

# SME

The background of the entire page is a blue-tinted aerial photograph of an industrial plant. The plant features a complex network of metal walkways, stairs, and pipes. In the foreground, there is a large, dark, textured area that appears to be a conveyor belt or a large pile of material. Several white vehicles, including cars and a forklift, are visible within the facility. The sky is a clear, light blue.

**2011**  
**ANNUAL**  
**REPORT**

# 2011 SME ANNUAL REPORT

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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.



**John N. Murphy**

2011 SME President

It is my pleasure to share with you some highlights of the past year in this inaugural issue of the SME Annual Report. SME continues to grow – both in membership numbers and in the quality and quantity of products and services delivered to our members. These outcomes are the result of a great team effort. Many members and the staff devote their skills and countless hours to the realization of the SME purpose “To be THE resource and advocate for the mining community.” As members, we should all be thankful for an effective and dedicated team.

Looking forward, a common issue looming for SME and the mining and minerals industries is the advanced age of the majority of the membership and industry workforce. With pending retirements, the expected change in the demographics of future SME members and industry employees will be significant. The majority of SME members are more than 50 years of age. The demographics for the industry workforce (professional and technical) are very similar. A recent study commissioned by SME and partners for the National Academy of Engineering shows that, by 2029, the mining industry will have to replace at least 61 percent of the workforce (professionals and skilled technical personnel). Hence, the opportunities for professionals in the 18- to 35-year age group are very positive. Consistent with the expected shift in demographics, it is important that SME attract and engage younger professionals and ensure that the SME products and services are relevant to younger members. The SME Young Leaders group is dynamic and is facilitating the movement of younger members into SME governance, and the recently introduced electronic products are designed to be responsive to the needs and interests of our younger members.

While health and safety must always be a key focus area, learning from past experiences is crucial at times when there are dramatic changes in the workforce, as these changes increase the risk for potential accidents, primarily due to lack of experience. With the expected high turnover in personnel in the industry, all involved need to be extra diligent to ensure the safety (and health) of the influx of new employees. New SME programming will help all who work to ensure that their work places are safe.

During the past year, I have sought to increase the liaison and dialogue with the section leadership. Dave Kanagy, SME Executive Director, and I have either visited or held conference calls with the majority of the section leadership teams. While we are still researching the best means to address some of the most common needs and suggestions, it is clear that, where feasible, SME headquarters should seek to facilitate quality programming at the section meetings and to assist with some items in the e-commerce area. More details will be forthcoming soon. The SME sections are an essential component of SME, and we need to ensure that the vitality of the sections is maintained.

As we learned of section programs, I was struck by the effective and ambitious GEM programs in some sections and the lack of GEM-related activities in other sections. As we seek to help address the issue of a lack of understanding of the essential role of minerals to a viable economy, national security and quality of life, we need to explore the feasibility of more GEM-related activities in the sections.

From an organizational perspective, SME has refined or enhanced operations in several areas:

We have continued to grow the Government Affairs and Public Policy Committee (GPAC). SME created GPAC to help leverage the expertise of its membership to create a system for providing timely, accurate, fact-based, nonpartisan technical information in response to urgent inquiries from SME stakeholders on topics concerning mining, minerals and extractive industries. Readers can learn more at [www.smenet.org/gpac](http://www.smenet.org/gpac).

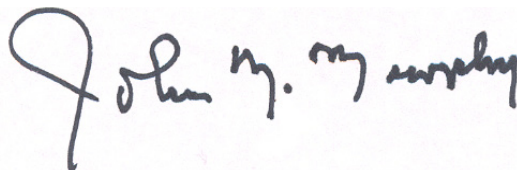
Following the recommendations of an ad hoc committee, we are consolidating the functions and leadership of the GEM program and the Minerals Information Institute under a new Minerals Education Coalition. It is essential that we optimize our outreach efforts, and I believe that this consolidation will help ensure that outcome.

On the fiscal side, I am pleased to report that the SME Foundation, under the leadership of Barbara Arnold, continues to grow. The Foundation is developing some exciting new plans that will be presented in the coming months.

I am also pleased to report that under the leadership of SME Executive Director Dave Kanagy, SME continues to have great fiscal stability (see pages 44-45).

In summary, it has been a pleasure and a privilege to be part of the SME Team that has moved SME along the path defined by the strategic plan. It is important that SME remains responsive to a changing technology base, a dynamic regulatory environment, and the coming change in demographics of members and the professionals in the industry.

As I turn the leadership over to the 2012 SME President Drew Meyer, I am certain that the SME Team will give him the same great support that I have received. Thanks and best wishes for the Team's continued success!





**David L. Kanagy, CAE**  
SME Executive Director

**A**s a stakeholder in the Society for Mining, Metallurgy, and Exploration, Inc. and its various entities, I hope that you will enjoy this new SME Annual Report that provides details on all aspects of the Society. This replaces the little-read and under-distributed annual Executive Director's report. We thought this might be a better method to communicate the changes in the Society during 2011 and to highlight some important products and services that SME has become known for in the mining industry.

I think the most exciting news this year is the growth in membership, as SME topped 14,000 members again. This shows that the changes our governance made several years ago, to become more relevant to all aspects of the mining community, continue to pay dividends. More people have become interested in SME activities and products and are willing to invest their time and money in the Society. We will continue to listen to our members and other stakeholders and invest in programs that are of most interest.

The SME Strategic Plan continues to be a guide for the leadership as SME becomes THE resource and advocate for the mining community. The five goals outline our plans until 2016 as we aggressively address the needs of the members and the organization.

The most visible change in 2011 is the relocation of the SME office. In March 2011, SME moved into a new headquarters building to better serve members and provide more space for the expanding activities of the Society. And, if you haven't seen the office, maybe you've seen the expanded SME Community on the SME website ([www.community.smenet.org](http://www.community.smenet.org)), which began in September 2011, or the new e-learning programs begun in June 2011. These programs will continue to help expand the knowledge transfer for professionals both inside and outside of the SME membership. And, of course, what is becoming an old program for the Society, OneMine.org, now has more than 97,000 documents totaling 1,336,301 searchable pages for members' use. This includes documents from The Minerals, Metals & Materials Society (TMS), Deep Foundations Institute (DFI), The Australasian Institute of Mining and Metallurgy (AusIMM), and The Southern African Institute of Mining and Metallurgy (SAIMM), plus material from the U.S. Bureau of Mines (USBM) and National Institute for Occupational Safety and Health (NIOSH).

During 2011, SME was engaged in a host of international activities including participation in several international conferences and shows in Mexico, Finland, Canada, Brazil and Peru. In addition, SME President John Murphy and I had the opportunity to visit with

members and staff of the Peru Mining Engineers Society (IIMP), Institute of Materials, Mining and Metallurgy (IOM3), the Southern African Institute of Mining and Metallurgy (SAIMM), the Australasian Institute of Mining and Metallurgy (AusIMM) and the Canadian Institute of Mining, Metallurgy and Petroleum (CIM). As SME moves forward, we are finding more members recognizing SME as one of the world's premier Societies.

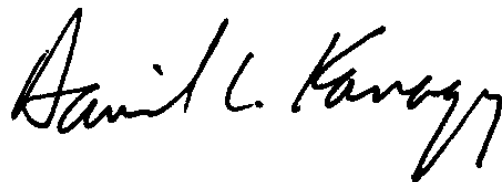
During 2011, SME made a significant commitment to improving the representation the mining engineering community receives for its professionals, with new committees and staff dedicated to government affairs. SME wants to ensure that its members' interests are represented with a thorough dialogue on the data and facts about engineering, mineral processing and geology.

We also began a process to improve our public outreach programs. SME has combined its GEM Program and Minerals Information Institute to form the Minerals Education Coalition. Countless hours by volunteers and staff will go into making these viable and relevant programs for SME members, which will hopefully make a positive impact for the mining community. Education of the important elements of mining and minerals is mandatory if we are to convince others that mining is critical to global economic viability and our sustained lifestyles.

Finally, SME, at the request of the National Academies of Science, participated in a research project during 2011 to understand the workforce changes that will affect our industry during the next 18 years. Along with the National Mining Association (NMA), the National Stone, Sand, & Gravel Association (NSSGA) and the Industrial Minerals Association of North America (IMA-NA), this report highlights the significant changes the industry will face during those 18 years with a minimum of 61 percent of the industry workforce being replaced. I encourage you to get the report on the SME website ([www.http://smenet.org/store/mining-books.cfm/Emerging-Workforce-Trends-in-the-US-Mining-Industry/GPAC-EWT](http://smenet.org/store/mining-books.cfm/Emerging-Workforce-Trends-in-the-US-Mining-Industry/GPAC-EWT)), its \$50 for SME members and \$150 for nonmembers, and read it.

2011 was a great year for SME, and I suspect that 2012 will be as challenging and ultimately rewarding as we continue to move the organization forward.

Enjoy this inaugural Annual Report from SME.





**John N. Murphy**  
2011 SME President  
McGowan Institute  
University of Pittsburgh



**Drew A. Meyer**  
President-Elect  
Drew Meyer Consulting Inc.



**Nikhil C. Trivedi**  
Past President  
Idekin International



**Bill A. Hancock**  
Director  
Zeroday Enterprises LLC



**Robert W. Schafer**  
Director  
Hunter Dickinson Inc.



**Barbara J. Arnold**  
Director  
PrepTech Inc.





**Thomas F. Peyton**

Director  
Parsons Brinckerhoff



**Joseph M. Driscoll**

Director  
Great Basin Gold



**Jonathan G. Price**

Director  
Nevada Bureau of Mines



**David L. Kanagy**

Secretary and Treasurer  
SME

## 2012-2013 Incoming Board Members



**Jessica Elzea Kogel**

2013 SME President  
Imerys Pigments & Additives Group



**Marc A. Herpfer**

Director  
Oil Dri Corporation of America



**Hugh B. Miller**

Director  
Colorado School of Mines

## Outreach Strategic Committee

**Thomas F. Peyton**  
Chair, Parsons Brinckerhoff

**Gary M. Buchan**  
Member, Alpha Natural Resources Inc

**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

**Todd S. Harris**  
Member, MineSet Partners LLC

## Finance Strategic Committee

**Robert W. Schafer**  
Chair, Hunter Dickinson Inc

**Ross R. Bhappu**  
Member, RCF Management LLC

**Edward C. Dowling Jr.**  
Member, Alacer Gold Corp

**William W. Edgerton**  
Member, Jacobs Associates

**Lok Home**  
Member, The Robbins Co

**James D. Humphrey**  
Member, Caterpillar Inc

**Michael T. Myers**  
Member, Baldor Electric Co

## Education & Professional Development Strategic Committee

**Jonathan G. Price**  
Chair, Nevada Bureau of Mines

**Corby G. Anderson**  
Member, Colorado School of Mines

**Sukumar Bandopadhyay**  
Member, University of Alaska

**Ronel Kappes**  
Member, Newmont Mining Corp

**S. Komar Kawatra**  
Member, Michigan Tech University

**Gary L. Skaggs**  
Member, Agapito Associates Inc

**William R. Wilson**  
Member, New Horizon Uranium Corp

## Nominating Strategic Committee

**John N. Murphy**

Chair, 2011 SME President  
McGowan Institute, University of Pittsburgh

**Drew A. Meyer**

Chair-Elect, President-Elect,  
Drew Meyer Consulting Inc

**Bill A. Hancock**

Director, Zeroday Enterprises LLC

**Robert W. Schafer**

Director, Hunter Dickinson Inc

**Dennis P. Bryan**

Member, Western Lithium Corp

**David R. Gossett**

Member, CF Industries Inc

**S. Rick Gilbert**

Member, Freeport-McMoRan Copper & Gold Inc

**Ronald L. Parratt**

Member, Renaissance Exploration Inc

**Mary M. Poulton**

Member, University of Arizona

## Products and Services Strategic Committee

**Niccolle M. LaBranche**

Chair, NIOSH

**Joseph M. Driscoll**

Director, Great Basin Gold

**S. Rick Gilbert**

Member, Freeport-McMoRan Copper & Gold Inc

**Rick Honaker**

Member, University of Kentucky

**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 Strategic Committee

**Bill A. Hancock**

Chair, Director, Zeroday Enterprises LLC

**Douglas C. Peters**

Member, Peters Geosciences

**Samuel J. Shoemaker**

Member, Micon International Ltd

**Madan M. Singh**

Member, Singh Associates LLC

**Michael A. Trevits**

Member, NIOSH

**William H. Langer**

Member, US Geological Survey

**Jamal Rostami**

Member, Pennsylvania State University

## Committee Members

**John Marsden**, Chair (12)  
**George Robinson** (12)  
**Mike Kaas** (12)  
**Steve Gardner**, Vice Chair (13)  
**Fred Heivilin** (13)  
**Jon Kellar** (13)  
**David Klug** (13)  
**George Richardson** (14)  
**Catherine Dreesbach** (14)  
**Rick Deery** (14)  
**Dermot Winters** (14)  
**Mike Greeley** (14)

In 2011, SME hired a full-time Director of Government and Public Affairs (GPAC) to coordinate the government-related activities of SME and GPAC.

