

*Thirty-Eighth Annual*  
**American Mining Hall of Fame**



**Awards  
Presentation**  
EVENT & FUNDRAISER

Saturday, December 5<sup>th</sup>, 2020  
A Virtual Event, Tucson, Arizona

# Program

7:00 p.m.

CEREMONY

Welcoming Remarks: **REBECCA MARTINEZ**, PRESIDENT, MFSW

Introduction of Honorees  
and Honored Guests: **REBECCA MARTINEZ**

Awards Opening Remarks: **ANDREW SODERMAN**, VICE PRESIDENT, MFSW

Presentation of Inductees  
From Mining's Past

BY ANDREW SODERMAN: **JOHN BARRY "BLACK JACK" NEWMAN**  
(1862 - 1928)

**LEMUEL COOVER SHATTUCK** (1866 - 1938)

**ALBERT J. (AL) PERRY** (1930 - 2013)  
ACCEPTED BY WALKER PERRY AND LESLIE COOK

Presentation of Medal of Merit  
BY ANDREW SODERMAN: **EMILY KING**

Presentation of Medal of Merit  
Under age 40 BY ANDREW SODERMAN: **JONATHAN JAZWINSKI**

Presentation of Industry Partnership  
Award BY ANDREW SODERMAN: **HEXAGON**  
ACCEPTED BY NICHOLAS HARE,  
PRESIDENT, HEXAGON MINING DIVISION

Presentation of Inductee  
BY REBECCA MARTINEZ: **LUKAS HENRIK LUNDIN**  
ACCEPTED BY JACK LUNDIN

Adjournment: **REBECCA MARTINEZ**



## Sponsors

**DIAMOND**

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Rummel Construction

SRK Consulting

South32

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Florence Copper

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Golder

Haley &amp; Aldrich

Hudbay Minerals Inc.

KGHM (Carlota Copper Company)

Terry McNulty

Meridian Engineering Company

Montgomery &amp; Associates

Origin Mining Co., LLC

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Knight Piésold Consultants

National Mining Hall of Fame &amp; Museum

Ron Woodcock

# Mining Foundation of the Southwest

**T**he Mining Foundation of the Southwest was incorporated on May 3, 1993 with the merger of the Mining Club of the Southwest and the Mining Club of the Southwest Foundation. The Mining Club was spawned in late 1970 by a group of Tucson based engineers, metallurgists and geologists; opened its doors officially on February 1, 1971; and was incorporated by the State of Arizona on February 22, 1971.

The Club's Foundation was formed on June 18, 1982 to allow for tax deductible contributions to be used for charitable and educational purposes. The first American Mining Hall of Fame Awards was held on December 3, 1983.

Funds generated through the annual banquet are earmarked to support our mission. The MFSW partners with the Lowell Institute for Mineral Resources at the University of Arizona and is a prominent financial funding source for the IMR Outreach Program.

At its annual fundraiser, the American Mining Hall of Fame honors achievement of industry leaders. Including the 2020 inductees, 252 mining luminaries and organizations have been inducted and some of the commemorative plaques of past honorees are on display at the Arizona Historical Society Museum at 949 E. 2<sup>nd</sup> Street in Tucson.

**The purpose of the Foundation is to promote the value of the mining industry, honor its past and ensure its future.**

**Education is a major hallmark of the foundation, providing students, teachers, parents and others a comprehensive understanding of the fundamentals of mining and the uses of minerals, both metallic and industrial, that are essential to the world economy.**



## Mining Foundation of the Southwest

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[www.miningfoundationsw.org](http://www.miningfoundationsw.org)

## 2020 Hall of Fame Committee

Andrew Soderman - *Chair*  
Rebecca Martinez - *ex officio*

Kathy Arnold	Donald F. Earnest	Brad Ross
Robin Barnes	John Fenn	Thomas Scartaccini
Mark Baker	Shawn Hamilton	Robert Tracy
Amanda Best	William E. Hawes	David Travis
Jodi Hope Banta	Corolla (Cori) Hoag	Gene Waken
Avi Buckles	Steve Holmes	William H. Wilkinson
Lawrence G. Dykers	Matthew D. Lengerich	Chris Wilson
	Yvonne Marshall	Rodney Woodcock

# Lukas Henrik Lundin

CHAIRMAN LUNDIN GROUP OF COMPANIES

**Lukas Lundin** is head of the Lundin Group of Companies, global leaders in the mining and oil and gas industries. A well-known and respected business leader, financier and philanthropist, Mr. Lundin has enjoyed international success in the resource industry, spearheading numerous world-class discoveries and developments worldwide.

