



MINING FOUNDATION OF THE SOUTHWEST

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January, 2020

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# CONCENTRATES

Members of the 2019 Hall of Fame Committee wish to express their gratitude to all the sponsors and guests for making the 37th Annual American Mining Hall of Fame Banquet & Fundraiser a resounding success.. Over 500 tickets were purchased to celebrate Darren Pylot's induction into the American Mining Hall of Fame. Pylot is President and Chief Executive Officer and a Director of Capstone Mining Corp.

Along with Pylot, four past mining industry stalwarts, Juan Jose Gradillo, Enos Wall, Charles Senter and Sarah Herring Sorin were inducted. Representing the Sorin family were Allen Cooney and his mother Shirley Cooney. Eric Mayer and his wife Lynne, representing the Wall family, were also present for the ceremony.

In addition, Medal of Merit awards were presented to Vicki Seppala, General Manager, Climax Mine for Freeport-McMoRan and to Victoria Peacey, Senior Manager Permitting and Approvals for Resolution Copper for their current respective contributions in advancing the always evolving mining sector. Medal of Merit Awards under 40 were presented to William Sircy, General Manager, Processing, Cerro Verde for Freeport-McMoRan and to Cody Sutherlin, Vice President, U. S. Operations, Coeur Mining, Inc.

Renowned for technical excellence in geosciences and environmental solutions, Golder was the recipient of the Industry Partnership Award.

*A BIG Thanks  
to our Sponsors!*

## THANK YOU 2019 SPONSORS

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to our Sponsors!*

### PLATINUM

Epiroc, FL Smidth, Freeport-McMoRan, Komatsu, M3 Engineering;

### GOLD

Ames Construction, Arizona Mining Association, Asarco, Boart Longyear, Capstone, Caterpillar, Doosan Bobcat, Eclipse Mining Technologies, Empire Southwest, Hudbay Minerals, IMC, Meridian, MMSA, Modular Mining, Newmont Goldcorp, Resolution Copper, Ruen Drilling, SRK Consulting, SW Energy and WestLand Resources;

### SILVER

Apache Nitrogen, Ausenco, Borderland Construction, CalPortland, CAID Industries, Cascade Drilling, Cementation, CTI, DeConcini McDonald Yetwin & Lacy, P.C., Fennemore Craig, Golden Vertex, Golder, Hexagon, IEC Supply, KGHM (Carlota Copper Company), McGuire Woods, Origin Mining, Pioneer Equipment, Quarles & Brady, Skyline Assayers, South32, Sundt Construction, Terry McNulty, Tsiolis Law Solutions, Valley Forge Nut & Bolt and Yellow Jacket Drilling;

### OTHERS

Kathy Arnold, David Lowell, SABC, National Mining HOF & Museum, Smithco Enterprises Inc. and 1 anonymous.

## MESSAGE FROM OUTGOING PRESIDENT, CHRIS WILSON



I want to start by wishing all our members a happy 2020. I hope the holiday season and new year treated you with joy, excitement, and the warmth and welcome of family.

The year 2019 was a banner year for the Mining Foundation of the Southwest. We maintained our highest membership levels over the last ten years, including more than 120 voting members. As always, we encourage new members to join, and hope you continue to spread the word about the Mining Foundation and the work we do.

Our 2019 American Mining Hall of Fame Awards Banquet and Fundraiser was our most exciting yet. All told, we raised \$106,000, a commendable amount which we would not have achieved without the efforts of so many individuals, including our own dedicated and hardworking Tom Aldrich. Each year I am amazed by the great talents in the mining field, all brought together in one room. The Banquet shows both how much we as an industry have achieved, as well as how much we have to look forward to in the coming years.

My term as the Foundation president has ended, and I want to thank each of you for making this year so memorable. I will surely miss this time (though I can't lie and say I'll miss public speaking at the 2020 Banquet). The work and outreach the Foundation does are imperative, and can be done by anyone anywhere. Keep working hard to teach others about our industry and our place in the world. Because as you have heard (probably many times), if it can't be grown, it must be mined. Hope to see you at the Annual meeting on Wednesday, February 12 at the Viscount Suites Hotel beginning at 3:00 PM.

