

Excellence and Inspiration: TMS Honors the Best of the Best



The outpouring of great work and generous exchange of ideas that takes place during a TMS Annual Meeting and Exhibition are the very qualities that make the minerals, metals, and materials professions so vital to the continued advancement of society. That's why recognizing those TMS members who have distinguished themselves from a field of excellence is a focal point of every TMS Annual Meeting.

TMS is further underscoring the significance of its highest professional honors by opening the TMS-AIME Honors and Awards Ceremony to all attendees of the TMS 2014 Annual Meeting & Exhibition (TMS2014) in San Diego. The program will take place on Tuesday, February 18, and offers the rare opportunity to see and hear some of the most influential figures in the field at the pinnacle of their careers. This year's ceremony will also be hosted by some of TMS's most esteemed members. Ray Peterson, 2009 TMS President, will present the awards celebrating the achievements of TMS's young and mid-career

members. Tresa Pollock, the 2005 TMS President and 2009 TMS Fellow, will honor those receiving TMS's pinnacle awards. And, Carolyn Hansson, 1997 TMS Fellow, will present the 2014 Class of TMS Fellows.

Said Elizabeth Holm, 2013 TMS President on the changes to this year's awards ceremony, "For our more senior members, we believe it will offer a memorable, moving occasion to celebrate the excellence of their colleagues. We hope members early in their careers will take advantage of this chance to congratulate mentors and be inspired to strive for similar heights themselves."

Please join TMS and its divisions in congratulating the following members who will be honored for their achievements and professional contributions at TMS2014. To learn more about this and other TMS2014 events and activities, visit the TMS2014 website at www.tms.org/tms2014.

DIVISION AWARDS

LMD Energy Best Paper–Professional

This award recognizes the author(s) for excellence of a paper published in the preceding year's volume of the energy proceedings or *JOM* magazine.



Donna P. Guillen, Distinguished Staff Engineer, Idaho National Laboratory

Paper: "The Autoignition of Cyclopentane in an Ignition Quality Tester," *JOM*, Vol. 64, May 2012.

"It is energizing to be part of the TMS LMD, a highly respected group of

professionals from industry, academia, and government working to advance technical knowledge in the materials field," said Guillen. "I look forward to attending the TMS Annual Meeting each year and having the opportunity to interact with this group of professionals. The exchange of ideas and feedback on applying my research to industrial applications has enhanced its value and impact to the materials community."

LMD Energy Best Paper–Student

This award recognizes the author(s) for excellence of a paper published in the preceding year's volume of the energy proceedings or *JOM* magazine.

Jarrold D. Milshtein, Graduate Research Assistant, Massachusetts Institute of Technology; Soumendra Basu, Associate Division Head, Boston University; Srianth Gopalan, Associate Professor, Boston University; Uday B. Pal, Professor, Boston University

Paper: "A Thermochemical Study of the W/WO₃ System: A Solar to Fuel Converter for Syngas Production," *Energy Technology* 2013.

"Since beginning my undergraduate academic career, I have been on a mission to contribute to the field of advanced energy technologies," said Milshtein. "This award is reassurance that I am on the correct path towards a significant impact on the global energy challenge."

LMD Magnesium Technology Best Paper–Application

Recognizes individual excellence of a paper published in the preceding year's volume of *Magnesium Technology* on the topic of application to magnesium technology.

Matthias Gieseke, Laser Zentrum Hannover e.V.; Christian Noelke, Laser Zentrum Hannover e.V.; Stefan Kaierle, Laser Zentrum Hannover e.V.; Volker Wesling, Clausthal University of Technology; Heinz Haferkamp, Laser Zentrum Hannover e.V.

Paper: "Selective Laser Melting of Magnesium and Magnesium Alloys."

"This has been unexpected and surprising for me," said

Gieseke. "Because establishing magnesium within the selective laser melting process is in its early stages, I did not expect such great interest in this technology. This fully encourages me to continue my work."

LMD Magnesium Technology Best Paper–Fundamental Research

Recognizes individual excellence of a paper published in the preceding year's volume of *Magnesium Technology* on the topic of fundamental research to magnesium technology.



