



MINING FOUNDATION OF THE SOUTHWEST

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CONCENTRATES

2013 Medal of Merit Recipient



Joseph M. Keane

Principal Metallurgical Engineer & Corporate Executive
SGS Metcon/KD Engineering

Joseph Keane earned his B.S. and M.S. degrees in Metallurgical Engineering and in Mineral Dressing Engineering respectively both from Montana Tech. He is the co-inventor of a novel copper hydrometallurgical patent and was the recipient of the Montana Tech Distinguished Alumni Award in 1989.

Keane is a registered Professional Engineer in Arizona and Nevada as well as being a member of the Instituto de Ingenieros de Minas de Chile. He held numerous technical and managerial positions in the mineral industry worldwide between 1962 and 1975 including positions with Chile Exploration Company in Chile, Molycorp in New Mexico, Colorado and in Mexico, and also with EIMCO as a mineral processing equipment sales engineer in Colorado prior to permanently relocating to Tucson, AZ.

In 1975, Keane joined Mountain States Mineral Enterprises as Vice President and Senior Process Engineer and later joined Pincock, Allen & Holt, Inc. as Vice President, Project Engineer of the Process and Geotechnical Engineering Department overseeing the development of metallurgical feasibility studies and consulting activities. Under his management, Pincock, Allen & Holt greatly expanded their engineering design and construction management capabilities. Projects completed included the first semi-autogenous copper sulfide flotation mill in the Philippines and doubling the production capacity of the largest gold mine in that country.

From 1982 to 2005, Keane was President and Principal Metallurgical Engineer with KD Engineering Co., Inc. specializing in process design development, equipment selection and pollution abatement for global clients. Concurrent to his duties with KD Engineering, Keane also held the position of President of METCON Research from 1985 to 2005 and supervised numerous mineral beneficiation test programs and pilot plant studies. During this period he was a consultant to the Mining & Petroleum Division of International Finance Corporation, a unit of the World Bank. Both companies expanded under Keane's practical guidance and depth of metallurgical project experience and in 2005 the two companies were sold to E&S Engineering Services.

In January 2013, SGS Minerals Services acquired the parent company of both METCON Research and KD Engineering and the two groups consolidated to form SGS Metcon/KD Engineering. Keane continues his metallurgical consulting with SGS and as the owner of Keane Mineral Engineering LLC of Sahuarita, Arizona. He has served on the Boards of Directors of Golden Cycle Gold Corporation, Rochester Resources, Mercator Minerals, and Stingray Copper Corporation.

Medal of Merit under 40 Recipient



Sean D. Dessureault

Associate Professor and Entrepreneur

A graduate of McGill University, Sean D. Dessureault earned his Masters and PhD from the University of British Columbia with a focus on advanced mine technology and management while working in various roles throughout surface and underground Canadian mines. Dessureault was working at INCO-West Mines Complex in Ontario, Canada when he received an unexpected offer from The University of Arizona. Aside from his wife's desire to enjoy the more temperate climate, Dessureault was attracted to Arizona for its rich mining history and resources as well as the University recruiters' encouragement to continue his entrepreneurial pursuit.

In 2002, Dessureault joined The University of Arizona and is now a tenured Associate Professor in the Mining and Geological Engineering Department. Since arriving at Arizona, Dessureault has simultaneously followed his passion in research and commercial enterprises. Recruited to modernize the mining engineering curriculum, Dessureault has successfully developed projects resulting in over \$4.5 million in rewarded research funds; created an integrated remote operations center lab that monitors mines throughout the United States; introduced the first engineering sustainable development course in the curriculum; modernized undergraduate and graduate studies to include the latest technology and established the UA Engineers Without Borders (EWB) student chapter. The establishment of the EWB chapter enables impoverished communities without resources to receive engineering services such as water projects in Africa.

Dessureault's success in the lab also translates to his enterprising spirit since almost all the research he oversees begins as a business activity. He currently is active with several mining related businesses and is the Founder and CEO of Mining Information Systems and Operations Management Consulting Services Inc. (MISOM) leading a team of experienced IT and mining engineers in designing, deploying and supporting Data Warehousing and Business/Operational Intelligence Systems worldwide, including tablet apps that replace paper or act as a light fleet management system. In addition to MISOM, in 2011, Dessureault spearheaded Stakeholder Listening & Analysis providing listening analysis and engagement solutions for mineral and other development projects focused on the permitting processes.

