



**Sixteenth Annual**

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**American**

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**Mining Hall of Fame**

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**Awards Presentation**

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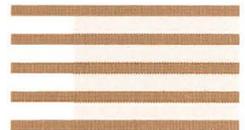
**and Banquet**

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**December 5, 1998**  
**The Westin La Paloma, Tucson, Arizona**

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**Sponsored by**  
**Mining Foundation of the Southwest**



# PROGRAM

Reception ..... 6:30 p.m.

Banquet Dinner..... 7:30 p.m.

Ceremony ..... 9:00 p.m.

Welcoming Remarks: *Martin C. Kuhn*

Introduction of Head Table  
and Other Honored Guests: *Martin C. Kuhn*

Awards Presentation: *David M. Spatz*

Presentation of 1998 Inductees: *H. Myles Jacob*  
*Presented by Walter E. Heinrichs, Jr.*

*John Cromwell Lincoln*  
*Presented by John C. Lacy*

Presentation of 1998 Medals of Merit: *David N. Skillings, Jr.*  
*Presented by Herbert E. Welhener*

*J. Rubén Velasco Rodríguez*  
*Presented by Willard C. Lacy*

Presentation of 1998 Industry  
Partnership Award: *Stephen D. Bechtel, Jr. and*  
*Bechtel Corporation*  
*Presented by David M. Spatz*

Presentation of 1998 Recipient: *Charles G. Preble*  
*Presented by William H. Dresher*

Featured Address: *Charles G. Preble*

Adjournment: *Martin C. Kuhn*



# RECEPTION HOSTED BY

AIME

ASARCO, Incorporated

Bank One

Bechtel

BHP Copper

BHP Minerals

Boart Longyear/Lang

Bucyrus International

Call & Nicholas

Cimeta Engineering

Cutler-Hammer

Cyprus

Drilling Services/Boyles Bros.

Empire

Filtemp

Freeport

Frontier Kemper

Geotemps

Henkel Corporation

Homestake Mining Company

Independent Mining Consultants, Inc.

Industrial Motor & Control

Kennecott Utah Copper Corporation

Komatsu

Kvaerner Metals

Lowell Exploration

M3 Engineering & Technology Corp

Mintec

Modular Mining

Phelps Dodge Exploration Intl.

Picor Commercial Real Estate

Pincock, Allen & Holt

Pioneer Equipment

Purcell Tire Company

Southern Peru Copper Corporation

Southwest Energy

Sundt Corporation

TIC - The Industrial Company

The Winters Company

US Electrical Motors

Wells Fargo Bank

Western States Engineering

Williams Detroit Diesel

Woodward Clyde



# MINING FOUNDATION OF THE SOUTHWEST

The goal and purpose of the Mining Foundation of the Southwest is to promote public understanding of and education related to the mining industry. Toward this goal, the Foundation has funded a number of projects from donations and fund-raising activities.

Examples of projects funded by the Mining Foundation of the Southwest are:

- Computers for use by students in the Department of Mining and Geological Engineering at the University of Arizona
- Funding a new sound system for the mining exhibits at the Arizona Historical Society Museum's Mining Hall in Tucson
- Funds for the purchase of books and publications at the libraries at the Colorado School of Mines, Mackay School of Mines and New Mexico Tech
- Funding geology and mining related interpretive signs at San Pedro Vista and Aspen Vista on the Mt Lemmon Highway in Arizona
- Donation of Mineral and Rock Collection to Arizona-Sonora Desert Museum
- Donation of books, manuscripts and journals relating to the mining industry to Arizona Geological Survey
- Donation Mineral and Rock Collection and old mining equipment to ASARCO's Mineral Discovery Center
- Publication of 3 volumes of History of Mining in Arizona

The Hall of Fame Awards Banquet serves a dual purpose in educating people about prominent persons associated with the mining industry, both present and past, and raising funds to continue projects of the Foundation.

