



MINING FOUNDATION OF THE SOUTHWEST

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MARCH 2013

CONCENTRATES

2013 OFFICERS



Corolla Hoag—President Cori is an Arizona-registered geologist with over 25 years of experience in the mining industry. She received her B.S. (geology) from Western Washington University and her M.S. (economic geology) from The University of Arizona (UA). She is a principal with SRK Consulting based in Tucson. Her previous job experience includes exploration and mine development work with Freeport-McMoRan Gold Company, Cyprus Copperstone and Tohono, and Magma Copper/BHP Copper. Her work spans mining geology, site assessments and feasibility projects, and environmental permitting in mine development, environmental permitting. She is an officer of Arizona Geological Society and an active member of SME.



Mark Baker—VP & Hall of Fame Chair After receiving his BSEE from UA, Mark worked in the semiconductor industry before becoming a founding member of Modular Mining Systems Inc. in 1979. At Modular, he was responsible for the development, implementation and exploitation of what has become the world's leading mine operations management and control system. He was instrumental in the acquisition of Modular by Komatsu Mining Systems, Inc. in 1996. Mark directed the development and deployment of Komatsu's Autonomous Haulage System, the world's first commercial driverless haul truck system. He was appointed to the board of KMS in 2000. Mark retired in 2004 to start CheckMark Consulting Inc. to help mining companies and suppliers find the best solutions for their technology based issues. Mark has obtained four US and one international (WIPO) patents related to mining technology, is a current member of MGE Industrial Leadership board at the U of Arizona, was a past Chair for the Arizona Conference of the SME and served as a director of the NanoSteel Company.



William H. Drescher—Treasurer William H. Drescher has over 30 years experience in corporate and academic management in R&D in the fields of extractive metallurgy of base and refractory metals, ceramics and high performance alloys, copper processing, products and marketing as well as expertise in the environmental aspects of copper in health and ecotoxicity. In his career he has been Assistant Director of Research for Union Carbide Corporation's Mining and Metals Division, Dean of the College of Mines of The University of Arizona, President of the International Copper Research Association, Inc. and most recently, the Vice President of Technology of the International Copper Association, Ltd. An internationally recognised expert in the processing, products and environmental aspects of copper, Bill has mainly focused on promoting good science and technology in these subjects. He is the current Chairman of a not-for-profit organization, SciEnTeK-12, Inc.



Robert Metz—Secretary Bob received his degree in Geological Engineering (Mining) at the Colorado School of Mines and completed graduate-level course work in management and geological engineering at Arizona State University and UA. Bob has over 50 years experience in detailed geologic studies and exploration with special expertise in porphyry Cu-Mo and Au deposits, in detailed mapping, recognition and identification of exploration targets and determination of their viability. Bob has worked as a Mining Geological Consultant directing and participating in all phases of base, precious metal and industrial mineral exploration projects from initial detailed geologic mapping, identifying exploration targets, drilling and interpreting results, to compiling geological structural data for pit design for major corporations including Phelps Dodge Mining Company, Battle Mountain Exploration Company, Duval Corporation, Duval Sierrita and Kennecott Copper Corporation in USA, Latin America, and Australia.

PRESIDENT'S CORNER by Cori Hoag

We start the year on a positive note with strong metals prices, continued development of new projects in Arizona, and with the Foundation in excellent condition thanks to the committed efforts of the Board of Governors, members, Committee participants, our Sponsors, and our new Executive Manager Amanda Brick.

MFSW Educational Outreach Coordinator Pam Wilkinson continues to add new schools to the repeat requests for presentations from the many teachers who find her materials interesting and engaging for their students. I trust the success of the education program will continue to grow (along with generous sponsorship) so that we'll eventually need to hire a part-time or full-time teacher to augment Pam's efforts. Meanwhile, we are starting to work with Dr. Anne Woosley, Executive Director of the Arizona Historical Society, to update our Hall of Fame display at the AHS Museum in Tucson. We're ready to catch up with the latest in museum display technology and create a more interactive kiosk-style display to replace the plaques that have completely filled the wall in the mining area of the museum. This effort will be the first step in a longer process to work with AHS staff and board members to provide input on updating other aspects of the mining display.

I'll end by giving special kudos to outgoing President James Wm. White, Secretary Larry Dykers, and Executive Manager Marta Berry and thanking all who have served on the various committees for their much appreciated service to the Foundation.

HALL OF FAME BANQUET 2013

The Hall of Fame committee has been working diligently to finalize appointments of all awards recipients and has begun dialog with JW Marriott Starr Pass to create an improved venue for the next banquet.

MEMBERS' CORNER

New Members:

Marta Berry— Mrs. Berry has joined Mintec and she, along with her two young daughters, wish to acknowledge the outpouring support during their challenging transition to life without Larry Berry, a long time Mintec employee and a MFSW member.

