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**TMS2019**  
 148<sup>th</sup> Annual Meeting & Exhibition

# CALL FOR ABSTRACTS

March 10–14, 2019  
 San Antonio, Texas, USA

## SUBMIT AN ABSTRACT TO:

### MATERIALS PROCESSING

#### Rare Metal Extraction & Processing

The symposium will cover extraction of rare metals as well as rare extraction processing techniques used in metal production. Extraction of rare—less common metals or minor metals (not covered by other TMS symposia)—will be covered. This will include elements such as antimony, bismuth, barium, beryllium, boron, calcium, chromium, gallium, germanium, hafnium, indium, manganese, molybdenum, platinum group metals, rare earth metals, rhenium, scandium, selenium, sodium, strontium, tantalum, tellurium, and tungsten—rare metals of low-tonnage sales compared with high-tonnage metals, such as iron, copper, nickel, lead, tin, zinc, or light metals, such as aluminum, magnesium, or titanium, and electronic metalloid silicon.

Rare processing will cover bio-metallurgy, hydro-metallurgy, and electro-metallurgy, as well as extraction of values from EAF dusts, and less common waste streams not discussed in recycling symposia. Rare high-temperature processes, such as microwave heating, solar-thermal reaction synthesis, and cold crucible synthesis of the rare metals will be included. Design of extraction equipment used in these processes will be included from suppliers, as well as laboratory and pilot plant studies.

### ORGANIZERS

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Abstract Deadline is July 1, 2018.  
 Submit online at [www.programmaster.org/TMS2019](http://www.programmaster.org/TMS2019)

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