

# PROFESSIONAL PREFACE

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

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## 2012 UNDERGRADUATE STUDENT AWARD WINNERS

Each year, the TMS Foundation and TMS technical divisions fund scholarships and awards to help undergraduate students in materials science and engineering pursue their academic goals. The following undergraduate students are honored in 2012:



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

*"I am very grateful to accept the J. Keith Brimacombe Scholarship. Obviously, it makes a huge difference to me in helping to finance my education. Furthermore, my membership in TMS through Material Advantage does a lot to acquaint me with what is going on in the field of materials engineering and particularly my future specialty, metallurgy. I especially value the opportunity to attend the TMS Annual Meeting and learn from and network with cutting-edge materials scientists in Orlando. I truly appreciate this support and recognition of my hard work."*

**Rachel Garrick, University of Illinois**



### **TMS Best Paper Contest, Undergraduate Division, First Place**

*"I am in an early stage of my research career and plan to pursue a career in academia; thus, receiving the TMS Student Best Paper Award will help me present my research findings at TMS2012. This will give me an excellent opportunity to interact more with researchers in my field and to find a suitable Ph.D. position and is a prestigious recognition for my research endeavors and an invaluable motivation for further excellence. The Material Advantage membership affiliates me to three more associations, thus providing me an excellent platform, and exposure to current trends in ceramics and the iron and steel industry."*

**Sumit Goenka, Indian Institute of Technology Madras**



### **TMS Best Paper Contest, Undergraduate Division, Second Place**

*"Being a Material Advantage member has allowed me to further my education in material science. In entering this competition, my knowledge on soft matter materials was very limited so it was a great experience to learn more on the subject. I was curious to learn what materials, other than polymers, were considered soft matter and found an extensive list. Discovering that there were many other materials involved encouraged me to continue my interest in this particular field."*

**Tasha Totten, Washington State University**



### **Electronic, Magnetic & Photonic Materials Division Gilbert Chin Scholarship**

*"This award means a lot to me for a variety of reasons. Since my academic preparation is not directly related to this field, I am especially honored to receive this award. For this very reason, this award is an important step in my research and academic career for fulfilling my passion in*

*interdisciplinary work, which I believe is the immediate future of scientific progress. This is why I believe that my academic preparation in biological systems combined with my research and knowledge in material and nano sciences will help me to be a significant contributor to the answers of scientific problems that require knowledge in more than one subject. This scholarship will enable me to strengthen my material science techniques, as well as develop even more my knowledge in this recently learned field."*

**Melissa Cruz-Acuna, University of Puerto Rico**



### **Extraction & Processing Division Scholarship**

*"This scholarship is not only an aid for my pursuit of education; it is also an honor to receive. To be chosen for this scholarship gives recognition to my hard work, dedication, and sacrifices, as well as a level of pride in what I have done. None of this would be possible without the Material Advantage organization which also supports my education and goals by providing contacts and resources within my field. I am certainly grateful for this and hope that their support of students like me continues for years to come."*

**Ashley Carter, Montana Tech of the University of Montana**



### **Light Metals and Structural Materials Division Scholarships**

*"The Light Metals Division Scholarship Award holds significant meaning for me. I am honored and grateful for having been selected to receive this award. Not only does this scholarship help me to achieve my short-term academic goals by alleviating my financial burden, but it also contributes to meeting my long-term academic goals by placing me in a more favorable financial position to begin my graduate studies in the fall of 2012. This award motivates me to continue to strive for academic excellence."*

**Benjamin Revard, Washington State University**



### **Light Metals Division Scholarship**

*"My Material Advantage membership has provided me with a variety of opportunities, resources, and experiences I could not have otherwise had. The Light Metals Division Scholarship offers the monetary resources to complete my dual degree education, and it will allow me to focus on classes and extracurricular projects during the final year of my undergraduate career. While this award is significant, the scientific and*

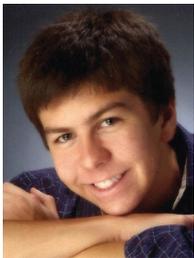
*engineering knowledge and networking available to students through professional societies remains an integral and invaluable resource of the Material Advantage membership that thoroughly substantiates classroom education."*

**Stosch Sabo, Winona State University**

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Applications for TMS 2013 scholarships are due March 15, 2012. For details, visit [www.tms.org/Students/Scholarships.aspx](http://www.tms.org/Students/Scholarships.aspx).

