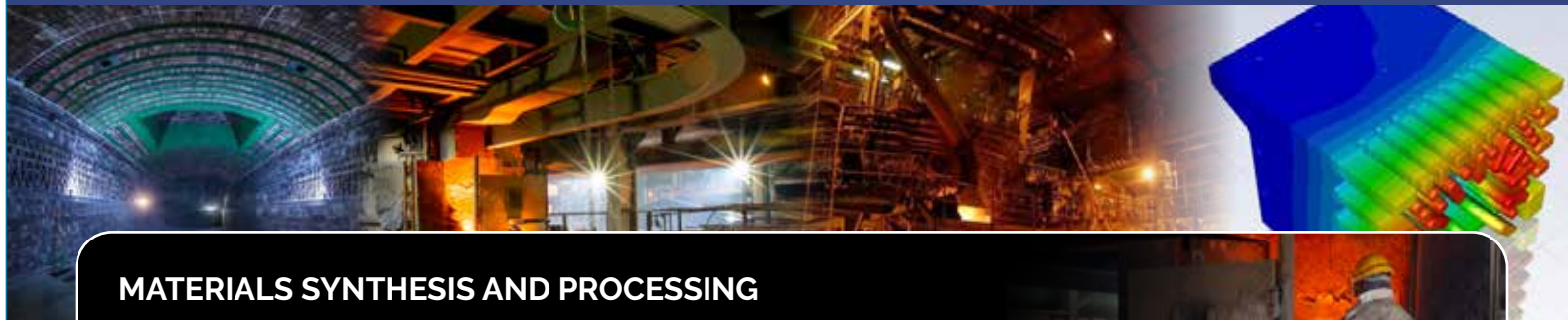# THE WORLD COMES HERE.

TMS 2024
153rd Annual Meeting & Exhibition

MARCH 3–7, 2024
HYATT REGENCY ORLANDO
ORLANDO, FLORIDA, USA
#TMSAnnualMeeting

SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2024 SYMPOSIUM:

MATERIALS SYNTHESIS AND PROCESSING

ADVANCES IN PYROMETALLURGY:
Furnace Containment

The purpose of the furnace containment system is to hold both process materials and energy associated with pyrometallurgical processes. The methods in which the challenges of containing corrosive and abrasive materials at extreme temperatures will be addressed, whether they are used across commodities or technology specific. There is much to be learned from cross-commodity and cross-technology perspectives.

The intention of this symposium is to create a platform for the exchange of ideas on the challenges, solutions, failures, and successes in furnace containment designs and applications. Bringing together perspectives from industry, design houses, and research institutions will be ideal. For the symposium, the furnaces associated with solid-state processes are included although the focus will be smelters.

Themes will include:
- Advances in furnace lining design philosophies
- Advances in furnace design configurations and other design considerations
- Problems experienced and their solutions implemented during construction and commissioning
- Integration of new concepts into old smelters
- Back to basics: refractory materials, shells, and cooling systems
- Maintaining and monitoring
- Process control and slag design
- Lessons learned

PROCEEDINGS PLANS
A standalone proceedings volume is planned for this symposium.

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