The Mining Foundation of the Southwest was incorporated in 1993 with the merger of the Mining Club of the Southwest and the Mining Club of the Southwest Foundation. The Mining Club was started in 1971 and the Club's Foundation began in 1983 with the first American Mining Hall of Fame Awards.

The Hall of Fame honorees, both living and deceased now number 69. The plaques which commemorate their induction are on display at the Arizona Historical Society's Museum at 949 East Second Street in Tucson.

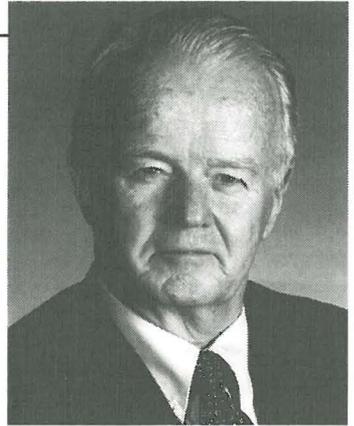


# AMERICAN MINING HALL OF FAME

## 1998 RECIPIENT

### CHARLES GRAHAM PREBLE

**C**harles G. Preble, is the President and Chief Executive Officer of Southern Peru Copper Corporation (SPCC). He received a B. S. degree in Mining Engineering in 1956 and was awarded the honorary degree of Professional Engineer in 1981, both from the University of Arizona. He also has received honorary professor titles from the Universities of Tacna and Puno, both in Peru. In July of this year he received an honorary doctorate degree from San Marcos University in Lima, Peru - the oldest university in the Western Hemisphere.



Upon graduation from the University of Arizona, he was employed by ASARCO at Silver Bell as a mining engineer. In 1957 he entered the United States Air Force and served until 1961 when he returned to ASARCO. In 1967 he joined SPCC at their Toquepala operation as General Mine Foreman and Assistant Mine Superintendent. In 1984, Preble was appointed to his present position of President and CEO.

Preble has distinguished himself by his corporate and civic leadership as an executive of an American-owned company operating in a foreign country. His leadership was most noteworthy during the long unrest in Peru resulting from the activities of the Sendero Luminoso. In spite of personal and company hardships during this time he was able to maintain his company's performance as the premier and only privately owned copper operation in Peru. During this period and since he has exhibited his personal dedication to Peru and the Peruvian people in numerous ways.

He serves on the boards of numerous professional and civic organizations. He has received the AIME Charles F. Rand Gold Medal and was named 1997 Copper Man of the Year by the Copper Club in New York City.



# AMERICAN MINING HALL OF FAME

## 1998 INDUCTEE FROM MINING'S PAST

### **H. MYLES JACOB** 1913-1997

**H.** Myles Jacob was born March 19, 1913 in Bloomfield, New Jersey. He received a B.C.S. degree in Business Administration from New York University in 1935 and became a Certified Public Accountant.

Six years later he joined Inspiration Consolidated Copper Company (at the time a part of Anaconda Copper Company) and served successively as Assistant Secretary and Treasurer (1944), Secretary and Treasurer (1947) and Vice President and Secretary (1955). He joined the Board of Directors of Inspiration in 1953 and was named as Executive Vice President in 1957, President in 1959 and elected as Chairman and CEO in 1973. Jacob retired in 1978 as Chairman and Chief Executive Officer of Inspiration Consolidated Copper Company (now Cyprus Miami Mining Corporation). He also served on the Board of Directors of Sperry (now UNISYS) until 1983 and Callahan Mining until 1990.

Under Jacob's leadership, Inspiration became the first mining company to have a fully integrated operation and the first to electrolytically refine copper in Arizona. A smelter was acquired in 1960 and, in 1969, when its continuous copper-rod plant began operation, was the first in the state to produce a semi-finished product.

In 1974 the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME) presented him with the William Lawrence Saunders Gold Medal, "For a career of real dedication to the United States and his exceptional leadership and inspiration toward solving the production and environmental problems to mutual benefit of the community, the country and his industry."

Jacob assisted in founding the Copper Development Association, the International Copper Research Association and the National Mining Hall of Fame and Museum in Leadville, Colorado.



