



Thirty-Third Annual
American Mining Hall of Fame



Awards Presentation

BANQUET & FUNDRAISER

Saturday, December 5th, 2015
JW Marriott Starr Pass Resort & Spa, Tucson, Arizona

Program

6:00 p.m.

RECEPTION

7:00 p.m.

BANQUET

8:00 p.m.

CEREMONY

Welcoming Remarks: **JOHN FENN**, TREASURER, MFSW

Introduction of Head Table
and Other Honored Guests: **JOHN FENN**

Introduction of Inductees: **EBEN ROBINSON**, VICE PRESIDENT, MFSW

Presentation of Inductees **LEONARD & ADOLPH LEWISOHN**
From Mining's Past (1847-1902) (1849-1938)

BY EBEN ROBINSON:

JACK FURMAN KEMP
(1859-1926)

ROSCOE CHANNING (1868-1961)

ACCEPTED BY PATRICK MERRIN, VICE PRESIDENT,
ARIZONA BUSINESS UNIT – HUDBAY MINERALS

ALBERTO BENAVIDES DE LA QUINTANA (1920-2014)

ACCEPTED BY HIS GRANDSON, JOSE VIZQUERRA

Presentation of Medal of Merit **CHARLES MICHAEL (MICK) LOWNDS**
BY EBEN ROBINSON:

Presentation of Medal of Merit **FIGORELLA GIANA**
Under age 40 BY EBEN ROBINSON:

Presentation of Industry Partnership **INFOMINE**
BY EBEN ROBINSON: ACCEPTED BY JENNIFER B. LEINHART, PRESIDENT

Presentation of Special Recognition **INDEPENDENT MINING CONSULTANTS, INC.**
BY JOHN FENN: ACCEPTED BY MICHAEL HESTER, JOHN MAREK &
HERB WELHENER

Grand Door Prize: **JOHN FENN**

Presentation of Inductee **CONRAD E. HUSS**
BY JOHN FENN:

Featured Address: **CONRAD E. HUSS**

Adjournment: **JOHN FENN**



PLATINUM

Freeport-McMoRan Inc.
Independent Mining Consultants, Inc.
Joy Global
Komatsu America Corp.
M3 Engineering & Technology Corporation
Ruen Drilling

GOLD

ASARCO LLC
Empire Southwest
Keane Mineral Engineering LLC
Modular Mining Systems, Inc.
Newmont Mining Corporation
Southwest Energy LLC
WestLand Resources, Inc.

SILVER

A. Fred Banfield
Anonymous
Apache Nitrogen Products, Inc.
Click Automotive Team
DeConcini McDonald Yetwin & Lacy P.C.
Gadsden Sonora Holdings LLC
Golder Associates
Industrial Automation Services Inc.
InfoMine USA, Inc.
J. Steven Whisler
Layne Christensen
Liebherr Mining Equipment, Inc.
Lowell Copper Ltd.
Meridian Engineering Company
Mining & Metallurgical Society of America
Motion Metrics International
Mountain States R&D International, Inc.
Orica
Origin Mining Company LLC
RDE Evaluations, Ltd/Pro- Minerals Development, LLC
SRK Consulting

Mining Foundation of the Southwest

The Mining Foundation of the Southwest (MFSW) was incorporated in 1982 by combining the Mining Club of the Southwest and the Mining Club of the Southwest Foundation. The purpose of the Foundation is to promote the value of the industry to our community and profession to ensure its future success.

Funds generated through membership and the annual banquet are earmarked to support our mission. MFSW, working in conjunction with the Lowell Institute for Mineral Resources at the University of Arizona, underwrites the Outreach Program Coordinator position currently held by Pamela A. K. Wilkinson, a geologist and an educator.

At its annual fundraiser, the American Mining Hall of Fame honors the achievement of industry leaders. Including the 2015 inductees, 201 mining luminaries and organizations have been inducted and some commemorative plaques of past honorees are on display at the Arizona Historical Society Museum at 949 E. 2nd Street in Tucson.

2015 Hall of Fame Committee

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Lawrence G. Dykers
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Theodore H. Eyde
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Mining Foundation of the Southwest



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Conrad Huss



Conrad Huss was born in Chicago in 1941. His father was a carpenter from Germany and his mother a farm girl from Southern Illinois. Although poor, they were industrious and stressed the importance of education to their children.

