

SME



2012
ANNUAL REPORT

2012 SME ANNUAL REPORT

Contents

2	Report from the SME President	22	Environmental Division
3	Report from the SME Executive Director	23	Industrial Minerals & Aggregates Division
4	SME Board of Directors	24	International Marine Minerals Society of SME
5	Strategic Committees	25	Mineral & Metallurgical Processing Division
6	Government & Public Affairs	26	Mining and Exploration Division
7	Membership	27	Underground Construction Association of SME
9	Local Sections	28	WAAIME
11	Student Chapters	29	Report from the SME Foundation President
12	25-Year Members	30	SME Foundation
13	eLearning	32	Minerals Education Coalition
13	50-Year Members	34	Professional Engineers Exam
14	Meetings	35	ABET
17	Publications	36	Financials
19	SME Books	38	SME/AIME Awards
20	Web/Social Media	40	SME Scholarships
21	Coal and Energy Division		



SME Strategic Goals



SME's Core Purpose

To be THE resource and advocate for the mining community



SME's Core Values

We believe in:

- **Members first**
- **Ethical behavior**
- **Partnering and networking**
- **Professional excellence**
- **Customer satisfaction**
- **Knowledge sharing**
- **Innovation**
- **Educational support**
- **Inclusiveness**
- **Accountability**



SME's B.A.G.

SME will be recognized internationally as the leading professional mining organization.

Goal A

SME will be its members' indispensable resource for professional services.

Goal B

SME will be the primary resource of mining and underground construction information for all stakeholders.

Goal C

SME will maintain a financially secure and stable organization in order to execute its strategic plan.

Goal D

SME will establish strategic partnerships / relationships, alliances and coalitions.

Goal E

SME will review and reshape its infrastructure to better align with and support its strategic plan.



Drew A. Meyer
2012 SME President

Last year marked the first time an SME annual report was prepared to cover the many activities of the Society. This report allows members and others in the mining community to gain a quick overview of the activities and accomplishments of the Society over the past year.

One of the most exciting accomplishments of the year was the fruition of a years-long “quest” by a large number of volunteers and staff to create a mining merit badge for the Boy Scouts of America (BSA). I’m proud to report that BSA has designated SME to be the lead organization for the development of a mining-related 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, excavation, processing, production and reclamation. Our commitment is to meet the rigorous requirements of the BSA and to give each scout the kind of life-changing experiences that will remain with them and throughout their lifetime.

Also of great importance was the release of the “Report on Workforce Trends” in the mining industry to the National Academy of Science. Prepared by SME, the report highlighted the changing demographics and expected skill sets required for the mining industry through 2029.

Another initiative, begun only a few years ago, continues to grow in importance. The Government and Public Affairs Committee (GPAC) has now produced nine technical briefing papers, including “Coal’s Importance in the U.S. and Global Energy Supply,” and “Improved Regulatory Coordination to Ensure Responsible Mining & Environmental Protection,” which directly and indirectly address issues affecting the permitting, production and use of coal in the United States. The SME website now includes a comprehensive list of bills and activities affecting the mining community. The committee also hosted visits from congressmen from Colorado and Nevada in 2012.

GPAC also filed a Rulemaking Petition with the U.S. Securities and Exchange Commission (SEC), formally asking the SEC to review and update Industry Guide 7.

The Minerals Education Coalition (MEC) has successfully merged the Mineral Information Institute (Mii) and SME’s GEM functions, allowing the expansion of the activities formerly accomplished by both. Additional staff has been added to produce new educational products and update many of the existing products.

Our international activities continued throughout the year. In addition to attending meetings in Canada, Thailand and Croatia, SME hosted a meeting of The Underwater Mining Institute (UMI) in Shanghai, China for the International Marine Minerals Society of SME. Of six new student chapters added in 2012, three were international. The international chapters were from the Universidad Autonoma de Chihuahua, Universidad Nacional de Moquegua, and the Major National University of San Marcos. U.S. chapters are at the University of Minnesota-Twin Cities, University of Minnesota-Duluth and Kent State University.

We also continued our meetings with the leadership of mining societies from Canada, Australia and South Africa. We hosted a meeting with the leadership of each society at MINExpo in Las Vegas, exploring a number of issues of common interest. The next meeting will be held in 2013 in Canada.

As you read through this report, I’m sure you will be pleased with the many programs and initiatives, old and new, that endeavor to address the dynamic mining community that exists throughout the world today. I am truly grateful to have been given this opportunity to work with the staff and hundreds of volunteers who fulfill SME’s core purpose: To be THE resource and advocate for the mining community.

My heartfelt thanks go out to all of them.

With a very deep and strong “bench,” led by incoming 2013 President Jessica Elzea Kogel, we can all be assured that our Society will continue to meet the challenges that await the mining community in the coming year.

Another year has passed — they seem to pass more quickly each year — but SME and the associated entities in the organization have all had another great year. This second annual report will outline the details in all of the society's successes, but the key strategic initiatives the SME board has focused on in recent years have resulted in positive outcomes for the Society. Here are some key highlights:

- The SME membership grew by 4.2 percent in 2012 to a total of 14,686 members. Those members reside in 102 countries around the world, a continued indication that the mining field is truly a global business.
- SME continued to operate in a financially stable manner during the 2012 fiscal year. This completed SME's eighth consecutive year of operational surpluses. Overall, SME's operating surplus totaled nearly \$660,000, with an overall surplus topping \$2.66 million.
- Meetings and exhibits continued to contribute widely to services for SME members. Several new meetings were added this year, including a second year of our Safety and Reliability program with the Canadian Institute of Mining, Metallurgy and Petroleum. This coming year will include programming on environmental considerations for mining, along with a symposium on mining finance. Along with all of our annual events, attendance and support continues to be very strong.
- The launch of the new *Mining Engineering* magazine website in early 2012 enhanced one of our most important strategic products (See page 17). With the online product, we are able to immediately post industry news and updates along with providing members current commodity prices.
- Book publishing also realized a record year, with nearly \$1 million in books sold. Although we are bucking a trend in print publishing, more and more books are sold by SME each year. This includes ever-improving e-book sales

that doubled from 2011 to 2012.

Where do we put our resources next? SME has many options to consider. We've introduced a congressional fellowship that the SME board authorized at its September midyear meeting. We must improve our social media outreach and continue to invest in our electronic programs that benefit all members. SME completed a website utilization study in the latter part of 2012. The results indicated that we have plenty to do with connectivity, content development and navigational tools for the website.

SME also worked this year with the National Mining Association, the National Stone, Sand and Gravel Association and the Industrial Minerals Association-North America to complete a workforce study that was submitted to the National Academy of Science. This was one of the most detailed analyses that I've ever read concerning the workforce issue the mining industry is confronting. This report outlined the expected workforce changes during the next 17 years.

Finally, the SME Foundation has launched its new fundraising program, *Creating Global Prosperity: The Campaign for Mining*. This program has been developed by our Foundation trustees, the Campaign Steering Committee and the Foundation staff to improve the support to existing Foundation programs. More details will be announced at the 2013 Annual Meeting.

What contributes to all of SME's success? A dedicated and committed staff working with the SME members to bring about necessary change and improvements. Without the efforts of members and staff, SME could not provide all of the services and benefits that help all members. The next year, 2013, I'm sure will bring about many opportunities for SME and, ultimately, a rewarding future. Please enjoy this annual report.



David L. Kanagy, CAE
SME Executive Director

2012 SME Board of Directors



Drew A. Meyer

2012 SME President
Drew Meyer
Consulting Inc.



Jessica Elzea Kogel

President-Elect
Imerys Pigments &
Additives Group



John N. Murphy

Past President
McGowan Institute
University of Pittsburgh



David L. Kanagy

*Secretary
and Treasurer*
SME



Barbara J. Arnold

Director
Prep Tech Inc.



Thomas F. Peyton

Director
Parsons Brinckerhoff



Joseph M. Driscoll

Director
Great Basin Gold



Jonathan G. Price

*Nevada State
Geologist Emeritus*



Marc A. Herpfer

Director
Oil Dri Corporation



Hugh B. Miller

Director
Colorado School of
Mines



John O. Marsden

2014 SME President
John O. Marsden
LLC



Steven C. Holmes

Incoming Director
KGHM International
Ltd.



Mary B. Korpi

Incoming Director
Newmont Mining
Corp.

Strategic Committees

Outreach Strategic

Thomas F. Peyton

Chair, Parsons Brinckerhoff

Shaun P. Graber

Member, Stantec Mining

Mary B. Korpi

Member, Newmont Mining Corp

Jürgen F. Brune

Member, Colorado School of Mines

Peter Dolph

Member, Schlumberger Water Services

John E. English

Member, Vulcan Materials Co

Donald C. Dwyer

Member, Barrick Goldstrike Mines Inc

Finance Strategic

James J. Komadina

Chair, Retired

Hugh B. Miller

Member, Colorado School of Mines

Ross R. Bhappu

Member, RCF Management LLC

J. Steven Gardner

Member, ECSI LLC

William W. Edgerton

Member, Jacobs Associates

Lok Home

Member, The Robbins Company

James D. Humphrey

Member, Caterpillar Inc

Education and Professional Development

Jonathan G. Price

Chair, Nevada Bureau of Mines

Dan Alexander

Member, NIOSH

Michael G. Nelson

Member, University of Utah

John L. Uhrie

Member, Newmont Mining Corp

S. Komar Kawatra

Member, Michigan Technological University

Gary L. Skaggs

Member, Agapito Associates Inc

William R. Wilson

Member, Arnevet Resources Inc

Nominating Strategic

Drew A. Meyer

SME President

Jessica Elzea Kogel

President-Elect, Imerys Pigments and Additives Group

Barbara J. Arnold

Director, PrepTech Inc

Thomas F. Peyton

Director, Parsons Brinckerhoff

Michael T. Myers

Member, Baldor Electric Co

Michael D. Sheahan

Member, Front Range Aggregates

Ronald L. Parratt

Member, Renaissance Exploration Inc

Mary M. Poulton

Member, University of Arizona

Products and Services

Rick Honaker

Chair, University of Kentucky

Joseph M. Driscoll

Director, Great Basin Gold Ltd

Gary M. Buchan

Member, Alpha Natural Resources Inc

Charles L. Beasley

Member, Perry Supply Inc

Amy E. Jacobsen

Member, Behre Dolbear Management Consulting Inc

Joseph E. Carnahan

Member, Luck Stone Corp

Murali M. Gadde

Member, Peabody Energy

Structure and Governance

Marc A. Herpfer

Chair Director, Oil Dri Corp of America

Daniel T. Eyde

Member, St Cloud Mining Co

Charles A. Kliche

Member, South Dakota School of Mines and Technology

Madan M. Singh

Member, Singh Associates LLC

Michael A. Trevits

Member, NIOSH

David R. Klug

Member, David R. Klug & Associates Inc

Jamal Rostami

Member, Pennsylvania State University

SME's Government and Public Affairs Committee (GPAC) has continued to work diligently to raise the political profile of SME as a fact-based, nonpartisan, technical mining resource to regulatory agencies, members of Congress and their staffs by participating in professional society meetings and congressional briefings in Washington, D.C.; submitting regulatory comments to federal agencies on proposed rules affecting the mining industry; submitting correspondence to Congress in support of, and in opposition to, specific legislation (within the limits of SME's 501 (c)(3) status); meeting with, and becoming a resource for, the staffs of the House Natural Resources Committee and Senate Energy and Natural Resource Committee.

In March, SME board member Jon Price gave testimony on behalf of SME at an oversight hearing of the House Subcommittee on Energy and Mineral Resources on "The Effect of the President's FY 2013 Budget for the U.S. Geological Survey on Private Sector Job Creation, Hazard Protection, Mineral Resources and Deficit Reduction."

Technical Briefings

GPAC issued the following three technical briefing papers in 2012, bringing the total number published to nine:

- Meeting the U.S. Metals and Minerals Needs for Energy Production.
- Mining and the Use, Quality and Availability of Water.
- Coal's Importance to the U.S. and Global Energy Supply.

In June, SME hosted a congressional briefing at its headquarters' office in Englewood, CO by Rep. Mike Coffman (R-CO), a member of the House Natural Resources Committee, whose district

includes the SME office. Coffman addressed representatives of Denver-based mining companies and talked about the outlook for rare earths and critical and strategic minerals legislation in this Congress.

SME GPAC staff attended the National Convention of State Legislators in Chicago, IL in August, shared information on SME's government affairs programs and distributed the eight technical briefing papers available at that time.

In September, SME hosted a luncheon in Las Vegas, NV during the SME midyear meeting for Rep. Mark Amodei (R-NV), a member of the House Subcommittee on Energy and Minerals, who sponsored legislation on critical and strategic minerals that passed the House. Amodei spoke to the SME Board of Directors and members of the SME GPAC. Kathy Benedetto, senior staff of the House Natural Resources Committee, also addressed the GPAC separately during its meeting in Las Vegas.

Also in September, the SME Board approved a recommendation by the GPAC to fund a Congressional Fellowship for a qualified candidate in 2013-2014 to be located in the legislative branch in Washington, D.C. beginning in Sept 2013.

On Oct. 1, SME filed a Petition for Rulemaking with the U.S. Securities and Exchange Commission (SEC) to amend Industry Guide 7, which contains the SEC's basic disclosure policy for mining companies. SME and the mining industry have been working diligently with the SEC for more than eight years to try to clarify and update Guide 7, to no avail. It is vital for the SEC to move forward in the near-term to realign the U.S. reporting regime for mining companies, both for the protection of investors and removal of competitive harm to U.S. mining companies. The SEC's Guide 7 has become increasingly outdated and out-of-sync with mineral reporting and disclosure standards used in the rest of the world, and U.S. mining companies and their investors have suffered as a result.