# AMERICAN MINING HALL OF FAME

## 1998 INDUCTEE FROM MINING'S PAST

### JOHN CROMWELL LINCOLN 1866-1959

**J**ohn Cromwell Lincoln was born in Painesville, Ohio in 1866. He graduated from Ohio State University in 1888 with a degree in Electrical Engineering.

He founded the Lincoln Electric Company in 1895 and went on to become a nationally known industrialist. In 1998, the company continues to hold a premier place in the industry.

He had a penchant for experimenting and research and was directly responsible for 55 patents. He helped send his brother James to school and then told him, "You run the company and I will do the inventing." The bonus system he established at Lincoln Electric, and later at the Bagdad Mine in Arizona, made the employees among the highest paid in their respective industries.

Lincoln came to Arizona in the early thirties. His interests were many and varied. He joined in the construction of Camelback Inn and had an interest in the Universal Wire Spring Company. He was a great philanthropist as well as a civic leader and donated the money to begin construction of John C. Lincoln Hospital in Phoenix.

Lincoln took control of the Bagdad Copper Corporation in September, 1944. A laboratory was soon established to research the leaching of the oxide ores. This led to the construction of a small pilot plant to test the fluosolids roasting of the sulfide concentrates. To make fluosolids an economical project it was necessary to solve the high unit cost, as well as the capital costs of crushing and grinding.

He experimented for a number of years with high speed crushing rolls and was still working on these problems at the time of his death in 1959. By that time he had established a framework upon which his son David built to make Bagdad one of the best open pit copper mines in the country.



# AMERICAN MINING HALL OF FAME

## 1998 MEDAL OF MERIT RECIPIENT

### DAVID N. SKILLINGS, JR.

**D**avid N. Skillings, Jr. is president of DN Skillings Inc., which publishes Skillings Mining Review and the Skillings Minnesota Mining Directory, with offices in Duluth, Minnesota.

In addition to serving as publisher of Skillings Mining Review and the Skillings Minnesota Mining Directory, he is president of Skillings Conferences, which organizes the World Iron Ore Conference held in the fall of each year. Previously conferences have been held in Orlando, Florida and Port of Spain, Trinidad, and this year will be held in New Orleans, Louisiana.



Skillings Mining Review is a mining magazine published every week since June 1, 1912, covering the worldwide mining industry. The magazine was founded originally by Charles D. Skillings, who was active until 1943, and then succeeded by his son, David N. Skillings, father of David N. Skillings, Jr., who took over as publisher in 1975. The magazine has appeared each week without exception since its beginning in 1912.

In 1992, the Minnesota Mining Directory, which was started in 1920 and published by the University of Minnesota until 1989, was acquired and is known as the Skillings Minnesota Mining Directory. In 1996, the Skillings Conference was started as an additional service to the industry.

His grandfather and father began regular trips to copper and other mines in the southwestern U. S. and Mexico after World War I, and David Skillings, Jr. made his first trip to Arizona in 1939. Since that time he has visited all copper mining operations in Arizona and New Mexico, and presently he makes at least three trips a year to the Southwest to update mining information for publication in the Skillings Mining Review.

David Skillings, Jr. earned a BA in economics at Carleton College, Northfield, Minnesota, and has been associated full time with Skillings Mining Review since 1958.



# AMERICAN MINING HALL OF FAME

## 1998 MEDAL OF MERIT RECIPIENT

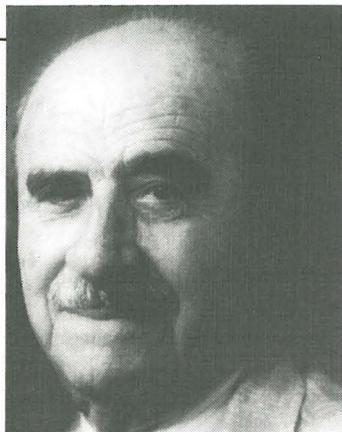
### JOSÉ RUBÉN VELASCO RODRÍGUEZ

**B**orn September 12, 1910 in Hermosillo, Sonora, Mexico, Rubén Velasco spent his early years in Sonora, and later attended the University of Arizona where he earned a Bachelor of Science degree in Mining Engineering in 1932.

