



MINING FOUNDATION OF THE SOUTHWEST
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CONCENTRATES

2020-21 Officers & Governors Named



Rebecca Martinez—

Martinez earned her Civil Engineering degree from the University of Arizona and is a member of the American Society of Civil Engineers and serves as an Amphi Middle School Girl Power Mentor since 2015. She has over 24 years of experience in commercial and industrial projects. Martinez has extensive experience in civil engineering design, earthwork, hydrology, road design and permit approval. Her project management experience includes preparing project schedules, presentation and budgets. Prior to joining M3 in 2010, Martinez worked for The WLB Group, WestLand Resources, Inc., Evans, Kuhn and Associates, Inc., and Engineering and Environmental Consultants, Inc. She now is Civil Department Head at M3. Rebecca has been on the Board of Governors since 2017.



Andrew Soderman – Vice President & Hall of Fame Chairman

Soderman received his Mining Engineering degree from the University of Arizona and, following graduation, was employed by Cyprus Miami Mining as an entry level Mine Engineer. In 2004, he joined Phelps Dodge as a Senior Mine Engineer and since then has been with Freeport-McMoRan entrusted with increasing responsibilities. He is presently the Mine Manager at Freeport-McMoRan's Sierrita Operations. Shortly after joining the MFSW in 2016, Soderman began the first of four terms as MFSW's Secretary.



Amanda Best—Treasurer

Best 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. Best joined the MFSW in 2016 and has been on the Board of Governors since 2017. She has also served on the Hall of Fame Committee since 2016.



Robert Tracy—Secretary

Tracy received his B.S. in Mining Engineering from the University of Arizona. He worked for various mining companies in New Mexico, Colorado and Nevada before returning to Arizona in 2017 with Arizona Mining, now South32, as a Senior Mine Engineer working on underground mine design and scheduling for the Hermosa-Taylor Project. He is presently a Project Engineer for South32 and joined the MFSW in 2018.

Terms of Board of Governors

Term expires: February, 2021

Bill Hawes
Shawn Hamilton
Nyal Niemuth
Brad Ross
Luiz Steinberg
David Travis
Chris Wilson
Rod Woodcock

Term expires: February, 2022

Mark Baker
Robin Barnes
Don Earnest
Andrew Soderman
Jean Austin
Kathy Arnold
Allison Moore
David Rhoades

Term expires February 2023

Amanda Best
John Fenn
Steve Holmes
Rebecca Martinez
Terry McNulty
Don Taylor
Robert Tracy
Will Wilkinson

Committee Chairs

Finance Chair - Herb Welhener

Foresight Chair - Don Earnest

Nominating Chair - Chris Wilson



ANNUAL MEETING



It was a great turn-out for the Annual meeting at the Viscount Hotel on February 12 with 44 members and 6 guests in attendance including 19 of the 22 Governors. I checked the records going back to 2013 and this was the largest attendance by the membership over the last 6 meetings and the first time we had 50 members attend during that time period. Thanks for attending and thanks for caring!



PRESIDENT'S CORNER



MESSAGE FROM INCOMING PRESIDENT REBECCA MARTINEZ

Year 2020 (Leap Year) has been a busy year and as a community we are dealing with tough times and learning how to work and keep safe with social distancing and the COVID-19 virus. I am truly honored for the opportunity as President of the MFSW and looking forward to working with a great group of members. The 37th Banquet was a success with over 500 tickets sold (third time in the last 3 years), 57 sponsors and a net proceed of over \$100,000. Thank you all to the success of the Banquet and to all of those at the Hall of Fame committee for all the work throughout the year.

The Hall of Fame committee is working hard on the banquet for this year. We have some exciting new members to induct this year and we will be working on the banquet in a safe manner, but more remote for the time being. For now, we will continue with our planning efforts for the banquet to be on Saturday, December 5th and our committee will monitor the situation and determine if appropriate action needs to follow.

Chris Earnest has been working diligently on the education outreach program to the young members of our community. Until recently, we have seen Chris present at many schools and participate at the Tucson Gem & Mineral show Junior Education booth, Tucson Children's Museum Family SCIFest, Engineering at the Mall and other school events. The recent public health challenges mean that the outreach program must also do its part to help ensure public safety while supporting our statewide educators and students. The outreach program is now taking steps to have the program online until it is safe to resume classroom presentations and hands-on activities.

As I write this, our future is so uncertain, but I have hope. We as a community need to take care of each other and at the same time we must not stop. We need to continue for the sake of our community and the sake of the future generations. It is so critical we keep our mission alive and promote the values of the mining industry, not only to honor the past but to ensure the future. Stay well everyone and let's make this year a banner year!

PRESIDENT'S CORNER



LOWELL INSTITUTE FOR MINERAL RESOURCES

OUTREACH CORNER BY CHRIS EARNEST



Spring is in full bloom here in southern Arizona and the outreach program has kept busy visiting classrooms and presenting the importance of mining at science events in Tucson and Phoenix. Late February and early March brought the outreach program to: Sonoran Trails Middle school in Cave Creek, the Tucson Gem and Mineral show Junior Education booth, the Tucson Children's Museum Family SCIFest, Engineering in the Mall at the Park Mall in Tucson, STEAM night at Boorman K-8 on Davis Monthan AFB, MEGA STEM night at Booth Ficket K-8 in Tucson, Corona MS in Vail, the Advancement of Latino Engineers (ALE) workshop for High school students put on by the Society of Hispanic Professional Engineers at the University of Arizona, and Pueblo Gardens PreK-8 in Tucson. We also were privileged to host Immaculate Heat MS, Southwest Homeschool Groups, Sunnyside High School, and Our Mother of Sorrows MS at our Mineral Resource Discovery Workshop in Flandrau Planetarium.