Huss attended the University of Illinois and earned a Bachelor's degree in English, another in mathematics and almost a third in engineering. After undergraduate school Huss became an oceanographer doing mainly bathymetry for 30 months. As an Ensign and later a Lieutenant Junior Grade in the Navy, he sailed the Pacific with Hawaii and Alaska as ports of call, and later the Atlantic in the Caribbean and Gulf of Mexico. Then for half a year he taught high school science and math in West Tampa, Florida.

Graduate school took Huss to the University of Arizona where he earned a Master's and then a Ph.D. in Engineering Mechanics, later accepting a professorship to Northern Arizona University. Deciding to put his education to practical use, Huss next worked design engineering jobs for 15 years at Raytheon, RGA and Mountain States Engineers.

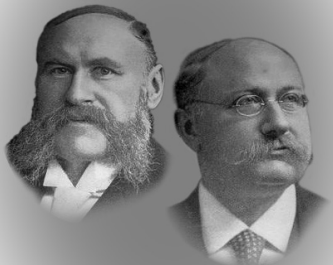
In 1986, Huss helped found M3 Engineering & Technology Corporation and has been its Chairman of the Board for its entire 30 year history, and its more than 10,000 projects. M3 now has around a thousand employees with offices in Arizona, North Carolina, Argentina and Mexico. Some M3 projects now exceed a billion dollars in value and have taken Huss on business to over twenty countries across the world.

M3's guiding principle has always been "excellent and innovative engineering." In the early years assistance was provided to the mines in the Southwest to modernize, to expand, and to become the most cost effective in the world. Over time M3 emerged to a full discipline firm offering complete project execution through engineering, procurement and construction management (E.P.C.M.) procedure. Hecla's La Choya, a gold operation in Sonora, Mexico was M3's first project and was also the first Mexican mining project built under new government regulations with foreign ownership. To date, more than half of the Mexican mining projects completed in the last 25 years have been managed by M3 with the Goldcorp's Peñasquito project among its proudest achievements.

Huss' innovative planning and management has helped various operations cope with governmental requirements. Many of these guidelines have now been adopted by other mines. His vision has also catapulted M3 to become a major engineer of large observatories around the world.

Huss has five children, four sons and a daughter.

**Leonard (1847-1902) &
Adolph (1849-1938) Lewisohn**



Mining Magnate Brothers

Leonard and Adolph Lewisohn founded Lewisohn Brothers, a mercantile firm in New York City. The expanding market for copper prompted the brothers to seek sources of this commodity.

This quest led them to investments in Butte, Montana, then to Globe, Arizona's Old Dominion Mine. The brothers soon realized that rail transportation would be necessary for the mine to be viable. Unfortunately, after building a rail line from Globe to connect with the Southern Pacific, they uncovered water problems. Not wanting to confront the water problems, the brothers sold the mine and sought copper elsewhere. They found success in Tennessee (Tennessee Copper) and back to Arizona where their Miami Copper Company became one of the most successful copper mines of the time. Their quest for copper also led them to other Arizona properties including an evaluation of Bagdad and acquisition of property in the Helvetia-Rosemont area.

The Lewisohn brothers were also legendary philanthropists giving generously to institutions in New York, regardless of creed.

James Furman Kemp (1859-1926)



Geology Professor, Co-Founder of GSA and SEG

James Furman Kemp served for 34 years as professor of geology at Columbia University and made life-long contributions to geology and the study of ore deposits.

Born in New York, Kemp earned his undergraduate degree from Amherst College and his graduate degree from the Columbia School of Mines. Following graduation he taught at Cornell University and later joined Columbia University and was a faculty member until his death. In 1906 Amherst College awarded Kemp an honorary doctorate degree.

Kemp co-founded both the Geological Society of America and the Society of Economic Geologists and helped establish the journal *Economic Geology*. He was active in the New York Academy of Sciences, the American Association for the Advancement of Science, the American Association of Petroleum Geologists, and the National Academy of Sciences.

Kemp authored *Ore Deposits of the United States and Canada* and *A Handbook of Rocks for use without the Microscope*, as well as papers for the U.S. Geological Survey and the New York State Survey.

Roscoe H. Channing, Jr. (1868-1961)*President, Hudson Bay Mining & Smelting Company*

Roscoe H. Channing, Jr. was a star halfback for Princeton University and was one of only eleven football players selected for the first ever College Football All-American Team in 1889.

