

# TMS2015

144<sup>th</sup> 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:**

### **Fatigue in Materials: Fundamentals, Multiscale Modeling, Life Prediction and Prevention at TMS2015**

This symposium features new discoveries and advances in the fields of materials fatigue and life prediction. It brings together research scientists and design engineers from all over the world to present their latest work on current issues in investigation and simulation of fatigue damage, identification of fatigue weak links, enhancement of fatigue strength and resistance, quantitative relationships between microstructure/environment and fatigue properties, and life prediction, etc. This symposium provides a platform for fostering new ideas about development of microstructure-based models to quantify the total life (including fatigue crack initiation and early growth) of a material.

The contents of the symposium include:

- Emerging technologies for life prediction
- Microstructure-sensitive and multiscale modeling of fatigue
- Microstructure-properties-fatigue relationships
- Fatigue investigations of novel materials
- Design against fatigue and fatigue property enhancement
- Environmental-temperature effects on fatigue and life prediction

#### **Sponsored by:**

- TMS Structural Materials Division
- Mechanical Behavior of Materials Committee

#### **Organized by:**

Tongguang Zhai, University of Kentucky (USA)  
Antonios Kotsos, Drexel University (USA)

**For more information on how  
to participate, visit:**

[www.tms.org/TMS2015](http://www.tms.org/TMS2015)

Questions? Contact [programming@tms.org](mailto:programming@tms.org)