



MINING FOUNDATION OF THE SOUTHWEST
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CONCENTRATES

PRESIDENT'S CORNER



Opportunity for Renewal

Our organization as it is designed today has taken us to great place where we can see that we are making a difference. Our predecessors did an excellent job of having a vision and executing on the mission to achieve the vision. As with any organization it's healthy to periodically review the current vision and structure to see if the changing environment outside of the organization provides any opportunity for renewal, course correction, tweak or overhaul. Being relatively new to this organization along with half a dozen other members and board members we naturally see opportunities to make changes to improve processes.

In taking advantage of a renewal opportunity you must ask how do things work today, how could they work and how should they work in the future. One example of something that we might want to change is our fundraising method. Right now we are trying to fundraise using the most difficult technique, making calls to people and asking them to donate. This method is very awkward for the "asker" and can be offensive to the "askee". As we see in our world today people are leveraging technology to change the game in every aspect of our lives. Technology has helped facilitate more efficient and less offensive techniques for fundraising.

There are applications that do real-time fund raising during a dinner or event that are quite effective. Certain other apps can reach out to a larger donor group that enable more people to participate with smaller individual donations. These types of changes have put more total dollars in the charity or non-profit organizations' coffers. Another idea might be how can we attract a famous speaker to our banquet that people would pay money to hear speak. These alternative fundraising methods lessen the uncomfortable interaction between the "asker" and "askee", and can be very effective.

I would like to hear feedback from our regular members, committee members and board members if we should consider a renewal process. Right now might be a good time since we have quite a few new members, a new executive director and we have a new outreach coordinator. Finally, we should encourage our long-standing members to be open to new ideas from our newer members.

PRESIDENT'S CORNER



December Awards Banquet to Induct the 2018 Honorees

Harry M. (Red) Conger
President and Chief Operating Officer – Americas
Freeport-McMoRan Inc.
Inductee



Harry M. (Red) Conger is president and chief operating officer - Americas, and is responsible for management of the company's North and South America copper mining operations and Climax Molybdenum Co. This includes nine mining operations in North America, two in South America, and the associated downstream processing facilities. These operations employ more than 15,000 people and have annual copper production of 2.7 billion pounds and annual molybdenum production of 92 million pounds from mines operated by Freeport-McMoRan. He also has environmental and corporate social leadership responsibilities in North and South America.

Mr. Conger began his career at the Kennecott copper mine at Bingham Canyon in Utah in 1977, which led to a 20-year career with Phelps Dodge Corporation overseeing all aspects of mining and processing at several North America operations and all South America operations. During that time, he progressed through a multitude of senior management roles of increasing responsibility before becoming president of Freeport-McMoRan Americas in 2007, following Freeport-McMoRan's acquisition of Phelps Dodge that same year. He assumed the role of president and chief operating officer in July 2015.

Throughout his career, Mr. Conger has been recognized for his leadership in safety and is considered a leader in change management and production efficiency. He recently served as chairman of the National Mining Association 2014-2015, where he has been a member of the Executive Committee since 2007. He also served as co-chairman of the initiative Creating Global Prosperity: The Campaign for Mining, launched by the Society for Mining, Metallurgy and Exploration.

Mr. Conger was bestowed the honor of being named the 2018 Ankh Award Winner and Copper Man of the Year for his leadership in promoting improvements in workforce safety and building strong collaborative relationships with local communities. In 2017, Mr. Conger was the honored recipient of the Charles F. Rand Memorial Gold Medal in recognition of his leadership in safety, change management and production efficiency and for his contributions to SME. In 2016, Mr. Conger was selected the William N. Poundstone Lecturer by the Benjamin M. Statler College of Engineering and Mineral Resources at West Virginia University. In 2009, Mr. Conger received the Daniel C. Jackling Award for his significant contributions to technical progress in mining and in 2007 was the recipient of the Colorado School of Mines Distinguished Achievement Medal. Mr. Conger is a former commissioner on the New Mexico mining commission, and served on an Arizona water review commission.

Mr. Conger received his bachelor of science in mining engineering from Colorado School of Mines. He has completed post-graduate executive management studies at Duke University Fuqua School of Business, and Whitmore School of Business and Economics at the University of New Hampshire.

He and his wife Sissy have four children and reside in Phoenix, Arizona.



