



**SUBMIT AN ABSTRACT BY JULY 1**

**MARCH 14-18, 2021 • ORLANDO WORLD CENTER MARRIOTT  
ORLANDO, FLORIDA, USA  
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**SUBMIT AN ABSTRACT TO:**

## LIGHT METALS

# ELECTRODE TECHNOLOGY FOR ALUMINUM PRODUCTION

The Electrode Technology Symposium for Aluminum Production, along with Aluminum Reduction Technology, Alumina and Bauxite, Cast Shop for Aluminum Production, and Aluminum Alloys, Processing and Characterization collectively form the Light Metals Symposium. This is an excellent opportunity to interact with experts from the Light Metals industry and academia from all over the world and get the latest update on key issues in the industry.

The importance of changes in anode coke supply, increased cell size with larger anodes and cathodes, and cathode wear issues are just some of the issues facing the industry. You are invited to submit papers of fundamental and applied research in the following subject areas:

- Upstream Production of Anode and Cathode Carbon Materials
- Production and properties of Anode and Cathode Raw Materials, Anode Cover Materials
- Pitch and Coke Mixing, Anode Forming and Anode Baking
- Anode characterization
- Paste Plant Design and Operation
- Baking Furnace Design and Operation
- Mathematical Modelling
- Application of Industry 4.0 and Big Data Analysis
- Effects of Sulfur and Impurities in Anodes
- Rodding Room Design and Operation
- Anode Quality and Performance
- Solutions for Carbon Plant Environmental Issues and Safety
- Cathode Materials and Cathode Production
- Cell Preheating and Startup (as related to electrode life)
- Cathode Wear and Wear Mechanisms
- Spent Potlining, 1st and 2nd Cut (Joint session with Aluminum Reduction)
- Anode Butts, Handling and Properties
- Inert Anode and Cathode Materials, Fabrication and Performance

An Honorary Symposium will be held for Alton Tabereaux (Reduction Cell Operation and Process Control), Halvor Kvande (Reduction Cell Technology and Developments) and Harald Øye (Fundamentals in Anode and Cathode Technology), which will be co-organized with the planned technical sessions. Manuscripts showcasing or highlighting either of the honorees are welcome.

Note regarding publication: Authors seeking an oral presentation opportunity must submit a manuscript for the proceedings or be approved for publication in a TMS journal.

### ORGANIZER

**Derek Santangelo**, Hatch, USA

### SYMPOSIUM SPONSORS

TMS Light Metals Division  
TMS Aluminum Committee

**Abstract Deadline is July 1, 2020. Submit online at  
[www.programmaster.org/TMS2021](http://www.programmaster.org/TMS2021).**

**Questions?**  
Contact [programming@tms.org](mailto:programming@tms.org)