## **HALL OF FAME COMMITTEE MEETING**

**Date: Wednesday, February 19, 2020**

**Time: 3:30 p.m. — 4:30 p.m.**

**Place: M3 Engineering, 2051 W. Sunset Rd., Tucson, AZ 85704-1722**

**Please sign in at the front desk upon arrival**

**RSVP: [admin@miningfoundationsw.org](mailto:admin@miningfoundationsw.org) OR 520-577-7519**

## SEEN AND HEARD AT THE 37th AMERICAN MINING HALL OF FAME AWARDS BANQUET



**MFSW President Chris Wilson (L) presents the Hall of Fame Plaque to 2019 Honoree, Darren Pylot.**



**MFSW President Chris Wilson presents the Prazen Support Statue to Daren Pylot's partner, Kayla Dole.**



**MFSW Hall of Fame Chairman Rebecca Martinez (R) presents the Medal of Merit to 2019 Honoree Vicki Seppala.**



**MFSW Hall of Fame Chairman Rebecca Martinez presents the Medal of Merit to 2019 Honoree Victoria Peacey.**



**MFSW Hall of Fame Chairman Rebecca Martinez presents the I Medal of Merit under 40 to Bill Sircy.**



**MFSW Hall of Fame Chairman Rebecca Martinez presents the I Medal of Merit under 40 to Cody Sutherlin.**



**More Photos at <https://www.miningfoundationsw.org/page-1847282>**



**MFSW Hall of Fame Chairman Rebecca Martinez (R) presents the Mining Past Plaque to Allen Cooney representing the Sorin Family.**



**MFSW HOF Chairman Rebecca Martinez (R) presents the Mining Past Plaque to Eric Mayer, great, great nephew of 2019 Honoree Enos Wall**



**MFSW Hall of Fame Chairman Rebecca Martinez (R) presents the Industry Partnership Award to Dave Kidd of Golder.**



**Members of the MFSW BOG and HOF Committee gather together after the banquet for a photo.**



**BOG member Kathy Arnold and her husband Doug and Esperanza Morillo and Miguel Palacios from FMI strike a pose**



**The Pioneer Equipment team took this opportunity to gather together to celebrate the industry achievements.**



**More Photos at <https://www.miningfoundationsw.org/page-1847282>**



**Darren Pylot and Kayla Dole are at the center of the Capstone table waiting for the banquet to begin.**



**Darren Pylot and the Capstone team proudly show off the awards received during the banquet.**



**BOG member Robin Barnes from Asarco and Cyndy Valdez from Farhang & Medcoff take a moment to toast this year's Honorees.**



**BOG Cori Hoag (center) chats with Joanna Fleeger, Marriott Event Manager, and Megan Fair.**



**There was quite a crowd enjoying the cocktail hour prior to the dinner and program honoring this years Inductees.**



**Fred Banfield, 2014 Inductee, enjoys some conversation before the banquet.**



**More Photos at <https://www.miningfoundationsw.org/page-1847282>**



**Dave Kidd and the Golder team enjoy the events of the night and wait for the festivities to begin,**



**Herb Welhener and John Marek entertain our Mining Past guests from the Sorin and Wall families.**



**Vicki Seppala celebrates the evening with family and friends.**



**Resolution Copper hosts Victoria Peacey at this year's banquet along with friends and associates.**



**Cody Sutherland had a great time with his family at the banquet.**



**Bill Sircy and his wife, Nicole, traveled all the way from South America for the banquet and are joined by family and friends.**



**More Photos at <https://www.miningfoundationsw.org/page-1847282>**



**President Chris Wilson and his wife Jessica take a moment with the glorious Arizona scenery in the background.**



**HOF Chairman Rebecca Martinez and her husband Scott join with others from M3 Engineering after the banquet.**



**BOG member Brad Ross from the University of Arizona IMR chats with Greg Ghidotti from Resolution Copper.**



**BOG member Terry McNulty (2010 Medal of Merit Honoree) in the center chats with Chris Seick from FMI.**



**SRK Consulting members Jasper and Tia Begay and Silver Miller relax outside the work environment while enjoying the banquet.**



