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TMS2025

154th Annual Meeting & Exhibition

March 23–27, 2025
MGM Grand Las Vegas
Hotel & Casino
Las Vegas, Nevada, USA
#TMSAnnualMeeting

SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2025 SYMPOSIUM:

MATERIALS SYNTHESIS AND PROCESSING

Rare Metal Extraction & Processing

This symposium will cover extraction of rare metals from primary and secondary materials and residues, recycling of rare metals, as well as rare extraction processing techniques used in metal production. The focus will be on rare metals, i.e. less common or minor metals, such as antimony, bismuth, barium, beryllium, boron, calcium, chromium, gallium, germanium, hafnium, indium, lithium, manganese, molybdenum, platinum group metals, rare earth metals, rhenium, scandium, selenium, sodium, strontium, tantalum, tellurium, and tungsten. Rare metals are technology essential, and many are critical for the energy transition. At the same time, the grade of rare metals in ores is declining. Consequently, it is urgent to develop new sustainable, energy saving and resource efficient processes and approaches for rare metal extraction and processing. Rare metal processing will cover biometallurgy, hydrometallurgy, and electrometallurgy and various techniques for mineral beneficiation, extraction, separation, and purification in lab. and pilot scale.

ORGANIZERS
Kerstin Forsberg, KTH Royal Institute of Technology**; Athanasios Karamalidis,** Pennsylvania State University**; Takanari Ouchi,** University of Tokyo**; Gisele Azimi,** University of Toronto**; Shafiq Alam,** University of Saskatchewan**; Neale Neelameggham,** IND LLC**; Alafara Baba,** University of Ilorin**; Hong (Marco) Peng,** University of Queensland

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QUESTIONS?
Contact programming@tms.org