FREEPORT-McMoRAN



Dr. Hugh B. Miller
Associate Professor, Mining Engineering Department
Colorado School of Mines
Medal of Merit Recipient

Dr. Hugh B. Miller is an Associate Professor in the Mining Engineering Department at the Colorado School of Mines (CSM), where he teaches courses and conducts research in a variety of subjects including mine design & operations, project feasibility, occupational safety, and hydro-excavation. While at CSM, Hugh has also served as the Interim Department Chair for Mining Engineering, as a representative on the Faculty Senate, an administrator for the Western Mine Safety Training Center, and on countless internal committees associated with student activities, institutional governance, and departmental operations.

Before joining CSM in 2005, Hugh spent 6 years teaching at the University of Arizona, Mining & Geological Engineering Department and was the Director of the San Xavier Mining Laboratory and Co-Director of the International Center for Mine Health, Safety, and Environment.

Prior to entering academia, Hugh worked 13 years for several mining, resource, and engineering companies in capacities ranging from mine operations to that of management, including four years as Director of Operations for International Engineering Technology, Inc. (IET). At IET, Hugh oversaw a wide range of projects related to equipment development and technologies associated with underground mining, civil-construction, and drilling systems. Through his career, he has served on the Boards of numerous companies and professional organizations and regularly consults in the technical and economic evaluation of mines and mineral resources, as well as the integration of new technologies and equipment in mining and excavation. Hugh currently serves as a technical advisor for RAMAX Ltd. and as a Director for the Society for Mining, Metallurgy, & Exploration (SME). Hugh is extremely active in several professional and civic organizations, and will serve as the 2019 President of SME.

As voted by graduating students, Hugh has received a combined 15 teaching and mentoring awards while working at two different universities over the 17 years he has been academia. He received the SME Presidential Citation in 2015 and the SME Mining & Exploration Division Distinguished Service Award in 2011. Hugh was inducted as a SME Distinguished Member in 2012 and received the AIME/SME Mineral Industry Education Award and the AIME Honorary Member Award in 2017.

Hugh received his undergraduate and graduate degrees from the Colorado School of Mines and is a registered "Qualified Person" for Mining and Mineral Resource Estimation by MMSA.

Miller and his wife, Nadia, a petroleum engineer, have been married for 31 years and live in Golden, CO. They have two sons, Matt and Jerry, who are both mining engineers and work for Southwest Energy and Intrepid Potash respectively.





Marian C. Lalonde

Partner

Quarles & Brady, LLP

Medal of Merit Young Professional Recipient

Marian LaLonde vividly remembers breathing a sigh of relief when she discovered a local nonprofit dedicated to helping homeless youth -- Youth on Their Own ("YOTO"). She was a high school junior living on her own and working two jobs. She wasn't just thankful for YOTO's financial assistance and free toiletries, but for the emotional support as well. YOTO's encouragement was a turning point in a life previously marked by violence and juvenile delinquency. LaLonde turned her focus towards horses and an agricultural education program that she credits with saving her life. She was selected as Arizona's outstanding vocational student and was honored as one of Tucson's Ten Outstanding Teen Citizens. Lalonde was intent upon continuing her education at the University of Arizona and pursuing a degree in agriculture, which she accomplished in 2001. She then went on to earn her Juris Doctorate at the University of Arizona,

James E. Rogers College of Law in 2006.

Lalonde worked as a Rule Writer for the Pima County Department of Environmental Quality and, after earning her law degree, she was hired as an Associate Attorney at DeConcini McDonald Yetwin & Lacy PC. There she became a shareholder and honed her skills in mining law under the tutelage of John Lacy. She was honored in 2008 as the 40 Under 40 Woman of the Year by Tucson Business Edge and has been named on Southwest Super Lawyers® magazine Rising Stars list from 2014 – 2017.

In 2013, Ms. LaLonde joined the Tucson office of Quarles & Brady LLP as a Partner in the Energy, Environment & Natural Resources Practice Group. Her practice now focuses on real estate, public and tribal lands, natural resources, mining, environmental, energy, corporations, tax-exempt organizations, and equine law.

Ms. LaLonde served on the Board of the MFSW from 2013 – 2014 and led the Strategic Planning Effort of the MFSW in 2014. Additionally, LaLonde has served and currently serves on the Board for several non-profit organizations including the Community Foundation for Southern Arizona and YOTO. LaLonde also continues to advocate for at-risk youth by speaking at events and seminars about her experiences in foster care and as a homeless teenager.

In her spare time, Ms. LaLonde competes in the eventing and show jumping disciplines with her horses Scarlett, Brooklin, and Owen. Ms. LaLonde also enjoys life on a ten-acre mini ranch with her husband Greg, six dogs, and one cat.

125⁺
YEARS OF
SERVICE

Quarles & Brady **LLP**



Sundt Construction, Inc.