Membership

SME has had consistent growth in membership in each of the past six years — a positive trend that is expected to continue in 2013. In 2012, SME saw a 4.2-percent growth in membership. As of December 31, 2012, membership totaled 14,686.

The Society realized significant increases coming from the Registered Membership category in 2012, with a 21-percent increase — outgaining all other membership categories by a factor of five.

SME student memberships grew by 6 percent to a total of 1,581 student members, with 28 student chapters in the United States, Canada, Mexico, Peru, The Netherlands and India.

SME's Environmental Division grew by 8.5 percent in 2012, the highest percentage growth in membership among all eight SME divisions.

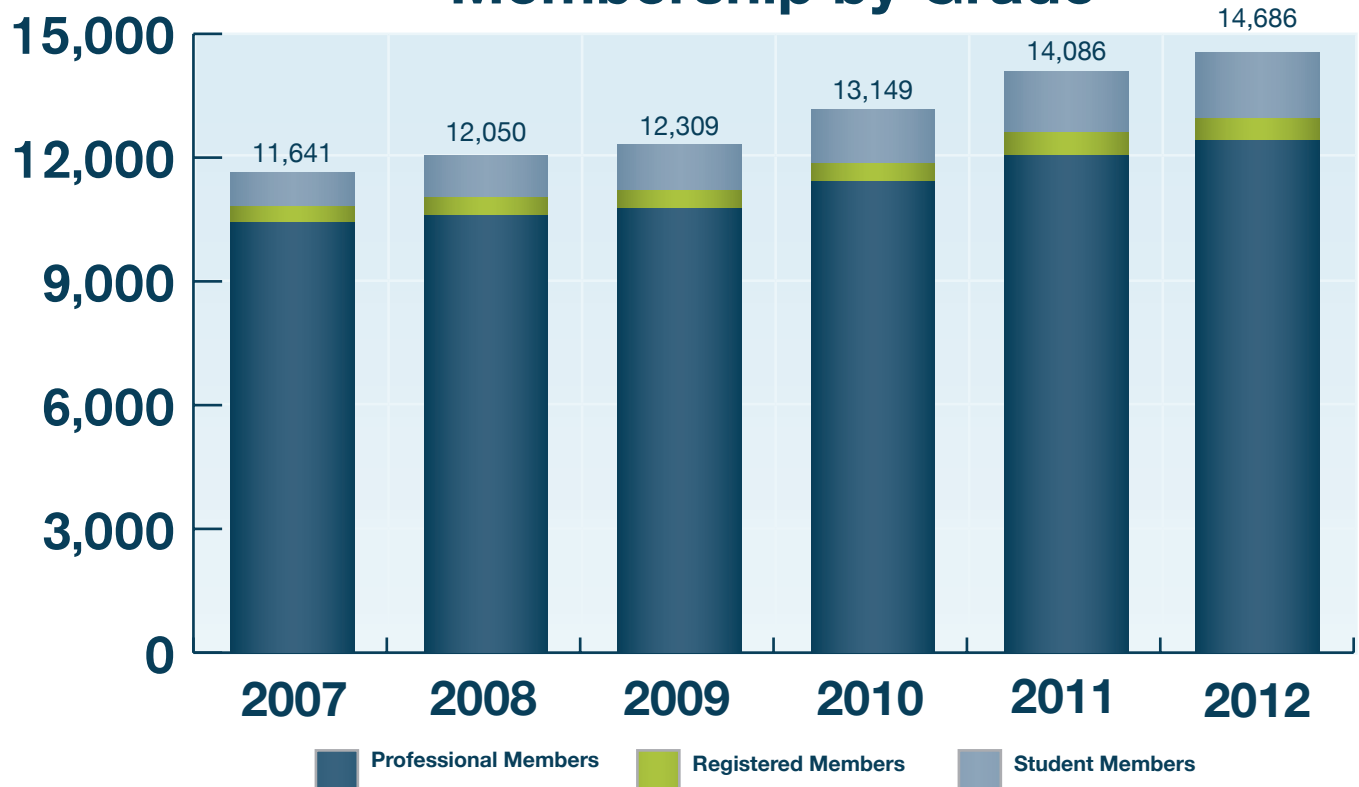
International membership grew by 1.2 percent in 2012, reaching 2,765 members from 102 countries.

SME exhibited at several events during 2012 to promote its signature products and services including SME memberships, SME-sponsored conferences and short courses, the SME bookstore, *Mining Engineering* magazine and the OneMine.org digital library.

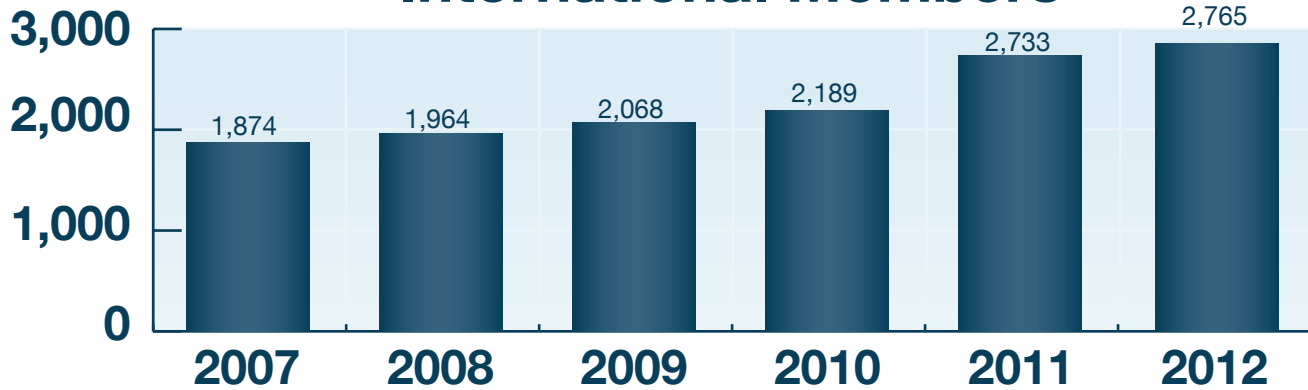
In 2012, SME recruited more than 600 new members at a host of conferences. The SME Annual Meeting and Exhibit in Seattle, WA alone brought in 200 new members in 2012.

To maximize recruitment of new members at conferences, SME reaches out to nonmember conference attendees both prior to and after each conference to maximize exposure during the event. Marketing methods include sending personalized emails, postcards, gift certificates and brochures containing a special offer for discounts on membership or a free book for becoming an SME member at a particular conference.

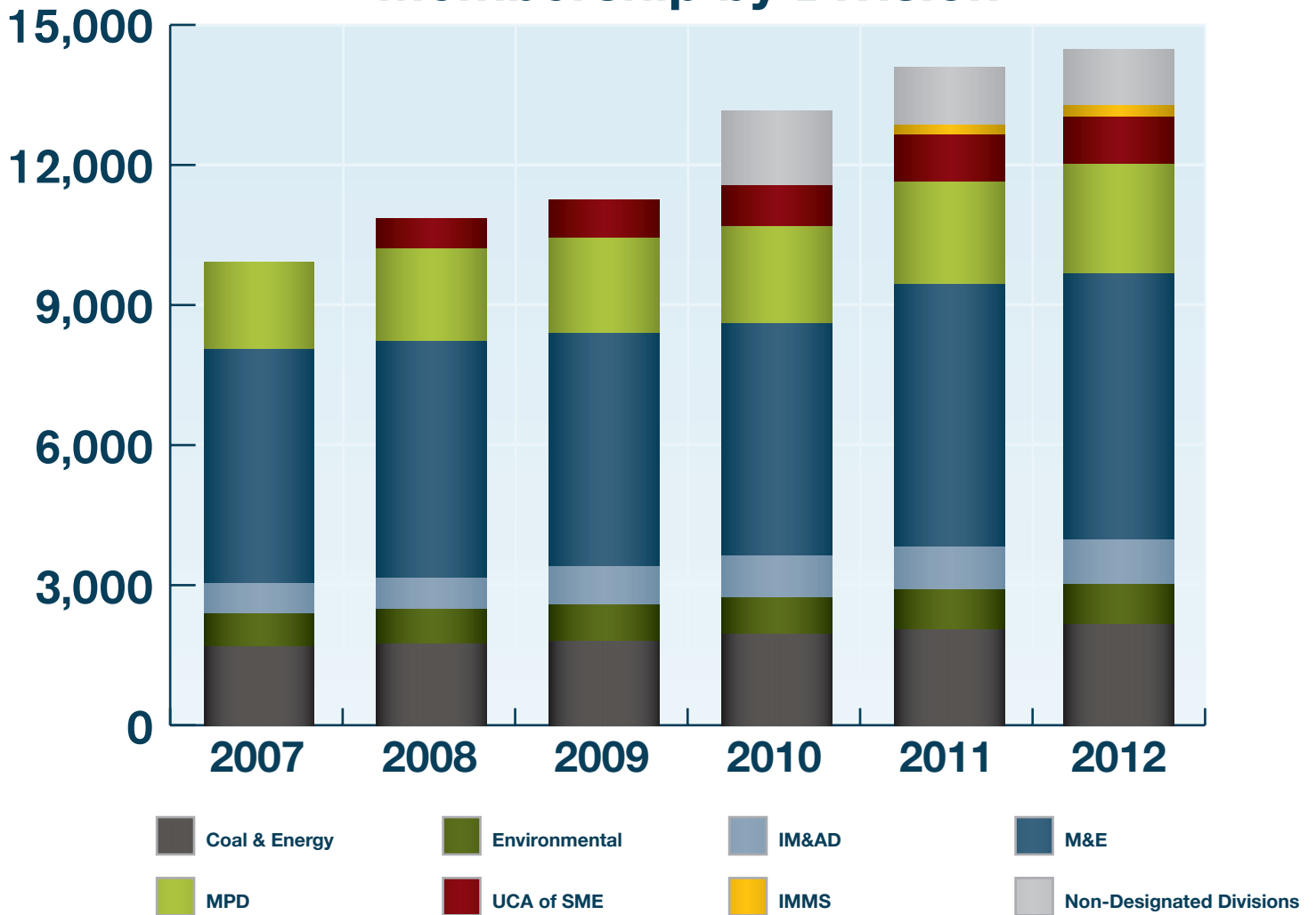
Membership by Grade



International Members



Membership by Division



Based on the feedback received from section leaders, the Local Section Representatives Meeting was revamped in 2012. The new and improved Local Section Representatives meeting included a luncheon. The program consisted of a presentation on the SME Community's microsites and event registration modules, as well as "best practices" offered by a few local sections and presentations from past recipients of Local Section grants. Overall, the new format was well-received by those in attendance (46 section leaders representing 22 local sections).

Section revitalization

In 2012, SME started working toward revitalization of the South Texas Minerals section. Peter Luthiger is the new chair of the section. Luthiger submitted the section's financial reports for 2010, 2011 and 2012. He is working on recruiting additional volunteers to serve as section officers. The South Texas Minerals section will be the host section for the 2014 Uranium Conference (U2014).

Henry Krumb Lecture Series

The 2012 Program Committee selected, and the SME board approved, nine Henry Krumb Lecturers again this year. This is an increase in the number of available lecturers from five to nine. The hope is that, in doing so, more local sections would have an opportunity to host the lecturer of their choice. To date, seven local sections have requested a lecturer for one of their section meetings. The lecturers and their topics are:

- Dr. Dragan Bogunovic: Integrated Production Management System — Step Further.
- Robert Dunne: Water Water Everywhere and Not a Drop to Drink, Nor Do I Know Its Whereabouts.
- Dr. R. Larry Grayson: Analysis of Small-Mine Compliance Feasibility With

Proposed US New Respirable Dust Standards and Implications for Better Dust Control Methods.

- Dr. Vishal Gupta: Electrokinetic Feature of Kaolinite and Other Selected Two-Layer Silicate Materials.
- James Gusek: A New, Innovative Method for Mitigating Impacts from Acid-Producing Rock.
- Dr. Rick Honaker: Upgrading Powder River Basin Coal Using Dry, Density-Based Separator Technologies.
- Dr. Yi Luo: Locating and Determining the Status of a Thermal Event in Longwall Panel Using Mine Atmosphere Monitoring Data.
- Dr. Hamid Maleki: The Importance of Geologic and Geotechnical Monitoring for Improving Stability in Deep Two-Seam Longwall Layouts.
- Dr. Lucas Moore: Methods for Removing Arsenic from Process Water.

Local Section Grants

In the fourth year of the Local Section Grant program, SME awarded \$17,600 in grants to the following local sections:

Colorado Section – awarded a grant of \$3,500 to support the following projects:

- "All About Mining" course – The Colorado Section was awarded \$1,500 to sponsor scholarships for three local teachers to attend the "All About Mining" course through the Colorado Mining Association. The "All About Mining" course educates K-12 teachers about mining, metallurgy and exploration and shows them that minerals and metals are essential in their daily lives. The course provides the teachers with information from industry experts, materials and an interest in minerals that they can use to teach their students.

Membership Local Sections

- NSTA Conference –The National Science Teachers Association regional conference will be held in Denver in 2013. The Colorado Section’s MEC Committee will host a booth at the NSTA conference and will hand out mineral kits and DVDs that contain information about the minerals business in the form of presentations, classroom activities and educational games. The Colorado Section was awarded \$2,000 to assist with the costs incurred in creating the mineral kits and DVDs to be distributed at the conference.

Minnesota Section – awarded a grant of \$12,500 to support the following projects.