Founded over 40 years ago, the Lundin Group of Companies today has 14 publicly-traded companies actively involved in the exploration, development and production of oil and gas, copper, zinc, nickel, lead, gold, solar energy, uranium, and diamonds. Over the years, Mr. Lundin has been instrumental in the realization of extraordinary value for his shareholders through exploration and development success, takeovers and multi-billion dollar mergers.

Early in his career, as President of International Musto Exploration Limited, he was responsible for the acquisition of the world-class Alumbraera copper/gold deposit in Argentina. He spearheaded the \$510 million takeover by Rio Algom and North Limited providing shareholders enormous return on investment. Alumbraera went on to become one of the largest copper/gold mines in the world.

Continuing his success in Argentina, his team discovered the multi-million ounce Veladero gold deposit which resulted in a \$300 million takeover by Homestake. Veladero went on to become one of the top producing gold mines in the world.

He subsequently acquired the Tenke Fungurume copper/cobalt project in the DRC. This enormous project was at that time the world's largest undeveloped copper/cobalt project and went on to be developed by Freeport-McMoran and Lundin Mining, commencing production in 2009. The project was sold to BHR Partners in 2017 with Lundin Mining's share bringing in \$1.8 billion to the Company.



More recently Lundin Gold acquired the Fruta del Norte gold project in Ecuador from Kinross. It is now an award-winning, multi-million ounce producing gold mine.

Today, his companies are active around the world advancing new copper/gold discoveries towards production, building new gold mines, producing copper from world-class mines, developing a rich new uranium discovery and producing some of the largest gem quality diamonds ever found.

Mr. Lundin is an active philanthropist and is the founder of the Lundin Foundation. The Lundin Foundation is the philanthropic arm of the Lundin Group of Companies and supports innovative, high-impact initiatives aimed at enabling sustainable livelihoods in the countries in which the Lundin Group operates. Founded in 2006, the Lundin Foundation supports initiatives in five strategic areas selected for the potential to create long-term benefit streams to host governments and locally impacted communities: resource governance, education and skills training, local procurement, economic diversification, and social and environmental innovation.

Born in 1958, Mr. Lundin was raised in Stockholm, Sweden, and educated at the International School of Geneva, Switzerland. In 1981, Mr. Lundin graduated from the New Mexico Institute of Mining and Technology (engineering). Today, Mr. Lundin is based in Geneva, Switzerland.

## Noah S. Kellogg (1831 – 1903)

PROSPECTOR AND DISCOVER OF BUNKER HILL MINE



**Noah S. Kellogg** was a carpenter and prospector. He joined the rush to the Coeur d'Alene mining district in Idaho when he heard news of the discovery of gold, arriving with thousands of others in 1884, too late to locate a promising claim. In 1885, after working on a flume to carry water from a creek to potential placer gravels, he found himself suddenly unemployed when the project abruptly closed due to lack of funds.

He sought a grubstake to go prospecting. A merchant, John Cooper and a small contractor, Origin Peck, reluctantly supplied Kellogg with supplies and a burro. The burro became the matter of much folklore. The grubstake was conditional on Kellogg taking the burro, which was a braying and annoying critter disturbing the people in Murray.

Kellogg prospected along Milo Creek, a tributary of the South Fork of the Coeur d'Alene River. There are many versions as to the actual discovery of the Bunker Hill orebody, most involving the burro which apparently wandered off and was found near an outcrop bearing galena.

