



MINING AND MINERALS EDUCATION  
FOUNDATION  
PO Box 42317 , TUCSON, AZ 85733

MAY 2023

[admin@miningfoundationsw.org](mailto:admin@miningfoundationsw.org)  
[Home \(miningeducationfoundation.org\)](http://Home (miningeducationfoundation.org))

# CONCENTRATES

## 2023 American Mining Hall of Fame Slate of Honorees

### Main Inductee:

**Xavier Garcia de Quevedo Topete**

Executive Vice President, Grupo Mexico



### Medal of Merit:

**R. Gene Dewey**  
Retired, Molycorp



### Medal of Merit

**Edson (Ed) McCord**  
Retired, Caterpillar



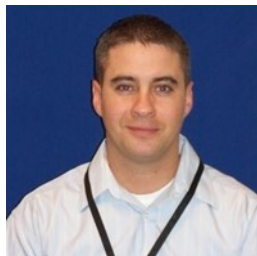
### Industry Partnership



Ames Construction, Inc.®

### Medal of Merit: under 40

**Benny Corbell**  
Mine Manager, Bagdad  
Freeport-McMoRan



### Special Citation

**Arizona  
Copper Art  
Museum**



## 2023 Hall of Fame Chairman—Shawn Hamilton



As we approach the 2023 the 41st annual American Mining Hall of Fame banquet on December 2nd 2023, it is important to pause and consider the following question. What is the most effective method of going about the critically important work of engaging young minds about the importance of mining and minerals to our society? Is it via social media, television ads, billboards, etc. or would it come via a hands on, thoughtfully developed curriculum brought directly into schools by a dedicated Outreach Education Coordinator that connected to the University of Arizona School of Mining & Mineral Resources? This is where the MMEF comes in. The aforementioned banquet and celebration of this years accomplished group of individuals in the field of mining is the fuel that funds our educational efforts through both your sponsorship and attendance. We are very grateful to those who have come alongside us and supported our efforts in the past, you are having a major impact. If you have not yet made a decision to come to join us in our celebration at American Mining Hall of Fame banquet, please join us by sponsoring the event, attending the event, or both! Thank you for your consideration.



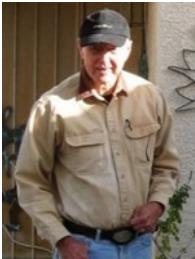
## 2023 Inductees from Mining's Past



**Joseph R. De Lamar** (1843 – 1918) De Lamar was a prominent mine owner and operator in the western United States and Canada, as well as a financier and speculator, from the late 1870s until his death in 1918. He was the first backer of Enos Wall's Bingham property. His evaluations served to convince others that the property had merit. Three former mining cities, which are today ghost towns, were named after him including Delamar, Nevada; De Lamar, Idaho; and Delamar, California.



**Felix McDonald** (1875 – 1936) McDonald was the originator of the modern system of block caving into inclined raises, using grizzlies to control the ore flow from the caved area. McDonald set up the underground mine at Inspiration, patterned after what he had developed at Ohio Copper in Utah.



**Stuart Bengson** (1943 – 2021) Best known for pioneering the science of restoration of mined landscapes, he advanced the field of reclamation of tailing and mined lands at active and inactive mine sites in Arizona, New Mexico, California, Texas, Utah and Montana. He developed successful innovative technologies for drip and micro-sprinkler irrigation, minimal capping of mine wastes for revegetation & dust control, optimum species for reclamation, and implemented mine impact reclamation using livestock and biosolids. He developed and implemented mine reclamation plans and successful ecosystem restoration projects, complete with follow-up monitoring and site assessment. He was awarded the Pioneer of Reclamation Award by the American Society of Reclamation Sciences in 2003.



**Dr. Stanley Howard** (1945 – 2021) Howard was born in Wyoming excelling in school and receiving his Doctorate in Engineering from the Colorado School of Mines in 1971. He moved to the South Dakota School of Mines and Technology and began a distinguished 50+ year career in research, teaching, mentoring, and contributions to science and engineering. Dr. Howard served as past Chairman of the Faculty Senate at the School of Mines, received the Presidential Award for Outstanding Professor, and won the School of Mines Ennenga Teaching Award. He was also a long time Registered Professional Engineer. Dr. Howard was a vital part of The Minerals, Metals and Materials Society, (TMS), serving in many positions during his 55-year professional career. He served as President and was awarded the distinguished Alexander R. Scott Service Award.