His long affiliation with the Cananea Consolidated Copper Company (then a subsidiary of the Anaconda Copper Company) began in 1935 as Assistant Geologist. He served as Exploration Geologist for the company in Mexico and Arizona from 1946 to 1948, when he was commissioned by Anaconda to complete geologic investigations in the copper-rich Cuajone-Toquepala-Quellaveco region in Peru; subsequently he was given responsibility for Anaconda's exploration program in Chihuahua and Sonora. In 1950, Velasco was named Chief Geologist of the Cananea Consolidated Copper Company where he cultivated an exceptional group of well trained and skilled geologists to serve the needs of this world-class mining operation.

From 1963 until his retirement in 1979, Rubén held several high-level positions with the Cananea Consolidated Copper Company and after 1973, its nationalized successor, Compañía Minera de Cananea. He followed his "retirement" with another career as Professor in the Department of Mining Geology at the University of Sonora in Hermosillo, where he taught economic geology until his second retirement in 1991.

He is the author of important publications in both Spanish and English, member and former officer of several international professional organizations and recipient of several awards from the University of Arizona, the University of Sonora, and Instituto Minerva, recognizing his achievements and service. He is said to be proudest, however, of his Award of Acknowledgment from students of mining and geological engineering at the University of Sonora, recognizing his expertise as a true professional and inspirational educator.



# AMERICAN MINING HALL OF FAME

## 1998 INDUSTRY PARTNERSHIP AWARD

### STEPHEN D. BECHTEL, JR. AND BECHTEL CORPORATION



**I** 998 marks 100 years Bechtel has provided quality and innovative services to the mining industry.

The company which was founded in Oklahoma by Warren A. Bechtel, began with railroad work that soon took the new company to California. Bechtel branched out to provide engineering, procurement and construction services and pioneered the construction application of motorized trucks, tractors and diesel-powered shovels.

During the 1930s Bechtel began tackling large joint ventures and public works projects. Hoover Dam, the largest masonry structure since the Great Pyramid, was one of the first built by a partnership of W. A. Bechtel Company and other companies.

Following his father's sudden death in 1933, Stephen D. Bechtel, Sr. became president. He expanded into new markets, including refineries and chemical plants and handled large assignments in support of the Allied effort during World War II. The new Bechtel Corporation pioneered the turnkey concept—taking full responsibility for a project until completion.

The election of Stephen D. Bechtel, Jr. as president in 1960 marked Bechtel's third generation of family leadership. Keeping pace with this new era, Bechtel served markets including pollution abatement, transportation, urban planning, medicine and education and in the 1970s branched into advanced telecommunications systems and became a leader in the liquefied natural gas industry. In 1972 Bechtel was responsible for engineering or construction of about 20 percent of the new power-generating capacity in the United States and by the end of the decade they had been involved in the design and construction of more than 70 large airport projects around the world.

Riley P. Bechtel became chief executive officer of Bechtel Group, Inc. when his father retired in 1990 and under his direction the company continues to evolve.

Bechtel, a global organization working for the mining, metal and minerals industry, has contributed to more than 300 mining projects and 900 mining studies covering all aspects of the ferrous, non-ferrous, precious metals, and energy minerals industries.



# MINING FOUNDATION OF THE SOUTHWEST

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## Board of Governors

Martin C. Kuhn - *President*  
William H. Dresher - *Vice President*  
Susan A. Wick - *Secretary/Treasurer*  
Nick Balich  
R. W. Ballmer  
A. Frederick Banfield  
Roshan Bhappu  
Wayne H. Burt  
John L. Cesar  
Milton M. Evans  
Larry D. Fellows  
Walter E. Heinrichs, Jr.  
Marvin A. Hustad  
John C. Lacy  
James D. Loghry  
Robert A. Metz  
William C. Peters  
Charles R. Sewell  
Everett Smith  
David M. Spatz  
Jack E. Thompson  
Herbert E. Welhener  
Gordon W. Wieduwilt  
William H. Wilkinson  
Harry J. Winters, Jr.

