METAL TREATMENT FOR ALUMINUM INGOT CASTING WORKSHOP

SUNDAY, MARCH 11, 2018 • 8:30 A.M. TO 4:30 P.M.

This workshop will cover the removal of hydrogen, alkalis, and inclusions from molten aluminum alloys during ingot casting. It will include both the theory and the practice of furnace treatment, in-line degassing, filtration, and other processes that are used to improve metal quality. The impacts of the various impurities on metal quality and methods of measuring impurities will be discussed. Several vendors of metal treatment equipment will summarize their technologies to provide an overview of the equipment that is available.

Topics to be addressed include:
• What is aluminum molten metal quality?
• Impurities, sources, effects, measurement
• Theory, modeling, and practices
• Trace element removal – vaporization, crucible, salts, furnace fluxing, in-line fluxing
• Hydrogen removal – vacuum, furnace fluxing, in-line degassing
• Inclusion removal – sedimentation, flotation, filtration
• Developing technologies
• Ultrasound, advanced filtration systems

INSTRUCTORS
D. Corleen Chesonis, Metal Quality Solutions LLC
Edward Williams, Arconic
Leonard Aubrey, Selee
Jim Grayson, Pyrotek
Richard Henderson, Pyrotek
Etienne Tremblay, Sanguenay Aluminum Technologies Inc. (STAS)
Daniel Gagnon, ASEA Brown Boveri (ABB Group)

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TMS Light Metals Division: Aluminum Committee

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