**It was a full house at this years American Mining Hall of Fame Banquet.**

## SEEN AND HEARD AT THE 37th AMERICAN MINING HALL OF FAME AWARDS BANQUET

- The 37th American Mining Hall of Fame Awards Banquet & Fundraiser recorded a net profit of over \$100,000 for the third time in the last four years.
- Fifty-seven sponsors generously donated to the Foundations' Education Program allowing the MFSW to continue underwriting its Outreach Program and offering additional financial supplement to various SME & SEG student chapters.
- Companies and individuals purchased over 500 tickets.
- Darren Pylot was the 37th Inductee into the American Mining Hall of Fame and the second Canadian.
- Three raffle prizes including a set of the History of Mining in Arizona books, 50,000 Marriott Awards points and a 2 night complimentary stay at this JW Marriott Starr Pass Resort were awarded during the course of the evening.
- Chris Earnest was introduced as the new Outreach Coordinator.
- Almost 50 faculty members and students from the University of Arizona were guests of the 36th Annual Banquet, thanks to the generosity of the sponsors.

**Below are the tribute videos on all 2019 honorees:**



**Inductee Darren Pylot**

<https://www.miningfoundationsw.org/page-1847266>



**Medal of Merit, Vicki Seppala and Victoria**

<https://www.miningfoundationsw.org/page-1847268>



**Medal of Merit Under 40, Marian LaLonde**

<https://www.miningfoundationsw.org/page-1847268>

**Inductees from Mining's Past**

<https://www.miningfoundationsw.org/page-1847269>



**Industry Partnership, Golder**

<https://www.miningfoundationsw.org/page-1847270>





## Outreach Corner by Chris Earnest

**Funded by the Mining Foundation of the Southwest  
through the Lowell Institute for Mineral Resources at  
the University of Arizona**

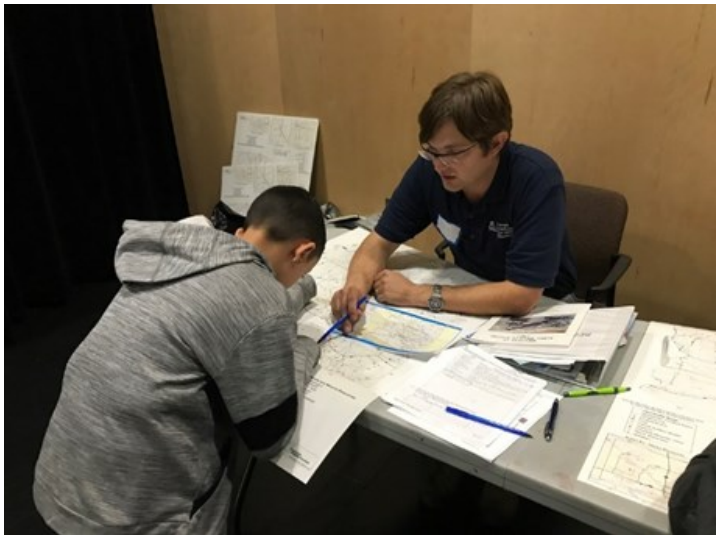


### **MFSW Outreach Coordinator Activities: Mid-November 2019 - January 2020**

A new year is upon us and the outreach program is preparing for an exciting spring semester full of classroom presentations, Science Technology Engineering Art and Math (STEAM)/science fairs, and the Mineral Resource Discovery Workshop. Those outreach activities helped to keep me busy in fall and early January. During that time, I visited 20 different schools in both the Tucson and Phoenix areas for a total of 28 days of outreach activities, 14 of which were in classrooms. Those activities reached over 2200 students, parents, and teachers. I also assisted Pam Wilkinson with a Mining in Society Merit Badge workshop hosted in Sahuarita by Freeport-McMoRan. I hope to increase the number of students reached by the outreach program this spring by continuing to visit more classrooms and pursuing opportunities to network with teachers.



*Students learn about the importance of copper and how we refine it.*



*How many mines? A scout learns the location of mines in Arizona.*

## Outreach Corner by Chris Earnest (cont.)

On January 25th the Lowell Institute for Mineral Resources ran a table electrowinning experiment at Connect2STEM, the SciTech kickoff event for 2020. Over 300 students in grades 4 to 12 stopped by our table to learn about how important mineral resources are in our lives, how we get the copper we need, and careers available in the mineral resource industry. The event was hosted at the University of Arizona College of Medicine in Phoenix and gave us a great opportunity to connect to the citizens of the valley.