Channing began his career on the Iron Range and was the youngest mine manager on the Mesabi Range but resigned to join Teddy Roosevelt's Rough Riders. Returning from war, Channing worked for Pickands, Mathers & Company and later led Utah Consolidated's Highland Boy Mine to its most profitable years. In 1907, he was hired by Cerro de Pasco Copper Mine in Peru and again successfully guided the company back to profitability.

When Utah Consolidated dissolved in 1923, Channing assumed management of businessman Harry Payne Whitney's properties and oversaw metallurgical research at a property located in Flin Flon, Manitoba beginning in 1924. With financial backing from the Whitneys, Channing co-founded the Hudson Bay Mining & Smelting Company with Cornelius, Whitney's son. Channing served as the company's President until his retirement in 1957, then moved to Tucson, Arizona where he resided until his death.

Alberto Benavides de la Quintana (1920-2014)*Founding President, Cía de Minas Buenaventura*

Alberto Benavides de la Quintana was born in Lima, Peru and earned a master's degree in Geology from Harvard University following undergraduate work at the Peruvian School of Engineers. On return to Peru, Benavides was hired by Cerro de Pasco and at age 30 was promoted to oversee Peru's Exploration Department. For over half a century, Cerro de Pasco was the dominant Peruvian producer of copper, lead, silver, zinc and bismuth.

On learning that Cerro de Pasco planned to terminate operation at the Julcani mine, Benavides boldly negotiated a lease and founded Cía. de Minas Buenaventura in 1953. Buenaventura quickly expanded its operation becoming the first Latin American mining company to list on the NYSE.

Benavides' vision elevated Peruvian living standards. He was instrumental in the privatization of the Cerro Verde mining property and helped found the mining faculty of the Pontifical Catholic University of Peru. Benavides was honored by the Society of Mining, Metallurgy & Exploration, Society of Economic Geologists, International Mining Hall of Fame and Harvard University as Chair alumni for his Life Time Achievement.

Charles Michael (Mick) Lownds



Mick Lownds Consulting

Charles Michael (Mick) Lownds was born in South Africa and earned his undergraduate degree from Rhodes University and a Ph.D. in Physical Chemistry from the University of Cape Town. He immigrated to the USA in 1988, becoming a citizen in 2001. Lownds has published many technical papers and has been awarded 12 US patents. He was the recipient of the President's Award from the International Society of Explosives Engineers in 2000. Recently, he retired after 42 years in commercial explosives following tenure with Sasol as Explosives R&D Manager and at Orica as Manager in charge of the electronic detonator business. Lownds now

oversees Mick Lownds Consulting in Salt Lake City offering expertise and guidance in commercial explosives.

A pioneer in electronic detonator development, Lownds searched for ways to perfect detonators and spent years in blasting research, concentrating on explosive-rock interaction. This work has resulted in better contained blasts, where an undulating surface is now observed, rather than rock flying from the blast.

The early years of perfecting new detonator technology proved challenging for both the producer and the customers. Lownds chased problems to their cause. His openness with customers convinced many mine operators to overcome traditions and realize the benefits of precise blasts.

Over the years, Lownds has made significant advancement on electronic initiation systems. He is a much sought-after speaker and generously shares his knowledge at mining schools across the country. His determination on improving the safety, reliability and efficiency in large scale blasting has earned him unparalleled kudos among explosives manufacturers and mining companies.

Fiorella Giana

*Mine Manager, Bagdad
Freeport-McMoRan Inc.*

Born in Argentina, **Fiorella Giana** left the small cattle ranch where she grew up in 2001 to attend college in the United States. Immediately following graduation in Mining Engineering from Missouri University of Science and Technology in 2005, she joined Phelps Dodge (later acquired by Freeport-McMoRan Inc.) at Chino Mines in Bayard, New Mexico as an entry level Mine Engineer.

For the past decade, as a result of Giana's extraordinary combination of technical skill, leadership, commitment and quest for excellence, she has attained positions of progressively greater responsibility ascending the corporate ladder at a rapid pace. While working at Chino Mines, she was instrumental in the operation of the dispatch system, quickly becoming Senior Mine Engineer. Shortly after being transferred to Morenci in 2009 as a Senior Mine Engineer, Giana again demonstrated unparalleled ability and became the Chief Engineer. In her new role, she was pivotal in creating long range mine plans to increase mine production and instituted "Technical Sessions" for the less experienced engineers. In 2014, Giana was named Mine Manager of Bagdad, a position rarely held by women. As Mine Manager, Giana now helps to develop and mentor future leadership.