Dessureault is a sought after speaker, columnist and panelist on the topics of technology and automation. Further, he has also authored and co-authored 25 journal publications to date and was the recipient of many awards including the SAP Canadian Information Productivity Award; the Best Graduate Dissertation Research Project in 2001; and the Faculty Award in 2006 for significant research and innovations.

OUTREACH CORNER by Pam Wilkinson

The National Boy Scout Jamboree was absolutely amazing, what a beautiful location on reclaimed coal mining lands in West Virginia to introduce the upcoming Mining in Society merit badge. I had a fabulous time honing my skills of sleeping in a tent, showering in ambient temperature water, walking up and down hills between the staff camp and the merit badge pre-launch exhibit site, and talking to over 900 scouts. The response to the upcoming badge was overwhelmingly positive and most of them were aware they were walking on reclaimed mine land. The SME is to be commended for its persistence in finally convincing the Boy Scouts that they do indeed need a merit badge focused on mining, and the MFSW has certainly helped to facilitate this by my involvement in the past two national jamborees and on the MEC committee. The official unveiling of the requirements for the new badge will be at the national SME meeting in Salt Lake City, February 23-26, 2014. The first scouts to earn the badge will be awarded their badges during this meeting. So, now it is time for all of you MFSW members to sign up at your local Boy Scout Council to become merit badge counselors and help a troop near you earn this badge.



Beginning in mid-August I returned to classrooms and it has been a very successful and full fall to date. In classrooms I have provided presentations and activities for over 900 students and 10 teachers, in 34 classes and 5 schools. Most of these have been in schools from previous years, but to date I have added two new schools to my list. These additions came as recommendations from current teachers. Currently I have 25 schools who have booked my time for this school year. It looks like it will be another very successful and busy year in classrooms.

School	City	Students	Adults	Date
Bogle Jr Hi	Chandler	318	3	8/19,21,23/2013
Morenci HS	Morenci	88	1	8/27/2013
SanTan Jr Hi	Chandler	64	2	9/9/2013
Payne Jr Hi	Chandler	64	1	9/10/2013
Mohave HS	Bullhead City	380	3	9/17-19/2013

As vice-chairman of the Minerals Education Coalition committee of SME, I attended the mid-year board meeting in San Diego, CA. The MEC continues to evolve and grow as it figures out what materials would be best to create for the classrooms of today. If you have not taken a look at their new website I encourage you to do so: <http://www.mineraleducationcoalition.org/> I will become chairman of the group at the annual meeting in Salt Lake City, February, 2014. During my tenure as chairman I plan to encourage them to create materials for high school environmental science classes and chemistry classes. It would also be great if we can create a mining engineering activity that math teachers would be willing to use in their math classes. As you all may be aware the teaching of Earth Science at the high school level is a rarity in Arizona, so I need materials that make my program of interest to math, chemistry and environmental classes.

A very bright spot in Arizona education is the development that Golden Vertex Corporation, the company developing the Moss Mine, is providing support to the Earth Science teachers at Mohave High School in Bullhead City. They are facilitating new textbooks and a computer lab dedicated to their classes. I have also had the opportunity to meet with the information officer for the company and he promises to provide my information to the middle schools and other high schools in northwestern Arizona.

During the September meeting of the Mining Alliance meeting at Granite Construction in Tucson, I provided a brief PowerPoint presentation titled: Educating Arizona about Mining. The comments were very well received and I have been contacted by several people requesting additional information on the program. The audience for this meeting included representatives from mining companies, consulting firms, independent consultants, contractors, vendors, service and supply companies, southern Arizona politicians, and state/county agencies. Hopefully my encouraging the group to support my program by supporting the MFSW will result in memberships, sponsorships and/or attendees at the banquet.

MEMBERS' CORNER

Edward Rivas

Rivas, a graduate of Salpointe Catholic High School and the University of Arizona, came from a mining family with claims in Sonora, Mexico. Together with his brother, they recently formed Rivas Bros. Mining Company.

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Various links are listed below to facilitate registration for the Mining Weekend 12/6-12/9.