2018 Industry Partnership Award Recipient

Founded in 1890, Sundt Construction, Inc. is one of the country's largest and most respected general contractors. The 100 percent employee-owned company was named the nation's safest construction company by the Associated General Contractors of America in 2006 and 2016. The company's employee-owners are united around a single purpose: to build environments where our clients, employee-owners and communities prosper. Sundt builds projects in a collaborative environment, using best-in-class techniques to improve productivity, reduce costs, and deliver successful results for our clients.

Sundt serves clients in the mining, water, waste water, power, cement, chemical and manufacturing industries. Sundt solves the most complex industrial construction challenges and has a long, distinguished history of serving industrial construction clients across the U.S. and around the world.

Our trade work includes earthwork, underground utilities, concrete, structural steel erection, process mechanical, equipment setting and boilermaker work. These resources are used on mines, power generation facilities, industrial projects, and treatment plant facilities. Our equipment services owns, operates and maintains more than 100 pieces of heavy equipment that are an integral component of our self-perform work capabilities.

Our safety program is designed to support and maintain a positive safety culture while improving Sundt's overall safety record, which is already among the best in the industry. Most construction safety programs focus on the "how" of staying safe – processes and procedures to avoid accidents and injuries and keep projects running smoothly. Sundt's safety program, called "Safety By Choice", takes a different approach by giving equal emphasis to the "why" of safety. In addition to providing thorough, state-of-the-art construction safety training to our craft employees, we also focus on the many reasons they want and need to stay safe: their families, friends, health, livelihood and the ability to do their favorite activities.

Sundt has a long tradition of helping the communities where its employees live and work. Its Foundation is well known for supporting charities that provide services to disadvantaged adults and children. Its employees also volunteer to repair homes, build new facilities and participate in a variety of fundraising events such as charity walks and donation drives.



SUNDT

2018 Special Citation



Bill Assenmacher, CEO, CAID Industries and Rick Grinnell, President, Smart United Business Strategies formed the Southern Arizona Business Coalition (SABC), a not-for-profit corporation, in the spring of 2012. SABC's mission is to support the development of new, expanding and relocating industries with an emphasis on mining and related technology in Arizona. SABC also participates in efforts supporting military activities and personnel.

Our future and the futures of our children depend on a sustainable business environment that encourages the responsible development of natural and human resources. Establishing strong partnerships with our sister organizations, Arizona Mining Association (AMA), AMIGOS and Arizona Rock Products (ARPA) and regional chambers allows us to educate the public about investments that create broad economic opportunities. Our collaboration also allows us to lobby our elected officials to advance responsible businesses and the employment opportunities that they bring.

Through our outreach efforts we look to counter uninformed, exaggerated and emotional statements that may impede new and expanding ventures. We provide substantiated facts that allow our audiences, inclusive of supporters, opponents, general public and politicians, to decide for themselves the value of the businesses and projects we support.

SABC, with industry partners, hold regular and special events to promote our mission. We continue to utilize our strong web presence, informational emails, speaking engagements, literature, social networking and advertising to provide the latest information that affects current, new and expanding ventures for the financial stability of our community.

We are grateful to the businesses and individuals that have supported SABC over the last six years and invite you to join with us to in supporting responsible, sustainable and profitable businesses for years to come.

www.SOAZBC.COM

Outreach Corner by Pam Wilkinson

MFSW Outreach Coordinator Activities: June-July 2018

June-July is summer camp time. We had two weeks of integrated camps where 84 high school students spent two hours in the MGE building. They created drifts through sliced bread, learned how to operate a shovel using the simulator and found out how hard it is to break rocks!

These camps expose the students to all the engineering disciplines offered at the university. We are fortunate to have the students for 2 hours and the time they spend with us is always highly rated as some of the best time at the camp!

Unfortunately, the week that included the mining specific camp was canceled due to low registration numbers. This week had been titled: Engineering and Sustainability. The good news from this, is that we were offered time slots in the other two camps that were completely full.

This provided us the opportunity to introduce another 79 high school students to the wonders of mining engineering. We had the students for two hours, Brad Ross did an introduction to mining engineering, Dave Streeter introduced them to the rock mechanics lab, and James Werner provided the students with the opportunity to use the gaming software: "Harry's Hard Choices".

It was a very successful event and several of the students came away asking for more information about mining. In addition, we made a convert from the counselors. He is a current engineering student at the university who is changing his major to mining because of the experience during the camps.

These last two camps also provided Molly with the opportunity to begin learning about the department and how the camps are currently conducted. We will have another week of students the last week of July and expect it to go as well as this one .



