

PROFESSIONAL PREFACE

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



WELCOME!

During 2007 and 2008, TMS will once again be offering a number of scholarship and contest opportunities to help you further your materials education and professional development. We are interested in increasing our student participation in these events! In addition, stay tuned for information on a full program of student activities in conjunction with the TMS 2008 Annual Meeting and Exhibition. The 2nd Annual TMS Materials Bowl will give student chapters a chance to once again square off with one another in a Jeopardy-style knowledge and trivia competition. Many career-building and networking opportunities will also be available during the upcoming TMS Annual Meeting in New Orleans, Louisiana. Please come and join us!

I would like to take this opportunity to introduce myself. My name is Bryn Stone, and I am the new manager of membership and student affairs at TMS. If you have any questions about your TMS membership through the Material Advantage partnership, please let me know. I would be happy to assist you in any way that I can. I hope that everyone has an academically and personally rewarding semester!

Bryn Stone

Manager of Member Services and Student Affairs
bstone@tms.org

SUPERALLOY SCHOLARSHIP WINNERS ANNOUNCED

At the September Materials Science & Technology (MS&T) conference, two students were presented with scholarships from the International Symposium on Superalloys. Each student received a \$2,000 cash scholarship and up to \$500 to travel to MS&T '07 in Detroit, Michigan. The award is available to undergraduate and graduate students majoring in metallurgical and/or materials science and engineering with an emphasis on high-temperature, high-performance materials.

This year's winners are:

Jane Fiedler, University of Michigan: "Thank you so much TMS for your help and support. It's great to have support from such a great organization. I'm looking forward to working in MSE fields, and the new exciting developments to come!"

Joshua Jackson, Colorado School of Mines: "Life is an ongoing experiment in which we optimize ourselves. I enjoy working on problems at the edge of the possible and impossible with Profs. David Olson and Brajendra Mishra, and also participating in all of the TMS offerings, from papers and posters to Materials Bowl and the exhibitions. I have learned a great deal from TMS and look forward to actively participating in the society in the future!"

To view additional student scholarship and award opportunities available through 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 2009 scholarships are due March 15.

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



STUDENT CHAPTER SPOTLIGHT: UNIVERSITY OF PUERTO RICO-MAYAGÜEZ

Student Chapter Name: University of Puerto Rico-Mayagüez (UPRM)

Year Established: 2004

Notable: The University of Puerto Rico-Mayagüez Material Advantage chapter reports that it is the first materials-related student chapter in Puerto Rico. Although UPRM does not have a materials science and engineering (MSE) program, most chapter members work in materials research groups at the university.

2007-2008 Officers: José Vázquez, chair; Ruth Hidalgo, vice chair; Alexandra Cintrón, secretary; Victor Estrella, treasurer; and O. Marcel Suárez, chapter mentor.

Chapter Mission: To facilitate access to opportunities in the field of MSE for all students and to raise awareness of MSE issues among students in both universities and local public schools.

"We want people to realize how much the MSE field in general and nanotechnology in particular have expanded worldwide, a fact that is reflected in an increasing number of job opportunities to new graduates," said Hidalgo.

Activities: The chapter has organized a variety of activities that promote personal and professional enrichment, provide leadership and networking opportunities to all members, and encourage members to improve their academic performance and development. These activities in-



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FOR MORE INFORMATION . . .

. . . on participating in TMS student activities, contact Bryn Stone, manager of Member Services and Student Affairs, at bstone@tms.org or visit www.tms.org/Students/Students.html.

SPOTLIGHT (CONTINUED)

clude regular meetings, organization of workshops on topics related to MSE, and participation in job fairs and company information sessions. The chapter has also hosted guest speakers from both industry and academia.

In the past two years, the chapter has collaborated with the Partnership for Research and Education on Functional and Nanostructure Materials (PREM) program (NSF Award No. DMR-0351449). The partnership is intended to create richer educational and research opportunities for Hispanic students in MSE and thereby increase their representation in the materials community. This will also provide a strong research underpinning for the first Puerto Rican graduate degree in MSE, which is being established at UPRM in 2008. In this respect, the chapter provides logistical support to PREM educational initiatives at UPRM to encourage interactive research and education of participating students, including summer research at UPRM and support of high school students working on their MSE fair projects.

