

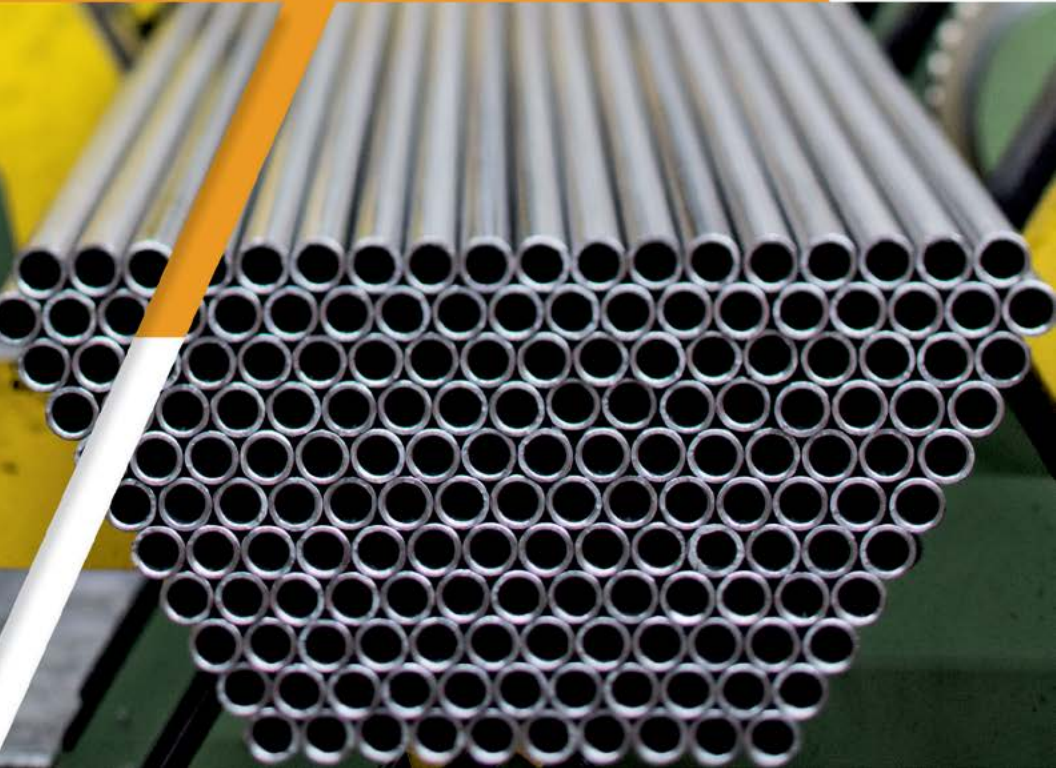


Long Products Rolling

A Practical Training Seminar

25-28 February 2019
Homewood Suites by Hilton
Charleston Historic District
Charleston, S.C., USA

Plant tour:
Nucor Steel-
Berkeley



Upcoming Events

Modern Electric Furnace Steelmaking –

A Practical Training Seminar

4-8 February 2019
The Francis Marion Hotel
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

Specialty Alloy and Foundry –

A Practical Training Seminar

18-21 March 2019
The Hilton Harrisburg
Harrisburg, Pa., USA



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About the Program

This seminar will give an introduction to the process, equipment and ancillaries utilized to produce long products; the primary focus is on the process and equipment customarily found within the rolling mill building, i.e., reheat furnace, rolling mill and finishing end. The seminar will contain both theoretical presentations and real-world case studies from long products producers in North America. The presenters represent a cross-section of industry experts in equipment, process, operations and maintenance. The seminar aims to expand an attendee's knowledge of the complete process and how safety, quality, yield, and facility utilization can be affected at each step.

Who Should Attend

Personnel involved in the production or promotion of long products, i.e., mill managers, rollers, roll shop, floor operators, maintenance, sales, downstream processors and other support personnel who wish to gain a better understanding of the long products production process and final end products.

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.

Organized By

AIST's Long Products Technology Committee.



**BRING YOUR OWN
YOUNG PROFESSIONAL**

Visit AIST.org/byoyp for more information.