## 2012 UNDERGRADUATE STUDENT AWARD WINNERS (CONTINUED)



### Light Metals Division Scholarship

*"My Material Advantage membership has opened many opportunities. Starting my freshman year, I have learned about the direction of the materials industry and met many inspiring individuals directly involved with the future of our industry. Touring steel mills, foundries, and heat treatment facilities through Material Advantage contacts, I have focused my studies. Through my great membership and scholarship, I feel I have a 'kick start' on my last year of*

*undergrad and my future career."*

**Lance Taylor, Michigan Technological University**



### Materials Processing & Manufacturing and Structural Materials Division Scholarships

*"Being a part of Material Advantage has provided a lot of opportunities for me, within my college community. The Material Advantage club is helping middle school students with density kits, in which they learn the basics of density, which is required for their success. Making these density kits isn't hard, but the outreach the club has is very important to me. Being able to give*

*back to your community is one of my personal goals in life, and Material Advantage is helping me complete this goal. As a member I have*

*also been able to travel to several national conferences like TMS2010 and MS&T 2011 to increase my networking skills. I have also been able to present my research in poster competitions, and just being aware of cutting-edge technology is a privilege. The TMS Award will help me achieve my goal of graduating from Washington State University (WSU); I am a first generation student working for her Bachelors in Material Science & Engineering. This is not just a monetary award for me, this means I can return to WSU for another semester and keep advancing towards my goal. I have plans to keep going in my education after my Bachelors and one day obtain a Ph.D. This award and membership are active participants in my future and for that I am grateful."*

**Veronica Perez, Washington State University**



### Materials Processing & Manufacturing Division Scholarship

*"Material Advantage has given me the opportunity to observe the research and peer-reviewed system of materials science. My membership has allowed me to better understand the field of engineering that I plan to make my career, and is preparing me to take full advantage of all the research this community has to offer. This award and conference will further open my eyes to how this community interacts and how I can be a part*

*of it in the future."*

**Benjamin Jones, University of Maryland**

## 2012 GRADUATE STUDENT AWARD WINNERS

New for 2012 is the Henry Dewitt Smith Scholarship, the first TMS scholarship specifically for graduate students. Four graduate students received the inaugural awards, which are funded by the American Institute of Mining, Metallurgical, and Petroleum Engineers, of which TMS is a member society. In addition, two graduate students were selected to receive Best Paper awards in TMS's annual contest. The following graduate students are honored in 2012:



### TMS Best Paper Contest, Graduate Division, First Place

*"As a young scientist, it is a great opportunity to attend TMS international conferences with the privilege of Material Advantage membership. It is a good stage to show ourselves and to communicate and learn from the others."*

**Zhinan An, University of Tennessee**



### Henry deWitt Smith Scholarship

*"I would like to thank TMS and the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME) for awarding me the Henry DeWitt Smith Scholarship and for supporting my continuing education. Words cannot express my gratitude and honor for receiving this scholarship, and I will do my very best to make the scholarship committee proud as I strive to represent the ideals of Mr. Smith in my pursuit of a Ph.D. that will allow me to contribute to the*

*mining and materials industries."*

**Karem Tello, Colorado School of Mines**

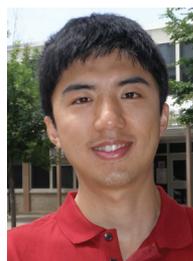


### TMS Best Paper Contest, Graduate Division, Second Place

*"It is a great honor to be awarded one of the TMS Student Best Paper Contest Awards (Graduate). This award will be a driving force for my future research. I am very much thankful to Material Advantage. I learned many important leadership skills as secretary (2008-09) and chair (2009-10) of the Material Advantage chapter at Florida International University. Finally, I could contest for this TMS award only because of*

*Material Advantage. My sincere thanks to everyone related to Material Advantage. The advantage is clear and obvious—there is no end to learning and speeding up your professional career in Material Advantage."*

**Indranil Lahiri, Florida International University**



### Henry deWitt Smith Scholarship

*"It is my great honor to receive this scholarship as a graduate student. I have always been trying my best to seize every opportunity in my life. This award is not only recognition of my achievement in materials science as a graduate student, but also reward for my positive attitude for life. Material Advantage offers me great opportunity to get involved in a wide range of activities and definitely helps me get ready for my career as a materials engineer. It is a privilege that all the*

*materials students should really make the best use of."*

**Mengtao Xie, Illinois Institute of Technology**



### Henry deWitt Smith Scholarship

*"The Henry DeWitt Smith Scholarship is recognition that I am well established in the field of metallurgy. In addition, the scholarship and the Material Advantage student program have been great networking tools. Both of these programs have opened doors and opportunities that would not have otherwise existed for me. I am thankful for what they have provided and am looking forward to sharing my experience with others."*

**Eric Gratz, Boston University**



### Henry deWitt Smith Scholarship

*"Receiving the Henry DeWitt Smith scholarship is a wonderful honor. I feel lucky to have been selected from all of my peers to be honored for my work in metallurgy. I have been a Material Advantage member since 2007 which has opened me to the supportive, innovative materials community. I greatly appreciate the friends and colleagues that I have had the pleasure of interacting with at both MS&T and TMS conferences. Participating in community discussion*

*keeps me excited for the advances yet to come in the materials community, and I look forward to staying involved for years beyond my formal education."*

**Jennifer Carter, Ohio State University**