



May 22–25, 2016
Seattle, Washington, USA

**REGISTRATION
NOW OPEN**

[www.tms.org/
Molten16/reg](http://www.tms.org/Molten16/reg)

**Gain international perspective from more than
200 technical presentations and invited speakers.**

Molten16 will convene the best minds in the industry to share new research and advance the development of core technologies in the field of extractive metallurgy, along with the development of novel materials and processes for use at high temperatures.

TECHNICAL TOPICS FOR MOLTEN16 ARE:

- Crystallization/Freeze Linings
- Inclusions and Clean Steelmaking
- Industrial Applications: Ferroalloys and Silicon
- Industrial Applications: Nonferrous
- Industrial Applications: Steel
- Interfacial Phenomena
- Mold Flux
- Modeling Slag and Salt Properties
- Physical Properties: Viscosity
- Physical Properties: Thermal Properties and Electrical Conductivity
- Recycling and Reuse of Slag and Dust I
- Use of Slags, Fluxes, and Salts in Recycling
- Refractories
- Production using Molten Salts
- Slag and Salt Structure
- Thermodynamics: Nonferrous Production
- Thermodynamics: Iron and Steel

Molten16 will present attendees with the chance to build their professional community through networking events, poster sessions, and social functions—including a conference dinner and several add-on tours. More information on these events can be found at:

www.tms.org/Molten16/reg

CONFERENCE ORGANIZATION:

Chair:

Ramana Reddy,
The University of Alabama, USA

Co-Chairs:

Pinakin Choubal, ArcelorMittal USA,
Global R&D, USA

P. Chris Pistorius, Carnegie Mellon University, USA
Uday Pal, Boston University, USA

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MAXIMIZE THE VALUE OF YOUR TRAVEL BY PARTICIPATING IN THE

ELECTROLYTE COMPOSITIONS AND PROPERTIES IN ALUMINUM PRODUCTION SHORT COURSE

Held in conjunction with Molten16.
Sunday, May 22, 2016
from 8:30 a.m. to 5:00 p.m. before
conference programming begins



Aluminum production is the largest industry for extraction of a metal from molten salts, and aluminum is the largest and fastest-growing nonferrous metal in the world. The electrolyte may be regarded as the heart of the electrolysis process in the industrial alumina reduction cell.

Taught by industry expert Halvor Kvande, Norwegian University of Science and Technology and instructor of the highly successful TMS Industrial Aluminum Electrolysis course, this course will discuss the main functions of the electrolyte in the industrial aluminum cell, the compositions and the ionic species present when alumina has been added and dissolved, and the electrochemical reactions that occur during electrolysis. The future electrolytes in aluminum production will also be discussed.

Register for this course through the Molten16
registration form, available online at:

www.tms.org/Molten16/course

MARK YOUR CALENDAR TODAY • MAY 22, 2016