



SME FOUNDATION & Mii NEWSLETTER

The SME Foundation Buckets



SMEF General Fund



SMEF Endowment Fund



ABET – Accreditation Board for Engineering & Technology



GEM – Government, Education, & Mining



Mii – Mineral Information Institute



MMSA – Past Presidential Scholarship Fund



Professional Registration Program – PE Exam



Rong Yu Wan Memorial Research Award



George V. Weisdack Memorial Scholarship

SME Foundation

Barbara J. Arnold
President of the SMEF

David L. Kanagy
Executive Director



April 2011

Letter from the President:

Dear SME Members and Friends:

Our SME Foundation is beginning a new chapter—one seeking to endow the programs entrusted to us by the Society For Mining, Metallurgy, and Exploration, Inc. While annual contributions help us to conduct programs like the Professional Engineering exam, ABET, GEM and Mii, endowments for each of these areas will ensure their continued operation and help expand our efforts. We'll be looking to our SME members and friends for support. Support, in my mind, is not just money—it will take time, talent, and (to complete the “T”) tith. We hope that you'll be a part of this effort.



Beyond seeking program support, we are expanding our efforts to seek endowed scholarships so that the next generation of mineral industry professionals will graduate with less debt. We hope to endow the current MMSA Presidential Scholarship Fund to generate a \$10,000 scholarship each year and become the most prestigious scholarship offered to SME student members.

Be looking for some unique ways to contribute to the SMEF. While we have encouraged book donations for our silent auction at the SME Annual Meetings, we have become overwhelmed with big, heavy boxes to transport to the meeting sites! We will begin to encourage donations of books for sale through a used book site. Some of the special titles will still be available for bid at the silent auction, but we believe we can become the repository for many unique and interesting mineral industry books.

It is important for each of us to contribute those 3T's (time, talent and tith) to our professional society. Annual individual gifts of \$1,000 or more are being recognized through a series of coasters with mineral specimens. Each \$1,000 donation gets the donor the next coaster. All donors should strive to meet the John T. Boyd challenge of \$10,000 in contributions, cumulative! Check out www.smenet.org/foundation for more information.

Your gift, no matter what size or what form, makes a difference—to you, your colleagues, the mineral industry, and future mineral industry professionals.

Sincerest regards,

Barbara J. Arnold, Ph.D., P.E.
President, SME Foundation Board of Trustees
President, PrepTech, Inc.

www.smenet.org/foundation



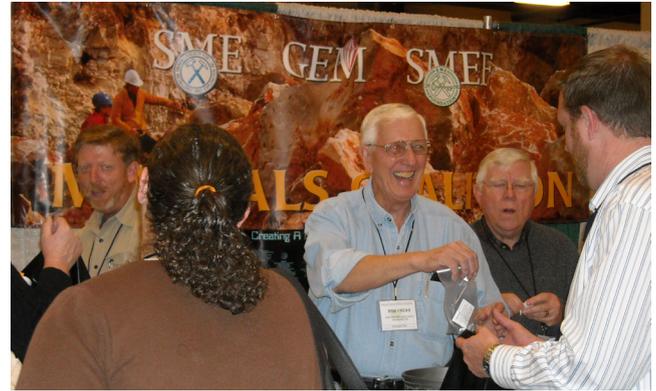
2011 NSTA Regional Conferences

By C. Dale Elifrits

Headquartered in Arlington, Virginia, the National Science Teachers Association (NSTA) is a member-driven organization, 60,000-strong. It publishes books and journals for science teachers from kindergarten through college. Each year NSTA holds four conferences on science education: three regional events in the fall and a national gathering in the spring. It provides ways for science teachers to connect with one another.

NSTA provides national and international leadership in science education by identifying the qualities and standards for good science education.