Kellogg staked the ground. It soon became apparent that the discovery was a valuable one, and lawsuits over ownership followed. After the matter was settled in court, Kellogg retained a significant share in the mine and found himself wealthy, however, he squandered his earnings. He died in 1903, and is remembered for the discovery of the Bunker Hill mine and has the City of Kellogg named after him.

## John Barry "Black Jack" Newman

(1862 – 1928) "NOSE FOR ORE"



**"Black Jack" Newman** was born in Chorna, Austro-Hungarian Empire. He immigrated to the US around 1876 and worked at various jobs as he traveled west; pushing coal cars in Pennsylvania, working in the copper mines of Michigan, and working on the Texas & Pacific railroad in Texas. By 1883, he arrived in Globe, Arizona and hired on as a mucker at the Old Dominion Mine.

He had a "nose for ore" and staked or acquired numerous claims in the area west of Globe. J. Parke Channing, who would become a major force in the development of the Miami Copper Company, liked some of Newman's claims and optioned them. This required sinking a shaft to verify Channing's belief in the presence of secondary copper enrichment.

Newman, superintendent for sinking the shaft, was so convinced there was ore that he disregarded orders telegraphed to stop work, hitting ore a day later. In less than four years from the initial discovery, Miami Copper Co was in production. It shares the honor with the Ray Mine as being Arizona's first large scale porphyry copper producer.

Newman had other claims in the area that became part of the Inspiration Consolidated Copper Co. Newman invested money from these successful mining ventures into building apartment houses, and the Old Dominion Hotel in Globe. When asked why he built a four-story brick hotel in a shabby area, he replied it was necessary to have a place to wine and dine potential investors.

By 1910 Newman moved to Santa Monica California to give his children a better education. Here, he invested in real estate and farming. He died in Santa Monica in 1928.

## Lemuel Coover Shattuck

(1866 – 1938) MINER, RANCHER, MERCHANT, BANKER



**Lemuel Shattuck** left his home near Erie, Pennsylvania at age 17 to work at a family owned cattle ranch in Arizona. After 4 years of being a cowboy, he sought employment in mining, which paid three times more than cowboy's pay. The mine where he worked closed, which prompted Shattuck to head to other mining camps in the west.

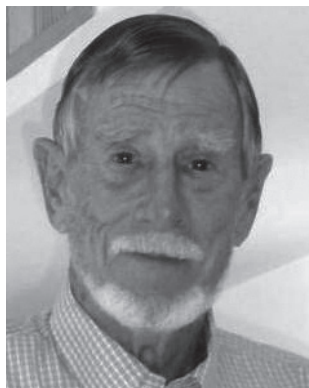
During the next two years, he worked at mines and placer fields in Arizona, Nevada, Utah and Montana. After working through the winter of 1887-88 at Butte, Montana, he decided Arizona was the place to be. He arrived back in Bisbee flat broke by the end of 1888.

The day after his return to Bisbee, he started work as a trammer at the Copper Queen at \$3 for an 8-hour day. In his spare time, he located a nearby clay deposit and made adobe bricks. This led to a profitable sideline. He expanded the business and hired local help, thus starting his business ventures.

By 1892, Shattuck was able to quit his job at the mine and devote full time to his business ventures. These included a lumber yard, a beer franchise, a bar, mines around Bisbee as well as a Mexican venture, and a bank. The Bisbee mines were high grade and successful. Ultimately, the Shattuck mine merged in 1925 with the Denn mine, in which Shattuck also had an interest, to form the Shattuck Denn Mining Co. Phelps Dodge Corporation purchased the Shattuck Mine in 1947. Between 1906 and 1947 the Shattuck Mine produced more than 3 million tons of copper and lead-zinc ore along with some manganese oxide.

## Albert J. (Al) Perry (1930 – 2013)

EXPLORATION GEOLOGIST



**Albert J. (Al) Perry** was born in 1930 in White Sulphur Springs, West Virginia. He served in the United States Marine Corps and attended Washington and Lee University, graduating with a Bachelor of Science degree in Geology.

With his wife Mary, he went to the University of Colorado, where he earned a Master of Science in Geology. The 1950's uranium boom led him to become an exploration geologist with Union Carbide, where he branched out to explore for other metals, including silver and gold.