*Learning about how we find mineral resources.*

*Participating in the electrowinning process.*





## Outreach Corner by Chris Earnest (cont.)

February is the season for school hosted STEAM fairs, and I have so far received 6 requests from schools in Phoenix and Tucson. I look forward to meeting all the students and teachers at these events and introducing them not only mineral resources, but to our classroom program as well. These events are a great opportunity to reach a wide variety of students within the familiar atmosphere of their school. The teachers and I also have an opportunity to meet the people behind the emails which provides great opportunities for future collaboration.

Open slots for the Mineral Resource Discovery workshop, hosted at the Flandrau Planetarium, are filling up quickly with only two open slots remaining in February. Our University of Arizona student volunteer instructors will complete their training during the last week of January. They are excited to start teaching when the first workshop starts on February fourth.



*12th grade student learn about exploration in the Mineral Resource Discovery workshop at Flandrau Planetarium*

Student volunteers from the Department of Mining and Geological Engineering and I will also be participating in the Junior Education corner at the Tucson Gem and Mineral show on February fifteenth and sixteenth, as well as the Children's Museum Family SCIFest on February sixteenth. Both events will provide a great opportunity for students and parents in the Tucson area to learn about mineral resources. We will also be hosting a table at Science City on the U of A mall on March 14<sup>th</sup> and 15<sup>th</sup>. We look forward to working with volunteers from industry to help spread understanding of the importance of mineral resources.

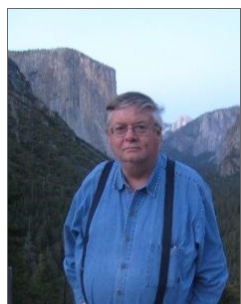
## IN MEMORIAM



### **Dr. Roshan Bhappu 1926 –2019**

#### **2006 Medal of Merit Honoree and Long time MFSW Board member,**

Dr. Roshan Boman Bhappu passed away peacefully on December 28, 2019, surrounded by loved ones, at the age of 93. Roshan was a renowned metallurgical engineer, serving as the head of the department of Metallurgical Engineering at the New Mexico Institute of Mining and Technology from 1960 until 1972. That year, he joined Mountain States R&D International, later purchasing the company in 1987. He was President of the Society for Mining Metallurgy and Exploration in 1990 and the American Institute of Mining, Metallurgical and Petroleum Engineers in 1992. During his lifetime, he received numerous honors and accolades, including the 2006 Medal of Merit Award from the MFSW, the prestigious Mining and Metallurgical Society of America Gold Medal in 2010 and the Van Diest Gold Medal from the Colorado School of Mines in 1968. Roshan has written more than 100 technical papers and books. He holds several patents and was a consultant to the United Nations and World Bank. He graduated with Honors from the University of Bombay before relocating to Golden, Colorado, to attend the Colorado School of Mines, from which Roshan earned his B.S. (1950) and M.S. (1951). He earned his Doctor of Science (1953) at Colorado School of Mines. Roshan met Carmen Mackintosh during a college mixer dance at Colorado Women's College and they married in 1952. Together, they had four children: Manek, Zorine, Soonalyn, and Ross. Carmen passed away in 1992. Roshan married Perin Shroff in 1993 and gained two new children, Arbez Patel and Homee Shroff. Friends and Family knew Roshan for his adherence to his Zoroastrian faith and its mantra: "good thoughts, good words, good deeds." He treated strangers as friends and friends as family. He is survived by his wife, Perin; children, Manek Bhappu, Zorine Shirley (Craig), Soonalyn Jacob (Dan), Ross Bhappu (Candy), Homee Shroff, Arbez Patel (Hoshang); his sister, Ruby; 12 grandchildren and one great-grandchild. He was a stalwart of the industry who will be missed by all who knew him



### **Dr. Harry Parker 1946 –2019**

#### **2007 Medal of Merit Recipient**

Harry McDougal Parker passed away on 19 December, 2019, as a result of complications arising from melanoma. Harry is survived by his wife Susan Kemper Parker, daughter Meg, son Winthrop, grand-daughters Angelina, Sofia, Layla, Sadie, Ashley, and Chloe, and sister Betsy. Harry and Sue enjoyed two days short of 51 years of marriage.