- Minnesota Minerals Education Workshop – The Minnesota Section was awarded \$5,000 to assist in funding the Minnesota Minerals Education Workshop. The goal of the workshop is to raise awareness of the positive role that mineral resources play in Minnesota. The workshop consists of a day-long series of classroom sessions, followed by field trips and tours of mining operations. With previous assistance from the Local Section Grant Program, successful workshops were held in June 2011 and June 2012.
- Engineering, Cool! – The Minnesota Section was awarded \$2,500 to assist with funding the Engineering, Cool! program. Engineering, Cool!

is an afterschool program for sixth grade students in Hibbing, MN. The purpose is to teach science, technology, engineering and math (STEM) in a hands-on way through real life experiments. Engineering, Cool! is designed to be an introductory program to encourage students to pursue advanced math and science courses in high school. The engineers also have a chance to educate the students on the various career paths available in science/ engineering-based education.

- Iron Ore Symposium – The Minnesota Section was awarded \$5,000 to assist with the 2013 Iron Ore Symposium that is being hosted by the section. The 2013 North American Iron Ore Symposium will bring together a broad range of iron ore industry professionals from across North America and the world, to establish a shared and current view of the state of the industry, and to encourage new business opportunities and relationships.

St. Louis Section – awarded a grant of \$1,600 to assist in providing outreach materials to local schools and Boy Scout/ Girl Scout troops. Members of the section will work with local schools and troops to facilitate educational sessions in classrooms, assemblies or troop meetings. The sessions will focus on the role of mining and minerals in our society in a positive light. Some of the mineral kits and other planned outreach materials will be purchased from MEC.

Student chapters play an important role in the professional development of a young minerals engineer. Ideally, student chapters provide a professional forum, sponsor activities and programming, and provide opportunities for members to gather and interact. Each year since 1967, SME has recognized an outstanding student chapter. This award is one of the high distinctions a chapter can earn, as it is evidence that a chapter has conducted its business in a professional manner. Since 1979, the award has been based upon a review of annual reports submitted by the student chapters. The winning SME student chapter receives a prize of \$500, a certificate of recognition and two tickets to the awards banquet at the SME Annual Meeting. The chapter receives a travel allowance up to \$500 to send a representative to the SME Annual Meeting.

In 2012, six new student chapters were added. The international chapters were from the Universidad Autonoma de Chihuahua, Universidad Nacional de Moquegua and the Major National University of San Marcos. U.S. chapters are at the University of Minnesota-Twin Cities, University of Minnesota-Duluth and Kent State University.

SME Outstanding Student Chapter GEM Award

The efforts of the University of Kentucky, Norwood Student Chapter of SME have been recognized by the SME membership, awarding the chapter first place in the Outstanding Student Chapter Contest and first place in the MEC Report Contest.

SME congratulates the members of the Norwood Student Chapter of SME for its outstanding efforts in educating the community about the importance of mining, its participation in various community fundraisers and their outreach activities, which included the National Science Teachers Conference, Boy Scouts of America and many more.

SME Student Chapters

Colorado School of Mines
Colorado School of Mines UCA of SME Chapter
Delft University of Technology
Indian Institute of Technology Kharagpur Student Chapter
Indian School of Mines
* Kent State University
Missouri University of Science and Technology
Montana Tech of the University of Montana
National University of Colombia - Medellín School of Mines
New Mexico Institute of Mining and Technology
Pennsylvania State University
Pontificia Universidad Catolica Del Peru
Queens University
South Dakota School of Mines and Technology
Southern Illinois University at Carbondale
* Universidad Autonoma de Chihuahua
University of Alaska Fairbanks
University of Arizona
University of Kentucky
* University of Minnesota - Duluth
* University of Minnesota - Twin Cities
* Universidad Nacional de Moquegua
* Universidad Nacional Mayor de San Marcos
University of Nevada-Reno
University of Pittsburgh
University of Utah
Virginia Polytechnic Institute and State University
West Virginia University
* Student Chapter added in 2012

Membership

25-year members

Roger L. Amelunxen Garibaldi Highlands, BC, Canada	Giorgio De Tomi Sao Paulo, Brazil	Torben Jensen Brampton, ON, Canada	El Paso, TX
Brian W. Arthur Elko, NV	Gordon E. Doerksen Gibsons, BC, Canada	James H. Justice Lexington, KY	Edmund A. Rieger Pinedale, AZ
James R. Ashby Irvine, CA	Eduardo A. Dominguez Bahia Blanca, Argentina	Paul Kaplan Sparks, NV	Patrick P. Riley Lakewood, CO
Richard A. Aurand Nicholasville, KY	J.R. Doran Sudbury, ON, Canada	David E. Karkoska Gilbert, MN	Michael B. Robinson Gillette, WY
Kevin A. Bahe Farmington, NM	Jeffrey C. Dubbert Rangely, CO	John Killey Sacramento, CA	Daniel L. Roman Windberg, PA
Ryan T. Bennett Denver, CO	Graeme Duncan Lilli Pilli, NSW, Australia	Alexandra J. Kozak, W. Vancouver, BC, Canada	Joseph J. Sagar Spring Creek, NV
Ross R. Bhappu Denver, CO	Jeffrey L. Duvall Greeley, CO	Jaakko O. Leppinen Espoo, Finland	Paul M. Schumacher Golconda, NV
Christopher R. Bolger Bray Park, QLD, Australia	Jerod M. Eastman Winnemucca, NV	Alistair O. Logan West Kilbride, Scotland	Gordon E. Seibel Divide, CO
Rufino B. Bomasang Paranaque, Philippines	John C. Elkin Green River, WY	James I. Mathis Ellensburg, WA	Joseph R. Sims Oro Valley, AZ
Herbert E. Bradshaw Spokane, WA	Sean Ennis Vancouver, BC, Canada	William M. McCardle El Monte, CA	Ted C. Sindlinger Sparks, NV
Charles A. Brannon Phoenix, AZ	Thomas P. Erwin Reno, NV	Simon S. Meik Worthing, England	George A. Smith Bluefield, WV
Gary M. Buchan Waynesburg, PA	Lyle D. Evans Danville, KY	Kenneth W. Mills Wollongong, NSW, Australia	Patrick K. Sollars Steamboat Springs, CO
George Burke Sparks, NV	Clark J. Fritz Streetman, TX	G.A. Morris Birmingham, AL	Philip B. Solseng Edina, MN
Jack M. Carraher La Jara, CO	Glen J. Fuchs Surrey, BC, Canada	Emilio Mutis-Duplat Odessa, TX	Douglas W. Sprague Long Beach, CA
C.G. Cathyl-Bickford Cumberland, BC, Canada	Kostas G. Fytas Quebec, PQ, Canada	Joanna M. Nara- Klopper Green River, WY	Mark K. Suddaby Tucson, AZ
Janine Clayton Vancouver, WA	Brett J. Garland Brisbane, QLD, Australia	Hamid Nazeri Lakewood, CO	Robert E. Taylor Glenrock, WY
Mike W. Clayville Los Gatos, CA	John R. Glasscock St. Petersburg, FL	Jonathan S. Nelson Blacksburg, VA	James R. Thomas Pinehurst, ID
John G. Cleary Reno, NV	Will E. Godbey Skagway, AK	John Nick Fallbrook, CA	C.S. Thompson Norwalk, CT
Andrew P. Cole Elko, NV	Daniel C. Graham Wasilla, AK	Michael Nielsen Fort St. John, BC, Canada	Thomas L. Tjossem Tucson, AZ
Timothy B. Compton Wise, VA	Gary J. Griffin Taylors, SC	Timothy R. Olson Brighton, CO	C.S. Wallis, Surrey BC, Canada
Kevin M. Conway Sparks, NV	Christopher Gypton Hayden, ID	Andrew J. Papp Bloomington, IN	Daniel E. Walsh Fairbanks, AK
Robert C. Cook Moran, MI	John S. Hayden St. George, UT	Dean R. Peltonen Austin, TX	Cyril R. Wanamaker Juneau, AK
David J. Copeland Vancouver, BC, Canada	Wayne W. Heili Casper, WY	Anthony M. Perpich Mountain Iron, MN	Dean L. Willis Central, AK
John F. Cunningham Grand Junction, CO	Louis F. Hill Arden Hills, MN	Herman J. Pieterse Tucson, AZ	R.D. Willis Golden, CO
Peggy A. Dalheim Golden, CO	Don E. Howell Castle Rock, CO	Joseph B. Powers Kingsport TN	Roy S. Wojcik Kimberly, ID
Richard K. De Somber Westminster, CO	Marc V. Hurst Winter Haven, FL	John P. Quinn	Marcie Wood Sparks, NV
			Miles M. Yeknik Phoenix, AZ
			Steven W. Yopps Elko, NV
			Alan D. Zunkel Vancouver, WA

25- and 50-year member recognition earned in calendar year 2012.

The SME eLearning Program Committee coordinates the creation and deployment of online courses for professional development. These mining industry courses are available to members, nonmembers and students.

Continuing Education Unit Accreditation

SME is progressing through the application process to become an authorized provider with the International Association for Continuing Education and Training (IACET). The application process is currently meeting the four-month working status requirement.

Currently, application completion is on hold in order to focus on course development and filling out the course catalog. This enables us to have more courses in the system, which will provide a clearer picture of the entire record-keeping process of the SME eLearning program. The IACET authorization process is based on an audit of the record-keeping process of the program.

The SME eLearning Program Committee re-evaluated resuming the application process in December 2012.

Marketing

Course catalog marketing. SME sends out a member blast each time a course goes live. As a result, members and nonmembers are registering for our courses.

Call to author marketing. SME has advertised many ways for online course development authors and has some valuable feedback and potential courses.

The advertising avenues include the distribution of a flyer at critical meetings at the 2012 Annual Meeting. A call to authors ad was included in SME eNews and in *Mining Engineering*.

Additionally, the committee has gathered a list of potential courses, authors and certified mining professional career paths. We can actively seek fulfillment of potential courses by using this list.

50-year members

Ramon F. Ayala
Naco, AZ

W.J. Bryan
Albany, OR

John T. Crawford
Ashburn, VA

Bruce H. De Wyk
Lakewood, CO

Walter D. Ellis
Bandera, TX

A.J. Erickson
Houston, TX

R.M. Fitzgerald
Ponte Vedra Beach, FL

Kenneth A. Grace
Innisfil, ON, Canada

Spent M. Hansen
Eureka, UT

William A. Hustrulid
Veradale, WA

Gordon E. Johnson
Lakeport, MI

Franklin F. Jones
Apache Junction, AZ

Errol G. Kelly
Wanaka, New Zealand

Howard G. King
Tucson, AZ

Keith R. Knoblock
Falls Church, VA

Harold R. Kokal
Glenwood, IL

Martin C. Kuhn
Tucson, AZ

Robert A. Leitzman
Tucson, AZ

Fred A. Leonard
Winnemucca, NV

Dave W. Lockard
Spokane, WA

Jan D. Miller
Salt Lake City, UT

A.P. Mogensen
Hamilton, MT

Pierre F. Mousset-Jones
Reno, NV

Dennis L. Murr
Hibbing, MN

Jan M. Mutmansky
State College, PA

James F. Orofino
Gainesville, FL

Selwyn L. Presnell
Bartow, FL

Hugh W. Rimmer
Blacksburg, VA

Richard J. Robbins
Seattle, WA

J.P. Rogowski
Reno, NV

Merlyn J. Royea
Vancouver, BC, Canada

Ben L. Seegmiller
Salt Lake City, UT

Ralph B. Sievwright
Phoenix, AZ

Raj K. Singhal
Calgary, AB, Canada

Ponisseril Somasundaran
New York, NY

Robert A. Spencer
N. Vancouver, BC, Canada

Donald E. Stief
Reading, PA

Charles F. Stover
Burnsville, NC

Ralph R. Stricklen
Tucson, AZ

Ralph B. Toombs
Ottawa, ON, Canada

Chi S. Wang
Vienna, VA

William R. Wilson
Arvada, CO

Norman H. Zivin
New York, NY

SME Annual Meeting and Exhibit

SME's 2012 Annual Meeting was a great success. This was the first time the meeting was held in Seattle, WA and Seattle turned out to be an excellent location for the Annual Meeting. It was attended by 5,201, compared with 4,937 in Phoenix, AZ in 2010 and 5,745 in Denver, CO in 2011.

Noteworthy registration information:

- International attendance: 850 compared with 542 in 2011, of which 460 were from Canada (295 in 2011).
- 425 attendees from Washington state, compared with 83 in 2011.
- 532 student attendees, compared with 515 in 2011.
- The exhibit floor featured 500 exhibiting companies with 693 booths, the largest exhibit display in SME history.

For the first time, SME launched an Annual Meeting app for mobile devices that allowed attendees to download information on the calendar of events, technical sessions, sponsors, exhibitors and conference location



maps. The app was downloaded by 1,681 attendees. We will secure a sponsor and offer an interactive app at the 2013 Annual Meeting.

Newmont Mining Corp., for the second year in a row, was the Official Meeting Sponsor with a contribution of \$50,000, which also included a sponsorship of the student mixer. A total of \$162,470 was contributed in overall sponsorship revenue.

The SME Foundation dinner attendance of 323 people was the largest since the 50th anniversary in 2007. The dinner also generated 22 sponsored tables that were sold for \$2,500 each to benefit the Foundation.