From this experience he formed Perry, Knox and Kaufman (PKK), a consulting and contract exploration company, that determined that lower grade silver mineralization present in the Silver City district in Idaho and at Candelaria, Nevada, could be successfully mined using conventional open pit methods.

After the dissolution of PKK in 1979, the developing world-wide exploration boom for gold started him on a path that focused on grass-roots exploration extending from the western U.S. to Australia, Fiji, and Africa.

In Ghana and Eritrea he achieved his greatest exploration success, single handedly discovering the Enkron Hill deposit in Ghana, and the Emba Dehro, Adi Nefas, Gupo, and Debarwa deposits in Eritrea. Together, these deposits have been developed into mines containing more than 2 million ounces of gold.

While working in Africa, Al developed a passion for supporting the less privileged people he encountered by funding university degrees for two Ghanaian students, and helping to support a church-run boarding school in Ghana. He considered these to be among his greatest accomplishments.



## Emily King

CHIEF EXECUTIVE OFFICER, GLOBAL VENTURE CONSULTING | FOUNDER, PROSPECTOR



**Emily King** is the CEO of Global Venture Consulting and Founder of Prospector, a new search engine for the mining industry.

Prior to founding Global Venture Consulting and Prospector, Ms. King was the Director of Natural Resources for an economic development task force in the U.S. Department of Defense (DoD). In this role, Ms. King oversaw a \$40 million per year mineral resource exploration and investment promotion for the Pentagon, in partnership with the Afghanistan Government and the U.S. Geological Survey. Her team conducted exploration on fifteen mineral deposits throughout Afghanistan and tendered four copper and gold exploration assets. For her leadership of this program, Ms. King was awarded the Secretary of Defense Medal for Outstanding Public Service and the Global War on Terrorism Award.

Global Venture Consulting (GV) is a natural resource consulting firm specializing in bringing technology solutions to emerging and frontier markets with a focus on Afghanistan and Central Asia, the Middle East, and North

Africa. Since 2013, GV has worked with clients and partners to accelerate innovation and incorporate disruptive technology into the collection and interpretation of geologic data.

Most recently after seeing a glaring need for a way to digest publicly available but extremely cumbersome technical data on mining projects, King founded Prospector to present the results in a highly intuitive and searchable interface. Prospector turns this unwieldy data into market intelligence contained within a user-friendly search engine that even non-traditional mining investors can use and understand – putting a list of global mineral assets that fit investors’ investment criteria at their fingertips.

In July of 2020, Prospector was acquired and became a wholly-owned subsidiary of Analog Au, a private mining investment company with projects in Mexico. With the acquisition, Ms. King will continue to lead Prospector as Chief Innovation Officer of Analog Au.

King holds leadership positions in industry organizations and at the board level, including the Afghanistan Mining Think Tank, Women in Mining USA, and Director of VVC Exploration.

King earned a Degree in Geology and Government & Legal Studies from Bowdoin College. She is co-author of scientific publications including: “A Major Light Rare – Earth Element Resource in the Khanneshin Carbonatite Complex,” “Southern Afghanistan; Summary of the Kundalan Copper and Gold Area of Interest,” and a “Summary of the Zarkashan Copper and Gold Area of Interest,” and has contributed to articles for *Economic Geology and Geology for Investors*.



# Jonathan Jazwinski

MINE MANGER, CORTEZ OPERATIONS | BARRICK GOLD

**Jonathan (Jaz) Jazwinski** holds a Bachelor of Science Degree in Mining Engineering from The University of Arizona. He began his career with SRK Consulting in 2003, as a Field Engineer on the BHP Closure Project in San Manuel, Arizona.

With copper on the rebound, he moved on to Freeport-McMoRan's Sierrita Operation, working as a Mine Engineer and Mine Operations Supervisor. He had the opportunity to work in a variety of roles including construction and demolition projects, mine planning and in leadership. In 2011, he was promoted to Chief Mine Engineer and then Mine Operations Superintendent at the Bagdad Operation.