After surveying the SME membership, the committee created 56 different mining topic-specific expert panels to peer review technical briefing papers as they are developed by the committee. These expert panels are also a resource for SME to provide expert testimony, as requested, and be a technical resource for SME in responding to industry-related inquiries from the media, elected officials, the public and other industry stakeholders.

GPAC issued six technical briefing papers in 2011:

- Nuclear Energy
- Mine Safety
- Rare Earths
- Access to Public Lands for Mineral Exploration
- Meeting the World's Future Mineral Needs
- Improved Coordination to Ensure Responsible Mining
- Environmental Protection

GPAC has worked 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, DC; 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 the Senate Energy and Natural Resource Committee.

## MISSION

**The mission of the Government and Public Affairs Committee (GPAC) is to prepare and communicate appropriate, accurate, timely, fact-based technical information, both proactively and reactively, to ensure that the public and policymakers are well informed on important matters related to the mining profession.**

In related government affairs activities, SME was asked by the National Academy of Science's National Research Council to collect, analyze and report on the availability of skilled workers to meet the mineral security requirements of the United States. SME, working in collaboration with the National Stone, Sand & Gravel Association, the National Mining Association and the Industrial Minerals Association North America, presented the results of an analysis of emerging workforce trends in the mining industry to the National Academies' Board on Higher Education and Workforce in Washington, DC. SME's report addressed:

- The need for and availability of workers for the nonfuel minerals industries.
- The availability of skilled labor at both entry level and more senior levels.
- Recommendations for actions needed to meet future labor requirements.

SME has also participated in meetings with the Securities and Exchange Commission (SEC) in Washington, DC in an attempt to get the SEC to accept and incorporate SME's guide to mineral reserve reporting into a revised version of the SEC's Industry Guide 7.

Lastly, the committee created a Government Affairs and Public Policy landing page (<http://www.smenet.org/gpac/>) on the SME website. This webpage provides ready access to: active legislation affecting the mining industry; key federal reports and publications; House and Senate legislative committees; regulatory agencies, engineering and geoscience societies; SME Congressional correspondence; industry testimony; and SME's technical briefing papers. It also provides basic information to the SME membership and the general public on: how Congress works; how a bill becomes a law; how to communicate with a member of Congress; how to locate your member of Congress; how to track active legislation; and more.

**Prior to the 2011 SME Annual Meeting in Denver, CO, 61 SME and CMA volunteers participated in the Miners Give Back program. They spent an afternoon at the Food Bank of the Rockies, preparing about 500 boxes of food that were then distributed to those in need in the Rocky Mountain region.**



SME offers a superior package of benefits to its more than 14,000 members. SME members have access to the best news, information, research and education opportunities for free, or at a fraction of the cost paid by others for the same services. SME is continuously reviewing, enhancing and adding new benefits to help members save time and money, in addition to helping them connect with fellow industry professionals.

## OneMine.org

SME offers members unlimited access to OneMine.org - the most comprehensive online digital library for the minerals industry. OneMine.org is a collaborative effort by several professional associations around the globe and contains more than 97,000 books and documents dating from 1873 to the present.

## Online Membership Directory

Members receive unlimited access to the SME online Membership Directory containing more than 14,000 fellow professionals and industry experts with whom they can network and create new business opportunities.

## SME Sponsored Meetings and Short Courses

SME members receive substantial discounts to attend any of the multiple SME-sponsored meetings and short courses throughout the year featuring hundreds of educational sessions.

## Mining Engineering

SME provides members with a monthly subscription to *Mining Engineering* magazine, the foremost publication of the global minerals industry, providing timely feature and peer-reviewed technical articles, news and regular columns by experts. The regular subscription price for this publication is \$245 and members receive it for free!

## SME Bookstore

Offering one of the best and most comprehensive set of titles in the mining and minerals industry, SME gives members an average of 25% off 115 books from the SME Bookstore including more than 46 e-books.

## SME eLearning

The SME eLearning program provides virtual training on a variety of topics in the mineral and underground construction industries. The eLearning program offers course participants the opportunity to satisfy continuing education requirements and stay abreast of the latest technology and developments – all at a place and time convenient for them. SME members receive discount pricing for all courses.

## SME Community

SME offers members exclusive access to a professional community website featuring member-friendly content creation tools such as blogs, resource library submissions, ranking and commenting capabilities. Allowing members to freely submit, collaborate, and communicate online will empower governance groups, such as the regional boards, committees and sections, to more effectively work together.

## SME Local Sections

SME has more than 50 sections across the United States and around the world offering members a local opportunity to connect with SME and its fellow members at monthly or annual meetings.

## Career Site

Members have free access to the SME career site [www.miningjobs.com](http://www.miningjobs.com) where they can search and apply for jobs, announce positions, research companies and more.

## DATA METALLOGENICA

SME's newest benefit, Data Metallogenica is an online reference, training and educational resource and data repository, with more than 40,000 image and text files. SME has become a sponsoring organization of the service, so SME members now have unlimited access to this online encyclopedia of ore deposits for the one-year subscription rate of \$100 - 50% off the normal rate.



For the sixth consecutive year, SME has increased in membership. As of Dec. 31, 2011, SME membership was 14,086.

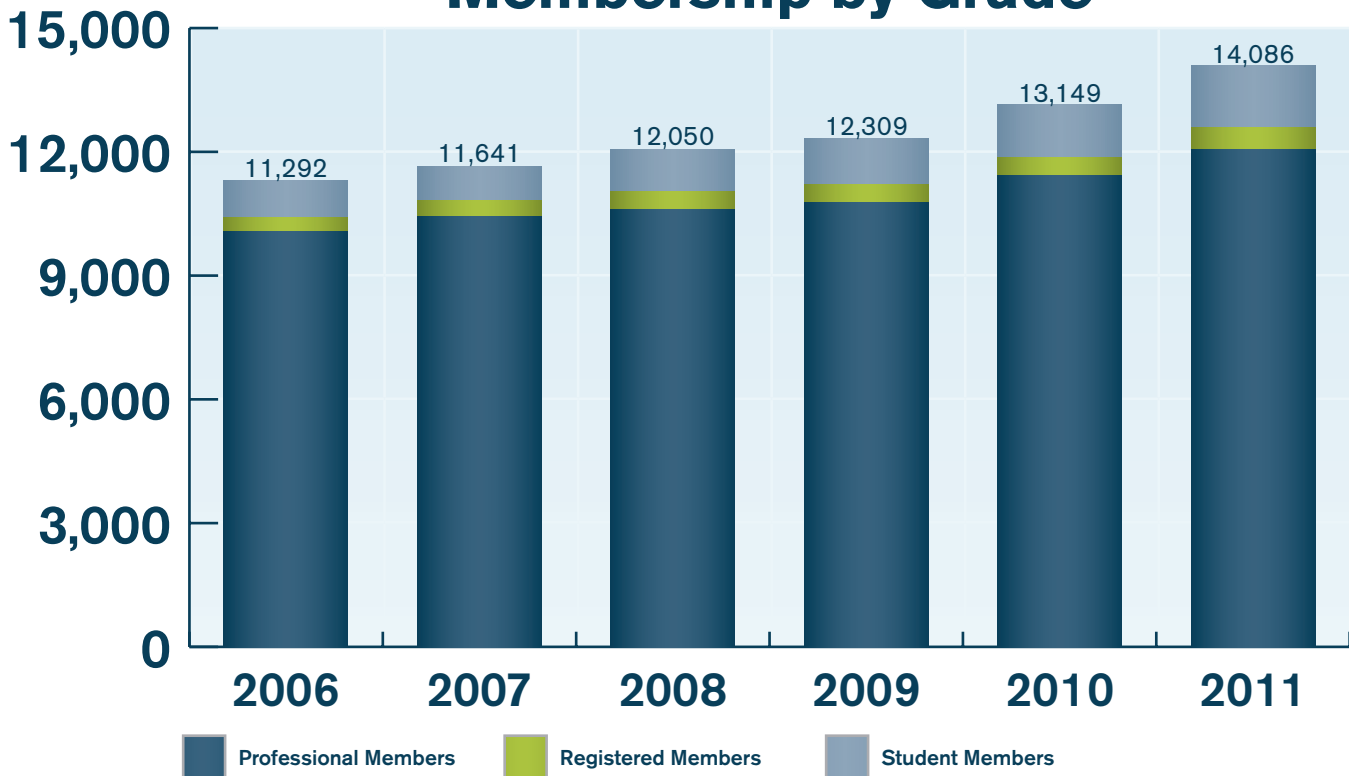
The growth has come in all areas of the Society, with significant growth coming from student members and within the UCA division.

Student membership has grown to 423 since 2011 and is 1,492.

The UCA of SME has increased its membership each year since it became part of the Society in 2006 and now has 1,005 members.

International membership has also seen a steady increase since 2006 and added 544 members in 2011.

### Membership by Grade

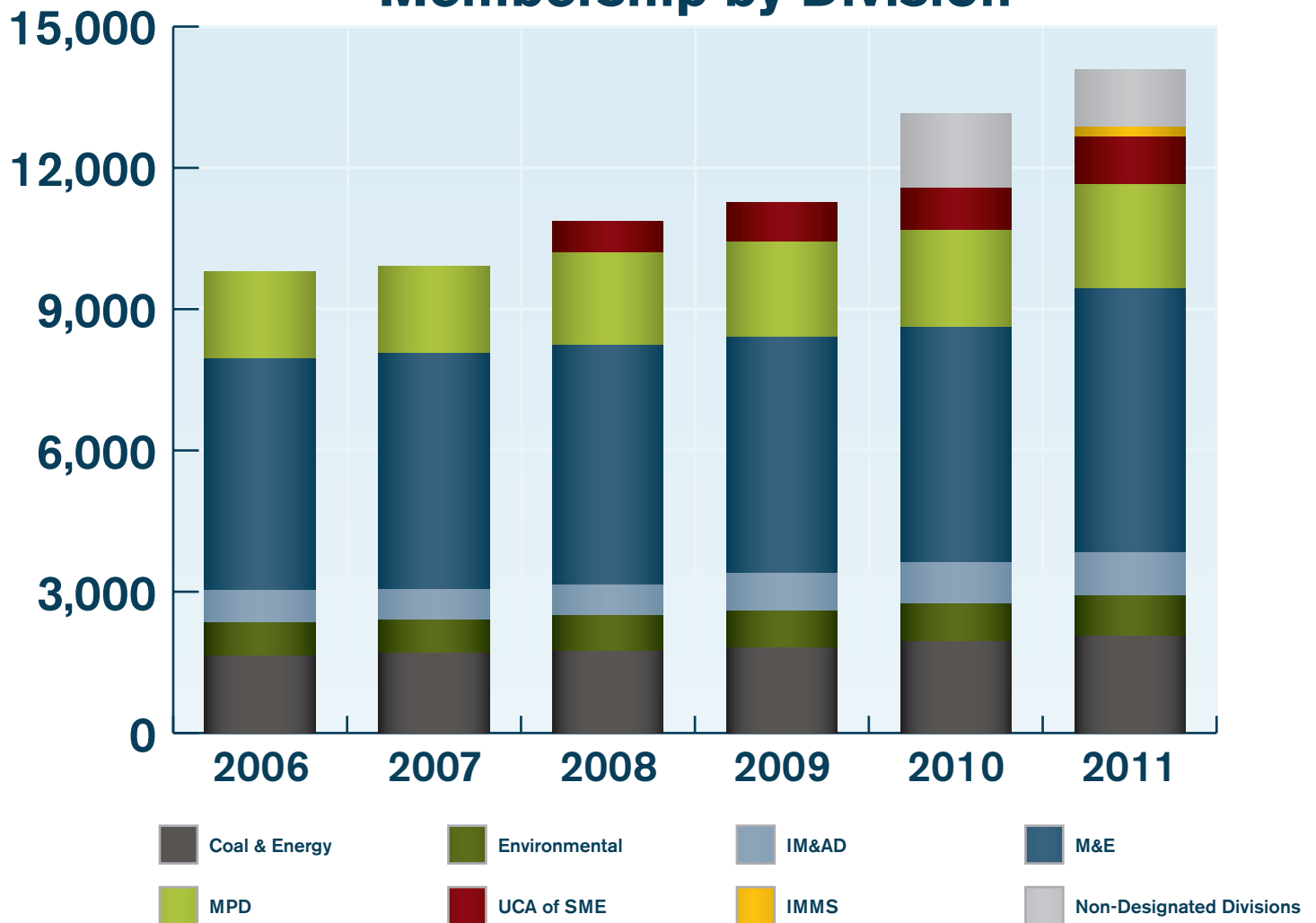




## International Members



## Membership by Division



## Local Section Heroes

At the core of each local section is a group of dedicated volunteers who recruit members, organize section activities, work with local SME student chapters, raise money, provide educational outreach, and more. To recognize our member volunteers for their hard work at the local section level, SME created the "Local Section Hero" program. Beginning in January 2011, the "Local Section Hero" column in *Mining Engineering* magazine highlighted individuals who carried out unique and exemplary activity at the local section level. The 2011 Local Section Heroes and the issues in which they were profiled are:

### January

Gary 'Joe' Hatfield,  
St. Louis Section

### February

Susan Bealko,  
Pittsburgh Section

### March

Anthony Staley,  
Grand Canyon Section

### April

Peter Clevenstein,  
Minnesota Section

### May

Madan Singh,  
Tucson Section

### June

Mark Larson,  
Columbia Section

### August

Peter Dolph,  
Colorado Section

### October

Jack Callahan,  
Carolinas Section

### November

Kathryn Dew,  
Central Appalachian Section

### December

Pat Macy,  
Georgia Section

SME President, John Murphy, set out to connect with SME's local sections in 2011 to further understand each section's general operations and needs. To that end, Murphy and SME Executive Director, David Kanagy, convened conference calls with the leaders of 29 of SME's 45 active local sections during 2011. From the 29 calls that were completed, a few general areas of concern emerged. These included the need for better/increased programming, wide geographic distribution of members within a section and isolation from other sections and SME headquarters. In his President's Page column in the December 2011 issue of *Mining Engineering*, President Murphy detailed a few ideas and SME offerings that may help the local sections with these areas of concern. These include:

- **Programming** – Local sections are encouraged to plan their meetings and events well in advance to have opportunities to obtain sought after speakers. Local sections are also encouraged to take advantage of the Henry Krumb Lecture program coordinated by SME headquarters.
- **Geographic distribution** – Local sections experiencing this concern may want to consider adding subsections and/or hosting online meetings or webinars.
- **Networking** – Plans are under way for a "best practices" session for local section leaders to be held at SME's Annual Meeting in Seattle, WA. Additionally, a Local Section Leaders Community will be started on the SME Community website ([www.community.smenet.org](http://www.community.smenet.org)) so section leaders can exchange information in real time. Local Section leaders are encouraged to dialogue with each other and with SME headquarters frequently.