The SME/GEM Minerals Coalition participates in three NSTA regional conferences each year. In 2011, these conferences will be held in Hartford, Connecticut, October 27-29; New Orleans, Louisiana, November 10-12; and Seattle, Washington, December 8-10, 2011. These regional conferences typically draw some 2,500 teachers to each site. The SME/GEM booth is the most visited booth in the exhibit hall at these regional conferences! For example, at the Nashville regional conference, December 2-4, 2010, some 2,200 sets of materials were handed over the table to science teachers. Each exhibit relies on a local committee to plan and run the booth with support from the National SME/GEM Committee and SME Staff.



Ron Clendening, Robert Freas and Albert Horton in the GEM booth.



Dale Elifrits with an attendee at the NSTA Regional Conference.

Educating the public regarding the mineral wealth of our nation and world is a primary concern of the GEM committee and, by extension, SME. If we don't do it, who will? Most likely someone with misinformation and a negative attitude toward our industry will be happy to do that job for us. So, we ask you all to step up and help each other to educate the teachers and by extension the students of our nation.

Remember, each elementary level teacher works with nominally 30 students daily and each middle or high school level teacher meets with 120 or more students daily. Hence, the "multiplier effect" of this outreach to teachers is LARGE! Additionally, this past fall at the Nashville regional meeting we learned of a handful of school districts where the SME/GEM booth materials as provided by Mii and other industry supporters have been adopted by the districts' science curriculum leaders and have been used in district-wide professional development workshops – a much wider penetration into the P – 12 education community. As we strive for efficiency, this opportunity to interact with and educate teachers and thence the public is likely unequaled.

WE NEED YOU!!!

If you live in or near Hartford, Seattle, or New Orleans and would like to help support the GEM Committee's effort to provide teachers with classroom materials and educate them on the daily use of minerals in our society, please contact Mona Vandervoort at 303-948-4227 or email vandervoort@smenet.org.



Dr. H. Wayne Leimer (left) with students from the Department of Earth Sciences, Tennessee Tech University. Left to right: Joe Kalbarczyk, Jesse Hill, Taylor Vincent, Korey Harvey, Paul Woods, William Snow, John Corley and David Buhl.

What's in a Hybrid Car...?

Or in a wind turbine, or in a cell phone? Mii's newest product, our Mineral Fact Sheets, list the major minerals and metals used in wind turbines, cell phones, LED lights, CFL bulbs, solar panels, cell phones, and hybrid cars. The fact sheets were developed in cooperation with the U.S. Geological Survey, the Colorado School of Mines SME Student Section, and members of the Colorado SME/GEM Committee.

Did you know that a hybrid car uses twice as much copper as a non-hybrid? Rare earth oxides are also used in hybrid cars; lanthanum in batteries and neodymium in electric motors. Approximately 130 million cell phones are retired annually in the United States. In the production of solar panels, molybdenum is "sputtered" onto the photovoltaic cells as a base conductive layer for all the other layers. Sputtering is a process that uses ions of an inert gas to dislodge atoms from the surface of a crystalline material, the atoms then being



electrically deposited to form an extremely thin coating on a glass, metal, plastic, or other surface. The average citizen only sees the end product and has little or no information about the minerals and metals that must be mined and processed in order to manufacture them.

Mii's mission is to provide information and materials that result in an understanding that mineral and energy resources are essential to society and can be produced in an environmentally and socially responsible manner. These fact sheets can help you with your outreach program and are available for download from the Mii Website at <http://www.mii.org/fact-sheets>.

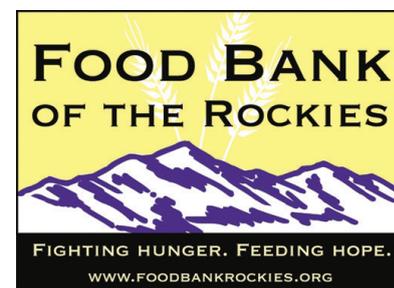
Miners Give Back

Sixty-one men and women from the mining industry gathered to help the Food Bank of the Rockies during the 2011 SME Annual Meeting and Exhibit. They represented all aspects of the industry and on that sunny Friday, they shared a common goal – to leave Colorado a little better for having been there.