Bin Li



Bo-Yu Liu



Zhi-Wei Shan

Bin Li, Assistant Research Professor, Mississippi State University; Bo-Yu Liu, Ph.D. Candidate, Xi'an Jiaotong University; Zhi-Wei Shan, Executive Director, Xi'an Jiaotong University

Paper: "Twin Boundary Migration Creating Zero Shear Strain: In-Situ TEM Observations and Atomistic Simulations."

Said Li, "This award typifies a fruitful international collaboration that was created when the authors first met and discussed fundamental issues of magnesium at TMS2012. This award also exemplifies the empowerment of TMS for its highly diversified members around the world." Added Liu, "This award will greatly encourage our further research. We are looking forward to seeing the promised application of our work by taking the advantage of international discussion and collaboration provided by TMS." "It is great to see our recent work on deformation mechanism in magnesium can be recognized," Shan agreed. "It opens a new way to solve the practical problem in the application of magnesium and its alloys."

LMD Magnesium Technology Student Paper

Recognizes the best paper contributed at the TMS Magnesium Technology Symposium for research/development work by a student.

Victoria Miller, Graduate Student, University of California; Tresa Pollock, Professor, University of California

Paper: "Recrystallization Behaviour of a MgAlCa Alloy during Thermomechanical Processing and Subsequent Heat Treatment."

"Until only a few years ago, I had been focusing on very

DIVISION AWARDS

SMD Distinguished Scientist/Engineer Award

Recognizes an individual who has made a long-lasting contribution to the fundamental understanding of microstructure, properties, and performance of structural materials for industrial applications.



G. Robert Odette, Professor, University of California, Santa Barbara

Citation: *For seminal contributions to fundamental understanding of irradiation effects on materials and translation into predictive engineering models of materials performance.*

“TMS Annual Meetings are seldom-missed, wonderful events, where I and my research group have been able to exchange ideas, learn about amazing new science, interact with outstanding collaborators and establish new interactions with world leading researchers,” said Odette. “Whatever I have been able to accomplish owes a debt to many of these great individuals. The intellectual cross fertilization provided by TMS meetings, as well as by *JOM*, has been very important to me on a personal basis, as well as to our field, one which is so important to scientific and technological progress.”

SMD JOM Best Paper Award

Recognizes the author(s) of a paper published in an issue of the preceding volume year of *JOM* under a structural materials related technical topic.



Teresa E. Perez, Engineer, Tenaris

Paper: “Corrosion in the Oil and Gas Industry: An Increasing Challenge for Materials,” *JOM*, Vol. 65, August 2013.

“TMS is and has been a key organization promoting actions concerned with metals and materials and *JOM* is a relevant publication in the field,” said Perez. “To receive an award from this institution and during the TMS Annual Meeting is, no doubt, a great honor and a valuable professional recognition.”

This article was compiled by Lynne Robinson, JOM Contributing Editor, Taitia Shelow, freelance writer, and Deborah Price, TMS Awards and Recognition Specialist.



Nominating a colleague for a TMS award is a meaningful way of honoring someone who has made a significant impact on the minerals, metals, and materials professions through scholarship, leadership, or mentoring. While highlighting outstanding accomplishments of TMS members is an obvious goal, the TMS Honors and Awards Program also plays an integral role in advancing the society's mission. Many award winners share their knowledge through special lecture opportunities, while others receive support to enhance their professional development through conference participation. All benefit from being recognized before their peers, while also inspiring other scientists and engineers, at all phases of their careers, to strive for this same or higher level of excellence.

To begin the nomination process, visit the recently upgraded TMS Honors and Awards Program website at awards.tms.org. Criteria and submission information is provided for every TMS award, accessed from a drop down menu. Specific bylaws references, as well as a complete listing of current and past winners, are included. An online search capability makes it easy to find information, while the universal nomination form is readily accessible.

Go to awards.tms.org today and consider participating in the TMS Honors and Awards Program as a nominator, applicant, or awards committee member. For additional information, contact Deborah Price, TMS Awards and Recognition Specialist, at price@tms.org.

The deadline for submitting nominations for most awards to be conferred by TMS in 2015 is April 1.