Outreach Cont.

The other major event of the summer is the Day @ Intel. This is a wonderful opportunity to introduce middle-high school women to the possibilities available to them in mining. This year I had Alyssa Hom, an MGE graduate do the presentation. There were lots of questions for her about the program and her experience as a woman in the field.

Alyssa did an amazing job of representing the university and women in mining. Over 100 young ladies were in attendance and during the poster session afterwards I had several young ladies come up to me who remembered me from their classes at Bogle Jr. Hi. (And they are thinking about mining!)

Day @ Intel

Alyssa Hom



The meeting with the Girl Scouts went very well, as we work together to create a mining badge/patch for the scouts of southern Arizona. Molly joined me on this event and is helping put together some more activities for the scouts.

Boy Scout activities are also still in the mix. I am on the Scouting sub-committee of the MEC and we are working on plans to have a both at the World Scouting Jamboree in summer 2019. The final decision about participating in this event will be made at the midyear SME meeting.

Molly Radwany arrived on campus the first of July and is beginning to learn about the mining industry and the mining and geological engineering department. I am so happy to have her and look forward to sharing my knowledge of the mining industry and my passion for teaching the public, both students and adults. I have managed to secure a tour of the Moss Mine and the Arizona Mining is also going to provide a tour. Additional mines and processing plants are being scheduled as soon as possible. If you have connections to any of the mines in Arizona and can arrange a tour for us that would be splendid.

New Outreach Coordinator Hired

Pam Wilkinson and Molly Radwany attend HOF Committee meeting



From left to right, Tom Scartaccini, Pam Wilkinson, Brad Ross, Molly Radwany, HOF Chair Chris Wilson, Rebecca Martinez, Mark Baker and MFSW President David Travis.

A note from Molly

Hello, I'd like to take this opportunity to introduce myself to the MFSW community. I arrived in Arizona at the end of June. I'm coming here from Minneapolis, where I obtained my Master's degree from the University of Minnesota and taught geology courses at the University of Wisconsin – River Falls. So - it's been quite a change of scenery, but I am absolutely loving life in Tucson.

I have immersed myself in all things mining and have had the opportunity to meet many interesting people at the University and beyond who have taken the time to discuss their work and share their perspective on the industry. I am especially looking forward to the mine tours that we have scheduled over the next few months. I have already had the opportunity to get involved in outreach activities, specifically the Summer Engineering Academy and consulting with the Girl Scouts organization about their mining badge.

I'm thankful for the time this summer to adjust to this new role and learn as much as I can about mining before things get busy during the school year, but I am also anxious to get in the classroom. This is a fantastic program and I am so excited to be a part of it.

MEET YOUR GOVERNORS

William H. Wilkinson (Term expires 2020)



Will is the longest serving member on the Board of Governors having served 26 continuous years since 1993 when the Mining Foundation of the Southwest was formed. He was President in 1997 and Hall of Fame Chairman in 1996. He has over 40 years of experience in mineral exploration and has worked in base and precious metal exploration in 25 countries on five continents. Will retired in 2016 as the Vice President Exploration Africa for Freeport-McMoRan. Will received his B.S. and M.S. degrees in geology from the New Mexico Institute of Mining and Technology, with a three-year break for service in the U.S. Army. He received his Ph.D. degree in geosciences in 1981 from the

University of Arizona. Will was the 2009 President of the Society for Mining, Metallurgy and Exploration (SME), is a Distinguished Member of SME, a charter Registered Member of SME and an Honorary member of AIME. He is a Certified Professional Geologist of the American Institute of Professional Geologists and is a member of the Society of Economic Geologists, Mining and Metallurgical Society of America, and the Arizona Geological Society. Lastly, Will is the husband of our Outreach Coordinator, Pam Wilkinson.

Roshan Bhappu (Term expires 2019)



Roshan has served on the Board of Governors for 23 of the 26 years that the MFSW has been in existence. He was President in 2005 and Hall of Fame Chairman in 2003 and 2004. Roshan Bhappu has a long and distinguished career in extractive metallurgy that extends almost 70 years and covers many continents, and industrial and professional associations. His early education was in Bombay, India. He received his advance education at the Colorado School of Mines, where he received the undergraduate degree in Metallurgical Engineering in 1950, his M.S. degree in 1951 and his D.Sc. degree in 1953. His professional career start-

ed at Miami, Arizona where he was resident metallurgist with Miami Copper from 1954 to 1959. In 1959 he moved to New Mexico Tech at Socorro. There he was Research professor and Vice President of Research until 1972. In that year, he joined Mountain States Engineering to start a research division which ultimately became a separate company, Mountain States R & D International in 1987. His professional work as a consultant in hundreds of mining projects has addressed problems in concentration of base and precious metals, uranium and coal. He has specialized in heap and dump leaching and in situ extraction of copper and uranium. Along the way, he served as president of SME in 1990 and president of AIME in 1992. His awards are distinguished and include the Van Diest Gold Medal from the Colorado School of Mines in 1968 and the Robert H. Richards Award from AIME in 1983. He was made an honorary member of AIME in 2006 and is a Legion of Honor Member of SME.

