

PROFESSIONAL PREFACE

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The Newsletter for Student Members of The Minerals, Metals & Materials Society

WELCOME!

TMS offers many avenues for students to receive funding to continue their studies in materials science and engineering. Funding is available throughout the year and especially for the TMS Annual Meeting & Exhibition to be held February 14–18 in Seattle, Washington. During the annual meeting, TMS will showcase student events including the 4th Annual Materials Bowl and student mixer. Don't miss the deadline to enter the Materials Bowl and other student competitions. For all the details, visit www.tms.org/Students/students.aspx.

Following graduation, TMS offers a complimentary one-year professional membership. Simply complete the "Recent Graduate" application available online. We invite you to take advantage of this opportunity to become involved!

Please do not hesitate to let me know if you have any questions about your TMS membership through the Material Advantage partnership. TMS is here to serve you, our member.

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2009 SUPERALLOYS SCHOLARSHIP WINNERS ANNOUNCED

The Organizing Committee of the International Symposium on Superalloys will present two students with scholarships during the Materials Science & Technology 2009 (MS&T'09) Conference October 25–29 in Pittsburgh, Pennsylvania. Each student will receive a \$2,000 cash scholarship and up to \$500 to travel to the conference to accept the scholarship.



The Superalloys Scholarship is open to all undergraduate and graduate students majoring in metallurgical and/or materials science and engineering with an emphasis on high-temperature, high-performance materials used in the gas turbine industry and all other applications.

This year's winners are Alvaro Mendoza, a student at the University of Florida, and Lauren Neufarth, a student at The Ohio State University.

Alvaro Mendoza

"I want to thank the Superalloys Symposium for choosing me for the scholarship. I am very grateful for this honor."

Lauren Neufarth

"Being a recipient of this award is such an honor. Thanks for encouraging me and investing in my future. I will be sure to put this to good use and work hard to reach my goals."

TMS Student Scholarships and Awards



To view additional student scholarship and award opportunities available from TMS, visit the student award Web site at www.tms.org/Students/Awards.html. TMS offers more than \$50,000 annually in scholarships and awards. Applications for most 2011 scholarships are due March 15, 2010.

Additional TMS student scholarship and award winners will be announced in the February issue of *Professional Preface*.

STUDENT CHAPTER SPOTLIGHT: 2009 WORLD MATERIALS DAY AWARD WINNER

Florida International University (FIU) was selected to receive the 2009 World Materials Day Award for the second consecutive year. The university shared the 2008 award with the University of Connecticut. This annual award is sponsored by the International Organization of Materials, Metals and Minerals Societies (IOMMMS) and is given to student chapters that have promoted the wider knowledge of materials and their importance in everyday life to young people. The contest promotes outreach projects for K–12 students, and winning chapters should demonstrate projects that inform students about the field of materials engineering and encourage them to learn more about the study of materials.

One of the objectives of the Material Advantage Chapter at FIU is to promote materials science and engineering in high schools. To meet their objective, the chapter implemented the outreach program "Preparing Tomorrow's Material Science and Engineering Professionals—TODAY." This program enabled the chapter to spread knowledge of materials science among school-aged children and encouraged them to pursue their future careers in this vast field. The FIU chapter is actively involved in K–12 outreach activities, educating high school students and teachers in the field of materials science, technology, and engineering.

According to IOMMMS, the chapter found success in meeting their goal after learning three high school students approached faculty members to learn more about materials science. One of those students was recently accepted to the university and has expressed interest in continuing summer internships in the laboratory.

TMS LOOKS TO CREATE A NEW COMMITTEE FOR GRADUATE STUDENTS

TMS has nearly 60 technical and administrative committees that serve a variety of professional and technical interests. However, none of these committees is organized specifically for graduate students. Because the number of graduate students continues to grow within the TMS membership, the Society wants to create a new committee geared specifically for these individuals.

An organizational meeting will be held at 10 a.m. October 26 in the David L. Lawrence Convention Center, Room 415, fourth

floor. The meeting is for graduate students interested in becoming an active part of forming this committee and to discuss how the Society can better benefit the graduate student community. Officers will also be selected at this meeting. TMS hopes to have the first committee meeting at the 2010 Annual Meeting & Exhibition in Seattle, Washington.

For more information, contact Deborah Price, TMS student & professional affairs administrator, at price@tms.org.

TMS JOINS THE SOCIAL NETWORKING SCENE: FLICKR, LINKEDIN, FACEBOOK

TMS members are now able to socially connect with professionals from across the globe through three social networking sites—Flickr, LinkedIn, and Facebook. Each of the Society's group pages offers an abundance of opportunities to not only connect in a professional manner, but also in a fun one.