Annual Meeting & Exhibit

	2012 Seattle	2011 Denver	2010 Phoenix	2009 Denver	2008 Salt Lake City	2007 Denver	2006 St. Louis
Total attendance	5,201	5,745	4,937	4,512	4,149	4,601	3,183
Exhibit booths sold	693	682	630	603	515	505	390
Exhibiting companies	500	504	475	452	377	391	297

George A. Fox Conference

The 2012 George A. Fox Conference was held at The City University of New York on Jan. 24, 2012. The conference, chaired by Paul Scagnelli, focused on the international perspective of tunneling. It was attended by 376 people. The conference generated \$49,300 in sponsorship contributions.

Cutting Edge TBM Conference

In a joint collaboration with *North American Tunneling Journal*, a Conference on Pressurized TBM Tunneling was held April 23-24, 2012 in Miami, FL. The two-day conference was attended by 239 people and featured 10 exhibitors, 25 presentations and a field trip to the Port of Miami Tunnel project.

Other notable events at the 2012 SME Annual Meeting:

- Symposium on Water in Mineral Processing Keynote Reception
- Spouse/Guest Brunch
- New Member Orientation
- Rising Professionals Reception
- WAAIME Members and Scholarship Recipient Reception

Offshore Technology Conference

In May 2012, SME was one of 11 sponsoring organizations of the OTC conference in Houston, TX. The SME booth was one of more than 2,000 booths in the exhibit hall. SME's OTC Committee chaired two sessions and a panel discussion during the conference.



SME will once again participate in OTC Brazil, Oct. 29-31, 2013 in Rio de Janeiro. SME has secured a member to be on the board of OTC Asia that will be held March 25-28, 2014.

North American Tunneling Conference

The 2012 North American Tunneling Conference (NAT) was held June 24-27, at the JW Marriott in Indianapolis, IN. This was the largest attended conference in NAT history, with 918 participants. Exhibits hit an all-time high, with 140 booths sold.

The conference offered two short courses in addition to the three days of technical programming focusing on Tunneling: Driving Value.

Underwater Minerals Institute Conference

In association with a three-year merger, the IMMS of SME planned and executed the Underwater Minerals Institute Annual Meeting Oct. 15-20, 2012. It was held at Tongji University, Shanghai, China. The two-and-a-half day conference was attended by 132 people and featured 40 presentations, social events and a post-conference tour. The 2013 conference will be held in Rio de Janeiro, Brazil.

Safety and Reliability Conference

The second of a series in a joint collaboration with CIM, the Safety Management and System Reliability Conference was held at the Marriott Minneapolis, Nov. 13-15, 2012. 100 people attended the technical program that featured two days of sessions and social events.

Arizona Conference

The Arizona Conference was held Dec. 2-3, 2012 at the JW Starr Pass Resort in Tucson, AZ. This was the second year the conference was held in conjunction with the Mining Foundation of the Southwest Hall of Fame Dinner the evening prior to the conference. The move to the new hotel location continues to be successful for both organizations. Overall, attendance for the conference was 437, the largest attended conference since 2005.

Save the Date SME Conferences in 2013

Symposium on Environmental Considerations

April 15-17, 2013, Marriott Hotel
Charleston, WV

Finance Symposium

April 29-30, 2013, Graduate Center of
New York, New York, NY

Rapid Excavation and Tunneling Conference (RETC)

June 24-27, 2013, Wardman Park
Marriott, Washington DC

UMI Conference

Fall, 2013, Rio de Janeiro, Brazil

Safety and Reliability Conference

Oct. 20-22, 2013, Hilton Toronto,
Toronto, Canada

Cutting Edge TBM Conference

Nov. 3-5, 2013, Westin Hotel, Seattle, WA

Arizona Conference

Dec. 8-9, 2013, JW Marriott Starr Pass
Resort, Tucson, AZ

Mining Engineering

In January 2012, *Mining Engineering* launched its new website. The new site includes mining industry news stories, updated daily, a commodities ticker and feature articles that are not published in the print version. An advertising program was developed for the new website. Current and archived issues of *Mining Engineering* are available to SME members to read or download.

In addition to regular feature articles and peer-reviewed technical papers, content in *Mining Engineering* during 2012 included several special editorial sections. Included were special sections on coal, exploration, marine mining, industrial minerals, gold, legislation and regulation, Australia, Canada, Africa and Latin America.

The January and February issues of *Mining Engineering* included the SME Annual Meeting Showguide. May was the exploration, mining, coal and state annual



review issue. June featured the annual review of more than 40 industrial minerals and construction materials and aggregates.

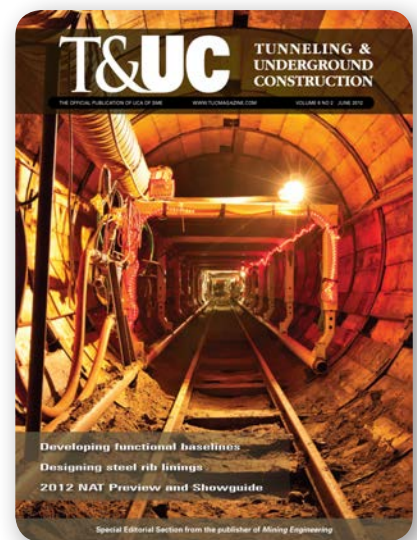
Tunneling & Underground Construction Magazine

Tunneling & Underground Construction (T&UC) is published four times a year, in March, June, September and December. Although the magazine is geared toward the underground construction industry, it is sent to all SME members. Each issue of *T&UC* is bound into *ME* but is also mailed as a stand-alone magazine to every UCA of SME member.

T&UC's content includes technical articles concerning major tunneling projects throughout the world. Articles are written by underground construction professionals. In addition to general project features, each issue of *T&UC* carries editorial material aimed toward certain projects, technologies, equipment or types of tunneling. In addition to feature articles, shorter underground construction technology news articles are

included. These are geared to the theme of each issue. Other sections include the UCA of SME chairman's column, industry news items, new products and underground construction events and short courses.

An editorial advisory committee was created during 2012. The committee's purpose is to assist the editorial staff in planning feature articles for each of *T&UC's* quarterly issues. This includes identifying themes for each issue, as well as industry issues the magazine should address. Committee members are asked, on occasion, to review potential articles submitted from





outside sources for their technical value to *T&UC* readers.

The Tunnel Demand Forecast (TDF) remains one of *T&UC*'s most popular sections. An updated TDF is published in each issue. The TDF

SME News

Topics in the SME News section of *Mining Engineering* include Legion of Honor members, SME/AIME

award winners, calls for award nominations, SME division officer nominations, the Young Leaders Committee, the Henry Krumb lecturer program, division scholarship

is also available on the UCA of SME website (www.uca.smenet.org). Listings published in each issue of *T&UC* also appear on the online version. Users can also submit their own projects for listing on the TDF. They are posted to the website after verification. Now that the *ME* site is operating, the publications staff is planning to do a similar makeover of the *T&UC* website.

award winners and an end-of-the-year index. The section also covers student chapter news, local section news, the SME Foundation (including the professional licensure of engineers and MEC), division newsletters, ABET updates and AIME news. Monthly departments include personal news, obituaries, necrology and new members. The SME News section of the October and April issues include the WAAIME Division newsletter.

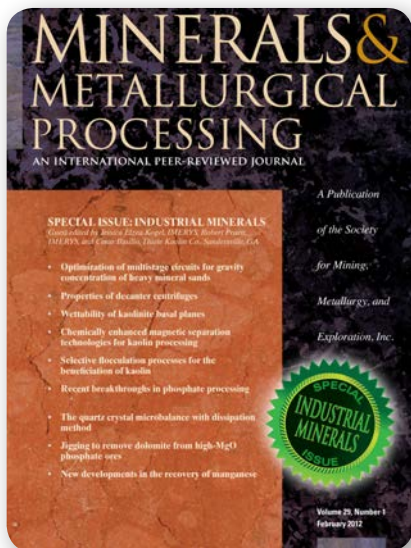
Peer-reviewed publications

The SME publications department produces three sources of peer-reviewed technical information for members of the mining community: the technical papers published every month in *Mining Engineering* (18 papers in 2012), the quarterly peer-reviewed processing journal, *Minerals & Metallurgical Processing* (31 papers in 2012) and the annually published *SME Transactions*. It serves as a one-stop shop for all SME peer-reviewed articles and also includes 15-30 additional papers only published here.

Eighteen technical papers, totaling 178 pages, will appear for the first time in *Transactions*, Vol. 332, for the year 2012. They will be joined by all of the technical papers published in *Mining Engineering* and *Minerals & Metallurgical Processing* for 2012, for a total page count of 540 including the index.

Transactions is currently available only as an online subscription; *Minerals & Metallurgical Processing*, SME's other fully peer-reviewed periodical, is available both online and in print form. The combination of print and online remain the most popular format. Subscribers like the convenience of being able to read and download papers online. But they also prefer having a hard copy they can put on the shelf.

Minerals & Metallurgical Processing, published since 1984, has been edited by S. Komar Kawatra, a professor from Michigan Technological University, for more than a decade. 2013 will be the 30th year of publication of the journal.

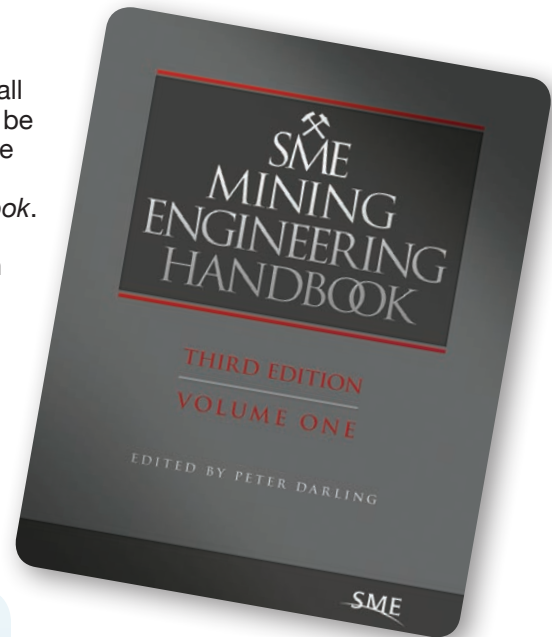


The SME book publishing program generated record sales in 2012. Along with traditional book sales, eBook sales and royalties continue to grow. The combination of quality industry publications and market penetration (both inside and outside our membership) contributed to this success.

SME now offers a record number of titles, 109 books and 57 eBooks.

Work on a major new reference, the *UCA Tunneling and Underground Construction Handbook*, is under way with a projected

publication date of fall 2015. This book will be as equally impressive as the *SME Mining Engineering Handbook*. It will cover the design, construction and commercial aspects of tunnel, chamber and shaft projects and should become an industry standard.



Titles Published in 2012

Beneficiation of Phosphates: New Thought, New Technology, New Development

Edited by Patrick Zhang, Jan Miller and Hassan El-Shall

Challenges in Fine Coal Processing, Dewatering, and Disposal

Edited by Mark Klima, Barbara Arnold and Peter Bethell

Controlling Exposure to Diesel Emissions in Underground Mines

By Aleksandar D. Bugarski, Samuel Janisko, Emanuele Cauda, James Noll and Steven Mischler

Modeling and Simulation of Mineral Processing Systems, Second Edition

By R.P. King

North American Tunneling: 2012 Conference Proceedings

Edited by Matthew Fowler, Robert Palermo, Robert Pintabona and Michael Smithson Jr.

Separation Technologies for Minerals, Coal, and Earth Resources

Edited by Courtney Young and Gerald Luttrell

Water in Mineral Processing

Edited by Jaroslaw Drelich

2012 Top Sellers

SME Mining Engineering Handbook

2012 RETC Proceedings

Chemistry of Gold Extraction

Mining Economics & Strategy

Underground Mining Methods

Mineral Processing Plant Design

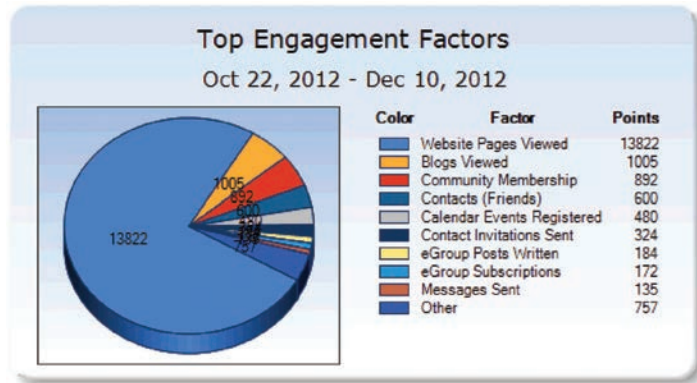
In 2012, SME's web team completed Phase II for the *Mining Engineering* website, as well as a new online membership application. Also this year, the SME web team worked with two companies to conduct a website usability study. The results of the study will be used to develop a new website that will be based on the recommendations and suggestions gathered during the study.

Here are a few SME's social media statistics

- Facebook 7,066 fans (+254 new fans since Oct. 22).
- Twitter 1,240 followers (+154 new followers since Oct. 22).
- Google+ has 61 people following our page and 174 in our Mining Industry Circle.
- SME LinkedIn group – 14,952 members (+549 new members since Oct. 22).
- YouTube 44 videos – 51 videos watched since Oct. 23, 1,680 views since the creation of SME's Channel.

SME Webinar program

In March of 2012, SME began developing the SME Summer Webinar Series as a vehicle to provide technical information and professional development to members who would otherwise be unable to attend meetings or short courses, specifically, members in local sections, students, young professionals and international members. Webinars are an efficient and effective way to provide information while saving on travel and time away from the office and home.



SME Community statistics.



Members and nonmembers can register for the webinar online. SME is using Webex to produce the programs. Each webinar is one-hour long and is \$45 for a member and \$90 for a nonmember. The complete library of the webinars is available via video download.

