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TMS 2023
152nd Annual Meeting & Exhibition

MARCH 19–23, 2023
SAN DIEGO CONVENTION CENTER &
HILTON SAN DIEGO BAYFRONT
SAN DIEGO, CALIFORNIA, USA
#TMSANNUALMEETING



SUBMIT AN ABSTRACT BY JULY 1 FOR THE FOLLOWING TMS2023 SYMPOSIUM:

ADVANCED MATERIALS

Refractory Metals 2023

This symposium provides a forum for the presentation of fundamental research advances and technological progress in the understanding, processing, and applications of refractory metals. Refractory metals are defined as those metallic elements with melting temperatures exceeding 2123 K (1850°C). Refractory metals are of technological importance for their performance in extreme environments because of mechanical, microstructural, and chemical stability at high temperatures and under extreme loading conditions.

Research of interest includes alloy development, microstructure evolution, and correlations with properties, both experimental and theoretical. Technological advances in processing of refractory metals and their alloys and applications in energy, transportation, and other sectors are also of interest. New developments of interest include: refractory alloys with multiple principal components, C103 alloy replacements, and high throughput characterization of refractory materials, among others. Processing methodologies and techniques involving forming, welding, brazing, and powder metallurgy are also of interest. Presentations that communicate results from academia, national laboratories, and industry are welcomed. Presentations by students are highly encouraged.

ORGANIZERS

Brady Butler, U.S. Army Research Laboratory
Todd Leonhardt, Rhenium Alloys Inc.
Matthew Osborne, Global Advanced Metals
Zachary Levin, Los Alamos National Laboratory

SYMPOSIUM SPONSORS

TMS Structural Materials Division
TMS Refractory Metals & Materials Committee

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QUESTIONS?
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