Along with her meteoric rise within the Freeport-McMoRan organization, Giana is an active member of SME and is also involved with the Thunderbird International Consortia. When away from work, she most enjoys spending time with her husband, Cory Demieville, and her two young daughters, Alana and Cora, and somehow still finds time to participate in triathlons and mud runs in addition to pursuing a new interest in woodworking.

InfoMine

The concept of InfoMine was first developed by Andy Robertson and Graham Baldwin in 1989. The company was incorporated in 1990 as Robertson Info-Data Inc. with the objective of electronically providing worldwide mining information services. The commercial development of the Internet resulted in the establishment of the first InfoMine website in 1994 and Robertson Info-Data became InfoMine.

InfoMine is one of the pioneers in the commercial application of the Internet. Over the last two decades, the company has expanded to include data resources, online newsletters, professional development and technical conferences. From finding a job on CareerMine, taking courses with EduMine, getting Mining.com delivered to you, understanding your project economics with cost estimating tools, having your company listed in our directory, to searching its vast companies and properties databases, InfoMine is the world leader in providing mining and exploration information online.

In 2001, EduMine was created to provide on-going, cost efficient continuing education to the global mining and geoscience communities. Currently, EduMine offers over 160 English and 30 Spanish online courses and over 60 short courses and live webcasts covering all aspects of mining.

In 2006, InfoMine acquired Western Mine Engineering from Otto Schumacher, creating the CostMine division. Schumacher got his start working at San Manuel as a young mining engineer. The CostMine division provides up-to-date mine cost estimating tools for feasibility studies, exploration decisions and economic analysis. Publications such as **Mining Cost Service** and **Mine & Mill Equipment Costs Guide** have been staples for mining engineers and cost estimators since 1983.

By the numbers, our Careers division connects over 57,000 candidates with employers and recruiters worldwide. Mining.com, our online newsletter is delivered to over 500,000 subscribers daily. IntelligenceMine contains data on over 33,000 mines, projects and processing facilities to quickly identify business opportunities, maps and rich data for researchers and investors. Browse or search over 20,000 companies covering a range of products and services used by the mining industry in the SupplyMine database. InfoMine's conferences have become the gold standard for technology transfer addressing specialized topics such as mine closure, water issues, heap leaching, risk, modeling, mining communities and more.

Without a doubt, InfoMine connects people in the mining industry. InfoMine does not mine minerals — it makes mining minerals more efficient. It is a mine of information about the global mining industry, with a portfolio of tools to help you extract precisely the information you require.



Independent Mining Consultants, Inc.

Independent Mining Consultants, Inc. (IMC). is a locally owned mining consulting firm. IMC was incorporated in 1983 by Michael Hester, John Marek and Herb Welhener. Since IMC's foundation the firm has been located in Tucson, Arizona. We celebrated the start of our 32nd year of business beginning September 2014.

Over the years, our staff has grown to 15 persons who have experience in a wide range of mineral commodities including base metals, precious metals, industrial minerals and aggregates. The skills of IMC personnel include mineral deposit modeling, resource and reserve estimation, open pit mine planning, and mining cost estimation.

IMC has gained the reputation as one of the most reliable and cost effective sources of mine consulting services for the base and precious metals industries. Our clients range from Fortune 500 companies, intermediate sized mines, diverse commodity producers and exploration firms. Our client list has grown to over 250 companies with over 500 projects world-wide in a variety of geologic and geographic environments.

We wish to thank the mining community for your support during the past years and IMC looks forward to serving our existing and new clients well into the future.