### JW MARRIOTT TUCSON STAR PASS

Plan to join the Mining Weekend (12/2-12/4/23) cohosted by MMEF, SME Arizona Conference, UA SME Students and AMIGOS. More info still to come.



## President's Corner



### MESSAGE FROM PRESIDENT, Robert Tracy



Greetings! Almost halfway through the year and the members of the Mining and Minerals Education Foundation have been busy. Shawn Hamilton and the Hall of Fame Committee have been hard at work planning for this year's 41st Annual Mining Hall of Fame Banquet & Fundraiser. The Committee has selected a great slate of honorees for this year's banquet. These honoree's impacts on our industry are worth the proper recognition and celebration. It will be a special evening in December for everyone. Now that the honorees are set, it's time to talk about sponsorships and memberships. Sponsorship for the banquet are the main driver to support the Educational Outreach Program. In addition to the Outreach Program, donations are made to various student groups and mining organizations that align with our mission to educate the public about the importance of the mining and mineral industries. Early sponsorships help support the MMEF throughout the year leading up to the big event. Another important contribution is that of our members. From the collection of dues to the volunteers that serve on boards and committees, it is our members that make the MMEF what it is.

### **Diorama Grand Opening at Bullion Plaza Cultural Center & Museum in Globe**

We expect the Grand Opening of the Mining Diorama that has found a new home at the Bullion Plaza Cultural Center & Museum in Miami, AZ to be announced in the very near future. For months, a small team of MMEF volunteers led by Larry Dykers has been working to move and re-install the diorama which tells the story of how copper is processed. Every process to produce copper is represented there, including an outline of the technical professions required to operate a mine. In addition to the diorama, there will be 10 stations with videos on different stages of the copper process.



### **HALL OF FAME MEETING**

Date: Wednesday, June 14, 2023

Time: 3:30 p.m. — 4:30 p.m.

Place: M3 Engineering and/or via Zoom

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





## School of Mining & Mineral Resources



### OUTREACH CORNER BY CHRIS EAR-



### Looking forward to summer as the school year wraps up.

Students across the state of Arizona are eagerly counting down the days until their summer break. In the meantime, the outreach program has been busy helping those students discover the importance of mining and mineral resources. In April and May the outreach program gave 53 classroom presentations to 1,049 students, talked to 266 students at STEM events, and welcomed 70 students through the Mineral Resource Discovery Workshop.

State testing wrapped up in April and as teachers were looking for engaging activities for their students, the outreach program stepped in to provide great hands-on activities. One teacher, when asked if they would recommend the program to their fellow teachers, raved that they would because it “Exposes middle school students to mining and minerals, expose them to hands on or applied science which is super important - not enough in middle school - we need more of this science for student learning and understanding of science. MAKES SCIENCE FUN!”

A high school teacher commented that they appreciated Chris and Mario’s combined mineral processing and mining career presentation because “I appreciate how well both presenters kept the students engaged by asking questions, rewarding answers with a prize (students love to get prizes) and keeping it relevant to their lives, i.e. how are the minerals that are mined still used... do we still need to mine? Absolutely.”



*Vail Academy and High School STEM night attendees learn how copper minerals are processed from education outreach assistant Sofia while Koseku, recruitment outreach assistant, talks to students about careers in mining .*

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# School of Mining & Mineral Resources

## Outreach Corner Cont.



Mario Muñoz, recruitment outreach coordinator, talks to Hayden High School students about education opportunities in mining at the Hayden High School Mining Career Day

On May 2nd Mario and Chris were able to present to middle school and high school students during the Hayden High School Mining Career fair. They showed 86 students the many opportunities for them available with a mining engineering education and demonstrated the first step in an experiment that they will do in chemistry class with Chris at a later date. The outreach program would like to thank Whitney Lennon of ASARCO and Pamela Gonzalez of the Hayden-Winkelman for providing us with this great opportunity to talk to the students in Hayden/Winkelman. Chris is looking forward to seeing them again in class and taking them through the mineral processing activity.

Sofía, John, and Chris put the final touches on the assembly of the SEA mail home Mining Engineering Activity kits. 40 kits will be shipped out to participants for the July 27th virtual Summer Engineering Academy..



ground Mining Laboratory. The kits for the virtual and are awaiting shipment to students in preparation for the July 27th virtual day. While waiting for that Chris is working with several professors to create some new hands-on activities for use during the in-person day on July 11th.