Participants boarded a bus headed for the Food Bank of the Rockies (FBR) warehouse. FBR has extended its reach across Northern Colorado and Wyoming, providing food supplies to more than 1,100 hunger-relief programs. In its first 30 years, FBR has provided nearly 392 million pounds of food to its member agencies, which translates to more than 306 million meals for people in need. Last year, they distributed 35.7 million pounds of food, enough to provide 76,000 meals each day to children, seniors, and families in need. FBR is a member of Feeding America.

The volunteers packed meals for more than 4,000 people during their day at the food bank. At the end of the day, they headed back to their hotels to prepare for the SME Annual Meeting and Exhibit. Miners gave back, and Colorado was a little better off because they had been there.

Planning for next year's project has started; watch for details to come by summer!





Society for Mining, Metallurgy, and Exploration, Inc.

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SME Foundation/Mii Newsletter
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2011 Annual Meeting SME Foundation Highlights

The annual SME Foundation Dinner was held on Sunday, February 27, at the 2011 SME Annual Meeting and Exhibit in Denver, Colorado. Attendance surpassed last year's, with 202 registered to attend. Thank you to everyone who joined us for dinner.

One highlight of the dinner was our recognition of donors and scholarship recipients. The John T. Boyd Challenge recipients were David M. Boyd, Consol Energy, Bill A. Hancock, Rosebud Mine, Thomas O'Neil, Robert Schafer, Trapper Mining, and Denver Gold Group. The John T. Boyd challenge recognizes contributions to the Foundation of \$10,000 or greater.

This year we tried something new. Along with the live auction, we offered a "bucket" auction with 13 items. This auction generated over \$1,400 for the Foundation. The annual raffle was for a 55" television, generously donated by Bucyrus International. People were rushing around making sure they got their tickets purchased and into the drawing for this great prize. Thank you to Bucyrus International for donating the television. Paul Spedding of West Virginia was the lucky winner of the TV.

Our silent auction was a huge success, with lots of beautiful rock and mineral specimens, several pieces of precious gem jewelry, logoed-clothing, electronics, and more donated by individuals and corporations. Thanks to everyone who donated and participated in the bidding to make the silent auction so fun and profitable. And, a big "THANK YOU" to those who staffed the booth and sold raffle tickets. It doesn't happen without you!

Laird Horrigan received the 2010/2011 MMSA/SMEF Presidential Scholarship. Laird is a senior studying Mining and Minerals Engineering at Virginia Tech.

The SME Foundation, in conjunction with the Pittsburgh section, administered a new scholarship: the George V. Weisdack Memorial Scholarship Fund. George passed away on February 23, 2010 -- just days before last year's annual meeting. He was an esteemed SME member and well-known for his generosity and active participation in local section affairs. The first George V. Weisdack Memorial Scholarship went to Michael Keener. Mike is a junior at the University of Pittsburgh, majoring in Civil Engineering and pursuing an Undergraduate Mining Engineering Certificate.

Keith Heasley (West Virginia University) received the Syd S. Peng Ground Control in Mining Award. Drew Mason from Penn State and Jonathan Reisterer from Southern Illinois University Carbondale received the Syd S. Peng Ground Control in Mining Scholarship.

The Mii Outstanding Achievement Award went to the Mining & Metallurgical Society of America (MMSA) for its outstanding contributions and continued support of the Mii programs.

2010 was a record setting year for the SME Foundation. We surpassed \$500,000 in contributions, up from \$350,000 the year before. Many thanks to everyone who participated in this year's Foundation efforts and for all the contributions and volunteer hours that helped us reach the threshold of half a million dollars in support of the Foundation.

We look forward to seeing everyone again at the 2012 Annual Meeting in Seattle, Washington, where we hope you will once again support the Foundation's fundraising efforts.



Raffle Winner Paul Spedding and SME President John Murphy