Fundraising: In the last year, the chapter promoted the participation of graduate and undergraduate students in poster presentations and at national meetings. At the TMS 2007 Annual Meeting in Orlando, Florida, six members participated in the student poster competition. Two students won first place in their divisions, and the other two received travel scholarships to attend the meeting. Chapter members received some complementary financial support from PREM, the Puerto Rico NASA Space Grant Consortium, and the Puerto Rico Louis Stokes Alliance for Minority Participation Program.

Advice to New Chapters: “Don’t worry about how many members you have: what is important is how deeply committed those members are,” said Hidalgo. “Getting in touch with what is happening in the material science community is of utmost importance; therefore the participation of the student chapters in activities should always be priority number one. Our chapter has made sure that we have representation in almost all of the society activities, even if that means sending only one person. As time passes and the projects and activities start getting recognized on campus or nationally, more students will join when they become aware of the multiple opportunities available in the MSE field. Overall the best advice we can give is to get active and participate.”

PLANNING FOR THE TMS ANNUAL MEETING?

The TMS Annual Meeting provides an opportunity to interact with students from other materials programs, to network with established professionals, and to learn about recent technical developments in the broad field of materials science and engineering. A little bit of 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 to the TMS 2008 Annual Meeting, to be held March 9–13 in New Orleans, Louisiana:

- **Create a Materials Bowl Team:** Gather your best and brightest students to compete in the second annual materials bowl. In this materials-themed quiz show, each student chapter can enter one team of up to four students. The winning team will take home \$1,500 for its chapter, an additional \$250 for each team member, and one-year possession of the Materials Bowl trophy. The runner-up team will win \$1,000 for its chapter.
- **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 posters are judged by professional materials scientists and engineers. The best-in-show poster wins \$2,500, and an additional ten \$500 awards are given to division winners in the graduate and undergraduate categories.
- **Secure Individual Travel Scholarships:** Several TMS technical divisions offer grants to help defray the cost of travel for students attending the TMS Annual Meeting. 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 \$500 travel reimbursement to each student chapter that sends representatives to the TMS Annual Meeting. Reimbursement forms must be submitted by a chapter officer or faculty member.
- **Sign up to Be a Student Monitor:** Sit in on technical sessions, interact with symposium organizers and speakers, and earn a little spending money for your trip. Student monitors work closely with symposium organizers to take attendance at sessions and help with room set up. But sign up early—these positions fill up quickly. Contact Cheryl Moore, TMS programming and proceedings assistant, at cmoore@tms.org for more information.

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

STUDENTS PREPARE FOR SOUTH KOREA TRIP

Next month, two students will cash in their prizes from the TMS 2007 Annual Meeting student poster competition. Micah Hackett, a graduate student at the University of Michigan, and Ka C. Wong, a graduate student from North Carolina State University, will attend the Sixth Pacific Rim International Conference on Advanced Materials and Processing (PRICM 6) in Jeju Island, South Korea, as student ambassadors of TMS.

Hackett and Wong were selected from 85 students to receive the 2007 Student Ambassador Award at the 2007 TMS Technical Division Student Poster Competition. They were selected based on the quality of the work presented in their poster entries.

TMS is currently preparing for the 2008 student poster competition. Students can submit abstracts of their work through CMS-Plus, the on-line TMS conference and proceedings management system, at cmsplus.tms.org. To enter a poster abstract, select the TMS 2008 Annual Meeting and scroll down to “Technical Division Student Poster Contest.”

MATERIAL ADVANTAGE PROGRAM WELCOMES NEW STUDENT CHAPTERS

This year, the Material Advantage program has welcomed a number of new student chapters from throughout the world. Some of the most recent additions to the program are:

- Boise State University in Idaho
- University of Minnesota
- UNAM-SIQMA (The Universidad Nacional Autónoma de México-Sociedad de Ingenieros Quimicos Metalurgicos Alumnos) in Mexico
- Worcester Polytechnic Institute
- German University in Cairo, Egypt
- National Engineering College in India
- University of California, Irvine
- University of New South Wales in Australia

The Material Advantage program is always open to new student chapters. If you are interested in forming a Material Advantage chapter at your school, visit the student chapter section of the Material Advantage web site at www.materialadvantage.org/develop.asp or contact Bryn Stone, TMS manager of member services and student affairs, at bstone@tms.org