## Section Revitalization

In 2011, two SME sections that had been inactive for a few years were revitalized, thanks to the efforts of some very dedicated volunteers.

**Carolinas** – The Carolinas section, inactive for nearly five years, held its first meeting in April 2011. Jack Callahan, longtime member of the section, took over as acting Secretary-Treasurer in late 2010. Callahan singlehandedly organized a section meeting, dinner and field trip to the Haile Gold Mine. At that meeting, new section officers were elected to two-year terms: Alex Glover, Chair; Jayson Ripke, Vice Chair; Crystal Wilson, Secretary-Treasurer; Bob Ganis, Program Chair. With new officers in place, the Carolinas section is back in business and has plans to host joint meetings with other local societies to help keep interest and participation high.

**Northeastern Nevada** – The Northeastern Nevada section, dormant for more than three years, held its first meeting in September

2011. The new leadership team includes: Mark Kockler, Chair; Will Shumway, Vice-Chair; Evan Fonger, Secretary; and Cliff Stout, Treasurer. Meetings will be held the second Thursday of each month from September through May. In addition, in an effort to provide support throughout the mining industry, the Northeastern Nevada SME section will be starting a resume bank. The section hopes to become a resource for anyone looking for a job or looking to fill a position in their organization.

## Local Section Grants

In the third year of the Local Section Grant program, SME awarded \$13,500 in grants to the following Local Sections:

- **Central Appalachian Section** – awarded a grant of \$3,000 to work with the Norwood Student Chapter (University of Kentucky) on a comprehensive assessment of mining-related outreach and educational materials at the post-secondary level and through community groups.
- **Colorado Section** – awarded a grant of \$2,000 to sponsor scholarships for three local teachers to attend the “All About Mining” course through the Colorado Mining Association (\$1,600) and to help fund GEM Outreach projects in conjunction with the Colorado School of Mines Student Chapter (\$400).
- **Georgia Section** – awarded a grant of \$3,000 to fund a GEM project to purchase a custom-made rock and mineral display case to be installed in the nature lodge at the Woodruff Scout Reservation located in the north Georgia Mountains.
- **Minnesota Section** – awarded a grant of \$5,000 to help fund the Minnesota Minerals Education Workshop, a day-long series of classroom sessions followed by field trips and tours of mining operations. The goal of the workshop is to raise awareness of the positive role that mineral resources play in Minnesota.
- **Tucson Section** – awarded a grant of \$500 to help fund a mine closure project, in partnership with the University of Arizona’s student chapter, at the University of Arizona’s San Xavier Underground Mining Laboratory.

**The 2011 Registered Members Admissions Committee is composed of Harry Parker (Chair), Ian Douglas, Jessica E. Kogel, Herb Welhener and Chris Breckenridge.**

**As of December 15, 2011 there were 516 Registered Members.**

In April 2010, the Canadian Securities Administrators released the long-awaited revisions to NI 43-101 and companion policy for comment. SME Registered Members have been accepted as a Recognized Foreign Association. SME Registered Members became able to serve as Qualified Persons when the revised instrument was adopted, on June 30, 2011. Qualified Persons will also have to meet project-specific experience and responsibility requirements for technical reports and other disclosure.

The SME Registered Member Program was created in response to members who perform specialized functions relating to reserve consulting and reporting and need to satisfy the overseas requirement as a Competent/Qualified Person (QP) in that they belong to a Recognized Overseas Professional Organization (ROPO). To be accepted under ROPO guidelines, SME is bound by the following terms:

Members are geologists, engineers and geoscientists admitted primarily on the basis of academic qualifications and experience. Members agree to observe and be bound by a code of ethics. SME has disciplinary powers to suspend and expel members.

### **Registered Member qualifications**

1. Applicant must possess a university degree from a U.S. accredited university or a recognized overseas university.
2. Applicant must have a minimum of five (5) years of professional experience, of which at least three (3) must have been in a position of responsibility, defined as one in which the individual was depended on for significant participation and decision making.
3. Applicant must satisfy and demonstrate one of the following conditions:
  - Licensed or certified in a state of the United States that is a member of the National Association of State Boards of Geology (ASBOG).
  - Certified by the American Institute of Professional Geologists (AIPG) as a Certified Professional Geologist.
  - Professional Engineer licensed or certified in a state of the United States.

OR

- One may apply if you do not meet the above criteria, but you will need to provide three endorsements from three current SME Registered Members. Those serving as endorsers must complete the SME Registered Member Verification Form.

## SME Outstanding Student Chapter GEM Award

The Student Chapter GEM Award is for Student Chapter's GEM program, community service and/or other educational outreach activities. The award selection committee uses the material written in the annual report to select the award recipient. The winning SME Student Chapter receives a prize of \$250, a certificate of recognition, and two tickets to the awards banquet at the SME Annual Meeting. The chapter receives a travel allowance of up to \$500 to send a representative to the Annual Meeting. The 2011 award went to the Anderson-Carlisle SME Student Chapter at Montana Tech.

### SME Student Chapters

<u>School</u>	<u>Faculty Sponsor</u>
University of Alaska Fairbanks	Gang Chen
The University of Arizona	Mary M Poulton
University of British Columbia	Dirk Van Zyl
Pontificia Universidad Catolica Del Peru	Mario Cedron
Colorado School of Mines	Tibor Rozgonyi
Colorado School of Mines UCA of SME Chapter	Raymond Henn
Delft University of Technology	Hans de Ruitter
University of Kentucky	Kyle Perry
Missouri University of Science and Technology	Samuel Frimpong
Montana Tech of the University of Montana	Paul Conrad
University of Nevada-Reno	Danny Taylor
New Mexico Institute of Mining and Technology	Navid Mojtabai
Pennsylvania State University	Larry Grayson
University of Pittsburgh	Anthony Iannacchione
Queens University	Vic Pakalnis
South Dakota School of Mines and Technology	Charles A. Kliche
Southern Illinois University at Carbondale	Sam Spearing
University of Utah	Mike Nelson
Virginia Polytechnic Institute and State University	Gregory T. Adel
West Virginia University	Christopher Bise
Indian Institute of Technology Kharagpur	Biswajit Samanta
Indian School of Mines	A.K. Mishra

David L. Andrews Bundoora, VIC, Australia	Phillip L. Dalke Elko, NV	Bart J. Hyita Canonsburg, PA	Jennifer A. McNee Seabrook, England	Randal S. Simpson Farmington, NM
Mark A. Arnold Littleton, CO	James J. Dargis Warrenville, IL	Conway G. Ivy Beaufort, SC	William H. McNeil Toronto, ON, Canada	Gregory C. Smith Triadelphia, WV
Randy W. Baker Mequon, WI	John C. Davies Sechelt BC, Canada	Surendra M. Jain Bluefield, VA	Dennis J. Meseroll Bangkok, Thailand	David G. Spillman Price, UT
Ralph W. Barbaro North Potomac, MD	Timothy J. Davis Green River, WY	Jon Y. Kaneshiro Denver, CO	Stephen Miller Douglas, WY	John C. Stankus Canonsburg, PA
Jonathan Barber Surry Hills, NSW, Australia	Qingping Deng Parker, CO	James C. Kannegaard Phoenix, AZ	Elli M. Mills Reno, NV	Ben K. Sternberg Tucson, AZ
Craig B. Barlow Blanding, UT	Stephan Dorfner Munich, Germany	Jason F. Keily Mount Isa, QLD, Australia	Daniel P. Moulden Green River, WY	Clinton L. Strachan Fort Collins, CO
Charles W. Bell Tampa, FL	Mack S. Duncan Athens, GA	K. Scott Keim Bluefield, VA	Tom E. Myers Valrico, FL	James R. Stroud Winston Salem, NC
Thomas S. Bender Ely, NV	Janet M. Edgecombe Bullhead City, AZ	Glenn Kerkhoff Denver, CO	Kenneth L. Nelson Milwaukee, WI	Eric M. Struhsacker Reno, NV
David M. Bird Cleveland, OH	John L. Ellenberger Pittsburgh, PA	Steven B. Kerr Salt Lake City, UT	Christer A. Nordstrom Boden, Sweden	Frederick J. Sveinson Richmond, BC, Canada
Garston H. Blackwell Kingston, ON, Canada	Frank J. Filas Golden, CO	Teresa M. Kinley Helena, MT	Kurt B. Oakes Decorah, IA	Terry J. Theys Princeton, IN
David R. Bloom Loyal, WI	Daniel H. Fischer Cherry Valley, IL	Thomas Kleinsorge Giessen, Germany	Frank M. Orrell Livermore, CA	Danson G. Tolman Saltillo, COA, Mexico
Frederick M. Bodycomb Springfield, CO	Chris R. Fountain W. Perth, WAS, Australia	Mark S. Klima State College, PA	Ronald D. Parker Springfield, MO	Michael P. Tonelis Mulberry, FL
Debbie L. Bruse Gillette, WY	Toyohisa Fujita Tokyo, Japan	Michael C. Koenig Bremond, TX	Alec M. Patterson Houston, TX	Lester H. Tupper Mount Vernon, IL
Malcolm S. Burgess Macon, GA	Michael P. Fulton Gillette, WY	Steven C. Kral Denver, CO	Steven E. Paulson Naperville, IL	David A. Tutton Dierdorf-Elgert, Germany
Randy N. Burggraff Round Mountain, NV	John C. Galassini Reno, NV	Keith A. Laskowski Golden, CO	Ivan Prpic Geelong, VIC, Australia	Patrick A. Tuzinski Bloomington, MN
Juan P. Camus Westlake, QLD, Australia	Ennis P. Geraghty Columbus, MT	Darin M. Lee Phoenix, AZ	David A. Raich Livingston, MT	Cecil M. Ulrich Seattle, WA
Adrienne A. Carney Washington, PA	Ian D. Gipps E. Heights QLD, Australia	Mario M. Leite Porto, Portugal	Leigh A. Readdy Kirkland, WA	Hendrik G. van Oss Reston, VA
Toby R. Clark Franklin, TN	Allen H. Gipson Breckenridge, CO	Darin S. Lindsey Lucerne Valley CA	Alan E. Renshaw Healy AK	Thomas I. Vehrs Longmont, CO
Burrett W. Clay Glendale, AZ	Virgle R. Goodgame Salida, CO	Michael A. Linkous Macon, GA	Bruce R. Salo Troy, MI	Brian L. Vognild Sioux Falls, SD
James L. Cleason Salt Lake City, UT	David G. Gordon Claypool, AZ	John A. Litsenberger Red Wing, MN	Mark G. Sanders Elko, NV	Daniel L. Wendell Woodland Park, CO
Edward J. Clements South Bend, IN	Charles A. Gronewold Broomfield, CO	Peter N. Livingstone Carlsbad, NM	Michael R. Schaffner, Winnemucca, NV	Warren D. Woods Fallon, NV
David R. Collins Sandersville, GA	Andrew P. Hampton Englewood, CO	Frank J. Loeffler Lago Vista, TX	Louis M. Schlesinger Spruce Pine, NC	John A. Yeager Searchlight, NV
Thomas J. Comi Tucson, AZ	Tony R. Henderson Bluefield, WV	John O. Marsden Phoenix, AZ	Thom J. Seal Spring Creek, NV	Robin J. Young Danville, CA
Henry C. Cook Chandler, AZ	James D. Henry New Albany, OH	Michael A. McClave Nine Mile Falls, WA	Robert R. Sheppard McIntyre, GA	
	Gary C. Huber Centennial, CO	John P. McHale Hibbing, MN	John C. Shook Santa Rosa, CA	

## 2011 National Science Teachers Association Conferences

The first 2011 National Science Teachers Association conference kicked off Oct. 26, 2011 in Hartford, CT. Lee Saperstein was the Chairman of the Connecticut NSTA. Mineral samples were donated by ECSI, Inc., Omya Inc., Detroit Salt Co. LL, York Hill Trap Rock, Lane Construction and Environmental Manager. The storage facility was handled by Dave Potter of York Hill Trap Rock. The booth was visited by approximately 1,000 science teachers.

