

# PROFESSIONAL PREFACE

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



## NEW MATERIAL ADVANTAGE CHAPTERS PLANNED AT MINNESOTA AND MIT

Joining the Material Advantage program has many benefits for students—access to technical resources, scholarships, contests, awards, travel funding—but students who get the most out of the program are usually also involved in a Material Advantage student chapter at their school. That's why TMS is looking for volunteers to start student chapters at schools that have Material Advantage members, but no formal chapters.

In the fall, 2006 TMS President Brajendra Mishra visited two such schools: the University of Minnesota and the Massachusetts Institute of Technology (MIT). At both schools, Mishra took the opportunity to discuss the importance of professional societies to the academic and professional development of students. And at both schools, students and faculty members stepped up to take leadership roles in developing new student chapters.

MIT is now in the process of revitalizing its long-inactive student chapter, under the leadership of faculty member Christopher Schuh, who is Danae and Vasilios Salapatias associate professor of metallurgy, and student Nathan Pfaff. At the University of Minnesota, where Mishra completed his own undergraduate work, faculty member Barry Carter, who is 3M Heltzer professor in the Department of Chemical Engineering and Materials Science, and Jennifer Rask, a senior materials science and engineering major, are leading the development of an entirely new chapter.

For Rask, the desire to form a Material Advantage group came out of seeing the student group formed by a related discipline at her school. "The chemical engineering group seemed to have fun with it, and I wanted that for the materials science and engineering students, to create an identity for us," she said.

So when TMS sent out a call for volunteers to develop a Material Advantage student chapter at her school, she accepted. Starting a student chapter began simply enough, with Rask contacting some of her fellow students by e-mail to encourage participation in a new student chapter. For their first meeting, the new chapter arranged to have a science advisor to a law firm come in to speak with students about alternative career paths for their degrees. The second meeting brought interested students together to brainstorm for future activities.

To help get the chapter off the ground, TMS helped Rask obtain funding to attend the Student Chapter Development Conference at MS&T '06 in October, where representatives from student chapters throughout the Material Advantage program gathered to share ideas and learn new strategies for fundraising, outreach, and other chapter activities.

The Minnesota chapter is still in its early stages, but already has plans to send six students to the TMS 2007 Annual Meeting in Orlando, Florida. They have assembled a team to compete in the Materials Bowl, a quiz-show style competition that pits teams of materials students against one another for a \$1,500 prize. This competition, the first of its kind, is being held as part of TMS's 50th Anniversary celebration.

*To Form a Student Chapter . . .*

Students interested in forming a Material Advantage chapter at their own schools should contact Chris McKelvey, TMS manager of Member Services and Student Affairs, at [cmckelvey@tms.org](mailto:cmckelvey@tms.org).

## 2007 STUDENT AWARD WINNERS

In 2007, the TMS Foundation and TMS technical divisions funded scholarships and awards to help students pursue their academic goals. The application deadline for 2008 scholarships and awards is March 15, 2007. Scholarship applications and submission requirements can be accessed through [www.tms.org/Students/Awards.html](http://www.tms.org/Students/Awards.html). The following student members received this year's awards.



### 1. TMS J. Keith Brimacombe Presidential Scholarship

*"I would like to express to TMS my sincerest gratitude for selecting me as a recipient for this year's J. Keith Brimacombe Presidential Scholarship. Receiving this scholarship is not only an honor, but also a tremendous financial help in achieving my educational goals. I would also like to thank Professor George Malliaras and Professor Michael Thompson for their mentorship and support, as well as the entire materials science department at Cornell University for all of the opportunities and educational experiences that it has provided me throughout my undergraduate years."*

**David Herman, Cornell University**



### 2. TMS Outstanding Student Paper, Graduate Division, First Place

*"It is a great honor for me to receive the award. It truly inspires me to continue my pursuit of materials science research. Thanks to many people who helped me to accomplish the study. Especially, I would like to thank my advisor, Dr. Sinn-wen Chen of the National Tsing Hua University, who always encourages me and provides wise suggestions. Finally, I really appreciate TMS providing such an opportunity. It's definitely beneficial to a graduate student's career development."*

**Shih-kang Lin, National Tsing Hua University**



### 3. TMS Outstanding Student Paper, Graduate Division, Second Place

*"This award is truly an honor for me and encourages me to be more absorbed in my research field (mechanical behavior/neutron diffraction). I appreciate being recognized by TMS, which is always an outstanding source in material science and engineering. I am very thankful to my advisors Profs. Hahn Choo, Peter K. Liaw, and collaborators for their helpful guidance and support."*

**Wanchuck Woo, the University of Tennessee**



### 4. Electronic, Magnetic & Photonic Materials Division Gilbert Chin Scholarship

*"I am extremely honored to receive the TMS Electronic, Magnetic & Photonic Materials Division Gilbert Chin Scholarship. This award recognizes my hard work and the talent of the outstanding faculty, staff, and students that make up the Materials Science and Engineering Department at Carnegie Mellon University. In addition, this scholarship will provide significant financial support as I continue my education in materials science."*

**Nichole Cates, Carnegie Mellon University**

## STUDENT AWARD WINNERS (CONTINUED)



### 5. Extraction & Processing Division Scholarship

"I am honored to accept this award. I appreciate TMS recognizing that financial assistance is possible for students who aspire to do their best. Thank you for helping me achieve my professional goals."

