



THE WORLD COMES HERE
TMS2019
148th Annual Meeting & Exhibition

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

Manufacturing the Circular Materials Economy

**Call for Abstracts Deadline:
July 1, 2018**

Plan now to be part of the sixth installment of this unique, transdisciplinary conference, co-located with the TMS 2019 Annual Meeting & Exhibition (TMS2019). Don't miss the opportunity to showcase your research and advance progress at the intersection of materials science, metallurgy, and sustainability.

Planned REWAS 2019 Symposia

REWAS 2019: Disruptive Material Manufacturing—Scaling and Systems Challenges

The landscape of material manufacturing has the potential for dramatic change as new design techniques (e.g. material genome) and new technologies (e.g. additive manufacturing, clean energy technologies) begin to scale to industrial production levels.

TMS Committee Co-sponsor: Additive Manufacturing Committee

REWAS 2019: Secondary and Byproduct Sources of Materials, Minerals, and Metals

Attention has turned to ore alternative sources of important materials, metals, and minerals. Circular economy techniques, industrial symbiosis, and urban mining are sustainability strategies for obtaining these materials from industrial byproducts, end-of-life wastes such as electronics and batteries, and other secondary sources.

TMS Committee Co-sponsors: Pyrometallurgy Committee; Hydrometallurgy & Electrometallurgy Committee

REWAS 2019: Rethinking Production

This topic will explore ideas and approaches to decreasing emissions and effluents in production, achieving sustainable process design, and manufacturing clean energy technologies. Measuring and quantifying embodied energy and assessment of current methods, as well as enabling cost-effective and efficient collection and reprocessing of wastes will also be discussed.

TMS Committee Co-sponsor: Materials Characterization Committee

REWAS 2019: Cast Shop Recycling Technologies

A joint session within the Cast Shop Technology session focuses on sustainable operation, life cycle assessment, recycling impact and awareness, charge materials, environmental issues, and industrial ecology.

TMS Committee Co-sponsor: Aluminum Committee

REWAS 2019: Education and Workforce Development

Transitioning knowledge from the research and academic sectors into applied work is critical to realizing sustainability. This topic solicits work in novel educational approaches like blended learning, flipped classrooms, and MOOCs, as well as approaches for integrating sustainability into traditional disciplinary curricula.. Technology transition, applied learning, workforce development initiatives, innovation, and entrepreneurship will also be highlighted.

TMS Committee Co-sponsors: Education Committee; Professional Development Committee

SUBMIT YOUR ABSTRACT ONLINE:

www.tms.org/TMS2019

Questions? Contact programming@tms.org

REWAS 2019 Organizers

Gabrielle Gaustad	Rochester Institute of Technology: gabrielle.gaustad@rit.edu
Mertol Gökelma	Norwegian University of Science and Technology
John Howater	Purdue University
Randolph Kirchain	Massachusetts Institute of Technology
Kaka Ma	Colorado State University
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Elsa Olivetti	Massachusetts Institute of Technology
Adam Powell	Infinium Metals
Fiseha Tesfaye	Åbo Akademi University
Mingming Zhang	Arcelor Mittal Global R&D
Camille Fleuriaux	Gopher Resource

REWAS 2019 is sponsored by the TMS Recycling & Environmental Technologies Committee.

Check the TMS2019 website for meeting details and programming updates:

www.tms.org/TMS2019