American Mining Hall of Fame

Inductees (1983-2014)

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



Industry Partnership Awards (1995-2014)

1995	Caterpillar, Inc. - Glen A. Barton
1996	AMIGOS (Arizona Mining & Industry Gets Our Support)
1997	Colorado School of Mines
1998	Stephen D. Bechtel, Jr. and Bechtel Corporation
1999	Mineral Information Institute
2000	Modular Mining Systems, Inc.
2001	Mintec, Inc.
2002	Senator Larry Craig
2003	Aker Kvaerner
2004	Mining and Metallurgical Society of America
2005	Northwest Mining Association
2006	Mountain States Legal Foundation
2007	M3 Engineering & Technology Corporation
2008	Atlas Copco Construction Mining Technique USA LLC
2009	Boart Longyear Company
2010	Prospectors and Developers Assoc. of Canada
2011	Chilean Government/Industry Partnership
2012	Komatsu America Corp.
2013	Joy Global
2014	Empire Southwest

American Mining Hall of Fame

Medal of Merit Recipients (1989-2014)

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

American Mining Hall of Fame

Inductees from Mining's Past (1983-2014)

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
Allan B. Bowman	1911-1982	Frank Wood McQuiston	1904-1987
James Boyd	1904-1987	Bartolomé de Medina	1497-1585
Bert S. Butler	1877-1960	Charles Meyer	1915-1987
Nellie Cashman	1849-1925	Charles E. Mills	1867-1929
Louis S. Cates	1881-1959	Seeley W. Mudd	1861-1926
J. Parke Channing	1863-1930	Samuel Newhouse	1853-1930
Thomas Garfield Chapman	1886-1965	Georges Ordoñez	1907-1982
William Andrews Clark	1839-1925	Jorge Larrea Ortega	1912-1999
James Colquhoun	1857-1954	William Smith Otis	1813-1839
Patrick Edward Connor	1820-1892	Charles F. Park, Jr.	1903-1990
James Harold Courtright	1908-1986	Arthur Barrette Parsons	1887-1966
Arthur C. Daman	1889-1968	Richard Alexander Penrose, Jr.	1863-1931
Ernest R. Dickie	1902-1955	Charles Debrille Poston	1825-1902
John Van Nostrand Dorr	1872-1962	Kenneth L. Power	1924-1978
James Douglas	1837-1918	Frederick Leslie Ransome	1868-1935
James Stewart Douglas	1868-1949	Rossiter W. Raymond	1840-1918
Herman Ehrenberg	1818-1866	Kenyon E. Richard	1915-1993
John Spence Finlay	1874-1935	Robert H. Richards	1844-1945
Charles F. Fogerty	1921-1981	Thomas A. Rickard	1864-1953
Antoine M. Gaudin	1896-1974	Louis D. Ricketts	1859-1940
Wesley P. Goss	1899-1985	Bernhardt Rohe	1909-1992
Louis Caryl Graton	1880-1970	Edwin Burton Royle	1905-1957
William C. Greene	1853-1913	Reno H. Sales	1876-1969
John C. Greenway	1872-1926	Harrison Ashley Schmitt	1896-1966
Meyer Guggenheim	1825-1905	Fred Searls, Jr.	1888-1968
Hal W. Hardinge	1855-1943	Antonio Siraumea	1710-1760
George Hearst	1820-1891	Earl Tappan Stannard	1882-1949
Samuel Peter Heintzelman	1805-1880	John Murchison Sully	1868-1933
Earl C. Herkenhoff	1915-2002	Arthur F. Taggart	1884-1959
Joseph Austin Holmes	1859-1915	William Boyce Thompson	1869-1930
Herbert C. Hoover	1874-1964	Howard Allen Twitty	1909-1989
Daniel C. Jackling	1869-1956	Stewart R. Wallace	1919-2009
H. Myles Jacob	1913-1997	Thomas F. Walsh	1850-1910
Ira B. Joralemon	1884-1975	Norman L. Weiss	1902-1986
Henry Krumb	1875-1958	Arthur Redman Wilfley	1860-1927
Thomas H. Leggett	1859-1935	Ben Williams	1852-1925
John Cromwell Lincoln	1866-1959	Forbes Kingsbury Wilson	1910-1990
Waldemar Lindgren	1860-1939	Edward H. Wisser	1895-1970
Curtis H. Lindley	1850-1920	Pope Yeatman	1861-1953
Thomas S. Lovering	1896-1991		

Mining Foundation of the Southwest

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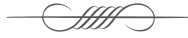
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In Memoriam

Ruth Kessler
 Charles P. Miller



MFSW Outreach Coordinator
PAMELA A.K. WILKINSON
Lowell Institute for Mineral Resources
The University of Arizona
pkwilkinson@email.arizona.edu



SPECIAL THANKS

The American Mining Hall of Fame Committee of the Mining Foundation of the Southwest wishes to thank Modular Mining Systems, Inc. for its continued support in overseeing the production of this program.