Registration Includes

Breakfasts and lunches Tuesday–Thursday; reception Tuesday; 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 Homewood Suites by Hilton Charleston Historic District. Please call the hotel at +1.843.724.8800 by 4 February 2019 to secure the AIST discount rate of US\$169 per night for single occupancy.

AIST Members

US\$845

by 14 January 2019

US\$945

after 14 January 2019

AIST Non-Members

US\$1,060

by 14 January 2019

US\$1,160

after 14 January 2019



Featured Plant Tour:

Nucor Steel–Berkeley

AIST.org

Schedule of Events



Monday, 25 February 2019

4–6 p.m.
Registration

Tuesday, 26 February 2019

7 a.m.
Registration and Breakfast

8 a.m.
Introduction

8:05 a.m.
Welcome and Overview of Nucor Steel–Berkeley

8:30 a.m.
Changing the Mindset for a Safer Environment
Joe Jacobin, Nucor Steel–Berkeley, and Derek Voight, Nucor LMP Steel Inc.
The journey to changing the safety mindset in the steel industry involves a few basic steps. Included will be discussion and examples on how to create movement toward changing the safety mindset in one's organization.

9:30 a.m.
Break

9:45 a.m.
Rod/Bar Products and Applications
Bob Cryderman, Colorado School of Mines
This presentation provides a summary of bar and rod applications in finished parts, as well as how the parts are used in service. Key processes utilized to convert hot-rolled product into finished parts are described, including straightening, inspection, cold finishing, forging, in process heat treatment, machining and final heat treatments.

10:45 a.m.
Rolling Mill Metallurgy
Jonathan Straetker, Nucor Steel–Nebraska

Noon
Lunch

1 p.m.
Pass Design and Rolling Theory
Joseph Kennedy, Quad Engineering Inc.

2 p.m.
Break

2:15 p.m.
Pass Design and Rolling Theory Part II
Joseph Kennedy, Quad Engineering Inc.

3:15 p.m.
Break

3:30 p.m.
Micro-Mill Installation and Start-Up
James Glass, CMC Steel Oklahoma
This presentation will discuss the building, installation and start-up of the new micro-mill in Durant, Okla., USA.

4:30 p.m.
Question-and-Answer Session

5–6 p.m.
Reception

Wednesday, 27 February 2019

7 a.m.
Breakfast

8 a.m.
Plant Tour of Nucor Steel–Berkeley 

Noon
Lunch

1 p.m.
Reheat Furnace Basics
Michael Cochran, Bloom Engineering Co. Inc.

2:15 p.m.
Break

2:30 p.m.
Descaling and Spray Issues in Hot Rolling
Lesli Peterson, Spraying Systems Co.

3:15 p.m.
Technology of Merchant Bar Mills
Mario Fabro, SMS group Inc.

4:30 p.m.
Question-and-Answer Session

Thursday, 28 February 2019

7 a.m.
Breakfast

8 a.m.
Torque and the Rolling Stand
Kevin Barbee, Danieli Corp.

9:15 a.m.
Break

9:30 a.m.
Work Rolls
Bill Posey, SinterMet LLC

10:45 a.m.
Motors, Drive and Speed Control
Steve Pegg, Russula Corp.
Topics include AC vs. DC, drive performance requirements and automation solutions for long products rolling. Functions such as tension control, loop control and shear optimization will be discussed.

Noon
Lunch

1 p.m.
Cutting Technologies
George Burnet, Braun Machine Technologies LLC

2:15 p.m.
Break

2:30 p.m.
In-Line Inspection Systems for Long Product Mills
Arnab Mukherjee, Danieli Taranis
The discussion will cover the description of systems and technologies that are being implemented for confirm manufacturing tolerances of finished goods in long product mills. The session would also include a case scenario and insights that are possible to be derived from analysis of observed data.

3:15 p.m.
Routine Maintenance and Condition Monitoring
Larry Smith, SMS group Inc.

4:30 p.m.
2019 Long Products Study Tour Update

5 p.m.
Adjourn Conference