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TMS 2017
146th Annual Meeting & Exhibition



February 26 – March 2, 2017
San Diego, California, USA

CHARACTERIZATION OF MINERALS, METALS, AND MATERIALS

This symposium focuses on the characterization of the minerals, metals, and materials and the applications of characterization results on the processing of these materials. Subjects include extraction and processing of various minerals, metals (including ferrous, non-ferrous, and precious metals and alloys, etc.), metal-matrix composites, glass, ceramic and refractories, polymers, fiber materials, biomaterials, carbon, electronic, magnetic and optical materials, high-temperature materials, newly developed advanced materials, gaseous, liquid and solid pollutants, recycling, insulation materials, and advanced characterization techniques.

Areas of interest include:

- Techniques for characterizing materials across a spectrum of systems and processes
- Characterization of mechanical, electrical, electronic, optical, dielectric, magnetic, physical and chemical properties of materials
- Characterization of processing of materials
- Characterization of structural, morphological, and topographical properties of materials
- Emerging characterization techniques
- Characterization of extraction and processing, which include process development and analysis of various processes
- Characterization of microstructure and properties of materials, which include process integration, characterization of thin and thick films (semi-conductor), micro-texture, computer tomography, X-ray tomography, in-situ microscopy, nano-scale transmission electron microscopy, atomic-force microscopy, focused ion beam techniques, and GeoMet

This symposium encourages, but does not demand, accompanying proceedings papers for each oral presentation. Awards are presented for individuals who provide the best combination of oral presentation and written proceedings paper. In addition, a poster session will occur at TMS2017 with an award for best poster.

ORGANIZERS

Shadia Ikhmayies, Al Isra University, Jordan

Bowen Li, Michigan Technological University, USA

John Carpenter, Los Alamos National Laboratory, USA

Jian Li, CanmetMATERIALS, Canada

Jiann-Yang Hwang, Michigan Technological University, USA

PROCEEDINGS PLANS

A stand-alone proceedings volume is planned for this symposium. Manuscripts for accepted abstracts are due September 1.

SYMPOSIUM SPONSOR

TMS Materials Characterization Committee

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