The Flickr photo sharing site was set up prior to the TMS 2009 Annual Meeting & Exhibition as a way to share conference events with those who could not be at a particular session or networking opportunity. In addition, it gave those who could not make it to the annual meeting a chance to experience it. Many of the photos spotlight student activities such as the 2009 Alcoa Materials Bowl Tournament, student mixer, and poster contest. Log in to see if you are featured in any photos, and while you are there don't forget to upload any photos and videos from daily events, meetings, the exhibit hall, competitions, and even down-time from any TMS sponsored or co-sponsored conference.

TMS continued to follow the social networking scene by adding the Society's identity to an existing LinkedIn group page that was established in August 2008. This networking page offers materials science professionals and their colleagues a chance to join discussions, remain up-to-date on TMS news, and search posted jobs. In mid-September, the group page consisted of 530 members and nearly three dozen discussions and job postings.

To round out TMS' social networking opportunities, the Society recently established a fan page on Facebook—TMS-The Minerals, Metals & Materials Society (Figure 1). The page allows fans, or Facebook members, to post comments to Society postings or to generate discussions of their own. In addition, up-to-date TMS news scrolls the page using the Really Simple Syndicate feed and photos from the TMS 2009 Annual Meeting & Exhibition, and videos from the 2009 Materials Camp for Teachers can be viewed. The only thing missing is you—and your conference photos and videos, of course!

To join both the TMS LinkedIn group and Facebook fan pages, you must be members of each social networking site. To become a LinkedIn member, visit www.Linkedin.com; a Facebook member, www.Facebook.com; or to view or upload photos to the TMS Flickr site, visit www.flickr.com/photos/tmsevents/.



Figure 1. The TMS Facebook fan page allows members to become socially connected.

TMS FOUNDATION GRANT TO FUND PROJECT WITH ENGINEERS WITHOUT BORDERS-USA

TMS is building on its core mission to invest in knowledge, people, products, and infrastructure that positively impact societal quality of life by approving a grant for a collaborative project with Engineers Without Borders-USA (EWB-USA) (Figure 2). The grant will subsidize a soon-to-be determined project that centers on using materials science and engineering principles as applied to sustainable development.

The venture will be carried out by an EWB-USA student project team consisting of at least two Material Advantage student members. The selected project will be announced at the Materials Science & Technology 2009 (MS&T'09) Conference and Exhibition that will be held October 25–29 in Pittsburgh, Pennsylvania.

"This grant supports our expanded Foundation mission and our approach to work with capable partners in execution," said TMS President Ray D. Peterson. "We hope that our collaboration with Engineers Without Borders-USA will be the first of many projects in the future."

EWB-USA is a nonprofit humanitarian organization established to partner with developing communities worldwide in order to improve their quality of life. This partnership involves the implementation of sustainable engineering projects, while involving and training internationally responsible engineers and engineering students.

"Since the Materials and Society Committee proposed this EWB-USA service grant to the TMS Foundation, I am especially gratified that one of our key objectives will be met in this first year of our existence as a committee," said Iver Anderson, chair of the TMS Materials and Society Committee. "We can't wait to see the proposals that will be submitted, which will accelerate our professional society along the path of high impact service to the world in need."

To view a list of EWB-USA student chapters, visit the "Chapters" section of its Web site at www.ewb-usa.org/chapters.php. Member chapters can log in to submit an open program application.



Figure 2. The TMS Foundation has approved a grant for a collaborative project with EWB-USA. The project will be announced at MS&T'09.

TIPS FOR PLANNING FOR TMS 2010

The TMS 2010 Annual Meeting & Exhibition is designed to provide students the opportunity to meet with scholars from other materials science and engineering programs throughout the world, and to network with established professionals and to learn about recent technical developments in this broad field. TMS 2010 will be held February 14–18 in Seattle, Washington.

Advance planning can help both student chapters and individual students to get the most out of their annual meeting experience. Here are a few tips for planning your trip:

- **Get There Early:** When making travel arrangements, be sure to arrive in time to take advantage of all the student activities on Sunday, February 14.
- **Create a Materials Bowl Team:** Gather your best and brightest students to compete in the 4th Annual Materials Bowl. In this materials-themed quiz-show competition, each student chapter can enter one team of up to four students each to compete for cash prizes.
- **Enter the Student Poster Competition:** The TMS Technical Division Student Poster Contest provides an opportunity to show off your research and earn a little cash. The best-in-show poster wins \$1,000, with additional \$500 awards given to division winners in both graduate and undergraduate categories.
- **Secure Individual Travel Scholarships:** Students can apply for grants from the Electronic, Magnetic & Photonic Materials Division; the Structural Materials Division; or the Materials Processing & Manufacturing Division.
- **Apply for Chapter Travel Reimbursement:** TMS offers up to \$500 in travel reimbursement to each student chapter that sends representatives to the TMS Annual Meeting and Exhibition.

Further information on these opportunities can be found on the TMS student Web site at www.tms.org/Students/Students.html.