TMS2015

144th Annual Meeting & Exhibition

March 15-19, 2015 • Walt Disney World Orlando, Florida, USA

Connecting the global minerals, metals, and materials community.

Plan Now to Attend:

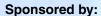### Advances in Thin Films for Electronics and Photonics

In the past few years, significant progress has been reported on the synthesis as well as on the structural, physical, and chemical characterization of self-organized thin films, including, for example, III/V semiconductors, metal oxides, and novel glass-based materials. Such materials are being increasingly studied for applications in electronics and photonics. When grown in nanostructured form (with sizes in the range of 1-100 nm), these systems exhibit size-dependent properties. These advanced materials systems are leading to fundamental new discoveries, as well as applications in photovoltaics, optical sources, electroceramics, multi-ferroic materials, catalysis, and solar hydrogen.

This symposium focuses on the synthesis, structural, and functional characterization of self-organized materials thin films and nanostructures for applications in electronics and photonics, with particular consideration given to the capability to tailor and control material properties via structural modifications. In addition, we will also consider new nanotechnology tools and technological procedures used for the development of functional devices that integrate bottom-up and top-down technologies.

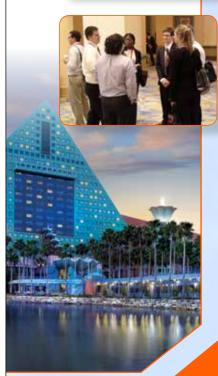Proposed session topics include:
- Multi-functional materials
- Thin films and nanostructured materials for photonics, including laser sources, nonlinear optics, photovoltaics, and solar fuels
- Thin films and nanostructured materials for electronics, including sensors

Sponsored by:
- TMS Functional Materials Division (formerly EMPMD)
- Thin Films and Interfaces Committee

Organized by:
Federico Rosei, INRS (Canada)
Nuggehalli Ravindra, New Jersey Institute of Technology (USA)
Amit Pandey, Rolls Royce LG Fuel Cell Systems Inc. (USA)
Terry Alford, Arizona State University (USA)

For more information on how to participate, visit:

www.tms.org/TMS2015

Questions? Contact *programming@tms.org*