520-490-8272 marta.berry@mintec.com

Address changes:

Jack V. Everette— jackveederevetett@gmail.com

Barbara A.Filas—barbfilas@gmail.com

OUTREACH CORNER by Pam Wilkinson

SME has been working for over 10 years to have the Boy Scouts of America reinstitute a mining related merit badge. To date a name for the merit badge has been decided upon: Mining in Society. The goal is to create a factual and comprehensive program of instruction that will be educational, informative and fun. The key components of the badge will be based on the steps involved in the complete mining process: exploration, permitting, excavation, processing, production and reclamation. An overview of the badge requirements needs to be ready by early summer 2013 and will then be reviewed by the Boy Scouts editors. The proposed launch of the badge will be at the SME annual meeting in Salt Lake City, February, 2014.

Included in the process of developing the badge is an invitation for SME from BSA to be included at the July 15-24 National Jamboree in the merit badge area. This is the first time the Jamboree will be held at its new permanent location, The Summit, Bechtel Family National Scout Reserve.

SME needs 20 volunteers to staff the booth in the merit badge area and MFSW has agreed to fund my trip not to exceed \$1600. This is another excellent opportunity for me to share my knowledge of and enthusiasm for the mining industry to scouts from around the country.

For those members who have yet to renew their membership, a renewal form is attached for your convenience.

Kevin Horstman, R.G.—Dr. Horstman is an independent geologist specializing in remote sensing and structural geology.

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- **TREASURY REPORT:** MFSW is in good financial standing with over \$171,000 in cash savings.
- **FINANCE REPORT:** Funds invested in Vanguard realized a profit of \$21,000. Committee will determine future investments strategies.
- **FORESIGHT REPORT:** Curriculum reorganization has hindered the implementation of many ideas and new chair will seek viable solutions.
- **MEMBERSHIP REPORT;** All members are encouraged to recruit new members. Members will again participate in Engineers' Week Mall Day in Tucson, AZ.
- **WEBSITE REPORT:** Plans are being formulated to archive more historical data.
- **HALL of FAME REPORT:** 2012 banquet was profitable; committee will determine pricing for the next banquet after meeting with JW Marriott Starr Pass personnel.
- **MFSW DISPLAY:** Members are seeking ways to improve current display at the AHS and hope to install a kiosk with narration, graphics, set and seating design.
- **SME REPORT:** 18 scholarships totaling \$18,500 were awarded in October 2012 and an additional \$25,000 will be offered this spring. Cori Hoag will represent MFSW to receive the Minerals Education Coalition Partnership Appreciation Award.
- **U of A LOWELL INSTITUTE REPORT:** 2013 marks the 125th anniversary of the formal creation of the Arizona School of Mines; the Geology program is ranked #1 in the US; and 1/3 of incoming applicants declare Economic Geology as a first choice. Dr. Mary Poulton was recently invited to speak with the Board of Regents on the success of her program.
- **OUTREACH REPORT:** Pam Wilkinson met with over 6500 students and teachers this past calendar year. "Rocks and Minerals, what do you do with them?" and its accompanying travel museum is the most popular program to date. Freeport McMoran sponsored a 6 week after school program entitled "Mine Zone" and over 125 students attended the U of A summer engineering camps this past June.
- **WELCOME NEW BOARD MEMBERS and COMMITTEE CHAIRS:** In addition to the new executive committee, Jean Austin, Mark Baker, Roshan Bhappu, John Broderick, Larry Dykers, Don Earnest (Foresight Committee Chair), Marian LaLonde, PK Rana Medhi, Ron Roman (Audit and Finance Chair) and James Wm. White represent the newly elected officers and chairs.
- **MISCELLANEOUS:** Members approved funding for Pam Wilkinson to attend the 2013 National Boy Scout Jamboree.



2012 SME President Drew Meyer presents the MEC Appreciation Award plaque recognizing MFSW's education program to 2013 MFSW President Cori Hoag.



Eben Robisson of Southwest Energy and Rob Pratt of SME Tucson Section Chair setting up Delayed Explosive Blasting simulation at the February 2013 Engineers Week Mall Day at the Foothills Mall in Tucson.

CALENDAR

April 5 to 11, 2013

AIPG Golden Anniversary Trip to Chihuahua, Mexico
For details please contact Dawn Garcia, dgarcia@srk.com

April 14, 2013

U of A SME Student Chapter BBQ at San Xavier Mining Lab,
11:00 am to 1:00 pm
For details please contact smetucson.org

April 15 to 19 , 2013

MineQuest 2013 - the 30th anniversary of Mintec's collaborative seminar series at Westward Look, Tucson, AZ

April 19, 2013

SME 7th Annual Scholarship Golf Invitational: Mesa View Golf Course, Bagdad, AZ. Contacts:
Karl_phelps@FMI.com, Sarah_Barcelona@FMI.com

May 5 to 8, 2013

CIM 2013 Convention:
Metro Toronto Convention Center,
Toronto, Ontario, Canada
<http://web.cim.org/toronto2013>
mgloutnay@cim.org

July 15 to 24, 2013

National Boy Scouts Jamboree, The Summit,
Bechtel Family National Scout Reserve, VA

September 14, 2013

National Mining Hall of Fame Banquet
Brown Palace Hotel, Denver, CO
Interested members for two free tickets to attend the banquet should contact MFSW office.