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TMS 2020
149th Annual Meeting & Exhibition

February 23-27, 2020 • San Diego, California, USA

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Materials Processing

Electrometallurgy 2020

Electrolytic processing is used commercially to recover and refine metals including large-scale production of aluminum, copper, magnesium, nickel, and zinc, as well as for recovery and refining of gold and silver. There are also exciting opportunities to utilize electrometallurgy in the production of titanium, lead, and other metals.

Electrometallurgy faces challenges that include energy utilization, chemical stability, productivity, and safety. To meet the present challenges in commercial electrometallurgy, a variety of technological advances have been made. Similar challenges will be faced in the future, requiring process improvements and innovations.

The 3rd International Symposium on Electrometallurgy—building on the success of Orlando 2012 and Quebec City 2016—will bring together industry, consulting engineers, and researchers to discuss fundamental research, development, and application of innovative aqueous or molten salt electrometallurgical processing technologies for the extraction of metals.

The symposium will provide a forum for the international metallurgical community to discuss innovative approaches to reduce energy consumption during electrolysis of metals. Topics will include:

- Copper electrowinning & electrorefining
- Electrochemical Engineering
- Anode Materials & Technology
- Electrometallurgy at High Temperature
- Electroslag refining
- Electrochemical effluent treatment
- Molten salts: (Ta, Sc, Ti, Ca, Li, Na, Mo,…)
- Electromotive force measurements
- Liquid metal batteries
- Molten oxides

This installment of the Electrometallurgy symposium will also host **Sadoway 70,** an honorary symposium dedicated to the innovative contributions of Donald Sadoway, Massachusetts Institute of Technology (MIT). This symposium of invited speakers will encompass process metallurgy and electrochemistry of molten salts, liquid metal batteries, and extra-terrestrial materials processing.

ORGANIZERS

Antoine Allanore, Massachusetts Institute of Technology, USA
Michael Free, University of Utah, USA
Georges Houlachi, Hydro-Quebec, Canada
Hojong Kim, Pennsylvania State University, USA
Takanari Ouchi, The University of Tokyo, Japan
Shijie Wang, Rio Tinto Kennecott Utah Copper Corp, USA

SYMPOSIUM SPONSORS

This symposium is organized by TMS and the Metallurgy and Materials Society (MetSoc) of the Canadian Institute of Mining, Metallurgy and Petroleum (CIM), with leadership from the TMS Extraction & Processing Division and support from the Hydrometallurgy and Electrometallurgy, Process Modeling and Technology, and Pyrometallurgy Committees of TMS.

Abstract Deadline is July 1, 2019. Submit online at
www.programmaster.org/TMS2020.

Questions?
Contact programming@tms.org