The New Orleans NSTA conference, the second of the year, was held Nov. 10-12, 2011. The co-chairs for the event were Dale Elifrits, Northern Kentucky University, and Katie Gardner, David Norton, and Clayton Cross, members of the SME Student Chapter at the University of Kentucky. Greg Probst, Director of Communications for Freeport-McMoRan Copper & Gold, Inc. in New Orleans generously provided a storage facility to store mineral samples and materials for the conference and delivered them to the convention center. Materials and samples were distributed to more than 1,500 science teachers. Most of the samples were distributed the first day.

The Seattle NSTA Conference was held Dec. 8-10 at the Washington State Convention Center. The event was chaired by Mamoud Bashi of E&E Consulting in Vancouver, BC. Mineral samples were provided for the event through the efforts of John Hayden.

## 50-year members

Russell C. Babcock Salt Lake City, UT	Harold J. Gluskoter McLean, VA	Moon J. Kim Bronx, NY	Roger E. McHugh Point Marion, PA	Elwin E. Smith Norwalk, CT
Robert C. Beers Colorado Spgs, CO	Frederick T. Graybeal Chatham, NJ	Joseph L. Kirby Scotts Valley, CA	Muhammad N. Mian Salt Lake City, UT	Charles D. Snow Reno, NV
Antonio Boggero Tucson, AZ	Donald J. Grybeck Port Ludlow, WA	David M. Koogler The Woodlands, TX	Anthony G. Moon Albuquerque, NM	Robert J. Steele Steamboat Spgs, CO
George C. Brooks Lakeland, FL	Richard D. Hagni Rolla, MO	Michael C. Korb Wapwallopen, PA	James V. Piani Sandy, UT	John C. Stoddard Bloomfield Hills, MI
Fredric B. Brost Sun City, AZ	William J. Halvorsen Pataskala, OH	Benjamin C. Koskiniemi Tucson, AZ	Gene W. Pierson Post Falls, ID	James L. Sykes Norton, VA
Jerry J. Cape Parrish, FL	Laurence D. Hartzog Hayden, ID	Ronald S. Lapoint Spokane, WA	Fred J. Pisacane Sacramento, CA	John W. Trammell Grand Junction, CO
John Clark Las Vegas, NV	Lawrence M. Hermes Houston, TX	Wayne D. Lenton Point Roberts, WA	Kenneth F. Reighard Windsor, CO	Raymond K. Will Oakland, CA
Michael C. Ellinger Silver Springs, NV	Calvert D. Iles Fort Collins, CO	Joseph W. Leonard State College, PA	Robert J. Reuss Tucson, AZ	William L. Wilson Grand Junction, CO
James A. Fegan Champion, MI	Duane B. Jorgensen Ludington, MI	John E. Litz Lakewood, CO	William F. Riggs Montgomery, TX	John E. Wilson Jr. Surfside Beach, SC
Maurice C. Fuerstenau Reno, NV	Edmond A. Justen Dollard Des Ormeaux PQ, Canada	Douglas J. Lootens Cave Creek, AZ	Malcolm M. Roeber Creede, CO	
Moises J. Garcia Spring, TX		James T. March Anchorage, AK	Lee W. Saperstein Nantucket, MA	

The SME eLearning Program Committee coordinates the creation and deployment of online courses for professional development. These mining industry courses will be available to members, non-members, 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.

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

The SME eLearning program currently has three courses available. They are “Ethics in Mining,” “Equipment Management” and “Acid Rock Drainage.” Eleven more courses are currently in development.

### Course Catalog Marketing

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

SME has advertised many ways for online course development authors and have some incredible feedback and potential courses. The advertising avenues included the distribution of a flyer at critical meetings at the 2010 Annual Meeting, a call to authors advertisement in the last four months of eNews, and call to authors ads have also been posted in *Mining Engineering*.





## SME Annual Meeting and Exhibit

The 2011 SME Annual Meeting and Exhibit was a historic success, as all projections were surpassed. The meeting was held in Denver, CO, Feb. 27 to March 2. It was a joint conference with the Colorado Mining Association and hosted 5,745 attendees, compared with 4,937 in 2010.

One of the highlights of the large attendance was the 55 percent increase in student registration. At the 2011 meeting, 546 students were in attendance.

The exhibit hall of the Colorado Convention Center showcased 683 booths, compared with 630 in 2010.

For the second time in SME history, the meeting had an official sponsor, Newmont Mining, which donated \$50,000 to the SME Annual Meeting.

Kicking things off for the week, the SME Foundation's luau-themed dinner dance was well attended by more than 200 people. A silent auction and live auction were added to the festivities this year and helped raise additional money.

SME members gave back to the community by participating in the second annual "Miners Give Back Project" that benefited the Food Bank of the Rockies. Members sorted, inspected and packed donated items creating more than 500 meals for those in need, which were distributed in less than 45 minutes.



### Annual Meeting & Exhibit

	2011 Denver	2010 Phoenix	2009 Denver	2008 Salt Lake City	2007 Denver	2006 St. Louis	2005 Salt Lake City
<b>Total attendance</b>	5,745	4,937	4,512	4,149	4,601	3,183	3,155
<b>Exhibit booths sold</b>	682	630	603	515	505	390	344
<b>Exhibiting companies</b>	504	475	452	377	391	297	253

**Other notable events at the 2011 SME Annual Meeting:**

- IM&AD Division 75th Anniversary Gala
- San Jose Mine Rescue tribute booth
- *Mining Engineering Handbook* Reception
- Spouse/Guest Brunch
- New Member Orientation
- Rising Professionals Reception
- WAAIME Members and Scholarship Recipient Reception

## George A. Fox Conference

The 2011 George A. Fox Conference was held at the Graduate Center City University of New York on January 25, 2011. The conference, chaired by Hugh Lacy, featured presentations that focused on drill-and-blast excavation experiences and advances. The conference was attended by 351 people and generated \$47,800 in sponsorship contributions.

## Offshore Technology Conference

In May 2011, SME participated in the Offshore Technology 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 also participated in the first OTC Brazil, in October 2011 in Rio de Janeiro. Overall, the conference was very successful, with more than 400 exhibit booths and 145 technical sessions. The SME OTC Committee participated in both the exhibit and in the technical program.



## Arizona Conference

The Arizona Conference was held December 4-5, 2011 in Tucson. For the first time, the conference was held at the JW Marriott Starr Pass Resort. The move to a new hotel was to increase attendance by creating a mining weekend. It incorporated the student chapter golf tournament, the Mining Foundation of the Southwest Banquet and the Arizona Conference at one location. The conference attracted 376 people.

## Safety and Reliability in the Mining and Resources Industries Conference

SME joined with the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) for the first in a series of conferences aimed at health, safety and reliability in mining. The conference was held in Calgary, AB, Canada and was attended by more than 180 people. SME and CIM exceeded goals for attendance and sponsorship at this inaugural conference.

## Rapid Excavation and Tunneling Conference

The 2011 Rapid Excavation and Tunneling Conference (RETC) was held June 19-22, at the Marriott Marquis Hotel, San Francisco, CA.

This was the largest attendance in RETC's 20-year history. Final registration for 2011 was 1,405, with exhibit booth sales of 152. The 2009 conference in Las Vegas, NV had a registration total of 1,373, (this number includes all paid and unpaid attendance) and 150 booths. Sponsorship of the 2011 RETC had the highest contribution in history, generating \$93,000 compared to \$48,700 in 2009.



**Save the Date**

**SME Annual Meeting and Exhibit**

February 19 - 22, 2012  
Washington State  
Convention & Trade Center  
Seattle, WA

**North American Tunneling Conference**

June 24-27, 2012  
JW Marriott  
Indianapolis, IN

**Safety Management and Systems Reliability Conference**

November 13-15, 2012  
Marriott Minneapolis  
Minneapolis, MN

**Arizona Conference**

December 2-3, 2012  
JW Marriott  
Starr Pass Resort  
Tucson, AZ

SME exhibited at several events during 2011 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. The 2011 venues included: The George A. Fox Conference, the SME Annual Meeting & Exhibit and CMA Conference, the PDAC Annual Conference and Exhibit, the SME Minnesota Section Annual Meeting, the SME Mineral Processing Division (MPD) Conference, the CIM Conference and Exhibit, the Offshore Technology Conference (OTC), the Rapid Excavation & Tunneling Conference (RETC), Extermin Conversion Mineral (Perumin), the U2011 SME WY Section Uranium Symposium, the SME Professional Engineer (PE) Short Course, the Underwater Mining Institute (UMI) Conference, OTC Brazil, CIM & SME Safety and Reliability in the Mining and Resources Industry, XXXIX Convencion Internacional de Minería, the Northwest Mining Association Annual Conference (NWMA) and the SME Arizona Conference.



## Mining Engineering

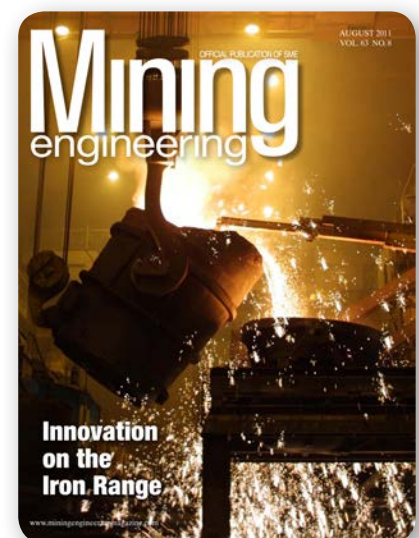
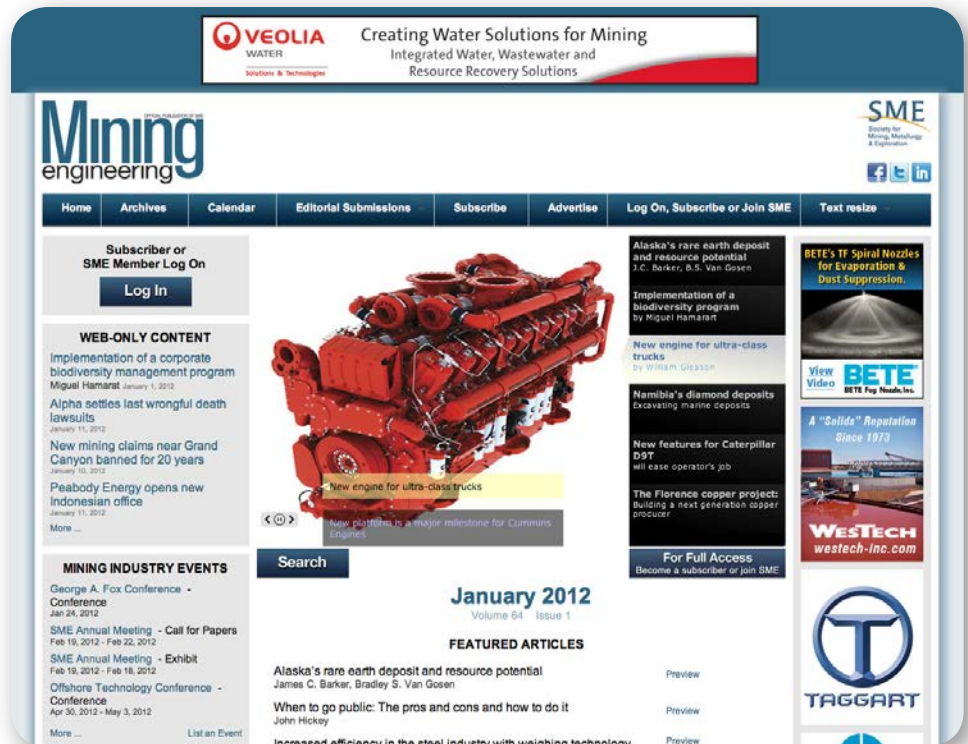
The August 2010 issue of *Mining Engineering* featured the debut of the magazine's redesign. *Mining Engineering* was last redesigned in 1995. The goal of the new, modern look is to attract younger readers, while making it easier for older members to read.

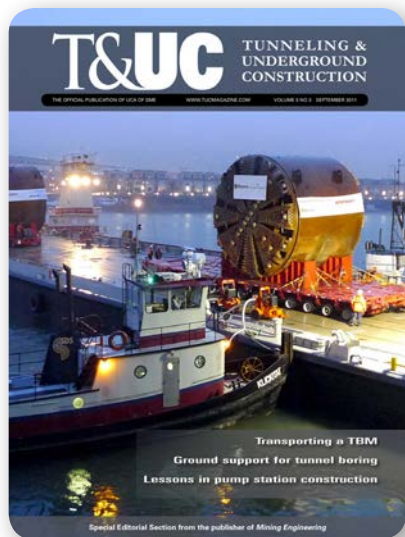
SME's IT staff built a new, more interactive *Mining Engineering* website that was launched Jan. 1, 2012. The new site, [www.miningengineeringmagazine.com](http://www.miningengineeringmagazine.com), includes mining industry news stories, updated regularly, a commodities ticker and feature articles that 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 2011 included several special editorial sections.