Continuing his upward career path, Jazwinski was then transferred and promoted to the Morenci Mine as Mine Planning Manager in 2015. He quickly advanced to Mine Operations Manager in 2016 where he and his team lead 1100 employees at the largest open pit mine in the United States in terms of annual production. Earlier in 2020, the mine was operating 141 haul trucks (260 ton) and 13 electric shovels and was responsible for moving 900,000 tons per day and producing a billion pounds of copper per year. In September Jazwinski became the Mine Manager for Barrick Gold at the Cortez Operations in Nevada.



Born in Phoenix, Arizona, Jazwinski attended Brophy College Preparatory where he excelled in Math, Chemistry, Physics and English (writing). Outside of school, he played guitar, was active in mountain biking and developed his love and passion for weight training which continues to this day. He met his wife, Eva, at The University of Arizona and they began their married life together in Tucson in 2006. While living in Bagdad, they were blessed with their two children Jenna (9) and Jacob (6).

Jonathan now resides in Nevada with his family. He is a generous blood donor with over 40 gallons of red cells, platelets, plasma, and granulocytes sent to patients in need all over the country including Phoenix Children's Hospital, Banner Cardiac Center and the Mayo Clinic.

Jazwinski is an active member of SME and serves on the advisory board of Aeris Copper. The company's mission is promoting the anti-pathogenic properties of copper to reduce disease transmission.

# Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions, putting data to work to boost efficiency, productivity and quality across industrial, manufacturing, infrastructure, safety and mobility applications. Hexagon technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's Mining division is helping to connect all parts of a mine with technologies that make sense of data in real time. Driven by professionals for professionals, Hexagon offers solutions that are tailored to customer needs and delivered on their terms — short term, long term, for the life of mine.

Mining depends on precision, accuracy, and safety. Mines must find ways to integrate, automate and optimize critical workflows for a competitive edge. Now more than ever, the industry must cut costs while improving safety. Hexagon solves these challenges with proven technologies for planning, operations and safety.

Hexagon's Mining division brings surveying, design, fleet management, production optimization and collision avoidance together in a life-of-mine solution that connects people and processes. The result is customers are safer, more productive and can make sense of their data.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 4.4bn USD.



# American Mining Hall of Fame

## *Inductees (1983-2019)*

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1983	George E. Atwood	2002	J. David Lowell
1984	Charles F. Barber	2003	Thomas J. O'Neil
1985	George B. Munroe	2004	J. Steven Whisler
1986	John C. Duncan	2005	Pierre Lassonde
1987	Plato Malozemoff	2006	Jack E. Thompson, Jr.
1988	Simon D. Strauss	2007	Dennis R. Washington
1989	G. Robert Durham	2008	Timothy R. Snider
1990	Harry M. Conger III	2009	Tom Albanese
1991	Kenneth J. Barr	2010	Richard C. Adkerson
1992	T.S. Ary	2011	Laurence Golborne Riveros
1993	Milton H. Ward	2012	Gregory H. Boyce
1994	J. Burgess Winter	2013	James D. Toole
1995	Douglas C. Yearley	2014	Armine Frederick Banfield, Jr.
1996	Richard de J. Osborne	2015	Conrad Huss
1997	James R. Moffett	2016	Oscar González Rocha
1998	Charles G. Preble	2017	Gary Goldberg
1999	Irl F. Engelhardt	2018	Harry M. (Red) Conger
2000	Ronald C. Cambre	2019	Darren M. Pylot
2001	A. Dan Rovig		

## *Industry Partnership Awards (1995-2019)*

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1995	Caterpillar, Inc. - Glen A. Barton	2007	M3 Engineering & Technology Corporation
1996	AMIGOS (Arizona Mining & Industry Gets Our Support)	2008	Atlas Copco Construction Mining Technique USA LLC
1997	Colorado School of Mines	2009	Boart Longyear Company
1998	Stephen D. Bechtel, Jr. and Bechtel Corporation	2010	Prospectors and Developers Assoc. of Canada
1999	Mineral Information Institute	2012	Komatsu America Corp.
2000	Modular Mining Systems, Inc.	2013	Joy Global
2001	Mintec, Inc.	2014	Empire Southwest
2002	Senator Larry Craig	2015	InfoMine
2003	Aker Kvaerner	2016	WestLand Resources, Inc.
2004	Mining and Metallurgical Society of America	2017	SRK Consulting
2005	Northwest Mining Association	2018	Sundt Construction, Inc.
2006	Mountain States Legal Foundation	2019	Golder

