



MINING FOUNDATION OF THE SOUTHWEST  
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MAY 2022  
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# CONCENTRATES

## 2022 American Mining Hall of Fame Slate of Honorees



### Main Inductee:

**Denise C. Johnson**

Group President, Resource Industries  
Caterpillar Inc.



### Medal of Merit:

**Steve Trussell**

Executive Director  
Arizona Mining Association  
Arizona Rock Products Association

### Medal of Merit under 40:

**Omar Smith**

Senior Civil Engineer  
Wood



Industry Partnership

Special Citation



## 2022 Hall of Fame Chairman

**Robert Tracy, Senior Engineer at Thyssen Mining**

Greetings and Happy Summer!

The It may not be officially summer on the calendar but it sure feels like it. Schools are getting out for a long break, interns are showing up at mine sites, and the high temperatures are here for the long haul. While the cooler December weather seems far off, we are excited to come together to celebrate this year's great slate of honorees at the 40th annual American Mining Hall of Fame Banquet. There is still a lot to do before the Banquet but things are already building momentum. Early sponsors are excited as well as they are on track to make it a great year as we raise funding for the educational outreach program. Thank you for the support so far but we are still in need of sponsors. I know we will meet our goals but still have plenty of work ahead of us.



## 2022 Inductees from Mining's Past



**Zeno Lightfoot Dili (1893 – 1927)** (Underground Miner and Hero) An Apache man from Rice, Arizona, Dili worked underground at the Magma Copper Company mine in Superior during the late 1920s. In the early hours of the morning on Thanksgiving Day in 1927, he perished in an underground fire disaster. While taking the cage back down to the 500-foot level to rescue other trapped miners, the cable snapped, and Dili was lost. He was posthumously honored with a gold medal for his bravery and heroism by the Joseph A. Holes Safety Association in 1935.



**J. C. "Buck" O'Donnell (1901 – 1969)** (Illustrator and Supplier) was a talented illustrator and cartoonist of late-nineteenth-to-mid-twentieth-century mining practices. His drawings were based on his experience, which ranged from mucker to mine superintendent. He had an eye for detail, and just happened to have a good sense of humor to go along with it. He lived through a technological revolution in mining and was part of it, as manager of Shaft & Development Machines Co. of Salt Lake City, a manufacturer of mining equipment. Aside from the latter, he worked for Anaconda at Butte MT and the Idaho-Maryland Mining Co. in Grass Valley CA



**John Haskell Davis, Jr. (1915 – 1996)** (Engineer and Designer) spent his entire career working for Phelps Dodge and in 1957 became PD's Western Engineering's Chief Mechanical Engineer until his retirement in 1978. In that capacity, Davis either personally designed or approved designs created by Western Engineering staff for various PD projects. He worked his entire professional career in the world of copper mine-concentrator-smelter operations. To this world, he contributed four innovations and much infrastructure, along with two integrated plants and adjoining townsites including Hidalgo.



**Donald J. Lunt (1929 -2019)** (Inventor and Philanthropist.) was a devoted historian and expert on the history of mining in Clifton-Morenci, Arizona, Mr. Lunt has done more than any single individual to help preserve the history of mining in this early copper district. His effort at preserving local history ensures that future generations of Americans can appreciate the rich mining history of Clifton-Morenci.

## JW MARRIOTT TUCSON STAR PASS



Plan to join the Mining Weekend (12/3-12/5/22) cohosted by MFSW, SME Arizona Conference, UA SME Students and AMIGOS. Attendees are extended a special room rate of \$150 + tax + a discounted Resort Fee of \$10.00 per night, discounted \$85 golf rate and a 20% spa only discount. The contracted cutoff date for reservations at the group rate is Friday, Nov. 11th. Link: <https://book.passkey.com/go/societyforminingmetallurgy> or call 877-622-3140 (ask for "SME Arizona Conference/MFSW/Summit 2022" rate).

## President's Corner

### MESSAGE FROM PRESIDENT, Amanda Best



Greetings! It's hard to believe we are almost half way through 2022. I hope you are all having a happy and healthy year. Robert Tracy and the HOF Committee have been working hard planning for the Hall of Fame Banquet this year and have identified an exemplary group of honorees. So, it's that time! We need sponsors! Early sponsorships for the banquet will help to fund our education outreach at the U of A this year. Thank you for all of your support! Looking forward to seeing everyone at our 2022 banquet!

### Diorama to be Relocated to Bullion Plaza Cultural Center & Museum in Globe



The Mining Diorama that has been on display at the Arizona Heritage Center in Tempe for the last 8 years has found a new home at the Bullion Plaza Museum in Globe. Jan Rasmussen, Tom Scarticcini and Larry Dykers spent Thursday, May 12 in Tempe boxing up



the loose pieces of the diorama. The model will be moved May 23. The diorama will have to be reduced in size to fit. Tom Foster, Museum Director, is working on obtaining funds to help retrofit the diorama.