## SME News

The SME News section of *Mining Engineering* is published in every issue of the magazine. Topics 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 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 GEM), division newsletters, ABET updates and WAAIME news. Monthly departments include personal news, obituaries, necrology and new members. A new section, launched in the January 2011 issue, features a Local Section Hero.



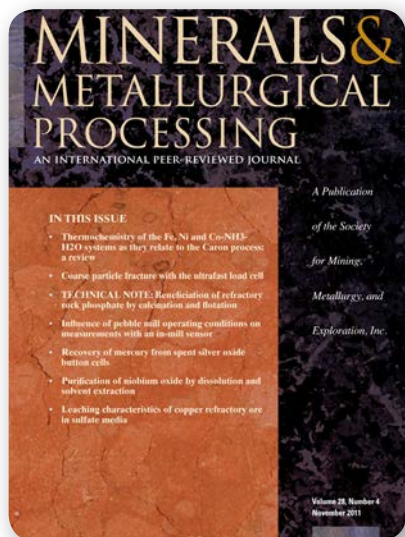


## ***Tunneling & Underground Construction Magazine***

*Tunneling & Underground Construction (T&UC)* is in its fifth year of publication. In addition to general project features, each issue of *T&UC* carries editorial material geared 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.

The Tunnel Demand Forecast (TDF) remains one of *T&UC's* most popular sections. An updated TDF is published in each issue. The TDF is also available on the UCA of SME website ([www.uca.smenet.org](http://www.uca.smenet.org)). Listings published in each issue of *T&UC* also appear on the online version. And users can submit their own projects for listing on the TDF. They are posted to the website after verification.



## **Technical Papers**

Thirty-one technical papers, totaling 282 pages, will appear in *Transactions*, Vol. 330, for the year 2011. This total includes the index and papers not published in *Mining Engineering* or *Minerals & Metallurgical Processing*. *Transactions* will also contain the technical papers published in *Mining Engineering*, which numbered 19 and totaled 129 pages, and those published in the quarterly *Minerals & Metallurgical Processing*, which numbered 32 and totaled 214 pages.

Beginning with the 2011 volume, the *Transactions* volume will be available for purchase in electronic form only. The publications staff is working with the SME IT staff to have individual *Transactions* papers available for purchase online.

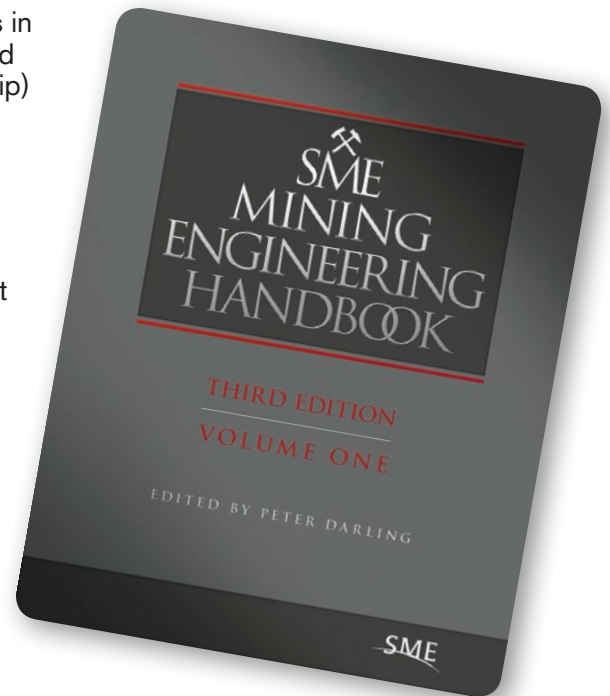
*Minerals & Metallurgical Processing (M&MP)* is published quarterly in February, May, August and November. Each issue is typically 54 to 64 pages in length and contains from six to 10 peer-reviewed technical papers. The publication of *M&MP* journal began in 1984, and 2012 is Volume 29. S. Komar Kawatra, professor at Michigan Technical University, performed the duties of Editor-in-Chief for 2011. In 2011, a total of 32 technical papers were published. This count compares with 34 papers published in 2010.

The SME book publishing program generated record sales in 2011. The combination of quality industry publications and market penetration (both inside and outside SME membership) contributed to this success.

The biggest accomplishment of the year, in terms of books, was the publication of the third edition of the *SME Mining Engineering Handbook*, reaffirming its international reputation as the handbook of choice for today's practicing mining engineer. The book distills the body of knowledge that characterizes mining engineering as a disciplinary field and will continue to inspire and inform generations of mining professionals.

Along with traditional book sales, Ebook sales and royalties continue to grow.

SME brought book storage and fulfillment in house. This has increased efficiency and cut costs.



## Titles Published in 2011

### **Concrete for Underground Structures: Guidelines for Design and Construction**

Edited by Robert J.F. Goodfellow

### **Rapid Excavation and Tunneling Conference: 2011 Proceedings**

Edited by Steve Redmond and Victor Romero

### **SME Mining Engineering Handbook, Third Edition**

Edited by Peter Darling

## 2011 Top Sellers

**SME Mining Engineering Handbook**

**2011 RETC Proceedings**

**Chemistry of Gold Extraction**

**Mining Economics & Strategy**

**Underground Mining Methods**

**Mineral Processing Plant Design**

## SME Upcoming Bookstores

**February 2012**  
SME Annual Meeting  
Seattle, Washington

**March 2012**  
PDAC Conference  
Toronto, Ontario

**April 2012**  
Coal Preparation  
Lexington, Kentucky

**September 2012**  
MinExpo  
Las Vegas, Nevada

In 2011 SME's web team focused on two major projects. The first project was the launch of the SME Community (<http://community.smenet.org/Home/>). The second project was the launch of a new *Mining Engineering* website ([www.miningengineeringmagazine.com](http://www.miningengineeringmagazine.com)).

The SME community was launched on Sept. 1, 2011. It is a private member community that will enhance the way members communicate and build relationships. The SME Community currently has four products:

1. Directory 2.0 allows users to create a comprehensive and interactive profile for professional and individual representation within in the SME Community. Users have the option to search for other members, browse other profiles and identify potential contacts and groups of like-minded people, essentially building a professional network map users can access from anywhere in the world.
2. Communities are a hybrid of listserve and threaded discussion forum technology. Using the SME Community's discussions, users can post, respond or browse discussion threads. They receive an easy-to-read email that contains a picture of the author linked to the author's profile, a link to the online archive where all postings are automatically stored, and a mistake-free link to respond to either the author or the entire group.
3. The Resource Library is a treasure trove of user-generated content posted by members for members. Users can securely share documents and work collaboratively with other members while institutionalizing content into SME Community's knowledge base. The Resource Library can hold multiple types of documents, including streaming video, PowerPoint presentations, PDFs, images, Microsoft Office and Apple iWork documents.
4. The event calendar allows members to share local chapter events and meetings on the calendar. It is open to all members for searching. Events can be searched by event type or keyword to view all of the events that are taking place in the Community. And a user can choose which format to display, graphical or list view. It also includes the archive of past events.

The *Mining Engineering* website was launched on Jan. 1, 2012. The website was redesigned from the ground up. Members are able to access the current issue of *Mining Engineering*, as well as archived issues going back to 2004.

Members can also access the SME website, including the Society's Facebook, Twitter, Linked In and SME Community pages. And links to OneMine.org and the Mineral Information Institute are provided. Paid advertising on the new site will offset the cost of maintaining the site.



The Coal & Energy Division met at the 2011 SME midyear meeting in Pittsburgh, PA in September.

Executive Committee members discussed the research and development scholarship that has been funded by the Division. It was agreed that there is a need to develop criteria for evaluating proposals and a standard format for progress/final reports. The Committee also discussed the need to evaluate the potential of awarding a single coal preparation scholarship in addition to current awards.

**Sponsor Recognition** – The Committee discussed the need to recognize Coal & Energy Division sponsors and to coordinate future requests for funding. The Coal and Energy page in *Mining Engineering* magazine could be a forum for acknowledging donations to the Division.

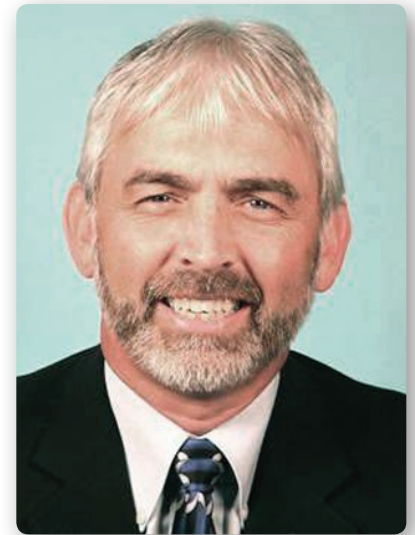
**Technical Program** – Nikky LaBranche reviewed plans for upcoming technical sessions at the annual meeting in Seattle, WA. The technical program includes 20 Coal & Energy sessions and a total of 126 papers/presentations. In the past, the Division has been successful in the “preprint contest” conducted by SME at the annual meeting. However, contest rules may change this year. The Coal & Energy Division is planning to offer Professional Development Hours (PDHs) for attendees.

**Committee Nominations** – The Committee discussed the nomination process used to fill committee positions within the Coal & Energy Division. In general, it was agreed that the nominations process is not ideal. Presently, subcommittee members remain largely uninvolved in Division activities for several years after they initially agree to serve. A variety of activities (e.g., technical reviewing or fund raising) were considered to be viable means of keeping committee newcomers involved. However, the Committee will need to determine prior to the annual meeting, whether or not the subcommittee members’ duties can be altered without a bylaws change.

**Award Nominations** – Mike Trevits indicated that, for some awards, the Coal & Energy Division had only one nominee. His suggestion was that the Division ask Executive Committee members to submit nominations in the future.

**Carbon Management Conference** – Rick Honaker indicated that a meeting date and location has been established for the Carbon Management Conference: Feb. 7-9, 2012 in Orlando, FL.

**Luncheon** – The Division traditionally has had a sponsor for the annual meeting luncheon and has had a sponsor to match funds raised at the silent auction. The Committee considered a variety of manufacturers that may be interested since these sponsorships represent an advertising opportunity.



**Michael A. Trevits**  
Coal and Energy Division Chair



**Casey A. McKeon**

Environmental Division Chair

The Environmental Division's membership as of December 31, 2011 was 848, of which 93 are student members. This reflects an increase of 58 members from the total of 790 members as of December 31, 2010. The Division's membership retention rate is 86.89 percent.

The Environmental Division met at the 2011 midyear meeting in Pittsburgh, PA. Key discussions and action items are outlined below.

- **SME e-Learning Committee** – Charles Bucknam reported that there was no further progress on the joint Environmental Management System (EMS) project with the National Mining Association (NMA). NMA has given the USEPA the opportunity to review the draft, but they have not responded, so it is likely that the NMA will go ahead and approve a final draft for roll-out by SME in 2012.
- **New SME Ad Hoc Committee on Operator Engagement** – This is a newly formed committee. The objective of this committee is to provide insights into how SME can better engage mine operators and entry-level professionals in the Society. Casey McKeon and Bob Reisinger have been asked to represent the Environmental Division on this committee, and will report at the annual meeting.
- **Mining Engineering articles for 2011** – Bob Reisinger submitted an “Environmental Division News” article on Sustainability and the International Council on Mining and Metals (ICMM) for the October issue. He also drafted an “Environmental Division News” article on environmental careers in the mining industry for the November issue and circulated it for review.
- **2012 Annual Meeting** – There are nine sessions planned and no Environmental Division sponsored field trips or short courses.
- **GARD Guide** – The entire GARD Guide is being translated into Spanish.
- **ADTI Manuals** – The ADTI Prediction document is being revised.
- **ASTM CD Endorsement** – This is ready to go as announced in the “Environmental Division News” article, August issue of *Mining Engineering* magazine
- **ED handbook updates** – to be provided by annual meeting.
- **Liaison with American Association of Petroleum Geologists (AAPG)** – Doug Peters volunteered to represent the Division as a liaison with the AAPG, Division of Environmental Geosciences.

The Industrial Minerals & Aggregates Division membership as of December 31, 2011 was 918, of which 95 are student members. This reflects an increase of 34 members from 2010. The retention rate for the Industrial Minerals & Aggregates Division (IM&AD) was 89.30 percent for 2011.

The Industrial Minerals & Aggregates Division met at the SME 2011 midyear meeting in Pittsburgh, PA in September. Key discussions and action items are outlined below.

**Gala Dinner** – The IM&AD 75th gala celebration at the 2011 SME Annual Meeting in Denver, CO was a success. More than 100 people attended. Rio Tinto, AMCOL, IMERYS and Thiele were some of the major sponsors.

**Technical Committee Update** – In the June 2011 issue of *Mining Engineering*, 41 minerals and families were reviewed, with special reference to rare earths and strategic minerals.