## *Special Citation Awards (1994-2019)*

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1994	Senator Dennis DeConcini	2013	Arizona Geological Survey
2010	Friends of Ariz. Mining & Mineral Museum	2014	Rio Tinto Kennecott Bingham Canyon
2011	Chilean Government - Industry Partnership	2015	Independent Mining Consultants
2012	ASARCO LLC	2016	WAAME
		2018	SABC

## *Presidential Citation Award (2009)*

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2009	Caterpillar, Inc.
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# American Mining Hall of Fame

## *Medal of Merit Recipients (1989-2019)*

1989	Ralph J. Roberts	2005	Wayne C. Hazen
1989	Victor H. Verity		
		2006	Leonard R. Judd
1990	John S. Livermore	2006	Roshan B. Bhappu
1991	George O. Argall, Jr.	2007	William G. Davenport
		2007	Harry Parker
1992	Arthur A. Brandt		
1992	William C. Epler	2008	Barbara A. Filas
		2008	Paul Arthur Hodges
1993	Walter E. Heinrichs, Jr.		
1993	Willard C. Lacy	2009	Mary M. Poulton
		2009	Jean Michel Rendu
1994	Donnell W. Agers		
1994	J. David Lowell	2010	Terence P. McNulty
1994	Ronald R. Swanson	2010	Nyal Niemuth
1995	Warren Kay Pincock	2011	Marco T. Einaudi
		2011	Ralph B. Sievwright
1996	Richard W. Hutchinson		
1996	Charles L. Pillar	2012	David C. Lincoln
		2012	Matthew D. Lengerich
1997	Hugo T. Dummett		
1997	Spencer Rowe Titley	2013	Joseph M. Keane
		2013	Sean D. Dessureault
1998	David N. Skillings, Jr.		
1998	José Rubén Velasco Rodríguez	2014	Corale L. & James A. Brierley
		2014	David E. Nicholas
1999	Paul S. Allen	2014	Scott M. Shields
1999	William C. Peters		
		2015	Charles Michael (Mick) Lownds
2000	Leonard Harris	2015	Fiorella Giana
2000	Pedro Sánchez-Mejorada		
		2016	William R. Assenmacher
2001	William H. Dresher	2016	Justin Cross
2001	Warren E. Fenzi	2016	Michelle Lammers
2002	Richard D. Call	2017	John Lacy
2002	Kenneth L. Zonge	2017	Eben Robinson
2003	Stanley H. Dempsey	2018	Hugh Miller
2003	James Wm. White	2018	Marian LaLonde
2004	Edward S. Frohling	2019	Victoria Peacey
2004	Joaquin Ruiz	2019	Vicki Seppala
		2019	William Sircy
2005	Larry McBiles	2019	Cody Sutherland

