



DAY 1: 15 October 2019

- 13:30 - 14:00 **Opening and Demand update**
Doug Hilderhoff, Principal Analyst, Head, North America Aluminum, CRU
- 14:00 - 14:30 **Scrap Market Update**
- Connecting the dots between U.S. and global macroeconomic, manufacturing, and recycling industry indicators
 - How China's import restrictions and U.S. trade measures are impacting supply and demand of aluminum scrap
 - How scrap recyclers are working to develop new markets at home and abroad while dealing with shifting trade patterns
 - The relationships between primary and secondary aluminum prices
 - Implications of Investments in recycling technology & equipment
- Joe Pickard, Chief Economist and Director of Commodities, ISRI
- 14:30 - 15:00 **Update on 232 and USMCA**
Matt Meenan, Senior Director, Public Affairs, Aluminum Association
- 15:00 - 15:30 **Scrap's Role and Purchasing**
Bob Hubbard, President & CEO, FRH Aluminum, LLC
- 15:30 - 16:00 **Panel Discussion: Aluminum market fundamentals/trade**
Moderator: Greg Wittbecker, Senior Analyst, Aluminum, CRU
Panellists:
- Matt Meenan, Senior Director, Public Affairs, Aluminum Association
 - Joe Pickard, Chief Economist and Director of Commodities, ISRI
 - Bob Hubbard, President & CEO, FRH Aluminum, LLC
- 16:00 - 18:00 **Networking Reception**



DAY 2: 16 October 2019

- 08:15 - 08:30 **Opening**
Bob Hubbard, President & CEO, FRH Aluminum, LLC
- 08:30 - 09:00 **Energy (Gas & Electricity)**
- Natural gas Pricing trends and impact due to growing LNG exports
 - How renewable electrical energy trends are working with companies of Virtual Power Purchase Agreements (VPPAs)
 - Managing energy cost
- Drew Fellon, Business Leader, Trane Energy
- 09:00 - 09:30 **Latest Advancements & Techniques for Efficiently Shredding & Sorting Aluminum Scrap**
- Innovations in Pre-Shredding/Bale Breaking
 - Shredding Options: Hammermills vs. Single Shaft Knife Shredders
 - Advanced Metal Sorting Technologies & Processes
- Ethan Willard, Shredder Business Development Manager, Wendt
- 09:30 - 10:00 **Capabilities and Applications of LIBS Scrap Sorting Systems**
- Outlining Laser Induced Breakdown Spectroscopy (LIBS) technology benefits to scrap sorting
 - Discussing the performance of capabilities of sorting aluminum with LIBS technology
 - Example applications include sorting Cast from Wrought, 5,XXX from 6,XXX, and the ability to clean scrap to maintain specific elemental concentrations in final product.
- Todd Hardwick, Global Marketing Manager, TSI Inc.
- 10:00 - 10:30 **Refreshments (Sponsored by AMCOR)**
- 10:30 - 11:00 **Furnace Type**
John Allen, President, Thorpe Technologies



11:00 - 11:30

Metal Casting

- Mechatherm
- SafeCAST
- SafeCAST Performance
- Artificial Intelligence, Big Data and Melting
- SafeCAST 4.0 (application of cutting edge tech to proven solution)

Mark Allen, Services Director, Mechatherm

11:30 - 12:00

Metal Hedging

Greg Wittbecker, Senior Analyst, Aluminum, CRU

12:00 - 13:00

Lunch

13:00 - 13:30

Least Cost Charge Software Advancements in Aluminum Manufacturing and Trading

- Advancement in Information Technology and computing power has allowed for rapid improvements in solving material combinations for least cost charge.
- Information can be live and shared throughout organization.
- Straightforward user interface allows for quick solutions while minimizing inventory

Bill Koshut, ABS Software Business Unit Manager, TMS International

13:30 - 14:00

Flux

Katherine Rhinehart, Quality Engineer, AMCOR

14:00 - 15:00

Commercial Calculations and Scrap Utilization

Bob Hubbard, President & CEO, FRH Aluminum, LLC

15:00 - 15:15

Refreshments

15:15 - 15:45

Panel Discussion: The importance of using scrap in the operational side of the melting business, for making spec alloy and wrought alloy metal

Harry Dillman, Vice President of Operations, Matalco/Alexin

Kevin Moore, President, All Raw Resources



15:45 - 16:00

Closing Remarks

Bob Hubbard, President & CEO, FRH Aluminum, LLC

Greg Wittbecker, Senior Analyst, Aluminum, CRU