Where do we mine that? TGMS junior explorers learn the location of building stone mines in Arizona using a light up interactive map of active mines in Arizona. (MFSW_SP2.jpg)



Interactive Illuminated map of Active Mines in Arizona. Unfortunately, due to LED size limitations, every active mine cannot be displayed but we will continue to add mines as we acquire more LEDs (MFSW_SP3.jpg)

Outreach Corner Cont.



A TGMS junior explorer processes copper oxide ore for the SSXEW process.



Southern AZ High School students prepare to estimate their ore body in the Mining Engineering workshop during ALE 2020 (Advancement of Latino Engineers)



The outreach program is also using this time to continue content development for classroom presentations and other outreach events. As seen above, we have recently completed a light up interactive map of Active mines in Arizona using the AZGS active mines 2019 database. With the help and input of our volunteers and students who participate in the ALE workshops, classroom engineering Design a Mine activities have been finalized as well.

The outreach program is working hard to support our students and educators through these difficult times, and we will be more than ready to resume our normal hands-on activities as soon as safely possible.



THE UNIVERSITY OF ARIZONA

**Lowell Institute
for Mineral Resources**



FUNDED BY THE MINING FOUNDATION OF THE SOUTHWEST

FAMILY SCIFEST 2020



1,830 People attended Family SCIFest on Saturday, February 15

There were more than 50 exhibitors

MEMBERS' CORNER

We welcome 2 new members.

Jorge Mascena, CEO, Modular Mining Systems

Mascena joined Modular Mining in 2006 as a Software Engineering Supervisor. He has since held a variety of positions of increasing responsibility, including Manager of Operational Excellence and Global Manager of Customer Service. In 2016 he assumed his current role as Vice President of Customer Value, where he has focused on maximizing the value delivered by Modular Mining solutions to its customers. He holds a Bachelor's degree in Computer Science as well as a Master's degree in Software Engineering, both from the Federal University of Pernambuco in Brazil.

Sterling Cook ASARCO—retired

Cook received a Master of Science in Geology from the University of Oregon and his Ph.D. from the University of Arizona. Prior to joining Asarco, he worked at Phelps Dodge where he managed grass roots and brown fields exploration projects in the U.S., southeast Asia, and South America. He became Chief Geologist at the Ray Mine in 2009 and retired in 2019.

HALL OF FAME COMMITTEE MEETING

Date: Wednesday, April 08, 2020

Time: 3:30 p.m. — 4:30 p.m.

Meeting will take place via conference call-in only

RSVP: admin@miningfoundationsw.org or 520-577-7519

**Annual membership renewal is past due. If you have not yet renewed, please
renew online or send your payment to the Foundation Office.**



<https://www.miningfoundationsw.org/page-1846911>

Thank you all for your support of the MFSW. Help us get bigger and stronger and healthier. Go out and find a new member. The Outreach Program needs your support!



Taylor Receives Dryer Award



Don Taylor, member of the MFSW Board of Governors was given the Robert M. Dreyer Award in Applied Economic Geology (Dreyer Award) at the 2020 SME Annual Conference. The Dreyer Award was established in 2000 from a generous bequest from Dr. Dreyer's estate. The Dreyer Award recognizes outstanding achievements in applied economic geology. The outstanding achievements so recognized must have been accomplished through commercial exploration or development of metalliferous and/or nonmetalliferous mineral deposits. The nominee must have contributed significantly to applied economic geology through discovery of a major mineral deposit, substantial expansion of an identified deposit, outstanding delineation and estimation of resources and reserves, scientific studies that led to discoveries, or successful technical management of these activities.

The nominee must have spent most of his/her career in applied economic geology and no less than four of the past five years in commercial endeavors, exclusive of academia and government service.

Taylor has 40 years of global mineral exploration and mining experience in the precious and base metal sectors. Mr. Taylor's experience includes positions with BHP Minerals, Bear Creek Mining, American Copper and Nickel, The Doe Run Resources Company and Westmont Mining.

Most recently, Mr. Taylor was the Chief Operating Officer for Arizona Mining Inc., where he focused on the discovery of the Hermosa Taylor Project in Arizona. The Hermosa Taylor Project is one of the world's largest undeveloped base metal deposits, which was purchased by Australian based South32. Currently, Mr. Taylor is the Chief Executive Officer of Titan Mining Corporation.

Mr. Taylor earned a BS in Geology from Southeast Missouri State University and a MSc degree in Geology from the University of Missouri at Rolla. He is a member of the Society of Mining Engineering (SME), a Fellow of the Society of Economic Geologists (SEG) and is a Qualified Person as defined by Canadian National Instrument 43-101. Mr. Taylor is the 2017 winner of the SME's Ben F. Dickerson award and the recipient of PDAC's 2018 Thayer Lindsley award for the best global discovery.



Photos by Society for Mining, Metallurgy & Exploration"