## American Mining Hall of Fame

*Inductees from Mining's Past (1983-2019)*

M. Lee Allison	1948-2016	Thomas S. Lovering	1896-1991
Maxie L. Anderson	1934-1983	John William Mackay	1831-1901
Frank William Archibald	1920-1987	Hugh Exton McKinstry	1896-1961
William Phipps Blake	1826-1910	Donald H. McLaughlin	1891-1959
Robert Bogart	1923-2002	Frank Wood McQuiston	1904-1987
Allan B. Bowman	1911-1982	Bartolomé de Medina	1497-1585
James Boyd	1904-1987	Charles Meyer	1915-1987
Bert S. Butler	1877-1960	Charles E. Mills	1867-1929
Nellie Cashman	1849-1925	Seeley W. Mudd	1861-1926
Louis S. Cates	1881-1959	Frank Murphy	1854-1917
J. Parke Channing	1863-1930	Samuel Newhouse	1853-1930
Roscoe Channing	1868-1961	Georges Ordoñez	1907-1982
Thomas Garfield Chapman	1886-1965	Jorge Larrea Ortega	1912-1999
Marco Chiapponi	1854-1929	William Smith Otis	1813-1839
William Andrews Clark	1839-1925	Charles F. Park, Jr.	1903-1990
James Colquhoun	1857-1954	Arthur Barrette Parsons	1887-1966
Patrick Edward Connor	1820-1892	William H. Peirce	1862-1944
James Harold Courtright	1908-1986	Richard Alexander Penrose, Jr.	1863-1931
Arthur C. Daman	1889-1968	Charles Debrille Poston	1825-1902
Ernest R. Dickie	1902-1955	Kenneth L. Power	1924-1978
John Van Nostrand Dorr	1872-1962	Andrew J. Prichard	1830-1902
James Douglas	1837-1918	Alberto Benavides de la Quintana	1920-2014
James Stewart Douglas	1868-1949	Frederick Leslie Ransome	1868-1935
Herman Ehrenberg	1818-1866	Rositer W. Raymond	1840-1918
John Spence Finlay	1874-1935	Kenyon E. Richard	1915-1993
Charles F. Fogerty	1921-1981	Robert H. Richards	1844-1945
Maurice C. Fuerstenau	1933-2012	Thomas A. Rickard	1864-1953
Antoine M. Gaudin	1896-1974	Louis D. Ricketts	1859-1940
Juan Jose Gradillo	1830-unk.	Bernhardt Rohe	1909-1992
Wesley P. Goss	1899-1985	Edwin Burton Royle	1905-1957
Louis Caryl Graton	1880-1970	Reno H. Sales	1876-1969
William C. Greene	1853-1913	Robert Scanlan	1936-1972
John C. Greenway	1872-1926	Harrison Ashley Schmitt	1896-1966
Meyer Guggenheim	1825-1905	Fred Searls, Jr.	1888-1968
Hal W. Hardinge	1855-1943	Charles Senter	1845-1924
George Hearst	1820-1891	Antonio Siraumea	1710-1760
Samuel Peter Heintzelman	1805-1880	E. A. Cappelen Smith	1873-1949
Earl C. Herkenhoff	1915-2002	Sarah Herring Sorin	1861-1914
Joseph Austin Holmes	1859-1915	Earl Tappan Stannard	1882-1949
Herbert C. Hoover	1874-1964	John Murchison Sully	1868-1933
Theodore Jesse Hoover	1971-1955	Arthur F. Taggart	1884-1959
Daniel C. Jackling	1869-1956	William Boyce Thompson	1869-1930
H. Myles Jacob	1913-1997	Howard Allen Twitty	1909-1989
Ira B. Joralemon	1884-1975	Enos A. Wall	1839-1920
Jack Furman Kemp	1859-1926	Stewart R. Wallace	1919-2009
Medora Hooper Krieger	1905-1994	Thomas F. Walsh	1850-1910
Henry Krumb	1875-1958	Norman L. Weiss	1902-1986
Thomas H. Leggett	1859-1935	Kathy G. Whitman	1959-2012
Henry Lesinski	1836-1924	Arthur Redman Wilfley	1860-1927
Adolph Lewisohn	1849-1938	Ben Williams	1852-1925
Leonard Lewisohn	1847-1902	Forbes Kingsbury Wilson	1910-1990
John Cromwell Lincoln	1866-1959	Edward H. Wisser	1895-1970
Waldemar Lindgren	1860-1939	Pope Yeatman	1861-1953
Curtis H. Lindley	1850-1920		

# Mining Foundation of the Southwest

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## *Officers*

Rebecca Martinez - *President*  
 Andrew Soderman - *Vice President*  
 Robert Tracy - *Secretary*  
 Amanda Best - *Treasurer*

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## ***Board of Governors***

Kathy Arnold  
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 Shawn Hamilton  
 William E. Hawes  
 Steve Holmes  
 Terry McNulty  
 Allison Moore  
 Nyal Niemuth  
 David Rhoades  
 Brad Ross  
 Luiz Steinberg  
 Donald R. Taylor  
 David Travis  
 Will Wilkinson  
 Rod Woodcock