It has been a great finish to the school year and the outreach program looks forward to what the next school year will bring. But we can't do it alone. Fortunately for the program, we have the support of the Mining and Minerals Education Foundation. It is thanks to the efforts of the foundation members that Chris, John, and Sofia are able to speak to so many students. Thank you! We can't wait to share what we do next.

With the school year almost over, the outreach program is busy preparing for the summer. In conjunction with the Mining and Geological Engineering department and the College of Engineering we are again hosting a Mining Engineering session of the Summer Engineering Academy. This year we will host both a virtual project day filled with exciting activities mailed to participants in a kit and an in-person day at the San Xavier Under-



# LEGACY FUND

## MINING EDUCATION LEGACY FUND

### New Ways to Give!

The MFSW is pleased to announce that we have established a fund in partnership with the [Community Foundation for Southern Arizona](#) (CFSA) as a philanthropic resource to help us accomplish our mission. The goal of the fund is to be able to fully fund a minimum of one Outreach Coordinator annually and in perpetuity. CFSA has the infrastructure and expertise to accept current or estate gifts on behalf of the MFSW.

You may make a gift at any time designated for **the MFSW** and you will receive a letter acknowledging your gift for tax purposes.

### Current Gifts Include:

- Cash
- Credit Card
- Securities
- Life Insurance
- Tangible Personal Property
- Real Estate
- Individual Retirement Account Distribution (QCD)

### Planned Gifts Include:

- IRA Beneficiary Designation
- Will or Trust
- Charitable Remainder Trust
- Charitable Lead



### Want to learn more?

CFSA staff members are available to meet one-on-one with you at no charge to have a confidential conversation about your giving options. Please contact Mary Louise Luna, Senior Director of Gift Planning at the Community Foundation for Southern Arizona, at 520-909-7559 or [mluna@cfsaz.org](mailto:mluna@cfsaz.org) for more information.





## MEET YOUR GOVERNORS



### Avi Buckles (Term expires 2026)



AVI has been a member of the MMEF since 2018 and just recently was elected to the Board of Governors. He has been an archaeologist in the private sector since 2000 joining WestLand in 2004. He worked on dozens of archaeological excavations, surveys, and construction monitoring projects on both prehistoric and historical sites and he has taken on the role and responsibilities as a field director and project manager with a focus on historical archaeology and Southwestern mining and ranching history. He leads the Mining Past segment of the Hall of Fame Committee.



### Charlie Pirro 2023 Pima JTED Scholarship Winner



Since 2020, the MMEF has donated to The PIMA JTED Foundation for scholarships to be given to students pursuing further education in a course of study which supports the mining industry. The main requirement is that the student must have completed JTED program in one of the following areas: Engineering – Aerospace and Mining Technology, Construction Technology, Heavy Equipment Operations, Welding, Mechanical Drafting, Automation/Robotics-Logistics, Optic, AI, Automotive Technology . Pirro is in the Engineering – Aerospace and Mining Technology, Program and was awarded a \$1,000 scholarship. All the Pima JTED Scholarship winners will be recognized at the Board Meeting of the Pima JTED on June 13th.



## New Member Recruitment



**Help us get bigger and stronger and healthier!  
Go out and find a new member!  
Ask a business associate or convince a friend.  
Shake it up, stir it and let it simmer!**



**Annual membership renewal is past due. We have 23 members who have not yet renewed. Please renew online or send your check to the Foundation Office. [Payment Form \(miningfoundationsw.org\)](http://miningfoundationsw.org)**



# 2023 Donations



NAME	AMOUNT
Arizona Geological Survey	2,000.00
Colorado School of Mines, SME Student Chapter	1,500.00
Montana Technological University SME Student Chapter	1,500.00
New Mexico Tech, SME Student Chapter	1,500.00
SDSM&T, SME Student Chapter	1,500.00
University of Arizona IMR	1,000.00
University of Arizona MGE	1,000.00
University of Arizona, SEG Student Chapter	1,000.00
University of Arizona, SME Student Chapter	1,000.00
University of Nevada, Reno SME Student Chapter	1,500.00
University of Texas El Paso SME Student Chapter	1,500.00
University of Utah SME Student Chapter	1,500.00
Bullion Plaza Cultural Center & Museum	12,000.00
Women in Mining (WIM) National Conference Sponsorship	500.00
Tucson Children's Museum SciFest Event	1,000.00
SARSEF	1,000.00
PIMA JTED	3,000.00
<b>TOTAL</b>	<b>34,000.00</b>



**Educating the Public about the Importance  
Of Mining and Mineral Resources since 1993**