As of November 2012, SME had conducted eight webinars with 213 total registrants. SME plans to produce between 20-30 webinars in 2013.

Membership in the Coal and Energy Division (C&E) reached 2,083 people during 2012, of which 308 are student members. This reflects an increase of eight members from the total of 2,071 members in 2011. The division's retention rate is 87.12 percent.

2013 Annual Meeting programming.

The C&E technical program for the SME Annual Meeting included about 94 papers in 17 technical sessions. The C&E Executive Committee has agreed to provide professional development hours to session attendees who sign up at each session. This provides additional value to those professional engineers who are required to receive continuing education credits.

Open committee positions. The executive committee discussed current open positions on various committees within the division and reorganization and/or the elimination of some unit committees. Joe Zelanko, Vlad Kecojevic and Tom Novak will work to fill the vacancies. Joe Zelanko prepared a proposal to revise and reorganize unit committee structure and responsibilities, which was presented to the executive committee at the SME Annual Meeting in Denver.

The C&E Division Chair-Elect Designee, Nikky LaBranche, moved to Australia several months ago. Zelanko will contact LaBranche to inquire about her status and

inform C&E Executive Committee if a new Chair-Elect Designee should be elected.

The executive committee prepared a protocol for the C&E representative on the Frank A. Aplan award committee. Rick Honaker volunteered to help draft the protocol for selecting the C&E Division representative on this committee. It was also agreed that the current Frank F. Aplan Award Committee should include the C&E representative who is a highly qualified professional in coal processing.

Fundraising. The C&E Division initiated a table sponsorship program for its 2012 luncheon that raised more than \$12,000. For the 2013 luncheon, the division again offered table sponsorships and sold commemorative posters during the luncheon. Zelanko worked with an artist who agreed to do an original coal-industry-related painting and provide the original painting to be auctioned. Additionally, the artist provided the artwork file, so SME can have posters printed. The posters feature the original artwork centered in an appropriately colored border with some commemorative text.



Joseph C. Zelanko
Coal and Energy Division
Chair



Patrick Williamson

Environmental Division
Chair

The Environmental Division's membership as of Dec. 31, 2012 was 920 people, of which 102 are student members. This reflects an increase of 72 members from the total of 848 members as of Dec. 31, 2011. The division's membership retention rate is 85.66 percent.

2013 Annual Meeting. The Environmental Division had 10 technical sessions at the annual meeting. The division also planned a field trip to the Henderson Mine west of Denver.

The division luncheon speaker was Raymond Lazuk, environmental manager for Climax Molybdenum Co.'s Climax Mine near Leadville, CO. He spoke about the environmental aspects of the Climax Mine restart. The luncheon was sponsored by CH2M Hill.

The Environmental Division Executive Committee agreed that the program planning chair would be responsible for coordinating the paper and presentation

awards program at the annual meeting with support from the vice chair. Bob Reisinger will add the best paper/presenter awards to the *Environmental Division Handbook*.

Environmental Division Handbook. Updates to the handbook are ongoing. Patrick Williamson will look critically at all of the division's committees to determine what committee commitments require and if some committees can be consolidated based on annual meeting discussions. Nominating information will be updated as well.

EMS Guide. The National Mining Association has made the EMS guidance available. Reisinger forwarded the necessary information to the Environmental Division Communities website. There is a possible opportunity for eLearning short courses. Patrick Williamson will contact Linda Figueroa regarding the short course.

Award nominations. The division approved a request from SME's Ad Hoc Awards Committee to institute a three-year active period for all qualified award nominations due to the large effort required for submitting nominations.

The Industrial Minerals and Aggregates Division's (IM&AD) membership was 946 at the end of 2012, of which 85 are student members. This reflects an increase of 28 members from 918 in 2011. The retention rate for the Industrial Minerals and Aggregates Division is 88.49 percent.

Membership. SME student membership is up, but new members may be joining other divisions, and the division's luncheon attendance was poor. Several items were identified to help stimulate division growth and luncheon attendance. Division chair Mark Zdunczyk got a list of new SME members and was to personally call them to see if they would like to join the division. He also asked SME to email an invitation to all division members to attend the luncheon, with a specific invitation to all program session chairs and presenters. The executive committee personally invited as many as they could.

Fundraising. The division did not have a silent auction at the luncheon at the 2012 Annual Meeting in Seattle, but it was to have one at the 2013 meeting in Denver. Gordie Stevens organized a subcommittee for this effort, and all executive committee members were to try and find appropriate sponsors for the luncheon or technical sessions. It was

decided that the cost-to-price relationship for the luncheon were too close and that the division would raise the luncheon cost from \$45 to \$50, rather than reduce the fare to a cold-cut sandwich lunch.

Annual Meeting 2013. The division had six technical sessions at the 2013 meeting planned, but the session arrangements changed once the abstracts started coming in.

Dreyer Conference 2014. Several ideas for this conference were discussed, including minerals for agriculture, evaporites and dimension stone. The executive committee will take up this issue and a committee will be formed when the executive committee reconvenes during the 2013 annual meeting.

Division Nominations. The executive committee agreed that, beginning in 2013, the IM&AD Nominating Committee meeting would be scheduled for two hours and SME staff would provide the IM&AD nominating packets to that committee prior to the mid-year meeting.



Mark J. Zdunczyk
Industrial Minerals and
Aggregates Division Chair



Georgy Cherkashov
International Marine Minerals
Society Division Chair

The International Marine Minerals Society Division's (IMMS) membership was 285 at the end of 2012. This included 250 professional members, 32 students and two senior/honorary members.

IMMS members were converted to the SME Professional Member status within the new IMMS Division. Their current dues scale is lower than SME's. IMMS and SME agreed prior to the trial three-year merger to have a graduated scale for getting IMMS dues to SME levels within three to four years. It was agreed to bill IMMS division members \$45 for 2012 and \$75 for 2013.

All registrants for the UMI 2012 in Shanghai were given membership with their meeting registration. Those who attended UMI 2011 in Hawaii but did not attend Shanghai were billed for 2013 IMMS dues. SME will add them to the calendar year retention program following the annual billing.

Meetings. IMMS held its annual conference, Underwater Mining Institute, Oct. 15-20, 2012, at Tonji University, Shanghai, China. The theme was "Marine Minerals: Finding the Right Balance of Sustainable Development and Environmental Protection." The meeting included sessions, field trips and publication of extended

abstracts that are included on OneMine.org. The conference had 110 registrants.

UMI is an international conference that is hosted each year in a different country. The 2013 conference will be Oct. 21-25, hosted by the Geological Survey of Brazil, Rio de Janeiro, Brazil. The theme is "Marine Minerals: Recent Developments in Atlantic Seabed Minerals."

The Underwater Mining Institute (UMI) brings together leaders from academia, industry and government who share a common interest in marine mining and exploration. For nearly four decades, more than 25 nations have been represented at this annual forum to exchange ideas, seek expertise and share in the excitement of this evolving industry.

Since the first UMI was held in Milwaukee, WI in 1970, the Institute's goal—to promote prudent and responsible development of marine mineral resources through technical presentations in venues that encourage informal free exchange—has remained strong. The technical theme varies each year, as does the meeting location and host. Presentations are scrutinized to ensure their contents to be substantive and stimulating.

Publications. SME's Publications Department has taken over publishing IMMS' *Soundings* e-newsletter. The first edition from SME was distributed Dec. 20, 2011 and the most recent was August 2012. *Soundings* features industry and institute news.

The Mineral and Metallurgical Processing Division's (MPD) membership was 2,339 at the end of 2012, of which 163 are student members. This reflects an increase in membership of 141 members from the 2,198 in 2011. The division's retention rate is 89.21 percent.

2013 Annual Meeting programming.

The MPD Division had 21 technical sessions during the 2013 annual meeting. This included three plenary lectures and seven sessions in the Innovation Symposium, with 44 papers published. The division searched for sponsors for its technical sessions.

Division membership and involvement.

A discussion was held about how to get more members involved in the division. The discussion centered on using the MPD unit committees as a place to generate discussions on "Who's Who" in SME, to create a more transparent and larger pool of candidates. Jayson Ripke and Rich Johnson will develop two questionnaires/surveys to encourage greater MPD member involvement in the division. The first survey will target all MPD members to see if they want to get more involved. Results will be published in *Fine Grind*, as a website link and in eNews, to get as much participation as possible.

This survey will ask a few simple questions and also let people know how to get more involved. It will ask if they have attended a local meeting, attended an annual meeting, attended an annual meeting technical session, presented a technical paper, attended the MPD unit committee

meeting, chaired a technical session, been a member of an MPD unit committee or chaired or vice-chaired an MPD unit committee.

A second survey will target individuals based on their answers to survey No. 1 to identify a pool of candidates with a minimum level of involvement already and ask them how they would like to become more involved.

Award funding.

The MPD Division continues to seek corporate funding for its awards. Assignments were made to approach target contributors and establish long-term funding for awards. Awards and their status are as follows:

- Robert H. Richards Award — funded by BHP Billiton.
- Outstanding Young Engineer Award — funded by Hazen Research Inc.
- Taggart Award — funded by Resource Development Inc.
- Wadsworth Award — previously funded by FMI, currently seeking additional funding.
- Gaudin Award — previously funded by Barrick, currently seeking additional funding.



S. Jayson Ripke
Mineral and Metallurgical
Processing Division Chair



Steven C. Holmes

Mining and Exploration
Division Chair

Membership in the Mining and Exploration (M&E) Division as of Dec. 31, 2012 was 5,825 people, of which 632 are student members. This reflected an increase of 218 from the 5,607 members in the division in 2011. The division's retention rate is 90.94 percent.

2013 annual meeting.

Technical programming for the Annual Meeting in Denver totaled 29 sessions. This included three special "Hot topics" sessions — mining standards, guidelines for operational excellence, and government and public affairs. The 26 technical sessions include six geology sessions, four management sessions, five operations sessions, nine technology sessions and two ventilation sessions.

SMART update. The SMART initiative consists of a group of individuals who are putting structure around open access for data that is derived from different pieces of equipment. The initiative was started by the Canadian Institute of Mining, Metallurgy and Petroleum, and SME provided \$50,000 in funding for the initiative. During MINExpo, the Australasian Institute of Mining and Metallurgy was approached for additional sponsorship.

The M&E Division is charged with overseeing the efforts and ensuring SME's funds are making a good effect. The SMART team is to develop a vision, get customers

and owners to accept, and then get original equipment manufacturers to agree and begin providing data streams in the format and design put forth by SMART. To date, six working groups have been established: Asset Management, Data and Access, Technology and Connectivity, Situation Awareness (for operators), Underground Mining and Operational Safety and Risk Management. The website for MSGC is up and running at <http://globalminingstandards.org>.

Membership update. Steve Holmes highlighted that a healthy proportion of the division members are students. Holmes urged the executive committee to work on getting the retention to more than 90 percent. George Sanders highlighted the fact that there is a reduced professional rate coming into the society from being a student and the division should market that fact.

Holmes asked everyone to pressure their company's management to continue supporting and paying for employee membership fees in SME. He is also working to establish a new local section in Antofagasta, Chile. He expects to get more than 500 members in this section. This is possible, as there are 24 major mines within 200 km (124 miles) of Antofagasta.

Fundraising. The Mining and Exploration Division held a Silent Auction during its 2013 division luncheon. Bill Warfield worked with Bob Washnock to coordinate the auction. The division also sold luncheon table sponsorships for \$1,000 at the luncheon.

The Underground Construction Association Division membership for 2012 was 1,047, compared to 1,005 in 2011. This included 781 individual members, 85 student members, 161 corporate/sustaining members, 11 registered members and nine senior/honorary members.

Awards. Per the UCA Executive Committee's approval (Jan. 26, 2011), UCA awards are only given during North American Tunneling Conference (NAT) years. There will be a call for UCA award nominations in August 2013.

Meetings. The George A. Fox Conference was held in January 2012 in New York City with the theme "Tunneling: An International Perspective." The conference was attended by 377 people, up from 351 in 2011. Sponsorships totaled \$49,300, compared with \$47,800 in 2011.

The UCA of SME and the *North American Tunneling Journal (NATJ)* co-hosted the "Cutting Edge Conference on Pressurized TBM Tunneling" in Miami, FL, April 22-24, 2012. This conference was attended by 238 people and generated \$25,000 in sponsorship contributions. The two-day program featured a sold-out field trip to the Port of Miami Tunneling Project. Technical sessions included 23 presentations and two panel discussions. An exhibit floor of 10 booths featured a welcome reception and lunches daily. The UCA of SME scholarship fund received 10 percent of the net surplus, approximately \$6,000-\$7,000. UCA of SME and *NATJ* split the remaining net surplus 50-50, giving each organization

approximately \$30,000. Due to the success of the conference, both organizations will partner again on another Cutting Edge conference Nov. 3-5, 2013 in Seattle, WA.

The 2012 North American Tunneling Conference, held June 20-23, 2012 in Indianapolis, IN, offered two short courses in addition to three days of technical programming, focusing on "Tunneling, Driving Value." Three students were given complimentary registration and participated in the student paper contest. The three students presented their papers at the UCA breakfast and were awarded a cash prize of \$2,000 each.

UCA of SME continues to support students, and \$25 from each full paid registration will be transferred into the UCA scholarship fund as well as 25 percent of the net surplus from the conference. NAT exhibits totaled 140 exhibit booths compared with 108 in 2010. Sponsorship of the conference was also strong at \$63,000, a 99-percent increase in contributions from 2010.

World Tunnel Congress (WTC) 2016.

