



SME FOUNDATION



CREATING GLOBAL PROSPERITY *The Campaign for Mining*

More than a fund raising campaign, *Creating Global Prosperity: The Campaign For Mining* is an investment in creating a stronger industry around the world, developing tomorrow's professionals and leaders, and strengthening relationships with our communities. The Campaign provides an opportunity for companies and professionals who have made their careers in mining to give back to their profession and support the next generation of leaders who will define our industry's future.

With your support, the Foundation is creating new programs such as the Career Transition Grant, which will assist private sector employees to fulfill their dreams of educating at the university level and shaping the future. Additional programs include expanding our Minerals Education Coalition, supporting the PE exam and the ABET program.

The goals of the Campaign are large and ambitious. We have partnered with corporations within the minerals and mining industry that find value in these important objectives. We ask that you, too, help support the Campaign and contribute today. It will take all of us to make our *Campaign for Mining* a success.

Please visit us online at <http://community.smenet.org/SMEFoundation> to donate now.

Letter from the President

I'm issuing a call to action! Please keep up with the Campaign and the Foundation via the website as well as our articles in *Mining Engineering* magazine. We are



receiving support from more individuals and corporate partners every day. This Campaign is vitally important to the future success of our industry as well as the Foundation and its programs. Our goal is \$2 million per year in order to support the existing programs as well as create new initiatives to better support you, our members.

Are you involved yet?



Additionally, we are working on planning the Gala dinner for next year's Annual Meeting in Salt Lake City, UT.

Stay tuned for more details on this exciting event!

To donate to the Foundation visit us online at www.smenet.org/foundation/foundationcontributions



After almost a decade of advocacy, Boy Scouts of America (BSA) has designated SME to be the lead organization for the development of a new Mining in Society Merit Badge. This unprecedented opportunity gives us the responsibility of ensuring a factual and comprehensive program of instruction to motivate Scouts to fulfill all of the requirements necessary to earn a merit badge based on mining's key components of exploration, permitting, extraction, processing, production, safety and reclamation.

Visit us online for more information or to donate to the Boy Scouts [program](#).

Our commitment is to meet the rigorous requirements of the BSA and to give Scouts the kind of life-changing experiences that will remain with them throughout their lifetime. The launch of the Mining in Society Merit Badge will take place in February 2014 at the SME Annual Meeting in Salt Lake City, UT.

In this issue:

Letter from the President	1
K-12 Curriculum Projects	2
Why choose to be a PE?	3

MEC's K-12 Curriculum Projects

SMART Board Lessons

Three new lessons using SMART technologies have been developed on copper, lead and halite. The materials have been reviewed by teachers and industry experts for instructional content and accuracy and are now available for download on MEC's website.

Activity Pages

Inquiry-based review and response pages have been developed and posted on MEC's website. Motivational items for middle school students (i.e., cell phones, televisions and soccer equipment) are used to teach about the minerals required to produce each item.

Updates to Current Content

The 2013 "Minerals Baby" and "Annual Usage" fact sheets have been posted on the MEC website. Other pages have also been updated and/or reformatted to now reflect the MEC lessons and activities grouped by grade spans K-2, 3-5, 6-8 and 9-12.

Example of the Halite SMART Board Lesson.

Upcoming Events:

Gem & Mineral Show:

Sept. 13-15 Denver, CO

SME Board of Directors & SMEF Board of Trustees:

Sept. 5-7 San Diego, CA

NSTA Area Conference:

Oct. 24-26 Portland, OR

ABET Summit:

Oct. 25 Baltimore, MD

Geological Society of America:

Oct. 27-30 Denver, CO

NSTA Area Conference:

Nov. 7-9 Charlotte, NC

Skaggs Named to ABET Board

Mr. Gary Skaggs has accepted the appointment to be the SME representative to the ABET Board of Directors beginning at its fall meeting scheduled for Friday, Oct. 25, 2013 at the Hilton BWI in Baltimore, MD. He will take over the position previously held by Arden Davis. Arden Davis will conclude his six years of service at the close of the ABET fall board of directors meeting as the SME representative to the ABET Board of Directors. The SME ABET representative can serve

up to two three-year appointments to the ABET BOD with SME Board of Directors approval each year.

Mr. Skaggs has more than 40 years of mining experience in underground domestic and international mining. His experience includes trona, limestone and conventional, continuous miner and longwall operations in coal. Mr. Skaggs has been a long-time member of SME and served in numerous positions on the Board of

Directors as well as several committees.



