



# COLD ROLLING FUNDAMENTALS

A PRACTICAL TRAINING SEMINAR



## ABOUT THE PROGRAM

This seminar provides a comprehensive overview of cold rolling. The course covers fundamentals, equipment, rolling theory, control, threading, rolls, lubrication, measurement, safety and new technology. Attendees will leave this course with a better understanding of the basic metallurgy involved, the different types of products and product attributes, the types of mills used and equipment involved with the mills, the theory of rolling, latest technologies involved in cold rolling, safety aspects, rolling solutions, production measures and much more. There will be the opportunity to discuss issues and engage in problem solving during the panel discussions.

**1-5 MARCH 2015**  
**MOBILE, ALA., USA**

*THE BATTLE HOUSE RENAISSANCE MOBILE HOTEL*

## SCHEDULE OF EVENTS

### SUNDAY, 1 MARCH 2015

4-6 p.m.

Registration

6 p.m.

Welcome Reception

### MONDAY, 2 MARCH 2015

7 a.m.

Registration and Continental Breakfast

8 a.m.

**INTRODUCTIONS AND OPENING REMARKS**

*MARK BLANKENAU*

8:15 a.m.

**OVERVIEW**

*JOHN SPEER, COLORADO SCHOOL OF MINES*

MORE INFORMATION AT  
**[AIST.ORG/TECHNOLOGYTRAINING](http://AIST.ORG/TECHNOLOGYTRAINING)**

9 a.m.

### **COLD ROLLING FUNDAMENTALS**

*JOHN SPEER, COLORADO SCHOOL OF MINES*

10 a.m.

Break

10:15 a.m.

### **ROLLING MILL DESIGNS AND LINE ARRANGEMENTS TO MEET PROCESS REQUIREMENTS**

*MICHAEL PERETIC, SMS GROUP*

Noon

Lunch

1 p.m.

### **ENTRY MILL EQUIPMENT**

*FRANK BEDDINGS, PRIMETALS TECHNOLOGIES U.S.A. HOLDINGS INC.*

Overview of the equipment and basic requirements at the entry side of the cold rolling mill.

2:05 p.m.

### **EXIT MILL EQUIPMENT**

*ERIC THOKAR, PRIMETALS TECHNOLOGIES U.S.A. HOLDINGS INC.*

3:15 p.m.

Break

3:30 p.m.

### **HOT BAND REQUIREMENTS FOR COLD ROLLING**

*DAVID PATON, ARCELORMITTAL DOFASCO INC.*

4:30 p.m.

### **PRACTICAL APPLICATIONS**

*MARK WELLENSIEK, ARCELORMITTAL INDIANA HARBOR*

## **TUESDAY, 3 MARCH 2015**

7 a.m.

Continental Breakfast

8 a.m.

### **ROLL SPECIFICATIONS AND THE INFLUENCE ON ROLL PERFORMANCE**

*BILL JENNINGS, ROCKPORT ROLL SHOP LLC*

9 a.m.

### **COLD MILL ROLL SHOP BENCHMARK ISSUES**

*BILL JENNINGS, ROCKPORT ROLL SHOP LLC*

The presentation will include subjects of what is benchmarked in today's roll shops and using these key performance indicators to help control costs.

10 a.m.

Break

10:15 a.m.

### **INSPECTION FOR COLD ROLLING**

*MARK BLANKENAU*

Noon

Lunch

1 p.m.

### **ROLLING THEORY**

*MARK ZIPF, COLD ROLLING TECHNOLOGIES INC.*

3:15 p.m.

Break

3:30 p.m.

### **HYDRAULIC SYSTEMS FOR COLD ROLLING MILLS**

*LANCE PENICK, BUTECH BLISS*

4:30 p.m.

### **PRACTICAL APPLICATIONS**

*MARK BLANKENAU*

5 p.m.

Reception

## **WEDNESDAY, 4 MARCH 2015**

7 a.m.

Continental Breakfast

8 a.m.

### **COLD ROLLING OIL LUBRICANT FUNDAMENTALS**

*MATT KNAPIK AND DOMINICK GAUDIO, QUAKER CHEMICAL CORP.*

9 a.m.

### **SOLUTION SYSTEM AND COOLING**

*MARK WELLENSIEK, ARCELORMITTAL INDIANA HARBOR*

10:15 a.m.

Break

10:30 a.m.

### **AGC**

*MARK ZIPF, COLD ROLLING TECHNOLOGIES INC.*

Noon

Lunch

1 p.m.

### **SHAPE MEASUREMENT AND CONTROL**

*MARK ZIPF, COLD ROLLING TECHNOLOGIES INC.*

3:15 p.m.

Break

MORE INFORMATION AT  
[AIST.ORG/TECHNOLOGYTRAINING](http://AIST.ORG/TECHNOLOGYTRAINING)

3:30 p.m.

**MILL CORROSION**

MARK WELLENSIEK, ARCELORMITTAL INDIANA HARBOR

4:30 p.m.

**PRACTICAL APPLICATIONS**

LARRY FLOWERS

**THURSDAY, 5 MARCH 2015**

7 a.m.

Continental Breakfast

8 a.m.

**COLD MILL SAFETY**

ROBBIE WOODS, CALIFORNIA STEEL INDUSTRIES INC.

9 a.m.

**OPERATION BOTTLENECKS, PICKLING LINES AND TANDEM MILL**

HARALD VAN BRACHT, AM/NS CALVERT LLC

Discussion will include an overview of operational bottlenecks for pickling line and tandem mill, theoretical bottlenecks due to design/layout, and practical bottlenecks due to product mix and production restriction.

10 a.m.

Break

10:15 a.m.

**ROLLING ADVANCED HIGH-STRENGTH SHEET STEELS**

MARK WELLENSIEK, ARCELORMITTAL INDIANA HARBOR

11:15 a.m.

**PRACTICAL APPLICATIONS PANEL DISCUSSION**

MARK WELLENSIEK, ARCELORMITTAL INDIANA HARBOR; MARK BLANKENAU AND LARRY FLOWERS

Noon

Lunch

1 p.m.

**PLANT TOUR OF AM/NS CALVERT LLC**



5 p.m.

Return From Plant Tour and Adjourn



**REGISTRATION FEES**

Advance registration by 20 January 2015: Member US\$995, Non-member US\$1,210. Registration fee after 20 January 2015: Member US\$1,095, Non-member US\$1,310. Registration fees include continental breakfasts, lunches, and continuous breaks Wednesday and Thursday, reception Tuesday, plant tour and a course workbook or flash drive including presentations.

MORE INFORMATION AT  
**AIST.ORG/TECHNOLOGYTRAINING**

**REGISTER NOW**