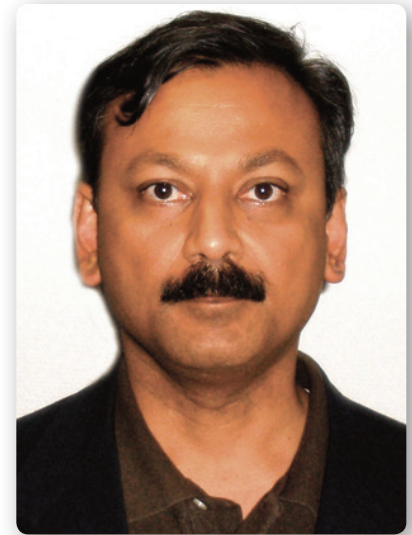
**Program Committee update** – Six sessions (four industrial minerals and two aggregates), totaling 33 papers, were put together by the program chair Brad Van Gosen, along with the vice chairs of the program committee. It was agreed that the Division would work to increase the number of preprints that are received, so that the Division can compete in the preprint contest.

**Dreyer Conference** – The Chicago, IL conference was a success. However, Dreyer funds available in 2011 were not sufficient to cover the conference cost. Therefore, earnings through June/July 2011 were used to cover the difference.

**Hadyn Murray Symposium** – A peer-reviewed a collection of symposium papers edited by Jessica Kogel will be published in the Industrial Minerals special issue of *Minerals & Metallurgical Processing* in February 2012.

**Request from FGIM Inc.** – FGIM requested \$11,000 to support the 2012 conference in Arizona, as well as this year's conference, held in March 2011. The committee approved \$5,000 for field trip/educational support for next year's conference, but denied the request for funding for the 2011 conference. Marc Herpfer drafted a letter to FGIM informing them of the decision. It was determined that any future funding requests should be sent to the Dreyer Conference chair or the IM&AD Chair.

**Sustainability and succession** – The Committee discussed the sustainability and succession plans for the Division. Nikhil Trivedi asked IM&AD to develop a strategic plan in line with SME's plan.



**S. A. Ravishankar**

Industrial Minerals and  
Aggregates Division Chair



**Georgy Cherkashov**

International Marine Minerals  
Society Division Chair

The International Marine Minerals Society (IMMS) and the Society for Mining, Metallurgy and Exploration announced the merger of their organizations in May 2011. IMMS will be known as the International Marine Minerals Society of SME (IMMS of SME). The combined organizations will operate out of SME headquarters.

IMMS is a professional society (nonprofit 501(c) (6) corporation) whose members share a common interest in marine minerals as a resource for study and sound application to meet world demands for strategic minerals. Founded in 1987, IMMS includes a worldwide membership of individuals from industry, government agencies and academic institutions. The primary objectives of IMMS are:

- To promote and improve the understanding of marine mineral deposits within the province of the global ocean.
- To aid in the interchange of information among members through networking and formal symposia.
- To encourage the prudent development of marine mineral resources, including concern for the environment.
- To encourage research in all aspects of marine minerals development.

As of December 31, 2011 IMMS had 215 members, of which 192 are professional members, two were Senior/Honorary and 21 were student members.

IMMS members were converted to the SME Professional Member status within the new IMMS Division. Their current dues scale, at \$35, is much lower than SME's. IMMS and SME agreed prior to the merger to have a graduated scale for getting IMMS dues to SME levels within a 3-4 year period. It was agreed to bill IMMS division members \$45 for 2012 and then an additional \$35 every year thereafter until they are at the SME rate.

The Mineral & Metallurgical Processing Division's membership as of December 31, 2011 was 2,198, of which 148 were student members. This reflects an increase in membership of 137 members from the total of 2,061 in 2010. The MPD retention rate is 90.75 percent for 2011.

- **Douglas Award** – Because the Douglas Award was transferred to SME/MPD and to TMS/EPD from AIME, discussions about how to best handle the administration of the award were held at the midyear meeting. Following the midyear meeting, TMS has agreed to work with SME to award the Douglas Award once annually. This will be a committee made up of representatives from both societies with a rotating chair. The recipient will select at which society's meeting he/she would prefer to receive the award. There is no recipient of the Douglas Award for 2011; the next recipient will be for 2012.
- **2012 Program** – Jayson Ripke gave an update on the 2012 programming. There are 14 sessions scheduled, including the MPD Plenary Session. In addition, MPD is sponsoring a special five-session symposium on Water in Mineral Processing. It will commence immediately following the Plenary Award Session with two plenary presentations, as well as a reception in the evening. Aside from these two plenary sessions, all sessions will be on Tuesday or Wednesday, Feb. 22 and 23. A discussion was held regarding the importance of quality versus quantity. All agreed that quality is most important. Mark Jorgensen will draft a set of bullet points to help session chairs identify quality papers.
- **MPD Calendar** – The 2012-2013 MPD Calendar is sold out, with a total sponsorship of \$21,000. For 2012, the Division voted to have the calendars inserted into the conference bags passed out to attendees at the SME Annual Meeting. This necessitates an order of 3,000 calendars, versus the 2,000 ordered in previous years. After costs, this year's calendar will raise approximately \$15,000 for the MPD Scholarship fund.
- **Student Poster Contest** – To help increase participation in the poster contest, the Division voted to award prize money as follows for undergraduate posters and for graduate posters:
  - 1st Prize– \$1000
  - 2nd Prize – \$500
  - 3rd Prize – \$300

Additionally, all participants in the contest will receive a complimentary ticket to the MPD Luncheon and \$100. Winners will be considered for publication in *Minerals & Metallurgical Processing*.



**Courtney A. Young**  
Mineral & Metallurgical Processing  
Division Chair



**William Warfield**

Mining & Exploration  
Division Chair

The 2010-2011 year has been a good one for the M&E Division of SME. The year started with 4,779 members, of which 504 were students. With such a large membership, we accomplish what we do by working as a team. The Executive Committee makes up the core group but there is a much larger part of the membership that gets involved. These consist of our Past Executive Committee Members, Board Members, Program Area Managers, Technical Session Chairs, Authors, Student Chapter Members and members at large. Thanks to everyone.

Bob Washnock, our Past Division Chair, has taken the responsibility of chairing the new Safety and Health Committee of SME. M&E takes safety very seriously. In the future, all M&E meetings will begin with a safety share, and we have asked each of our technical sessions to begin with a safety share and incorporate safety into the program. One of the most important things the Division does is honor its students by awarding scholarships. M&E has had a problem with low numbers of applications for its scholarships. Through the efforts of Hugh Miller and his committee, we have gone from a low of eight applications three years ago to 44 this year. We have increased our offering of M&E Division scholarships from three last year to five this year. In addition, we will award the Steven C. Potter Scholarship, the Pfeider Scholarship and, for the first time, the Henry DeWitt Smith Scholarship. Steve Holmes has done the work in forming the Stewart Wallace Scholarship, which will be awarded at the 2013 Annual Meeting. Through Holmes' efforts, Asarco LLC will donate the first five plaques for this award.

Tim Arnold was asked to review the Division awards and our participation in the AIME and SME Awards. Arnold and his committee formalized the establishment of a M&E Award Nominating Committee to ensure that M&E is represented in all nominations. In addition to creating the committee, they also looked at gaps in the Division awards. One area we were not honoring was the "Miner of the Year," which would be considered the "Operator's Gold Medal." It is the goal of the Division to make the award at the 2013 Annual Meeting. It will initially be called the "Atlas Copco Miner of The Year Award."

George Sanders has done a tremendous job in organizing the technical program for the 2012 Annual Meeting. Through the efforts of his Program Area Managers (PAMs), M&E will have another outstanding program. The PAMs need to be recognized for their hard work. They include Jami Dwyer, Mine Technology; Don Dwyer, Mine Operations; Jim Humphrey, Mine Management; Kate Johnson, Geology/Geosciences.

Bob Washnock has organized the Richard Gersch Memorial Silent Auction at our luncheon for the past six years. Through his continued efforts, more than \$9,213 was raised for M&E scholarships at the 2011 auction.

The UCA of SME got off to a great start in 2011 by hosting the George A. Fox Conference in New York, NY in January. This annual conference continues to grow in terms of attendance and sponsorship. The 2011 meeting attracted 345 attendees and there were 28 gold-level sponsors, four silver and five bronze-level sponsors. The success of the George A. Fox Conference mirrors the growth and success of the division as a whole. As of Dec. 31, 2011 there were 1,005 UCA of SME members. This equals a growth of 118 members from the same time in 2010. Corporate and Sustaining membership is also strong, and the division now has 25 Corporate Sponsors and 18 Sustaining Sponsors.

During 2011, the UCA of SME was also active at an international level and participated in the ITA World Tunnel Congress in Helsinki, Finland, as well as in the Rapid Excavation & Tunneling Conference (RETC) in San Francisco, CA. During the RETC show, the UCA of SME gained 132 new members.

In June 2012, our division will host the North American Tunneling Conference in Indianapolis, IN. The planning committee for the 2011 NAT Conference is led by conference chair Heather Ivory. She has been supported by Gregg Davidson, Matthew Fowler, Robert Freeman, Alan Howard, Marc Kritzer, Colin Lawrence, John Morgan, Dennis Ofiara, Robert Palermo, Robert Pintabona, Mike Smithson, Bradford Townsend and Brett Zernich.

In my first Chairman's Column, published in the September 2011 issue of *T&UC* magazine, I identified four areas that I would like to focus on as the chairman of the UCA of SME:

- Continued development of our internal working groups to ensure that they serve our members in the best possible way.
- Continued support of safety-related efforts within the industry.
- Improved functionality and relationships with the International Tunnelling Association (ITA).
- Development of training and education in our industry.
- We have already made significant progress on a few of these goals, especially in the area of training and education development.

Dave Chapman is the chair of the Education and Training Committee. Under his guidance, the program was kicked off in June 2011. It will continue to be a point of emphasis through 2012.

Overall, 2011 was a good time to be part of the underground construction and tunneling industry. While I cannot say our industry did not feel the effects of the global economic downturn, I do feel that it was not hurt as badly as many other industries. The industry is still strong and there are lots of opportunities for all of us who work in the underground construction field.



**Jeffrey Petersen**  
UCA of SME Chair



**Susan Harwood**  
WAAIME Division Chair

**S**usan Harwood, Chair of the Women's Auxiliary to the American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc. (WAAIME) Executive Committee, reported that the Committee agreed to continue to donate to the CMA Education Foundation. She also noted that WAAIME will donate \$5,000 to GEM. Harwood stated that the \$5,000 will be used to purchase table covers for the SME Student Chapters.

Harwood thanked the SME Board of Directors and staff for making 2011 a successful year. She noted that the WAAIMEs received 102 scholarship requests during 2011 and distributed scholarships to all applicants. In addition, she reported that the WAAIMEs are giving \$202,000 in U.S. scholarships and \$60,000 in international scholarships.

Membership in WAAIME numbers 615 individuals. The Division has 18 local sections throughout the world.

## 2011 WAAIME Scholarship Recipients

### Missouri University of Science and Technology

Melissa Ann Aldridge, Lori Bindner, Max Boeh, Joseph Brookshire, Gregg Crannick, Rachel Feist, Brittany Ford, Grace Harper, David Hengst, Bin Hou, Matthew McHale, Kaley McLain, Stephanie Mieth-Martin, Catherine Mohrmann, Steven O'Donnell, Marissa Spencer, Jessica Stacy, Katherine Stockdale, Lee Swaim, Allison Tengblad, John Van Gels

### Montana Tech

Scyller Borglum, Robert Farbridge, Robert Gow, Calvin Odom

### Pennsylvania State University

Christopher Brown, Robert Burns, Julianne Carlson, Patrick D'Elia, Luoyi Hua, Chew Leong, Collin Murphy, Annick Nago, Kelvin Abaa, Mosunmola Ogunmola, Aditya Saxena, Everardo Tapia-Vergara, Wenting Xing

### South Dakota School of Mines and Technology

Clarita Begishe, Megan Buurma, Kalli Dinger, Jeramie Dunn, Kathleen Grigg, Ian Markon, James McGough, Angelica Moore, Enkhjin Munkhjargal, Conlan Nelson, Jordan Smith, Jennifer Ward

### University of Arizona

Jonathan Adkins, Christopher Apodaca, Ruby Barickman, Francisco Camarena, Matthew Donahue, John Lyons-Baral, Bree McMaster, Joseph McNaughton, Jason Solomon

### University of Kentucky

Sampurna Arya, Charles Bearse, Greg Brenner, Bradley Coleman, Clayton Cross, Mark Faulhaber, Kathryn Gardner, Joshua Hoffman, David McLane, Mallory Miller, Tessa Monday, David Norton, Nicholas Poston, Fadi Qutaish, Mohammad Rezaee, Jhon Silva-Castro, William Thamrin, Jarrod Willis

### University of Nevada-Reno

Andreas Achleithner, Alison Dorsey, Murya Dube, Colton Dudley, Caitlin Ellis, Garrett Frey, Jarrett Kemmerly, Jason Kline, Susan Konkol, Danielle Molisee, Jessica Pence, Trent Sweeney, Christopher Wear, Zachary Zastoupil

### University of Oklahoma

Jonathan Clark

### University of Utah

Jordan Brough, Eduardo Cordova

### Virginia Tech

Christina Behnke, Anthony Clifford, Erich Dohm, Lauren Gully, Cary Harwood, William Hines, Kathryn Kosloski, Joshua Morris, Ryan Ordnung, Dylan Rowley, Daniel Sadtler

### West Virginia University

Rachel Sellaro



It's time to wrap up year 2011. What a year it has been for the SME Foundation. While we came in slightly short of our fundraising goal of \$486,000 – a stretch from 2010 – we did welcome 35 new donors and re-engaged several from years gone by, including 15 donors who had not given to the Foundation since 1990-1999 and 62 from those that had not given since 2000-2009. With this support, and continued support from those that donate annually, we provide mining educational tools and professional development support for the future of our industry.