Gary Skaggs, SME Representative to the ABET Board of Directors

Copper in our Electrical World Video

The Minerals Education Coalition has partnered with the Edison Tech Center to produce a video about the critical need for copper in our electrical world. In the past four months, the video has been viewed more than 1,500 times. The video covers aspects of locating, extracting, processing, transporting and using

copper in manufacturing products related to electricity. The target audience for the video is high school students and the general public. Data collected from teachers related to their viewing of the video confirms the value of the information and presentation style. Our plan for the future is to produce

additional videos featuring other "Minerals in Our Electrical World."



View our new video *Copper in our Electrical World* at www.mineraleducationcoalition.org

MEC at 2012 National Science Teacher Association Area Conferences

Each year, the Minerals Education Coalition (MEC) participates at three National Science Teachers Association (NSTA) Area Conferences to provide K-12 teachers, science coordinators, school administrators and informal science educators with credible and comprehensive materials about minerals and

why mining is important to our lives and lifestyle.

The Area Conferences' dates, locations, chair/co-chairs and attendees who visited the MEC exhibit and received free rock kits and posters were:

- October 18-20, 2012 - Louisville, KY – Dale Elifrits.
- November 1-3, 2012 - Atlanta, GA – Mike Garska, Bob J. Pruett, Tom Hilderbrand, Pat Macy.
- December 6-8, 2012 - Phoenix, AZ – Dave Scriven, Pam Wilkinson.

2012 National Science Teachers Association Area Conferences								
Location	# Attended	# MEC Reached	# Rock Sample Kits Distributed	# States MEC Reached	% Elementary School Teachers	% Middle School Teachers	% High School Teachers	% Other Educators
Louisville, KY	1,500	465+	486	26+DC+PR	8%	52%	40%	n/a
Atlanta, GA	3,000	1,047+	1,116	27	56%	25%	17%	2%
Phoenix, AZ	2,300	466+	300	39	22%	49%	27%	2%
Three Conferences' Averages					29%	42%	28%	2%

Why Choose to be a PE?

For an engineer, obtaining his or her Professional Engineer's license (PE) is a milestone in his or her professional career. As a PE, an engineer is able to stamp and seal plans, bid for government contracts, become a consultant as well as serve the needs of the public. Members of SME's PE Committee have the responsibility of writing the questions for the PE exam for Mining/Mineral Processing Engineers used for licensure in all 50 states.

Recent activities include conducting the annual workshop held at SME offices in Denver, CO. Thirty-five committee

members attended to discuss business as well as pre-test the PE exam to be given in October 2013. Pre-testing is one of the many formal and systematic steps applied to the potential exam questions to ensure the excellent reputation that the Mining/Mineral Processing Exam is noted for continues.

As of early July, 12 members of the PE Committee have accepted an invitation to meet with the NCEES Board at Clemson University. During this face-to-face meeting, the discussion will focus on transitioning the PE exam to an

electronic method. This will include delivery of study and reference materials as well as the exam. Other recent activities include the writing and reviewing of 22 potential problems, monthly meetings with the Licensing that Works organization and analysis of the NCEES audit that was applied to the October 2012 exam.

The SME PE Committee would like to thank Alpha Natural Resources Corporation for donating \$25,000 to the PE Committee this year.

“Our mission is to support scientific, technical, education and other activities that foster interchange and understanding concerning the responsible development of the world’s mineral resources, and further the professional disciplines serving the minerals industry”

For additional information regarding the Foundation, please contact:
AnnMarie Estrada
Foundation Manager
303-948-4239 or Estrada@smenet.org

Recent Happenings:



Preparing for the “Mining in Society” Merit Badge.



Rachel Grimes, MEC Outreach Coordinator, at the “STEM Rocks” event showing a child how to use the conductivity test on common minerals.



The Foundation of the Society for Mining, Metallurgy & Exploration

12999 E. Adam Aircraft Circle
Englewood, CO 80112

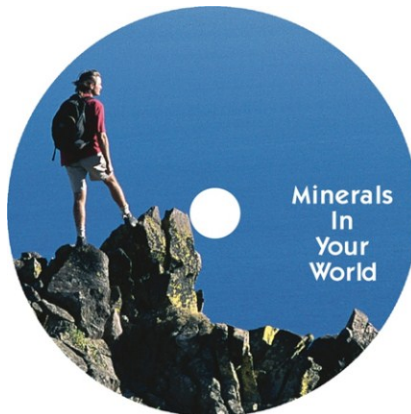
Phone: 303-948-4200
Fax: 303-973-3845
E-mail: estrada@smenet.org

In this issue:

Letter from the President	1
K-12 Curriculum Projects	2
Why choose to be a PE?	3

MEC Online Store

MEC offers low-cost materials to supplement classroom instruction and for public awareness and community outreach on its website's online store.



SHOP AT THE MEC STORE

<http://www.mineraleducationcoalition.org/>