UCA has been focusing on the World Tunnel Congress bid for the United States in 2016. The WTC Bid Committee met at the George A. Fox Conference in January 2013 to review the bid brochure and the official bid letter, which will be sent for consideration to the International Tunnelling Association Executive Council.



Jeffrey Petersen

UCA of SME Chair



Veronica Yovane Brahm
WAAIME Division Chair

The Woman's Auxiliary to the American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc. (WAAIME) Executive Committee reported that the WAAIME Division had a successful strategic planning session at the SME midyear meeting. The session was initiated because of growing concern about the legacy and future of WAAIME. As the average age of members grows, there are no plans for succession,

and only half of the local sections are very active. WAAIME leaders want to revitalize the organization and make sure that the organization remains relevant. The WAAIME Executive Committee will review the summary from the session at the 2013 SME Annual Meeting.

The WAAIME Executive Committee awarded 99 applicants for WAAIME scholarships during 2012. The WAAIME Executive Committee approved \$198,500 to be dispensed to the applicants and \$50,000 to the international sections.

2012 WAAIME Scholarship Recipients

Montana Tech

Tyler Broden, Kimberly Ng

Texas A&M University

Dipankar Dwivedi

West Virginia University

Jon Bobbera, Matthew Perrella, Zachary Purdy, Jeffrey Stevens, Alexandra Stockdale, Zachary Thompson

University of Nevada-Reno

David Byrnes, Susan Konkol, Danielle Molisee, Colton Parsons, Jessica Pence, Dudley Ebrahim Tarshizi, Austin Youngblood

Colorado School of Mines

Dharmendra Kumar, DongjoonYoun

South Dakota School of Mines and Technology

Clarita Begishe, Austin Bolinger, Brett Carlson, Crystal Croston, Timothy Fountain, Richard Handoko, Akash Jaggi, James McGough, Mackenzie Nolan, Joshua Ohlman, Kaylea Palmer, Casey Placek, Darren Scott, Jordan Smith, Dustin Teply

University of Arizona

Chris Apodaca, Francisco Camarena, Jeb Curtis, Andrew DeSantola, John Lyons-Baral

University of Kentucky

Sampurna Arya, Jacob Brashear, Austin Brock, Joshua Calnan, Brandy Chenault, Raghav Dube,

Joshua Hoffman, Brett Jackson, Gabriel Nickell, David Norton, Mohammad Rezaee, Drew Schlueter, William Turner, Lingyu Zhang, Yigong Zhang

Missouri University of Science & Technology

Allyson Buchelt, Andrea Els, Ethan Faber, Rachel Feist, Laura Kraus, Katherine Stockdale, Nathan Hansen, William Lichtenwaldt, Kelsey Marzolf, Paul Tongwa

Virginia Polytechnic Institute and State University

Aubrey Athey, Elizabeth Boccrosse, Arden Cox, Charles Davis, Tyler Daugherty, Tyler Faulkner, Kenneth Griffin, Christopher Hidy, Gregory Jennison, Russell Jones, Kevin King, Marion King, Andrew Malone, Jack Maxey, II, Linley Mescher, Andrew Redlinger, Garrett Ripa, Dylan Rowley, Meredith Scaggs, William Thomas, Aaron Thomson, Melissa Volkmar, Guang Xu

University of Utah

Hussein Al Rubaye, Nolan Black, Andrew Carey, Derrick Chambers, Philip Kluss, Nicholas Nielsen, Chad Nielson, Erik Spencer, Miguel Valenzuela

New Mexico Institute of Mining & Technology

Melissa Cote, Claudia Duarte

Pennsylvania State University

Richard Olawoyin

Report from the SME Foundation President

SME
2012

And fiscal year 2012 comes to a close. It has been a great time to serve as SME Foundation (SMEF) president. Our volunteers and staff have stepped up to begin a transformation of the SME Foundation, with new growth in programs and fundraising. As we enter 2013, we will be announcing exciting new opportunities for program support.

The SMEF web pages, online community and interactive social media sites have been enhanced and enriched with videos, photographs, blogs, event listings, news about our volunteers, contributors and staff, as well as opportunities to donate to your favorite Foundation programs. Please visit <http://community.smenet.org/SMEFoundation>.

On Feb. 1, 2012, the merger of the Foundation's Mineral Information Institute (Mii) and SME's Government, Education & Mining (GEM) committee was finalized. The Minerals Education Coalition (MEC) is the successor entity to those two programs. Support for the expanded and enhanced programs of the MEC will ensure an enlightened and supportive public that appreciates the importance of mining and minerals in their everyday lives and how they enhance their standard of living.

The ABET program and Professional Engineers Exam Program (PE) continue under the support of the SME Foundation, with volunteers that are truly dedicated to

the missions of those programs.

We are also pleased to announce a new scholarship endowment in 2012 — the J.H. Fletcher Scholarship will be awarded for the first time at the 2013 SME Annual Meeting. The SME Foundation oversees the awarding of several scholarships for undergraduates. This is an area that is expanding, and we would like to see more corporations and individuals make these monies available to students through the auspices of the SME Foundation.

With all of this, we continue to need your support. We welcome your financial contributions. But it's not just about the money. The time and talents of our volunteers and staff really make the organization top quality.

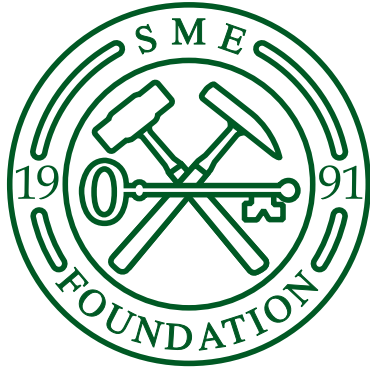
If you would like more information on any or all of the programs the SME Foundation supports, visit our website or contact AnnMarie Estrada at estrada@smenet.org or 303-948-4239. She is ready to assist you any time.

I give a big thanks for your continued response to our requests and for the time and talents you contribute to our projects.

Thank you.



Barbara J. Arnold
SME Foundation President



The mission of the SME Foundation (SMEF) is to further scientific, technical and educational programs, and to be the primary resource of mining and underground construction information for all stakeholders. We achieve these goals through the K-12 curricula and community outreach of the Minerals Education Coalition (MEC), numerous scholarships, accreditation of our mining schools through our participation in ABET (formerly the Accreditation Board for Engineering and Technology), and mining and minerals processing Professional Engineers (PE) licensure.

SMEF expanded exponentially during 2012. The Foundation now has three full-time professional staff members devoted exclusively to the fundraising and development of the Foundation's causes and objectives. In addition, the MEC program has three full-time staff members whose expertise lies in education; two staff members who administer the PE program; one staffer who manages the ABET program and hundreds of SME member volunteers who devote countless hours to the implementation of these programs.

The SMEF web pages, online community and interactive social media sites have been enhanced and enriched with videos, photographs, blogs, event listings, news about our volunteers, contributors and staff,

as well as with opportunities to donate to your favorite Foundation programs. Please visit <http://community.smenet.org/SMEFoundation>.

The John T. Boyd Challenge has now been met by 50 individuals, companies, SME divisions, or other entities that have contributed gifts to the Foundation of \$10,000 or more individually or \$50,000 as an organization. Coming in 2013 is a new multi-tiered recognition program to highlight all donors in meaningful ways.

With assets of more than \$2.8 million, the Foundation is poised to grow and deliver. The SMEF is piloted by an engaged board of 42 trustees and five committees that provide advice, guidance and strategic planning for the Foundation's vision and goals. In addition to the executive committee, the Foundation's leadership includes:

- The Fundraising Committee, which works with the Foundation staff in the creation of programs to solicit donations from members and friends of the Society.
- The Scholarship Committee, which is responsible for the selection of the recipients of scholarships granted or administered by the Foundation.
- The Communications Committee, which is responsible for outreach of the Foundation to SME members by means of informational articles, as well as direct solicitations of support.
- The Nominating Committee, which nominates a slate of proposed trustees to fill any expired terms or other vacancies on the Board of Trustees.

Building on a successful feasibility study in 2011-2012, an ad hoc steering committee was formed in February. It has been working toward the launch of a multimillion

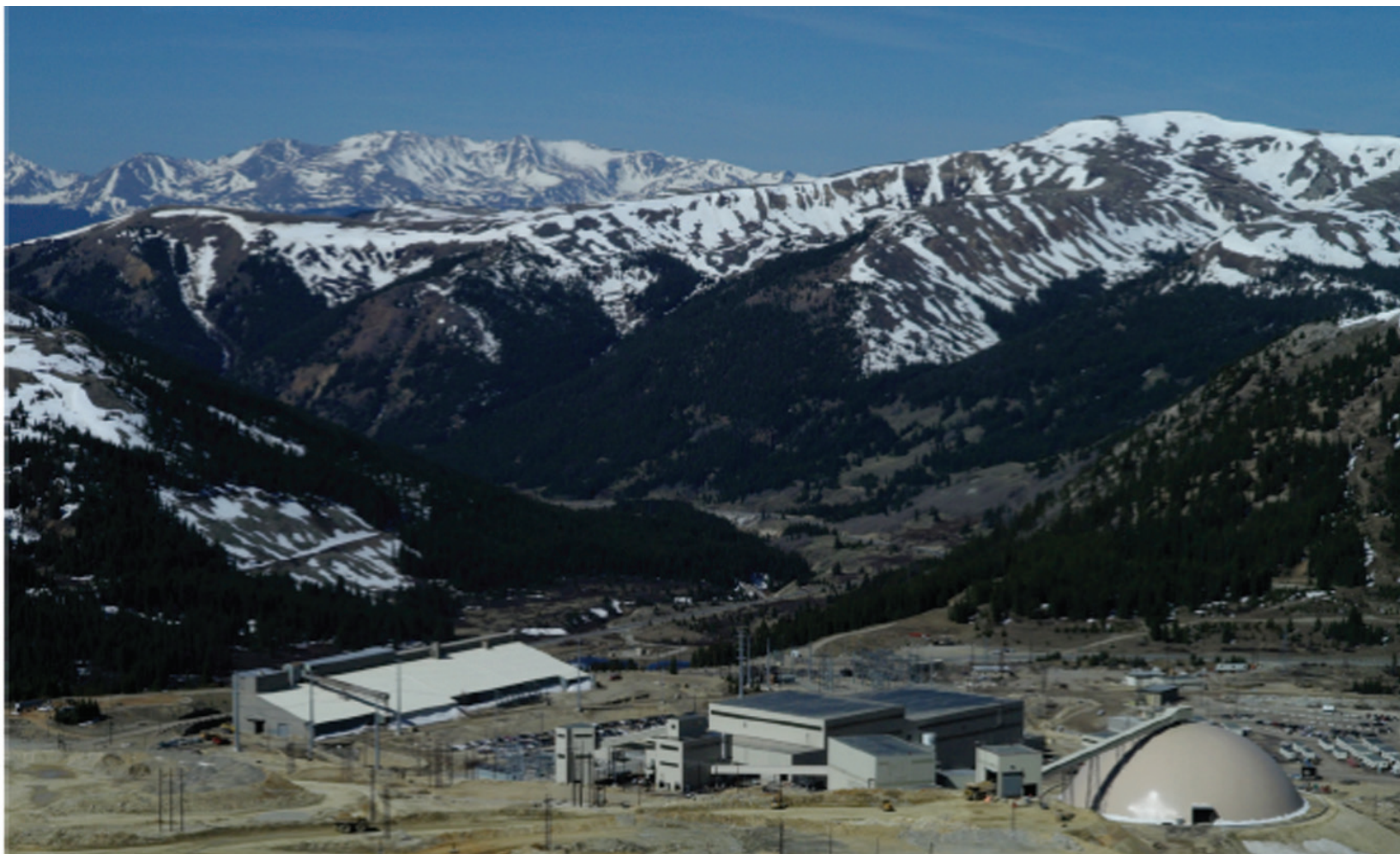
dollar campaign. This effort will grow the Foundation to new levels in the coming years.

Scholarships

SMEF scholarship-selection committees are comprised of SME member volunteers located throughout the country and are specific to each scholarship. In 2012, the MMSA/SMEF Past Presidential Scholarship awarded \$4,000 to Derrick Chambers of the University of Utah. The George V. Weisdack Memorial Scholarship is presented to a Pittsburgh Section university student continuing his or her education in the field of mining engineering; Blaise Bucha of the University of Pittsburgh was this year's recipient. Once it is fully funded, the Rong Yu Wan Memorial Research Award will grant scholarships in the field of metallurgical research. The J.H. Fletcher Scholarship, which was endowed in 2012, will award its first scholarship in February

2013 at the SME Annual Meeting.

The \$1,000,000 McIntosh Engineering Scholarship Fund provides funding for various projects, activities and scholarships that promote, develop and stimulate an interest in underground mining. The Syd S. Peng Ground Control in Mining Award provides recognition to individuals who have demonstrated technical and scientific excellence in advancing the understanding of ground control technologies; the 2012 recipient of this award was Dr. Bruce Hebblewhite of Sydney, Australia. The Syd S. & Felicia F. Peng Ground Control in Mining Scholarship encourages the development of ground control engineers. At the 2012 Annual Meeting, four recipients received Peng scholarships of \$5,000 each: Jonathan J. Zittel, University of Nevada-Reno; Morgan Montana Sears, West Virginia University; Muhammad Azeem Raza, Missouri University of Science and Technology and Todd Ray Kostecki, Southern Illinois University Carbondale.



SME Foundation Minerals Education Coalition



The Minerals Education Coalition (MEC) was designated the K-12 education and public awareness and outreach program of the SME Foundation in September 2011. It is the successful merger of SME's Mineral Information Institute (Mii) and Government, Education and Mining (GEM) programs.