Harry was born in New York on 7 February, 1946. Harry was introduced to geology by his mother, Katharine, who had an AB in Geology from Radcliffe College and a Masters in Religious Education from Union Theological Seminary. Harry graduated from St Andrews High School, Middletown, Delaware in 1964. His first degree was a BSc (honors) geology, from Stanford University, conferred in 1967. This was followed in 1969 by an AM in Geology, from Harvard. Harry returned to school at Stanford in the early-1970s, obtaining an MSc in statistics (1974), and a PhD in geology (1975). His doctoral thesis was the second PhD awarded in geostatistics in the US, and developed the approach of using conditional probability distributions to forecast recoverable resources, an approach which is still in use within today's mining industry.

From 1965 to 1975, in and around his studies, Harry worked for the Hanna Mining Company. In late 1975, he joined Fluor Corporation, where he focused on resource and reserve estimation, audits, due diligence investigations and geostatistical analysis and problem-solving. He left Fluor in 1989 to co-found Mineral Resources Development Inc. (MRDI), now part of the John Wood Group plc. Harry published more than 40 technical papers over the course of his career. He worked in 17 states within the US, eight Canadian provinces, and 35 countries outside North America. He was a member of SME, AusIMM, AIG, GSA, SEG, IMMM and IAMG. Harry was registered as a Professional Geologist in California, Arizona, and Minnesota. Harry's catch-phrase "in general, an ounce of geology is worth a pound of geostatistics;". Harry was highly regarded for his knowledge, integrity, hard work, and new ideas, as much as his generosity, kindness, and respect.





## MEMBERS' CORNER



**We gained 17 new members in 2019. Thank you all for your support of the MFSW. Total membership is at 137. Go out and encourage your associates to join. On behalf of Chris Wilson, our 2019 President, the Foundation wishes to extend a warm welcome to our newest members:**

**Jessica Milnes**- Jessica is in charge of business development in Arizona for Restruction Corporation, a contractor specializing in structural strengthening, concrete patching, and structural concrete repair. She has been with the company since 2017.

**Bryant Smith** - Bryant is the President of Smithco Enterprises, which has operated in Arizona for over 28 years performing earth-moving projects and operating in the nonmetallic mineral mining sector and supplying flux for smelter operations. Bryant is a lifelong resident of Arizona and graduated from the University of Arizona.

**Grant Child** - Grant has been the Director of Mining Business Development at TIC (The Industrial Company) since March 2018. TIC is a division of Kiewit Corporation, a direct-hire, heavy industrial contractor providing world-class construction expertise in the areas of Power, Mining/Minerals Processing, Oil, Gas & Chemical, Renewable Energy, Food & Beverage, and Pulp & Paper. Grant is a graduate of Colorado State University and resides in Chandler.

**Kevin Kammerzell** - Kevin is the Vice President - US Mining Business Unit Leader at MWH Global, now part of Stantec. He is a graduate of Colorado State University with a degree in Civil Engineering and has over 25 years experience in the consulting world.

**Cody Sutherlin** - Cody is a 2019 Medal of Merit under 40 Honoree and is the Vice President of US Operations for Coeur Mining, Inc.. Sutherlin holds a Bachelor of Science Degree in Mining Engineering from the Montana School of Mines and Engineering. He began his career with Rio Tinto Minerals in 2007 and was put in charge of remediating one of the biggest non-volcanic landslides in North America's modern history at Bingham Canyon.

## ANNUAL MEMBERSHIP NOW DUE

Please sign on to <http://miningfoundationofthesouthwest.wildapricot.org/join> to renew your 2020 membership. Those who still prefer to renew membership by checks should continue to forward payments to P.O. Box 42317, Tucson, AZ 85733. **Your donations are tax deductible to the extent allowed by law.**



# 2020 ANNUAL MEETING

## Mining Foundation of the Southwest

Date: Wednesday, February 12, 2020

Time: 3:00 p.m. — 5:00 p.m.

Place: Viscount Suite Hotel

4855 E. Broadway, Tucson, AZ 85711

Rosarios Room

RSVP: [admin@miningfoundationsw.org](mailto:admin@miningfoundationsw.org)

OR

520-577-7519

*Beverages & hors d'oeuvres will be served*



THE  
ANNUAL  
MEETING  
OF MEMBERS