  
Paul Thurber, Nucor Steel Tuscaloosa Inc.  
This presentation will take a look into some of the leading indicators used to reduce risk as well as to prevent incidents and injuries. Safety must be intentional and anything less relies merely on chance and/or luck.

9:45 a.m.  
Break

10 a.m.  
Steelmaking Operations for Pipe and Tube  
Travis Zelfer, Nucor Steel Birmingham Inc.  
This presentation goes through the processing steps in making steel for pipe, including the electric arc furnace, ladle metallurgy furnace, caster, rolling mill and finishing up with vision systems for detecting defects.

10:45 a.m.  
Break

11 a.m.  
Hot Rolling – Thermomechanical Processing of Steel for Conversion Into Pipe and Tubular Products  
Douglas Stalheim, DGS Metallurgical Solutions Inc.  
A practical guide for optimizing steel production to achieve desired attributes for plate and hot-rolled coil for tube, casing and long-distance transmission energy applications.

Noon  
Lunch

1 p.m.  
Applications and Manufacturing Processes for Welded Tubes and Pipes  
Nico Goessens, SMS group GmbH  
This presentation will cover the main applications for welded tubes and pipes as well as the different manufacturing processes and equipment that are currently used in the tube-producing industry.

1:45 p.m.  
Break

2 p.m.  
Seamless Pipe Production for the Energy Markets  
Steve Marzina, SMS group Inc., and Thomas Wagner, SMS group GmbH

2:45 p.m.  
Break

3 p.m.  
State-of-the-Art In-Line Inspection Services for Material Property Verification  
Simon Slater, ROSEN

3:45 p.m.  
Break

4 p.m.  
Precise Heat Input During HF Induction Welding  
Olexandra Tupalo, Thermatool Corp.

5–6 p.m.  
Reception

## Wednesday, 25 September 2019

7 a.m.  
Breakfast

8 a.m.  
Introductions

8:05 a.m.  
EMAT Test System for Wall Thickness Measurement and Lamination Detection  
Michael Ege, FOERSTER Instruments Inc.  
Basic principles of the EMAT technology will be presented. The technology allows ultrasonic testing without couplant. Furthermore, the application of the EMAT technology for wall thickness measurement and lamination detection in non-destructive testing of seamless steel tubes and pipes will be shown.

8:30 a.m.  
Break

8:45 a.m.  
Routine Maintenance: The Importance of Preventive Maintenance With Tube and Pipe Equipment  
Larry Smith, SMS group Inc.  
This presentation will detail the important areas to consider to guarantee a high-quality product with the strictest of tolerances.

9:45 a.m.  
Break

10 a.m.  
Chloride Corrosion in Tube and Pipe Processing  
Michael Kosalko, Quaker Chemical Corp.  
This talk will be focused on exploring the mechanism of chloride corrosion, the factors that influence this mechanism and preventive measures that can protect against corrosion.

10:45 a.m.  
Break

11 a.m.  
Specialty Fittings, In-Line Inspection, Material Verification Services

Noon  
Lunch

1 p.m.  
Revolutionary EMI System "LT"  
Martin Schilling, FOERSTER Instruments Inc.

1:45 p.m.  
Break

2 p.m.  
Corrosion Control  
Dirk van Oostendorp, Corpro Companies Inc.  
Material degradation during services results in unplanned shutdowns due to leaks and failures. Methods to control corrosion processes can be applied during design and operations. This presentation will cover a number of active and passive methods to reduce corrosion damage on metallic structures.

2:45 p.m.  
Break

3 p.m.  
Mentor UT Weld and Corrosion  
Ryan St. Clair and Matt Skinner, Baker Hughes, a GE Company  
The Mentor UT will be demonstrated in weld and corrosion inspections on pipe and metal.

3:45 p.m.  
Break

4 p.m.  
MFL Inspection  
Matt Rutledge, Scan Systems  
Past, present and future of magnetic flux leakage inspection.

4:45 p.m.  
Overview and Tour Instructions

5 p.m.  
Adjourn

## Thursday, 26 September 2019

7 a.m.  
Breakfast and Depart for Plant Tour of American Cast Iron Pipe Co. 🇺🇸

Noon  
Return From Plant Tour and Conference Adjourn