

# TMS 2018



**BROADEN YOUR EXPERTISE: REGISTER FOR A PROFESSIONAL DEVELOPMENT EVENT AT TMS2018**

## **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)

### **SPONSORED BY**

TMS Light Metals Division; Aluminum Committee

### **REGISTRATION FEES**

	Advanced	On-Site
Member	\$175	\$225
Non-member	\$225	\$275
Student	\$75	\$125

Learn more at: [www.tms.org/TMS2018](http://www.tms.org/TMS2018)