Several distinct, yet equally important groups are the targeted audiences for the activities of the MEC, specifically:

- K-12 students, who are the consumers of the future and potential employees of the mining industry.
- Teachers of K-12 students, who will provide the knowledge and skills needed to provide factual and meaningful instruction and experiences for youths.
- SME members in sections who locally provide accurate and significant educational activities for K-12 students and the general public.
- The general public, who are the beneficiaries of mining and minerals in their lives.

MEC Committee

The MEC Committee has 14 members, with Mike Sheahan serving as chair and Pam Wilkinson as vice chair. During this first year, the committee adopted a document, "Guiding Principles," to detail the vision, mission, goals, governance structure and expectations of the MEC. Members held two in-person meetings and two conference calls, determined that three MEC awards would be made at the SME 2013 Annual Meeting, assisted with fundraising and public outreach as appropriate on behalf of the MEC, and provided leadership, guidance and coordination with other SMEF committees.

MEC branding campaign

MEC adopted a logo and new website design. An online survey was conducted on behalf of the MEC Branding Campaign from July 18-30, 2012. A total of 756 individuals were invited to participate; everyone in the 2012 SME Blue Book, SME staff and educators in the Mii database who had purchased materials in the past three years. There were 178 completed surveys for a 24-percent response rate. Based on the results of the survey, MEC staff and in-house SME staff designed our "Mining Mountain" logo, which was adopted by the MEC committee.

The MEC website, www.MineralsEducationCoalition.org, is now online. MEC staff is working with our web developer to have the site fully operational in February 2013.

MEC Mission:

The Minerals Education Coalition's mission is to provide direction and oversight of SME's fact-based K-12 minerals education activities from development to distribution and to inform and educate the general public about the importance of mining in their everyday lives.

K-12 curriculum projects

SMART board lessons. Three lessons using SMART technologies, copper, lead and halite, were developed and posted on MEC's website. They were reviewed by teachers and industry experts for instructional and content accuracy.

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, bicycles and soccer equipment) were used to teach about the minerals required to produce each item.

Updates to current content. The 2012 "Minerals Baby" and "Annual Usage" fact sheets were posted on the MEC website. Other Mineral Information Institute pages have also been updated and/or reformatted to now reflect the MEC. Staff has started to sort out lessons and activities in the Mii portfolio by grade spans K-2, 3-5, 6-8 and 9-12 so that they will be easily accessed by teachers according to their needs. Materials that are no longer accurate will be discarded.

Copper in our Electrical World (Video). MEC has partnered with the Edison Tech Center to produce a video about the critical need for copper in our electrical world. The video will cover aspects of locating, extracting, processing, transporting and using copper in manufacturing products related to electricity, particularly copper's conductivity properties from light bulbs to high technology needs. The audience for the video will be high school students and the general public. Pending the success of the copper video, plans include extending this program to additional videos featuring other minerals involved in electrical products.

MEC outreach projects

Outreach communications. Monthly updates and feature items about the MEC have been included in *Mining Engineering* magazine, as well as several of SME's eNews blasts sent to members electronically.

2012 National Science Teachers Association (NSTA) area conferences. Each year, the MEC participates in three 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.



BOY SCOUTS OF AMERICA®

Boy Scouts of America 2013 Jamboree. The Boy Scouts of America has designated SME to be the lead organization for the development of a mining-related merit badge. This unprecedented opportunity gives us the responsibility of ensuring a factual and comprehensive program of instruction to motivate scouts to fulfill all the requirements necessary to earn a merit badge based on mining's key components of exploration, permitting, excavation, processing, production and reclamation. Our commitment is to meet the rigorous requirements of the BSA and to give each boy and girl in scouting the kind of life-changing experiences that will remain with them into adulthood and throughout their lifetime.

The SME Professional Engineers Exam Committee prepares problems for the Mining and Mineral Processing (M/MP) engineering examination for licensure as a Professional Engineer. The exam consists of 80 multiple-choice questions and is offered once each year, in October. The committee sends problems and solutions to the National Council of Examiners for Engineering and Surveying (NCEES), which formats the exam and transmits it to the individual jurisdictions for administration. For years 2005 through 2011, examinee count equaled 47, 49, 42, 47, 71, 70 and 79, respectively.

As of Oct. 13, 2012, three examinations had been assembled. The October 2013 exam was submitted to NCEES in June 2012 and was pretested by the PE Exam Committee at its meeting during the SME Annual Meeting in Denver, CO. The October 2014 examination is assembled and was submitted to NCEES for the start of the QC/QA process on Oct. 11, 2012. The preparation cycle for each exam is a minimum of 18 months in advance after receipt by the NCEES.

The 2012 exam was the fourth exam under the new specification completed in 2008 as part of the periodic PAK study and cut-score analysis, the method of calibrating examinations every seven years. The M/MP specification and exams are performing well, as evidenced by the low count of problems flagged for review, which for the 2011 exam numbered two. As part of the PAKS process, a new study guide, *Study Guide for the Professional Licensure of Mining and Mineral Processing Engineers*, seventh edition, was developed in 2010 and continues to be used. This SME book has been updated and is in its second printing.

The SME PE Exam Committee participated in the cyclic review and update of the FE (EIT) examination by assisting in the compilation of survey questions in August 2011. Committee members

participated in January 2012 in the follow-up to the survey results. These members were Ted Wilson and Kelvin Wu.

The review course for the 2012 exam was held in Denver in September 2012, under Dr. Raja Ramani's direction. Approximately 38 engineers completed the review course, versus 56 and 40 for the previous two years. Feedback from the participants was favorable. Revenue generated by tuition more than covered the cost of conducting the review course.

The SME PE Exam Committee Coordinator attended 2012 Examinations for Professional Engineers (EPE) NCEES meetings in Clemson, SC, and Atlanta, GA in February and October 2012, respectively. These meetings report on the results of the 2011 exam and the status of SME's activities related to future exam question preparation. The Jan. 18-19 2013 EPE meeting in Clemson, SC, was attended by the coordinator.

The EPE committee is composed of 16 appointed professional engineers who represent the state boards of professional registration. The states have the legislative authority to license engineers, doctors, lawyers and other professionals. At the Oct. 12-13, 2012 meeting, the EPE made the following major decisions:

1. The PE exam will be transformed to computer-based testing (CBT) from pad and pencil. The FE (EIT) exam has already been transformed to CBT with the last pad-and-pencil examination to be done October 2013.
2. The references utilized for the PE examination will be transformed to electronic-based.

The SME PE Exam Committee continued participation in monthly meetings of the Licensing That Works Committee. This committee is composed

Continued on page 35

ABET is a nonprofit, nongovernmental organization that accredits college and university programs in the disciplines of applied science, computing, engineering, and engineering technology. ABET accredits more than 3,100 programs at more than 670 colleges and universities in 24 countries.

ABET provides specialized, programmatic accreditation that evaluates an individual program of study, rather than evaluating an institution as a whole. ABET is an organization made up of societies, rather than individuals, as its members. These member societies join ABET so they can collaborate to review and accredit degree programs in the fields they represent. In addition, these societies recruit and help to train the 2,000 volunteers who carry out ABET's accreditation activities.

ABET serves the public globally through the promotion and advancement of education in applied science, computing, engineering and engineering technology.

The SME Visitor Selection Committee was asked to perform six accreditation visits during the fall of 2012. The visits were as follows:

- Colorado School of Mines - Mining Engineering Program (B.S.) was visited by Raj Ramani on 10/20/2012 - 10/23/2012.
- Colorado School of Mines - Geological Engineering (B.S.) was visited Eric P. Sprouls 10/20/2012 - 10/23/2012.
- Colorado School of Mines - Geophysical Engineering (B.S.) was visited by Rick Honaker on 10/20/2012 - 10/23/2012.
- Mississippi State University - Geology Criteria Only (B.S.) was visited by Jerry Higgins and Paul Jewell on 9/30/2012 - 10/2/12.
- Pennsylvania State University - Fayette Campus - Mining Engineering was visited by: David Eyer on 10/21/2012 - 10/23/2012.
- University of Wisconsin - Madison - Geological (B.S.) was visited by Joel Kuszmaul on 11/11/2012 - 11/13/2012.

All accreditation visits are complete at this time. Reports and evaluations for the visits are being prepared and will be presented to the ABET Visitor Selection Committee for review.

PE Exam

Continued from page 34

of engineering societies that oppose an initiative by various concerns to increase the educational credential for becoming a Professional Engineer from a Bachelor's degree to Master's or Equivalent (MOE). In 2012, SME PE Exam Committee members voted to continue to oppose the MOE initiative.

As of Oct. 11, 2012, 425 problems are in the bank for use on future exams, and 50 problems are in various stages

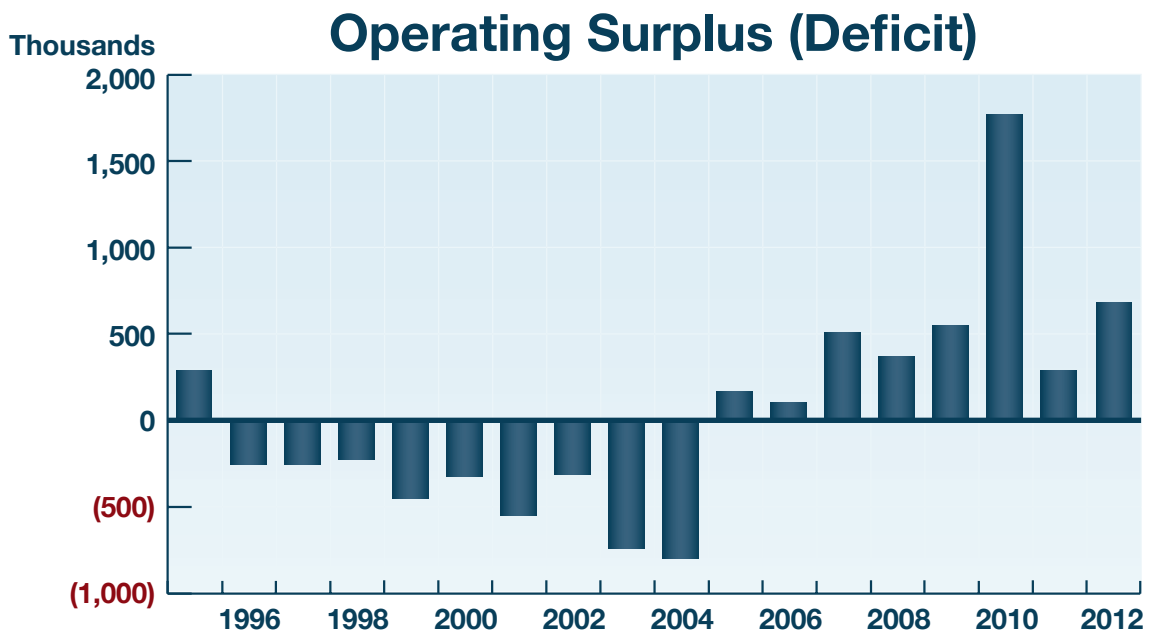
of review (three reviews + one final review) required before submittal to the bank. The 425 problem count is up from 401 banked problems as of Dec. 31, 2011. The 40-member SME PE Exam Committee performs excellently in writing and reviewing problems. This is most important, as each PE examination requires a minimum of 20 new problems (25 percent of the 80 multiple choice examination).

Jamal Rostami will chair the committee in 2013. Michael Schlumpberger is the chair-elect for 2014.

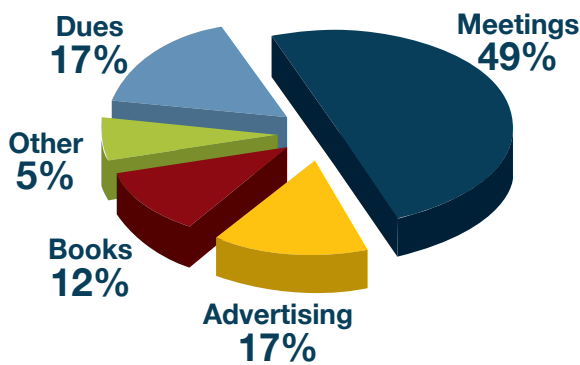
During 2012, all operational areas of the Society's revenue improved over 2011 and over budget. It marks the eighth consecutive year of operational surplus, in spite of the costs of carrying two headquarter buildings.

Aggressive management of SME continues to look for opportunities, and a willingness to work with others has translated to a better financial position for SME.

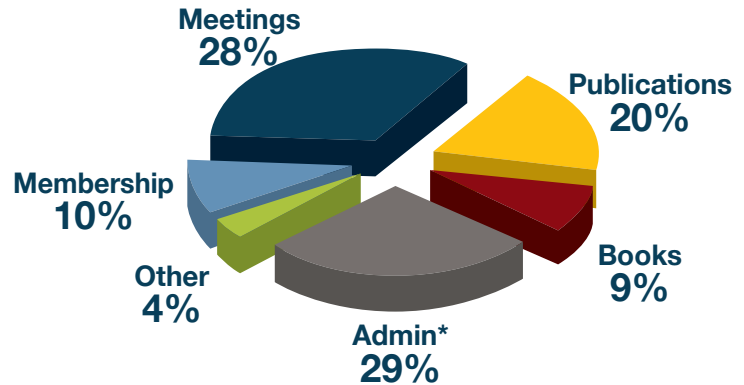
Net assets for all entities of fiscal year 2012 exceeded \$21 million.