- Mii supports teachers and classrooms nationwide with teacher guides and supplements to the school curriculum for math, science and history. We printed and distributed 10,000 packets to teachers. But, we still have more than 50,000 teachers requesting free items (your donations help with printing and distribution costs). The new Mii website, [www.mii.org](http://www.mii.org), has seen an increase in visitors, and free downloads are quickly approaching record numbers.
- GEM participated in three National Science Teachers Association (NSTA) conferences. At each of these, the volunteers and staff reached approximately 2,500 new classrooms.
- The ABET program continues to reach new schools for the accreditation process – even internationally. This year, one of the volunteer leaders made a trip to Abu Dhabi to accredit the mining school.
- Our Professional Engineers Exam Program (PE) saw a record number of 56 attendees for the September prep course for the PE Exam in St. Louis. The test is administered in October of each year.

With all this, we continue to need your financial support. To continue to support and expand our programs effectively, we have set a goal of raising \$650,000 for FY 2012.

But it's not just about the money. We also have a terrific SME and SME Foundation staff to support these programs. And we couldn't do all of this without our volunteers – all those that give their time and talents to the Mii, GEM, ABET and PE programs and to the Foundation Board of Trustees.

If you would like more information on any or all of the programs the SME Foundation supports, visit our website or contact Nancy Smith at [smith@smenet.org](mailto:smith@smenet.org) or 303-948-4224. 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

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

## **SME Foundation 2011 highlights**

Much has been happening at the SME Foundation this year. The Trustees approved a market study in the industry to see if a capital campaign would be well received. We interviewed with 39 top-level executives in the mining, tunneling, engineering and construction industries. Most agreed it was the perfect time to start such a support campaign for the Foundation. Thus, we will be telling you more in the near future about this exciting time for the SME Foundation. You too can be a part of history in the making.

We retained most of the 2010 donors to the Foundation, and we succeeded in re-engaging supporters from the past. From those that had not contributed to the Foundation from 1991-1999, we picked up 15 supporters. Sixty-nine joined us in support from 2000-2009, and we found 32 new donors that had not given to the Foundation before. Thank you to all that helped make this possible.

A very special thank you goes to all our donors for the FY 2011 with the SME Foundation.

## **MEC merger**

The GEM and Mii committees came together and decided it was time to merge the two functions into one that will be called the Mineral Education Coalition (MEC). This will allow a more focused and strategic approach to educating not only the K-12 students, but will also allow the groups to better focus on the general population and the opportunities to engage adult groups in minerals education.

## **Scholarships**

Our scholarships are going strong. We added a new one in memory of Rong Yu Wan who was a valued SME Member and former employee of Newmont Mining. The George V. Weisdack Memorial Scholarship supported its first recipient with a \$2,000 award. The Syd S. Peng Ground Control in Mining Award and the Syd S. and Felicia F. Peng Ground Control in Mining Scholarship continues to be a strong support for students and professionals in the ground control studies.

We look forward to continued success for these programs within the SME Foundation. Without everyone’s help, we would not exist. We thank you.

Two very important units were developed and launched on the Mii website, [www.mii.org](http://www.mii.org), in 2011. "Mining Careers" was posted on the website in June and has received nearly 1,000 visits, which translates directly to downloads. This program educates middle and high school students about the opportunities in the minerals industry.

"Mining 101" was launched in August 2011. The slideshow has been downloaded more than 2,225 times, and the accompanying teacher's guide has been visited more than 800 times. Designed for K-12 educators, the program addresses aspects of the minerals industry, including exploration, mapping, EIS requirements, sustainability, metallurgy, careers, reclamation and products that come from mining.

In October 2011, [www.mii.org](http://www.mii.org), experienced its greatest traffic numbers ever, with nearly 7 million hits, more than 273,000 visits and 1.3 million page views. Half of the visits are from returning visitors. October is traditionally our busiest month, but the phenomenal increase in traffic that the website has seen is most likely due to our redesigning the home page in January 2011. The new design is now engaging and entertaining as well as educational.

We distributed 5,200 free Teacher Helper packets, containing the folded paper Ultimate Periodic Chart, to teachers in the Mii database. The Ultimate Periodic Chart and the Blue Marble Vinyl Periodic Chart continue to be our most requested teaching tools.

Product sales continue to be stable despite the current economy. The Blue Marble Vinyl Periodic Chart, Rock Odyssey DVD kit, and gold panning supplies are the most popular sales items. New products include laminated mineral bookmark sets and bags of gem ore for panning. The Mii Minerals Baby is updated annually, as well as the per capita mineral usage graphic. A press release was issued, graphics posted on the website, and "Baby Cards" printed for distribution. Mii received a grant to purchase a Smartboard and associated training and materials. We have begun converting Mii materials into documents that can use this dynamic technology.

The outreach brochure, which contains sponsorship and product sales opportunities, as well as the promotional brochure, were updated and printed. Both are available as fundraising tools for Mii supporters. New materials posted on the website include a copper unit, a molybdenum unit and seven word games. We are currently researching software that will allow us to feature electronic word search games, multiple choice quizzes, jigsaw puzzles and other interactive games on the website.

Overall, the Mii has seen tremendous growth during the past year, and our reputation for providing quality educational materials that reflect modern mining techniques, and the everyday products that come from them, is unsurpassed.

**The Mission of the Mineral Information Institute (Mii) is to provide information and materials to teachers and students that result in an understanding that mineral and energy resources are essential to society and are produced in an environmentally and socially responsible manner.**

**SME is the only organization in the United States that prepares examination questions for the licensure of mining and mineral processing engineers. Without this program, there would be no state certification for engineers in mining and mineral processing.**

The Professional Engineers (PE) exam for 2011 was administered to 79 registered examinees Oct. 28, 2011. During the last six years, the number of people taking the Mining and Mineral Processing Exam, were 47, 49, 42, 47, 71, and 70.

The PE exam for 2012 has been assembled and was sent to NCEES in June 2011. Portions of this exam will be pre-tested by SME PE Exam Committee members at the SME Annual Meeting February 2012 in Seattle, WA.

The PE exam for 2013 will be submitted in June 2012. The Exam Committee is doing an excellent job of submitting and reviewing problems. More than 13 problems were finalized and sent to NCEES for the bank. As of Oct. 15, 2011, 401 problems have been banked to populate an 80-question exam.

For the last six Mining and Mineral Processing PE exams, the quality of the exam as measured by psychometric analysis is strong and consistent. This is due to the long term excellence of the Exam Committee and the outgoing Exam Coordinator Dave Krebs.

The PE review course was held this year with a record number of 56 attending (versus 40 in 2010).

The EPE Committee meeting was attended by the SME Exam Coordinator in October. The various engineering disciplines gave their reports on the status and metrics of their PE exam results. The most significant action item for the meeting was the inception of work to identify better ways to measure PE exam quality for engineering disciplines having a small yearly examinee count. These disciplines include agricultural, architectural engineering, control systems, fire protection, industrial, metallurgical and materials, mining and mineral processing, naval architecture and marine engineering, nuclear, petroleum and software engineering.

SME Exam Committee members Ted Wilson and Kelvin Wu participated in a systematic study, called the PAK, to sustain the quality of the Fundamentals of Engineering Exam (the EIT exam). A survey was developed for distribution to PEs for input to the exam content.

SME continued to participate in regular meetings of a group called Licensing That Works (LTW), composed of various professional societies including SME. The LTW mission is to find alternatives to requiring that PE candidates have masters or equivalent (MOE) education as a qualifying credential. MOE was promulgated by NCEES recently as a model law to take affect in 2020 should the State Boards of PE Registration adopt it. The August LTW meeting centered on methods to drive participation into member professional societies.

**A**BET, Inc. is the recognized accreditor for college and university programs in applied science, computing, engineering and technology. Among the most respected accreditation organizations in the United States, ABET has provided leadership and quality assurance in higher education for more than 75 years.

ABET accredits more than 3,100 programs at more than 600 colleges and universities.

In 2010, the ABET assigned five accreditation visits to the SME Visitor Selection Committee. The schools requesting visits were:

- **University of Alaska** – Mining Engineering Program (BS) visited by Rick Honaker on Oct. 9-11, 2011.
- **University of Alaska** – Geological Engineering Program (BS) visited by Joel Kuszmaul on Oct. 9-11, 2011.
- **University of Nevada–Reno** – Mining Engineering Program (BS) visited by David McMahill on Sept. 25-27, 2011.
- **University of Nevada–Reno** – Geological Engineering Program (BS) visited by Diane Wolfgram on Sept. 25-27, 2011.
- **The Petroleum Institute** – Petroleum Geosciences (BS) visited by Earl Hoskins on Oct. 30-Nov. 1, 2011.

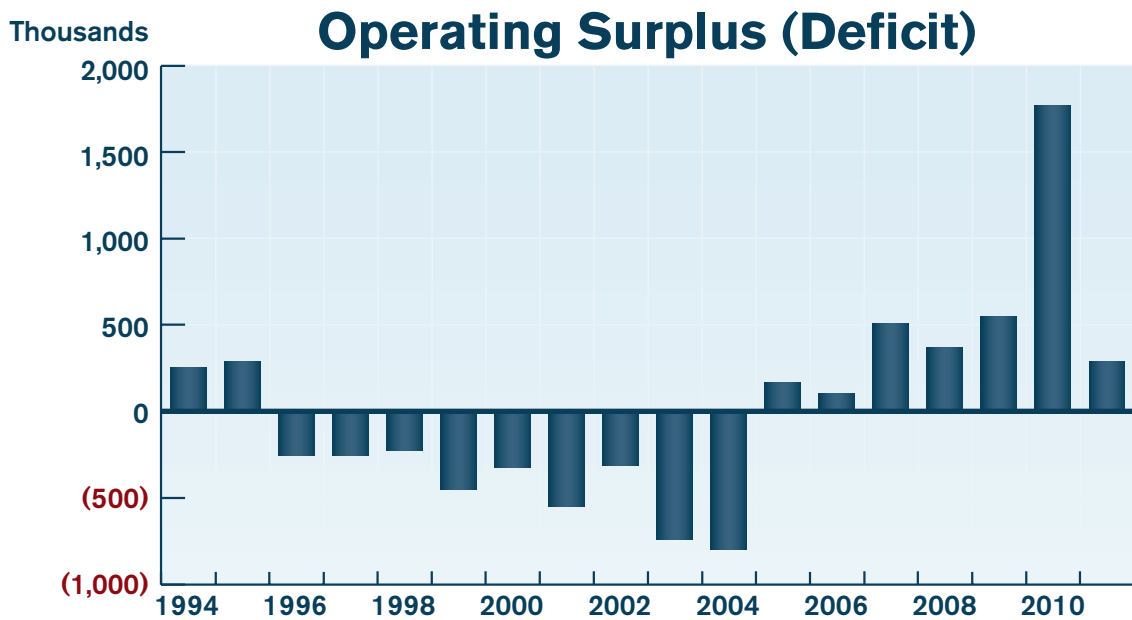
## SME Foundation Fundraising Report

	FY 2008	FY 2009	FY 2010	FY 2011
<b>ACTUALS FOR 5 PROGRAM FUNDS</b>	<b>\$123,986</b>	<b>\$359,834</b>	<b>\$409,203</b>	<b>\$379,455</b>
<b>BUDGETS FOR 5 PROGRAM FUNDS</b>	<b>\$165,500</b>	<b>\$523,600</b>	<b>\$477,000</b>	<b>\$486,000</b>
1. MII		\$259,688	\$305,170	\$267,700
2. GEM	\$11,899	\$8,145	\$39,010	\$22,375
3. GENERAL FUND	\$53,552	\$57,132	\$60,167	\$82,005
4. ABET, INC.	\$31,525	\$30,995	\$1,796	\$1,440
5. PE PROGRAM	\$27,010	\$3,874	\$3,060	\$5,935
<b>OTHER FUNDS WITHIN FOUNDATION:</b>				
ENDOWMENT FUNDS	\$20,642	\$1,325	\$1,162	\$8,941
MMSA/PAST PRES SCHOLARSHIP	\$51,915	\$1,415	\$3,046	\$2,070
RONG YU-WAN SCHOLARSHIP			\$13,538	\$3,300
GEORGE WEISDACK SCHOLARSHIP			\$11,150	\$33,550
PENG GROUND CONTROL AWARD	\$28,435	\$47,913	\$61,994	\$16,782
MCINTOSH SCHOLARSHIP		\$750,000		
<b>ALL CONTRIBUTIONS</b>	<b>\$224,978</b>	<b>\$1,160,487</b>	<b>\$500,093</b>	<b>\$444,098</b>

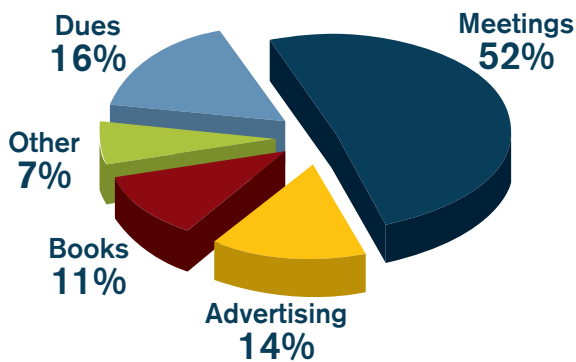
During 2011, all operational areas of the Society's revenue improved over 2010 and over budget. It marks the seventh consecutive year of operational surplus, in spite of the one-time costs associated with the move to the new headquarters building and the costs of carrying two buildings.