SME Arizona Conference registration

<http://www.smenet.org/public/Core/Events/eventdetails.aspx?iKey=AZ2013&TemplateType=A>

Diggers & Duffers Golf Tournament hosted by UA SME Students

<http://diggersandduffers.eventbrite.com/>

JW Marriott registration

<https://resweb.passkey.com/go/SMEArizonaConference2013>

MEMBERS' CORNER, cont.

All voting, silver and gold members in good standing are eligible to purchase two member pricing tickets at \$195 each and are also invited to attend the private VIP reception on December 7, 2013. Anyone wishing to sponsor the Banquet at any levels can also indicate his/her preference and complete this registration form and return it to MFSW or complete on line: www.miningfoundationsw.org

REGISTRATION

NAME _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ EMAIL _____

SPONSOR OR GUEST NAME(S) _____

REGISTRATION FEE

SPONSOR A STUDENT _____ X \$240 = \$ _____

INDIVIDUAL SEATS _____ X \$240 = \$ _____

MEMBER SEATS _____ X \$195 = \$ _____

NO. OF TABLES (10) _____ X \$2,400 = \$ _____

SPONSORSHIP LEVELS

10,000 – DIAMOND

5,000 – PLATINUM

2,500 – GOLD

1,000 – SILVER

_____ OTHERS

PAYMENT

___ AMERICAN EXPRESS ___ DISCOVER

___ MASTERCARD ___ VISA

___ CHECK OR MONEY ORDER

EXPIRATION DATE _____ SECURITY CODE _____

CARD NUMBER _____

SIGNATURE _____

RECOGNITIONS

We are happy to announce that to date we have received sponsorship commitments from the following companies for our annual fundraiser and we would appreciate your assistance in encouraging other companies to sponsor our annual fundraiser: Ames Construction, ASARCO LLC, Boart Longyear, DeConcini McDonald Yetwin & Lacy P.C., Empire Southwest, Golder Associates, Independent Mining Equipment Consultants, Freeport-McMoRan Copper & Gold, Joy Global Surface Mining, Liebherr Mining Equipment, M3 Engineering & Technology Corporation, Mintec, Inc., Minas de Oro Nacional, Modular Mining Systems, Montgomery & Associates, MWH Global, Newmont Mining Corporation, RDE Evaluations, Ruen Drilling, SGS METCON/KD Engineering, Southwest Energy LLC, Tetra Tech.

IN MEMORIAM



ALBERT (AL) PERRY

3/9/1930- 8/24/2013

Al Perry, a longtime member of our Board of Governors and a founding member of the Mining Club of the Southwest (predecessor organization to MFSW) passed away from congestive heart failure at the age of 83. Perry was an exploration geologist and worked for Union Carbide and the Superior Oil Company prior to founding Perry Knox and Kaufman, Inc., an independent minerals exploration and consulting company. Beginning in 1986, after a short stint with Pincock, Allen and Holt in Tucson, he worked extensively abroad in Australia, Fiji, Ghana, Eritrea, and other West African countries mainly as an independent exploration geologist. He is credited with the discovery of the multi-million-ounce Nkran Hill gold deposit in Ghana, as well as three other gold-base metal deposits in Eritrea, for which feasibility-level engineering was recently completed.

Perry was passionate in helping the less fortunate, playing a key role in helping several young men in Ghana to advance their education, assisting villagers in the vicinity of his projects with improving their basic living conditions, and helping young Hispanic teens in the Tucson area to stay in school and obtain jobs. Perry's non-mining passions included trout fishing and piloting ultra-light aircraft, with brief forays into bungee jumping and skydiving.

At his request, no public memorial service was held and his ashes were spread by ultra-light aircraft over the airfield that he frequented northwest of Tucson. His family would appreciate donations made in his name to the Tucson-based 501(c)(3) nonprofit organization Youth On Their Own (www.yoto.org), a dropout prevention program that supports the high school graduation of homeless, unaccompanied Metro Tucson youth ages 13 through 21, or to a favorite charity.

CALENDAR

October 12, 2013

SME Annual Scholarship Fundraiser
Savoy Opera House in Trail Dust Town, Tucson

February 22, 2014

The International Mining Hall of Fame
Grand America Hotel, Salt Lake City, Utah