MEET YOUR GOVERNORS

Martin C. Kuhn (Term expires 2019)



Martin was the first President of the original Mining Club of the Southwest in 1983. He has served on the Board of Governors for the MFSW 24 out of the last 26 years. He was President in 1998 and Hall of Fame Chairman in 1994 and 1995. He has 55 years of experience in process development and operation in milling, hydrometallurgical, roasting, and refining operations with ores, concentrates, by-products, flue dusts and scrap as feed materials. He is the owner and a managing partner of the Minerals Advisory Group. Martin received his B.S., M.S. and Ph.D. degrees in metallurgy from the Colorado School of Mines and is a Registered Professional Engineer. Martin is a Distinguished Member of SME and was awarded the Mill Man of Distinction from SME in 1987. In addition, the Colorado School of Mines awarded him the Van Diest Gold Medal in 1975.

Luiz Steinberg (Term expires 2021)



Luiz has been on the Board of Governors since 2017. He is President and Chief Executive Officer (CEO) of Modular Mining Systems, Inc., a leading provider of mine operations management solutions to 18 of the 20 largest mines in the world. Since joining Modular in 1993, Luiz has held several key positions. In 2000, he established the company's subsidiary in Brazil, where he served as Regional General Manager until 2005. As Vice President of product Development from 2006 to 2011, he guided hardware and software development and strategic R&D to meet the needs of Modular customers. In September 2011, he was named President and CEO. Luiz holds a Bachelor of Science degree in Mechanical Engineering from the Federal University of Pernambuco in Brazil and a Master of Science degree in Industrial and Systems Engineering and Manufacturing from the University of Florida. He is a senior member of the Institute of Industrial Engineers (IIE) and a member of SAE International.

Amanda Best (Term expires 2020)



Amanda has been on the Board of Governors since 2017 and has served on the Hall of Fame Committee since 2016. She was born and raised in Maryland and moved to Tucson in 1997. Amanda earned a Bachelor's degree in Wildlife and Fisheries Science from the University of Arizona in 2000. Shortly after graduation she became employed by WestLand Resources, Inc., where she currently works as an Associate/ Senior Environmental Specialist. She has more than 18 years of experience with environmental permitting specializing in Clean Water Act (CWA) Section 404 compliance, National Environmental Policy Act (NEPA) compliance, Endangered Species Act (ESA) compliance, and mineral exploration permitting support. In her career, she has managed numerous large-scale projects requiring various environmental permitting for mining development, mining exploration, residential and commercial development, and utilities infrastructure. .

MEMBERS' CORNER

We now have 41 new members. Thank you all for your support of the MFSW. Total membership is at 120. On behalf of David Travis, our 2018 President, the Foundation wishes to extend a warm welcome to:

Matthew Lengerich -

Mathew was the Medal of Merit Under 40 recipient in 2012. He has been working in Australia for Rio Tinto for the last 3 1/2 years and is looking forward to getting back to the United States in the very near future. Matt attended the Colorado School of Mines and graduated with a BSc in Mining Engineering. He is an avid fisherman, rock climber, mountain biker, and musician.

Shawn Hamilton -

Shawn is a graduate of the University of San Diego and has been the Senior Account Manager for Ryerson for the last 11 years. He has previously worked for Thyssen Krupp NA and Integris Metals.

December 1, 2018 Hall of Fame Awards Banquet Information

SPONSORSHIP OPPORTUNITY

Sponsorships are offered at 4 levels: Diamond (\$10,000), Platinum (\$5,000), Gold (\$2,500) & Silver (\$1,000). All sponsors are recognized on the Foundation's website, press releases, banquet program and during the banquet ceremony.

TICKET SALES

Voting, Silver and Gold members in good standing are extended 2 member pricing banquet tickets at \$200 per ticket.

HOTEL RESERVATION

Please reference SME/MFSW/Summit when booking reservation by phone.

1-877-622-3140

For additional information, please go to: www.miningfoundationsw.org