**Matt Lyndoe, South Dakota School of Mines & Technology**



### 6. Extraction & Processing Division Scholarship

"It is an honor to be recognized for leadership and academics within the materials science community. I am privileged to join the company of past and future EPD Scholars within TMS. The support of TMS has renewed my motivation to maintain a high level of academic and extracurricular involvement."

**Andrea Murland, University of Alberta**



### 7. Extraction & Processing Division Scholarship

"I am honored to have my academic achievement and involvement recognized through the TMS/EPD Scholarship. I am also grateful that TMS values and supports students in their academic endeavors and hope that other students will be encouraged to apply in the upcoming years."

**Megan Ross, Michigan Technological University**



### 8. Extraction & Processing Division Scholarship

"I appreciate this award so much. It is a great honor to be selected as a TMS EPD scholar. I owe so many thanks to all the people who helped me to gain the experience and knowledge that aided in my selection for this award. To all my professors at Washington State University, my mentors at Battelle NW, and the TMS scholarship committee, thank you so much for your time and contributions toward my education. I will work very hard to honor this award; it is truly a great help in offsetting the costs of my education."

**Nicole R. Schatz, Washington State University**



### 9. Light Metals Division Scholarship

"During my first three years at South Dakota School of Mines & Technology [SDSM&T], I have experienced first hand what a wonderful university it is. The greatness of SDSM&T is exceeded only by the greatness of organizations that support the students. Your contribution through TMS to the many student members is great encouragement for students to stay in school and in the field of materials and metallurgical engineering by lessening the financial pressure so students can concentrate on academics. Without organizations such as TMS, a great education would be near impossible for many students, such as myself. Again I want to thank TMS for its contribution and hope that this organization will continue to support its student members in years to come."

**Cassandra Degen, South Dakota School of Mines & Technology**



### 10. Light Metals Division Scholarship

"I am truly honored to have been selected as an awards recipient. It is very encouraging to receive this kind of recognition and support as a student. This has inspired me to promote TMS at McMaster so that other students can experience what this wonderful organization has to offer. Thank you TMS for naming me an LMD Scholar!"

**Ayesha Hashambhoy, McMaster University**



### 11. Light Metals Division Scholarship

"I am extremely honored to accept the LMD Scholarship. This scholarship will allow me to pursue my studies in materials science and engineering at the University of Toronto and continue my research without having to worry about financial hardship. I am very grateful to TMS for their outstanding dedication and commitment to young developing engineers."

**Jeffrey Yi-Fu Yang, University of Toronto**



### 12. Materials Processing & Manufacturing Division Scholarship

"All the boundaries, all the obstacles on the road will not distract or discourage me from my goal. The award is a confirmation that I am still following the path that I chose and that I will keep fighting through."

**Rodolfo Camacho, Georgia Institute of Technology**



### 13. Materials Processing & Manufacturing Division Scholarship

"I am extremely honored and grateful to receive recognition from such a prestigious professional organization such as TMS. To me, this reward represents the achievement of my goals when I first declared in materials science and engineering and will continue to inspire me in my future studies and profession. This scholarship will be of great assistance to me this upcoming year as it will allow me to focus more on my undergraduate studies."

**Da Mao, University of Michigan**



### 14. Structural Materials Division Scholarship

"It is an honor to receive the SMD scholar award from TMS. This award means very much to me and motivates me to strive to achieve great things in the materials science and engineering field. The scholarship will help me to offset the cost of my education and to pursue further studies. I am grateful to TMS for their dedication, support, and generosity to students."

**Jay Alexander, University of Arizona**



### 15. Structural Materials Division Scholarship

"I am extremely honored to receive this award. TMS recognizes many outstanding students, and I am thrilled to be included with them. Thank you for the continuing support of students like myself."

**Karen Lynch, Purdue University**

## DID YOU KNOW . . . ?

In 2007, TMS is celebrating 50 years as a member society of the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME). AIME, one of the first national engineering societies in the United States, was established in 1873, and TMS began as The Metallurgical Society of AIME in 1957. To celebrate this 50-year milestone, TMS has planned a number of activities, including the 50th Anniversary Materials Bowl and an essay contest award in conjunction with the 2007 Technical Division Student Poster Contest, both at the TMS 2007 Annual Meeting that begins February 25.