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.

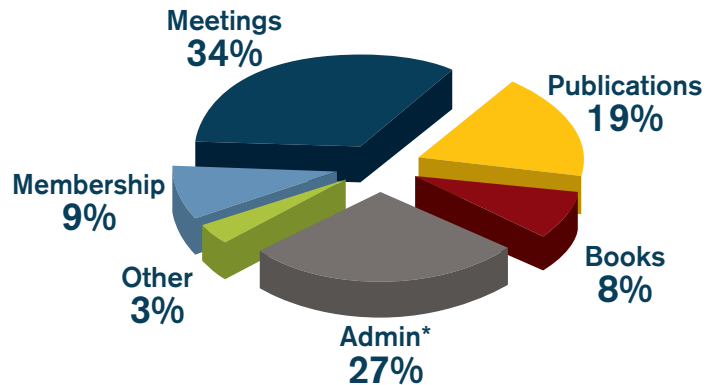
Net assets for all entities of SME 2011 exceeded \$18 million.



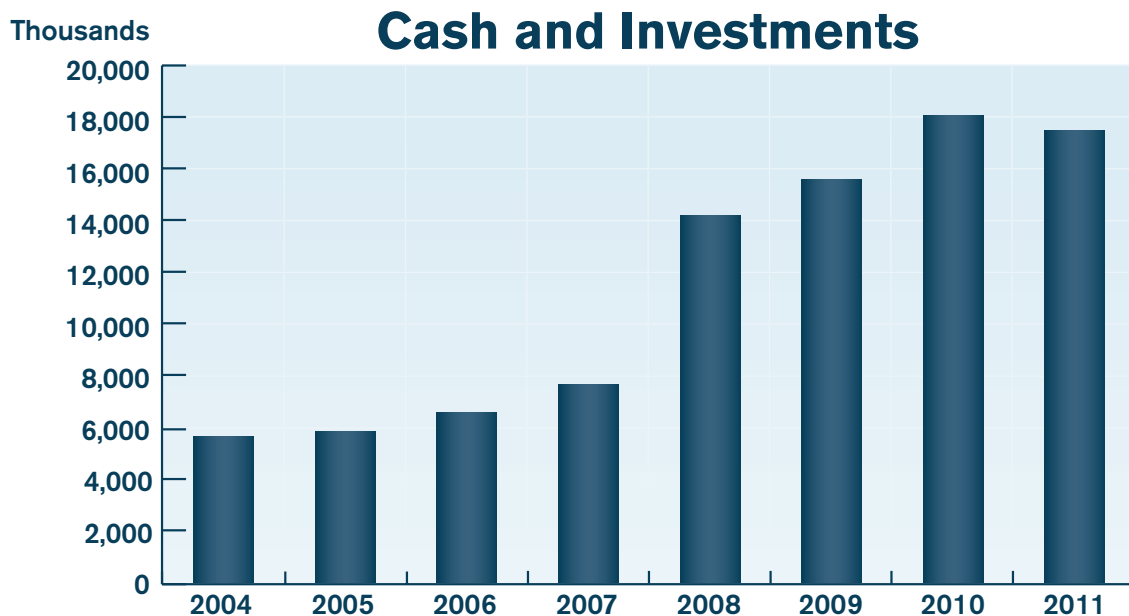
### Operating revenue



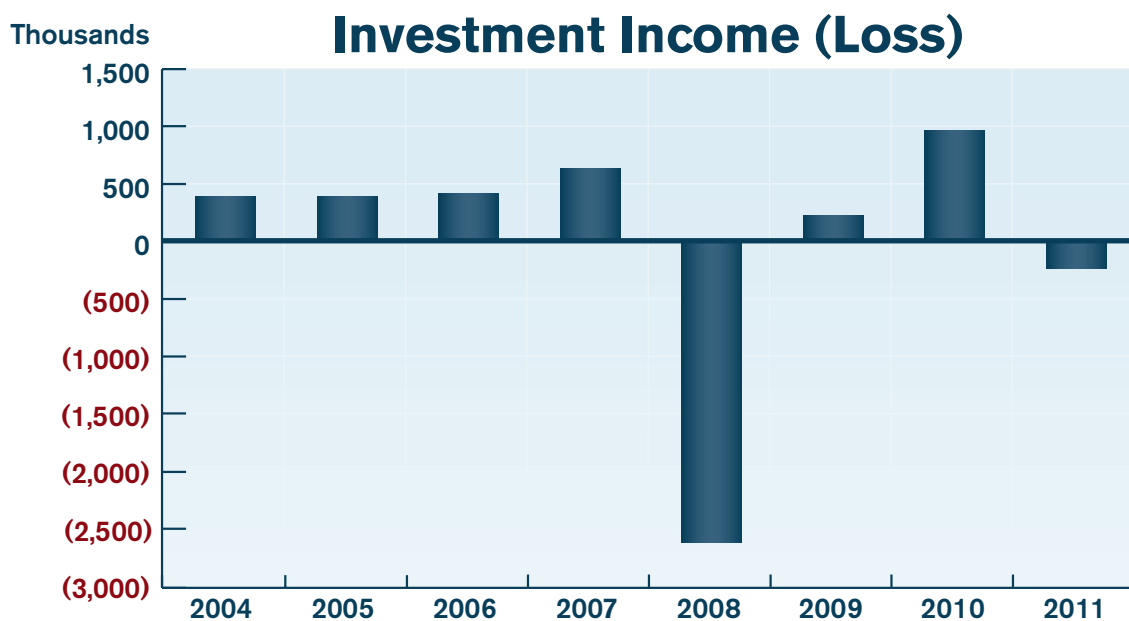
### Operating expenses



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



WAAIME merger with SME in 2008 included \$8.2 million in new investment dollars. Approximately \$10.8 of investments are restricted for specific activities of the SME Foundation, SME division activities and WAAIME scholarships.



**SME Past Presidents**

*(living as of 10/31/2011)*

- 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)
- Donald W. Gentry** (1993)
- Mark A. Anderson** (1992)
- Ted H. Eyde** (1991)
- Roshan B. Bhappu** (1990)
- Robert E. Murray** (1989)
- Haydn H. Murray** (1988)
- Thomas V. Falkie** (1985)
- Maurice C. Fuerstenau** (1982)
- Robert S. Shoemaker** (1978)
- H. R. Spedden** (1970)

**AIME Awards**

- Hal Williams Hardinge Award ····· Mike O'Driscoll
- Erskine Ramsay Medal ····· Michael J. Sapko
- Robert H. Richards Award ····· Gary L. Simmons
- William Lawrence Saunders Gold Medal Award ····· Harry F. Cougher
- Mineral Economics Award ····· Phillip Crowson
- Mineral Industry Education Award ····· Christopher J. Bise
- Frank F. Aplan Award ····· Peter J. Bethell
- Charles F. Rand Memorial Gold Medal ····· Richard C. Adkerson
- AIME Honorary Member ····· Barbara A. Filas

**SME Awards**

- Special Recognition ····· Len & Rosa Harris
- President's Citation (Individual) ····· Hassan El-Shall  
Jessica Elzea Kogel  
Gary Huber
- President's Citation (Local Section Excellence) ····· Michael C. Korb  
Rohini P. Sharma
- Ivan B. Rahn Education Award ····· H. Peter Knudsen
- Robert M. Dreyer Award ····· Thomas C. Patton
- Mii Outstanding Achievement ····· Mining & Metallurgical Society of America
- GEM Individual Award ····· Brian Shaffer
- Syd S. Peng Ground Control in Mining Award ····· Keith A. Heasley
- GEM Student Chapter Award ····· West Virginia University  
Student Chapter
- Outstanding Student Chapter ····· Virginia Polytechnic Institute  
& State University Student Chapter
- Henry Krumb Lecturers (Recognized) ····· David W. Armstrong  
Michael Karmis, Rimas C. Pakalnis  
John T. Shively, Mark A. Smith
- Past President's Plaque ····· Nikhil C. Trivedi
- Distinguished Members ····· Jürgen F. Brune, Yoginder P. Chugh  
William A. Hustrulid, Francis Martino

*2011 Awards and Scholarships were presented to recipients on March 2, 2011 at the 2011 SME/AIME Annual Meeting Dinner at the Hyatt Regency Convention Center in Denver, CO.*



## 2011-2012 SME Division Award Recipients

### Coal & Energy Division Awards

Distinguished Service Award	Gary M. Buchan
Howard N. Eavenson Award	Sukumar Bandopadhyay
Stefanko Best Paper Award	Jeffrey M. Listak Gerrit V.R. Goodman Timothy W. Beck
J.W. Woomer Award	Ryan M. Murray
Coal & Energy Division Chair Award	Thomas W. Camm
Rock Mechanics Award	Prakash R. Sheorey

### Environmental Division Awards

Distinguished Service Award	Mark D. Stock
Environmental Division Chair Award	Anne L. Williamson

### Industrial Minerals & Aggregates Division Awards

A. Frank Alsobrook Distinguished Service Award	William H. Langer
Robert W. Piekarcz Award	Abani R. Samal Gordon M. Stevens
Young Scientist Award	John Michael Randolph
Hal Williams Hardinge Award	Mike O'Driscoll
Industrial Minerals & Aggregates Division Chair Award	Fred G. Heivilin

### Mineral & Metallurgical Processing Division Awards

Antoine M. Gaudin Award	Janusz S. Laskowski
Arthur F. Taggart Award	Ronald Wiegel
Milton E. Wadsworth Award	William Davenport
Outstanding Young Engineer Award in Memory of Subhash Chander	Henry J. Walqui
Robert H. Richards Award	Gary L. Simmons
Millman Award	D.R. Nagaraj

### Mining & Exploration Division Awards

Ben F. Dickerson, III Award	Gregory E. McKelvey
Distinguished Service Award	Hugh B. Miller
Daniel C. Jackling Award	Richard L. Bullock
Outstanding Young Professional Award	Philip J. Joggerst
William L. Saunders Gold Medal	Harry F. Cougher
Robert Peele Memorial Award	Rubén Andrés Terrazas Prodo
Mining & Exploration Division Chair Award	Robert V. Washnock

**Coal & Energy Division Scholarships**

Jonathan Adkins, *University of Arizona*  
 Bradley Coleman, *University of Kentucky*  
 Erich Dohm, *Virginia Polytechnic Institute and State University*  
 Jeramie Dunn, *South Dakota School of Mines and Technology*  
 Seth Fredrick, *University of Utah*  
 Kristin Guerin, *Colorado School of Mines*  
 John King, *University of Alaska-Fairbanks*  
 Ross Marshall, *Southern Illinois University, Carbondale*  
 Drew Mason, *The Pennsylvania State University*  
 Joshua Skeens, *Virginia Polytechnic Institute and State University*  
 Toby Stanley, *New Mexico Institute of Mining & Technology*

**Environmental Division Scholarships**

Arturo Cordano, *Colorado School of Mines*  
 Tessa Monday, *University of Kentucky*  
 Angela Moyer, *The Pennsylvania State University*  
 Krystal Walker, *University of Utah*

**Gerald V. Henderson Memorial Scholarship (IM&AD)**

Mark Rotz, *The Pennsylvania State University*

**Richard R. Klimpel Scholarship (MPD)**

Kalli Dinger, *South Dakota School of Mines and Technology*

**Mineral & Metallurgical Processing Division Scholarship**

Sandra Hunter, *Colorado School of Mines*  
 Sarah Milne, *University of Alaska-Fairbanks*

**Mining & Exploration Division Scholarships**

Jordan Brough, *University of Utah*  
 David McLane, *University of Kentucky*  
 Anna Perry, *University of Nevada, Reno*

**2011-2012 SME Foundation Scholarship Recipients**

**MMSA/SMEF Presidential Scholarship**

Laird Horrigan, *Virginia Polytechnic Institute and State University*

**Syd S. Peng Ground Control in Mining Scholarship**

Drew Mason, *The Pennsylvania State University*  
 Jonathan Reisterer, *Southern Illinois University, Carbondale*

**SMEF McIntosh Scholarship**

Richard Boakye-Yiadom, *University of Utah*  
 Robert Burns, *The Pennsylvania State University*  
 Brandon Burton, *Southern Illinois University, Carbondale*  
 Andrew Goderwis, *University of Kentucky*  
 Paul Phillips, *Virginia Polytechnic Institute and State University*  
 Benjamin Sutton, *Missouri University of Science & Technology*

**AIME/SME Henry Dewitt Smith Scholarship**

Sanja Miskovic, *Virginia Polytechnic Institute and State University*

*See page 38 for a list of all 2011 WAAIME Scholarship recipients.*





# SME

Society for  
Mining, Metallurgy  
& Exploration

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