Operating Revenue (Sources)



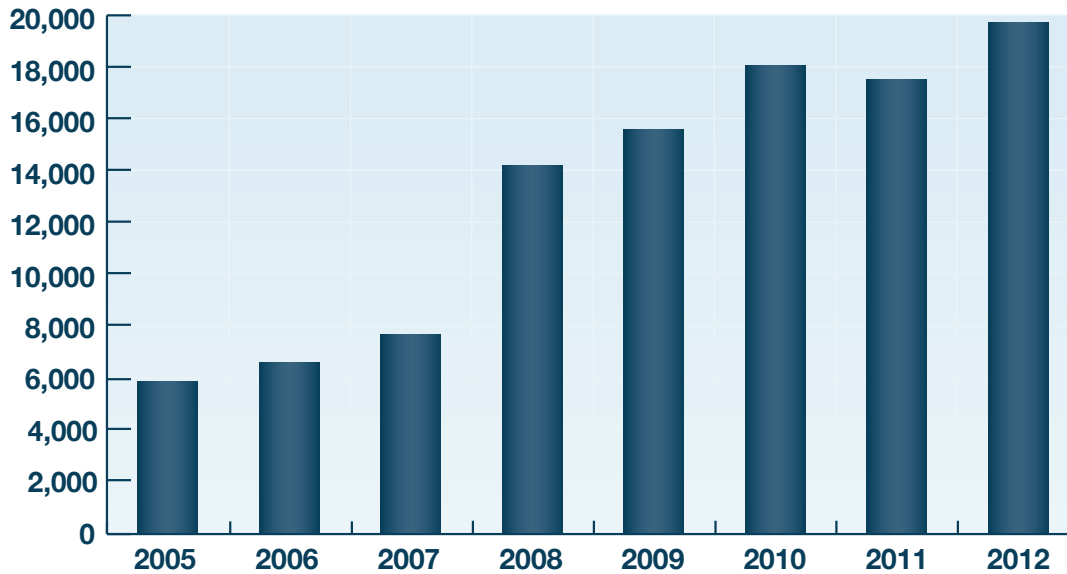
Operating expenses



* Admin includes: Administration, accounting, customer service, IT, government affairs and Web activities.

Thousands

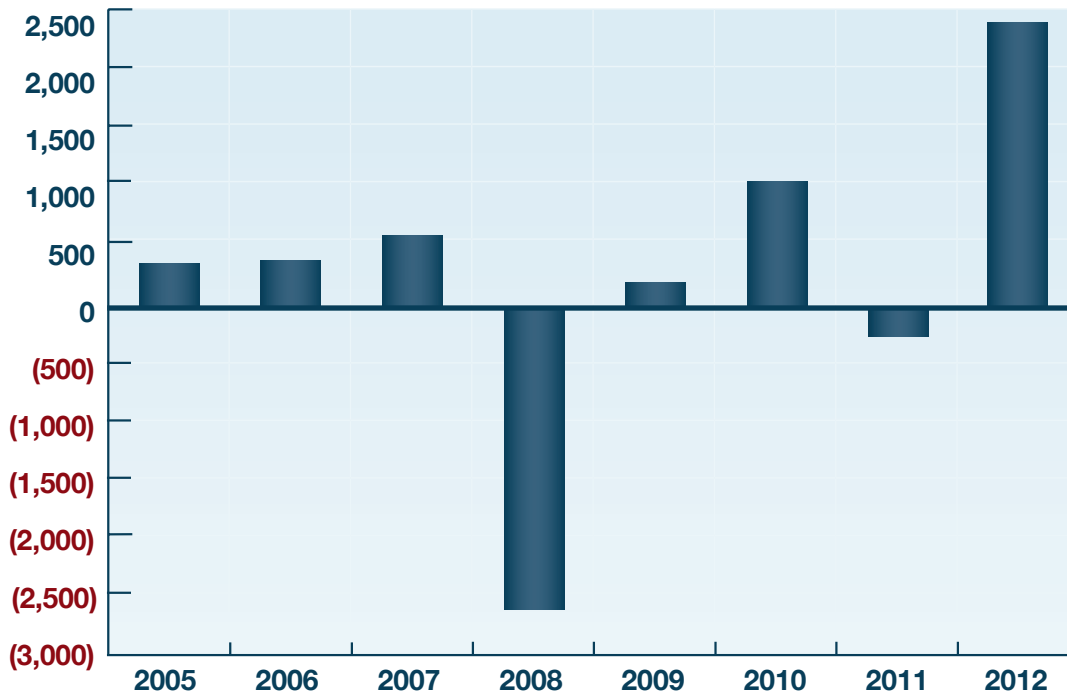
Cash and Investments



WAAIME merger with SME in 2008 included \$8.2 million in new investment dollars. Approximately \$12.1 million of investments are restricted for specific activities of the SME Foundation, SME division activities and WAAIME scholarships.

Thousands

Investment Income (Loss)



SME Past Presidents

(Living as of 12/31/12)

- John N. Murphy** (2011)
- Nikhil C. Trivedi** (2010)
- William H. Wilkinson** (2009)
- George W. Luxbacher** (2008)
- James R. Arnold** (2007)
- Brij M. Moudgil** (2006)
- Barbara A. Filas** (2005)
- Arthur A. Schweizer** (2004)
- Thomas J. O'Neil** (2003)
- Michael Karmis** (2002)
- Ta M. Li** (2001)
- Donald E. Ranta** (2000)
- James W. Boyd** (1999)
- Ihor A. Kunasz** (1996)
- Raja V. Ramani** (1995)
- Robert C. Freas** (1994)
- Mark A. Anderson** (1992)
- Ted H. Eyde** (1991)
- Roshan B. Bhappu** (1990)
- Robert E. Murray** (1989)
- Haydn H. Murray** (1988)
- Thomas V. Falkie** (1985)
- Robert S. Shoemaker** (1978)
- H. R. Spedden** (1970)

AIME Awards

- Hal Williams Hardinge Award ····· Sarkis G. Ampian
- Erskine Ramsay Medal ····· Michael Karmis
- Robert H. Richards Award ····· Nick Hazen
- William Lawrence Saunders Gold Medal ····· Ronald W. Thiessen
- Mineral Economics Award ····· Roussos Dimitrakopoulos
- Frank F. Aplan Award ····· Barbara J. Arnold
- Charles F. Rand Memorial Gold Medal ····· Arthur A. Schweizer
- Rossiter W. Raymond Award ····· Timothy W. Beck
- Robert Earl McConnell Award ····· Larry A. Watters
- James Douglas Gold Medal ····· Patrick R. Taylor
- AIME Honorary Member ····· Nikhil C. Trivedi

SME Awards

- SME Distinguished Member ····· Kadri Dagdelen
- SME Distinguished Member ····· Raymond W. Henn
- SME Distinguished Member ····· Tim O'Neil
- SME Distinguished Member ····· Harry M. Parker
- Robert M. Dreyer Award ····· Daniel Wood
- Outstanding Student Chapter ····· University of Kentucky
- President's Citation ····· Red Conger
- President's Citation ····· Gary L. Skaggs
- President's Citation ····· Rick Whiting
- President's Citation for Local Section Service ····· Richard M. Katz
- Ivan B. Rahn Education Award ····· Richard J. Sweigard

SME Foundation Awards

- MEC Higher Education Campus Award ····· University of Kentucky
- MEC Leadership Award ····· Richard Beach
- MEC Partnership Appreciation Award ····· Mining Foundation
of the Southwest
- Syd S. Peng Ground Control in Mining Award ····· Bruce Hebblewhite

2012 awards and scholarships were presented to recipients on Feb. 22 at the 2012 SME Annual Meeting dinner at the Sheraton Seattle Hotel, Seattle, WA.

SME Division Award Recipients

Coal & Energy Division Awards

Distinguished Service Award	Jürgen F. Brune
Howard W. Eavenson Award	Pramod C. Thakur
Stefanko Best Paper Award	Andrew B. Cecala, John A. Organiscak, and James D. Noll
Erskine Ramsay Medal	Michael Karmis
J.W. Woomer Young Engineer Award	Kramer D. Luxbacher
Coal & Energy Division Past Chair Award	Joseph C. Zelanko

Environmental Division Awards

Distinguished Service Award	Robert W. Reisinger
Environmental Division Chair Award	Patrick T. Williamson

Industrial Minerals & Aggregates Division Awards

A. Frank Alsobrook Distinguished Service Award	Robert J. Pruett
Hal Williams Hardinge Award	Sarkis G. Ampian
Young Scientist Award	Vishal Gupta
Robert W. Piekarcz Award Aggregates	Michael D. Sheahan
Robert W. Piekarcz Award Industrial Minerals	Candace A. Trimble
Industrial Minerals & Aggregates Division Past Chair	Mark J. Zdunczyk

Mineral & Metallurgical Processing Division Awards

Antoine M. Gaudin Award	Graeme J. Jameson
MPD Outstanding Young Engineer	Lisa R. Schlink
Robert H. Richards Award	Nick Hazen
Arthur F. Taggart Award	Glenn Hoffman and S. Jayson Ripke
Milton E. Wadsworth Award	Jan D. Miller
Millman Poem (MPD Past Chair Award)	S. Jayson Ripke

Mining & Exploration Division Awards

Ben F. Dickerson Award	Thomas C. Patton
Distinguished Service Award	William A. Warfield
Daniel C. Jackling Award	Edward C. Dowling
Miner of the Year Award	Cherie M. Tilley
Young Professional Award	Elaina M. Ware
Robert M. Peele Memorial Award	Ananta Lakshmi Yennamani
Rock Mechanics Award	Mark P. Board
William L. Saunders Gold Medal	Ronald W. Thiessen
Mining & Exploration Division Past Chair	Steven C. Holmes

UCA of SME Division Awards

Lifetime Achievement	Richard Lovat
Outstanding Educator	Edward Cording
Outstanding Individual	James Marquardt
Project of the Year	East Side Sewer Overflow

Coal & Energy Division Scholarships

Ashleigh J. Mitchell, *New Mexico Institute of Mining and Technology*
 Austin Jarvis James Brock, *University of Kentucky*
 Crystal K. Darger, *University of Utah*
 Julia Elizabeth Reichardt, *West Virginia University*
 Lucas Michael Tolley, *Southern Illinois University Carbondale*
 Maureen Phifer, *Montana Tech*
 Mindona Krzykowski, *University of Alaska Fairbanks*
 Patrick Niemuth, *Missouri University of Science and Technology*
 William R. Thomas, *Virginia Tech*

John Sidney Marshall Memorial Scholarship (AIME/Coal & Energy Division)

Colton Chase Parsons, *University of Kentucky*
 Darryl Smith, *Southern Illinois University*
 Hannah McNally, *Missouri University of Science and Technology*
 Jack Maxey, *Virginia Tech*
 Jake Jeffryes, *Missouri University of Science and Technology*
 William O. Walker, *University of Kentucky*

Environmental Division Scholarships

Hamid Akbari, *Southern Illinois University Carbondale*
 Jonathan Horton, *Virginia Tech*

Veolia Water Solutions and Technologies Scholarship (Environmental Division)

John Kushneryk, *Dalhousie University*

Gerald V. Henderson Memorial Scholarship (Industrial Minerals & Aggregates Division)

Russell Jones, *Virginia Tech*

Richard Klimpel Memorial Scholarship (Mineral & Metallurgical Processing Division)

Timothy Kiley, *University of Nevada-Reno*

Mineral & Metallurgical Processing Division Scholarships

Claire Leuschen, *South Dakota School of Mines and Technology*
 Hamid Akbari, *Southern Illinois University Carbondale*
 Joseph Grogan, *Colorado School of Mines*
 Kristie Peloquin, *Queen's University*
 Michael MacArthur, *Queen's University*
 Sadegh Safarzadeh, *University of Utah*

Mining & Exploration Division Scholarships

Ashleigh J. Mitchell, *New Mexico Institute of Mining and Technology*
 Chelsea Pomeroy, *Colorado School of Mines*
 Justine Victoria Sorensen, *South Dakota School of Mines and Technology*
 Simon Ortega, *University of Alaska Fairbanks*
 Tyler Joseph Morgan, *University of Arizona*

Eugene Pfeider Memorial Scholarship (Mining & Exploration Division)

Andrew Crook, *University of British Columbia*

Steven C. Potter Scholarship (Mining & Exploration Division)

Erica Key, *University of Nevada-Reno*

Henry DeWitt Smith Scholarship (AIME/Mining & Exploration Division)

Caelen Anderson, *Colorado School of Mines*

Stewart R. Wallace Memorial Scholarship

Erica Key, *University of Nevada-Reno*

SME Foundation Scholarship Recipients

J.H. Fletcher & Co. Scholarship

Andrew Nielsen, *University of Utah*
 Hannah McNally, *Missouri University of Science and Technology*

McIntosh Engineering Scholarship

Colton Parsons, *University of Kentucky*
 Simon Ortega, *University of Alaska-Fairbanks*
 Kyle Lindahl, *Colorado School of Mines*

MMSA/SMEF Presidential Scholarship

Tyler Joseph Morgan, *University of Arizona*
 William O. Walker, *University of Kentucky*

Syd S. and Felicia F. Peng Ground Control in Mining Scholarship

Biao Qiu, *West Virginia University*
 Donovan J. Benton, *Southern Illinois University Carbondale*
 Sean Warren, *University of Nevada-Reno*
 Xu Ma, *Virginia Polytechnic Institute & State University*

See page 28 for a list of all 2012 WAAIME scholarship recipients.





**12999 East Adam Aircraft Circle
Englewood, Colorado 80112 USA
1-800-763-3132 · sme@smenet.org
www.smenet.org**