About the Program
Developed and presented with the talented resources of the Continuous Casting Technology Committee, this informative program targets the heart of steelmaking: the frontline operator. The key focus of the program is to discuss the practical aspects of casting slabs, billets and blooms, while introducing the theoretical concepts. By achieving the proper teaching balance, attendee understanding of the process is ensured without the need for a technical background. This course is a must for the progressive, informed and educated steelmaker of the future!

Who Should Attend
This training seminar has been designed for the frontline casting employee. It would also be beneficial to individuals newly assigned to work in the casting area, suppliers of casting consumables and services, as well as others wishing to review major variables that impact the quality of as-cast products. The presentations will be geared toward general casting principles, with all machine types represented.

Registration Fees
Advance registration by 5 September 2023: Member US$945, Non-member US$1,195. Registration fee after 5 September 2023: Member US$1,045, Non-member US$1,295. Registration fee includes breakfast and lunch Tuesday and Wednesday, reception Wednesday, 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 Belterra Casino Resort. Please call the hotel at +1.812.427.7777 by 25 September 2023 to secure the AIST discount rate of US$139 per night for single/double occupancy.

Professional Development Hours
This course may qualify for up to 14 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 Continuous Casting Technology Committee.
Sources of Reoxidation and Why to Avoid
Ron O’Malley, Missouri University of Science and Technology

described that can be used to minimize reoxidation. Reoxidation can occur in the ladle, in the secondary cooling, and in the mold. To produce high-quality cast products, steel must be protected from reoxidation. This presentation will discuss the primary causes of reoxidation, detection and prevention.

Break

2:15 p.m.
Continuous Casting — Breakouts and Breakout Prevention
Andrew Gribben, SMS group Inc.
This presentation will discuss the primary causes of breakouts, breakout detection and prevention.

3:15 p.m.
Break

3:30 p.m.
Caster Quality Defects and Their Potential Causes
Ron O’Malley, Missouri University of Science and Technology
The surface and internal quality of continuously cast slabs and billets is intimately linked to the caster design and to the operating and maintenance practices employed in the continuous casting process. Common causes for five classes of continuous casting defects (longitudinal cracking, transverse cracking, slivers and lamination defects, internal cracking, and segregation defects) will be reviewed and linked to these design and practice influences.

5-7 p.m.
Ian Bakshi Memorial Panel Discussion and Reception

Moderator: Jeff Brower, Primetals Technologies USA LLC
Panelists: Bill Silchting, United States Steel Corporation; Rudolf Moravec, United States Steel Corporation; Ian Deeks, Nucor Steel–Arkansas; Greg Geist, Cleveland-Cliffs Cleveland Works LLC

Wednesday, 18 October 2023

7 a.m.
Breakfast

8 a.m.
Mold Copper Alloys, Design and Influence of Operating Factors on Performance
Warren Adolphe, SMS Concast Canada Inc. (Accumold)
Introduction to the material properties and requirement for molds used on Performance

9 a.m.
Break

9:15 a.m.
Mold and Copper Maintenance and Coating Technologies
Chad Donovan, SMS group Inc.
This presentation will review the importance of and needs for caster mold copper coatings and general mold maintenance practices.

10:15 a.m.
Break

10:30 a.m.
Caster Roll Maintenance and Overlay Technologies
Jeff Brower, Primetals Technologies USA LLC
Caster roll and segment life can be significantly increased through the use of customized weld overlays and base materials. This session details the operational impact on caster rolls and technologies developed to improve roll performance.