## HALL OF FAME MEETING

**Date: Wednesday, June 08, 2022**

**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**





## LOWELL INSTITUTE FOR MINERAL RESOURCES



**OUTREACH CORNER  
BY CHRIS EARNEST**

### Summer fun begins as the spring semester wraps up

As the heat of summer settles in the spring semester is wrapping up for schools across Arizona. The past few weeks saw the outreach program making several trips to Mesa and Queen Creek to talk to 3rd and 4th graders about minerals and their uses. Chris was also asked to present to elementary school students about metallurgy as a career during Jefferson Elementary School's "Career Exploration Fiesta." The teacher who organized the festival was happy to let us know that the students thought the metallurgy presentation was "definitely one of their favorites. The school quickly called us back in to talk to the 3rd graders about minerals and their uses the week after the career fair. We look forward to working with the elementary schools in the area again in the next school year .



*Introducing metallurgy to elementary school students.*



*Deciding the proper adhesive for your product can be a tricky decision – Photo: Gillian Noonan*

The end of the school year also brings with it quite a few events which the outreach program has had the pleasure of attending. During the annual Operators BBQ at the San Xavier Mining Laboratory the outreach program debuted a new mining and materials engineering activity. "DIY Sandpaper," fondly referred to as "artisanal sand paper" by the mine manager, had participants mining and processing garnetite found in the mine. They then selected an appropriate adhesive for their sandpaper by considering the material properties they desired from their final product and comparing those to various claims made by adhesive manufacturers. The final step was to adhere the garnets to a paper backing and wait for the adhesive to cure. As this short activity takes students through the entire journey of a resource from mine to product, we look forward to using it again at future events.

## Outreach Corner Cont.



*Volunteers pack the Mining and Geological Engineering Activity Kits to be sent out to SEA participants*

The education outreach program also had the opportunity to partner with the recruitment outreach program to present to high school and middle school students participating in the University of Arizona's Mathematics, Engineering, Science Achievement (MESA) Design Day. Students from all over southern Arizona came to the University on April 30th to present their design projects. In the time between their design presentations, students had the opportunity to join our electrowinning activity to learn how copper is refined, what it is used for, and how they can get involved in the industry

In preparation for summer the outreach program, with the help of several Mining and Geological Engineering students, has just finished packing activity kits for the Summer Engineering Academy. Following on the success of last year's event, this year's academy will offer students both in person and virtual experiences. On June

27<sup>th</sup>, in-person students will join us at the SX Mine for a fun filled day of mining and mineral resources activities. Those who are unable to make it in-person will be receiving their activity kits through the mail so that on July 18<sup>th</sup> they can log on and join us virtually. We look forward to sharing pictures of our summer events with everyone in the next newsletter!



LOWELL INSTITUTE FOR  
MINERAL RESOURCES





# 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



### Deb St. Aubin (Term expires 2023)

Deb has been a member of the MFSW since 2018 and just recently was elected to the Board of Governors. She is the Global Event Coordinator for Hexagon's Mining Division and was previously with Mintec, Inc. when it was acquired by Hexagon. She studied Auto Mechanics at Columbia Basin College and is an Army veteran. She is currently acquiring an Associate Degree in Culinary Arts from Pima Community College. Look for her culinary videos on YouTube.



### Yvonne Marshall (Term expires 2025)

Yvonne has been a member of the MFSW since 2019 and she also just recently was elected to the Board of Governors. She is a graduate of the University of Arizona with a B.S. in Renewable Natural Resources, Watershed Hydrology and began her career with Schlumberger Water Services. She presently works as Land Manager and Senior Advisor of Business Planning for South32 and has worked on the Hermosa project since 2017. She is a certified PADI divemaster or scuba instructor and is an ambassador for the Arizona Technology council.



## 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!**

## Kagan Barber (2022 JTED Scholarship Winner from MFSW )

For the past two years the MFSW has donated \$1,000 to The PIMA JTED Foundation for a scholarship to be given to a student 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 . The scholarship was not given out in 2021 so this year's recipient received a \$2,000 scholarship. Kagan is in the Construction Program and has also taken classes in Heavy Equipment and Welding. Kagan is an excellent choice as you can see by the Facebook posting below.



Pima JTED

February 16, 2021 · 🌐

Kagan Barber attended our Program Showcase in 2019. Now he has an impressive resume, excellent job prospects, college opportunities, a prestigious award and he hasn't finished high school yet. Make high school work for you. This year's virtual showcase is March 6. Thanks Megan Meier for this report.



KGUN9.COM

**Tucson student nominated to be named as 2020-2021 U.S. Presidential Scholar**

Only five Arizona students are nominated every year.



**Annual membership renewal is past due. We have 11 members who have not yet renewed. Please renew online or send your check to the Foundation Office.**





# 2022 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
University of Arizona MGE for Alumni Mixer at SME Conference	2,000.00
University of Arizona College of Science Lecture Series	15,000.00
Tucson Children's Museum SciFest Event	1,000.00
SARSEF	1,000.00
PIMA JTED	1,000.00
<b>TOTAL</b>	<b>36,500.00</b>



**Educating The Public About The Importance  
Of Mineral Resources Since 1993**