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## ***Gold Members***

Curtis Bilow  
 Lenny Boteiho  
 John Fenn  
 Gary J. Goldberg  
 Shawn Hamilton  
 Corolla (Cori) Hoag  
 Steven C. Holmes  
 Terry McNulty  
 Thomas Scartaccini  
 Thomas D. Toole  
 David Travis  
 J. Steven Whisler  
 Will Wilkinson

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## ***Honorary Members***

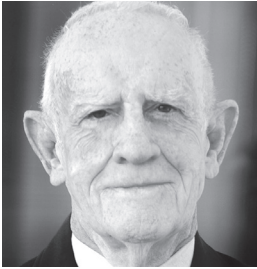
Armine Frederick Banfield  
 Michael Canty

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## ***Silver Members***

Doug Arnold  
 Kathy Arnold  
 Jean Austin  
 Stanley Dempsey  
 R. Gene Dewey  
 Donald F. Earnest  
 Richmond Fenn  
 Barbara Filas  
 Nancy Gungor  
 John C. Lacy  
 Robert (Rob) Livermore  
 Greg Lucero  
 Jorge Mascena  
 Allison Moore  
 Brian Norton  
 A. Dan Rovig  
 Arlan Ruen  
 Luiz Steinberg  
 James Stephens  
 Mark Sutton  
 Lyn Thomas  
 Gene Waken  
 Susan Wick



**J. David Lowell** (1928 –2020)

**Most successful explorer of the last 60 years**

**2002 Inductee**

**1994 Medal of Merit Honoree**

**Long-time MFSW member**

In the 38 year history of the American Mining Hall of Fame, J. David Lowell is the only person who has been honored both as the Inductee and as a Medal of Merit Honoree. The Lowell Institute for Mineral Resources (LIMR) owes its creation to generous endowments from J. David Lowell. Lowell's legacy ensures that the LIMR will continue to educate stakeholders on the importance of mineral resources and innovations in modern mining.

**Dr. Roshan Bhappu** (1926 –2020)

**Renowned Metallurgist**

**2006 Medal of Merit Honoree**

**Long-time MFSW Board member**

Roshan served as the head of the Department of Metallurgical Engineering at the New Mexico Institute of Mining and Technology from 1960 until 1972. 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. Roshan has written more than 100 technical papers and books. He holds several patents.

**Bob Metz** (1932 –2020)

**Consummate Geological Engineer**

**Two-time President & HOF Chair**

**Long-time MFSW Board member**

Bob worked as a consultant for major corporations in the United States, Latin America and Australia and had over fifty years' experience in detailed geologic studies and exploration with special expertise in porphyry Cu-Mo and Au deposits. He published several technical papers and has been listed in "Who's Who in American Colleges and Universities" and "Who's Who in the West". Bob was a Registered Geologist in AZ and at his passing was President of Professional Minerals Development, LLC, and a Director and the Senior Exploration Officer of Tri Minerals Holding Corp, both headquartered in Tucson, AZ

**Dr. Harry Parker** (1946 –2019)

**Foremost Authority on Resource Modeling**

**2007 Medal of Merit Honoree**

**Long-time MFSW member**

Harry Parker was widely known and respected as a foremost authority and expert in the field of resource modeling and geostatistics. Harry was a Professional Geologist (California, Arizona), a Chartered Professional Geologist and Fellow of the Australasian Institution of Mining and Metallurgy (AusIMM), a Fellow of the Society of Economic Geologists (SEG), an Honorary Life Member of the Geostatistical Association of Australasia and a member of Phi Beta Kappa Committee. He co-founded Mineral Resources Development Inc. (MRDI), now part of Wood Group.



*MFSW Outreach Coordinator*

CHRISTOPHER EARNEST  
earnest@email.arizona.edu

Lowell Institute for Mineral Resources  
The University of Arizona

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MINERALS AND GAMING



THE UNIVERSITY OF ARIZONA

Lowell Institute  
for Mineral Resources

**SPECIAL THANKS**

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MINING**