



# TMS 2012

141<sup>st</sup> Annual Meeting & Exhibition

March 11 – 15, 2012

Walt Disney World Swan & Dolphin Resort • Orlando, Florida

## This is TMS 2012...

For the global materials science and engineering community, the **141st TMS Annual Meeting & Exhibition** will be the pinnacle of professional events in 2012. It will be a hub for propelling research and development forward through a robust exchange of technical information and ideas. It will be a time for honoring the outstanding achievements of colleagues and for networking with all attendees from students to seasoned professionals. And most importantly, it will be a time for personal career growth.

For these reasons, and many more, your presence is requested March 11-15, 2012 to join some 4,000 colleagues for four days of "Linking Science and Technology for Global Solutions."

### Who Should Attend?

- Scientists and engineers involved in the spectrum of minerals, metals, and materials work, from processing and primary metals production to basic research to the advanced applications of materials.
- Representatives of industry, academia and government laboratories
- Students studying in the metallurgical and materials fields

**78°** Average High Temperature in Orlando in March

**67** Unique Symposia

## REGISTRATION VALUE

Register securely online by February 15, 2012 and save \$100 off the on-site fee. Visit [www.tms.org/tms2012](http://www.tms.org/tms2012) and click on the Registration link.

- Technical & Poster Sessions featuring nearly 70 symposia and almost 4,000 total presentations
- Exhibition offering the latest innovations and services designed to bring materials science and engineering ideas to fruition
- President's Welcoming Reception
- Women in Science Breakfast (*preregistration required*)
- Student Events
- Proceedings (*free of charge for all full conference attendees*)

Registration Package	Advanced	On-site
Member	\$575	\$675
Non-member Author	\$690	\$790
Non-member	\$725	\$825
Student Member	\$75	\$100
Student Non-member	\$100	\$125
Exhibit Only	\$50	\$50

## HOUSING

**TMS 2012 Headquarters Hotel:**  
Swan & Dolphin Resort, Orlando, Florida.

By booking here, you will receive exclusive benefits such as no service fees, immediate confirmations, instant reservation updates and the lowest rates. Reservations are being secured through Travel Planners. Lock in the lowest rates at the best hotels in Orlando, Florida today. To secure reservations, visit: [www.tms.org/tms2012](http://www.tms.org/tms2012) and click on the Housing & Travel link.

### TMS salutes the honorees of TMS 2012!

A roll call of our esteemed colleagues appears at the bottom of each page of this advance program.

(as of 11/22/11)

AIME Rossiter W. Raymond Memorial Award



Alexis Lewis David Rowenhorst  
U.S. Naval Research Laboratory

Alexander Scott Distinguished Service Award



Ramana Reddy  
University of Alabama

Application to Practice Award



Mark Taylor  
University of Auckland

Bruce Chalmers Award



A. Lindsay Greer  
University of Cambridge

## STUDENT EVENTS

### TMS 2012 Materials Bowl

Date: Sunday, March 11, 8:30 p.m.  
**Final Championship Round**

Student teams compete for cash prizes and earn the right to take home the traveling trophy after conquering three rounds of intense materials science-based questions.

### Student Mixer

Date: Sunday, March 11, 9:00 to 10:30 p.m.

Put on your dancing shoes to meet and mingle with peers in an informal social atmosphere.

### Student Poster Contest

Date: Monday, March 12 through Tuesday, March 13

Undergraduate and graduate students will vie for cash prizes at this annual competition sponsored by the five technical divisions of TMS. Participants in this dynamic and interactive event compete for a \$500 prize in each division for the best undergraduate and best graduate poster. Plus an additional \$500 will be presented for the best posters in the undergraduate and graduate divisions.

### Career Forum

Date: Tuesday, March 13, 3 to 5 p.m.

Organized by the TMS Young Leader Committee, this session will feature speakers from a variety of materials science backgrounds and career stages who discuss how to navigate a career path to ultimate goals.



## GENERAL INFORMATION

### TMS Welcome Center

The TMS Welcome Center is the hub for society information and key initiatives. Visit the center to learn more about the following TMS activities and opportunities:

- Membership Benefits
- Volunteer Opportunities
- Publications and Journals
- Upcoming Meetings
- TMS Foundation
- Wired to Washington
- Other TMS Initiatives

### Policies

#### Audio/Video Recording Policy

TMS reserves the right to all audio and video reproductions of presentations at TMS sponsored meetings. Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication, or copyright without the express written consent of TMS and the individual authors is strictly prohibited. Contact TMS Technical Programming at (724) 776-9000, ext. 212 to obtain a copy of the waiver release form.



### About Orlando

Orlando is home to some of the nation's greatest theme parks, but the city has much more to offer its visitors. Enrich your mind with diverse technical sessions and engage in professional networking during the day, then relax and enjoy the Walt Disney World attractions in the evening! Complimentary shuttle bus transportation is provided to many Walt Disney World resort locations and attractions, which are just minutes away. Learn more about the city by visiting [www.tms.org/tms2012.org](http://www.tms.org/tms2012.org) and clicking the Housing & Travel link.

Number of attendees at  
 TMS 2011 **4,100**

Presidential Scholarship Award	LMD Distinguished Service	LMD Technology	MPMD Distinguished Service	MPMD Distinguished Scientist/Engineer	SMD Distinguished Scientist/Engineer	SMD Distinguished Service
						
Rachel Garrick University of Illinois	Eric Nyberg Pacific Northwest National Lab	Mark Philip Taylor University of Auckland	Joy Forsmark Ford Motor Company	John Morral Ohio State University	Yuntian Zhu North Carolina State University	Eric Taleff University of Texas