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## Hall of Fame Committee

David M. Spatz - *Chairman*  
William H. Dresher  
Milton M. Evans  
Walter E. Heinrichs, Jr.  
Martin C Kuhn  
John C. Lacy  
Willard C. Lacy  
Robert A. Metz  
Jack E. Thompson  
Herbert E. Welhener  
William H. Wilkinson  
Harry J. Winters, Jr.

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## Gold Members

A. Frederick Banfield  
Milton M. Evans  
The Dorr Foundation  
Jack E. Thompson  
Milton H. Ward  
William H. Wilkinson

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## Silver Members

George J. Allen  
Wayne H. Burt  
John C. Lacy  
Frank R. Milliken  
Dave Parnell  
Forest E. Rickard  
Susan A. Wick



# AMERICAN MINING HALL OF FAME

**1983 Recipient**  
George E. Atwood

**1984 Recipient**  
Charles F. Barber

**1985 Recipient**  
George B. Munroe

**1986 Recipient**  
John C. Duncan

**1987 Recipient**  
Plato Malozemoff

**1988 Recipient**  
Simon D. Strauss

**1989 Recipient**  
G. Robert Durham

**1990 Recipient**  
Harry M. Conger

**1991 Recipient**  
Kenneth J. Barr

**1992 Recipient**  
TS Ary

**1993 Recipient**  
Milton H. Ward

**1994 Recipient**  
J. Burgess Winter

**1995 Recipient**  
Douglas C. Yearley

**1996 Recipient**  
Richard de J. Osborne

**1997 Recipient**  
James R. Moffett

## Medal of Merit Recipients

Ralph J. Roberts, 1989  
Victor H. Verity, 1989  
John S. Livermore, 1990  
George D. Argall, Jr., 1991  
Arthur A. Brant, 1992

William C. Epler, 1992  
Walter E. Heinrichs, Jr., 1993  
Willard C. Lacy, 1993  
Donnell W. Agers, 1994  
J. David Lowell, 1994

Ronald R. Swanson, 1994  
Warren Kay Pincock, 1995  
Richard W. Hutchinson, 1996  
Charles L. Pillar, 1996  
Hugo T. Dummett, 1997  
Spencer Rowe Titley, 1997

## Industry Partnership Award

Caterpillar, Inc. - Glen A. Barton, 1995  
Amigos (Arizona Mining & Industry Gets Our Support), 1996  
Colorado School of Mines, 1997



# AMERICAN MINING HALL OF FAME

## 1983-1997 Inductees

Maxie L. Anderson 1934-1983	Meyer Guggenheim 1825-1905	Charles Debrille Poston 1825-1902
Bert S. Butler 1877-1960	Hal W. Hardinge 1855-1943	Frederick Leslie Ransome 1868-1935
Nellie Cashman 1849-1925	George Hearst 1820-1891	Rossiter W. Raymond 1840-1918
Louis S. Cates 1881-1959	Joseph Austin Holmes 1859-1915	Robert H. Richards 1844-1945
William Andrews Clark 1839-1925	Herbert C. Hoover 1874-1964	Thomas A. Rickard 1864-1953
John Van Nostrand Dorr 1872-1962	Daniel C. Jackling 1869-1956	Louis D. Ricketts 1859-1940
James Douglas 1837-1918	Ira B. Joralemon 1884-1975	Reno H. Sales 1876-1969
James Stewart Douglas 1868-1949	Henry Krumb 1875-1958	Fred Searls, Jr. 1888-1968
Charles F. Fogerty 1921-1981	Waldemar Lindgren 1860-1939	Antonio Siraumea 1710-1760
Antoine M. Gaudin 1896-1974	Curtis H. Lindley 1850-1920	Arthur F. Taggart 1884-1959
Wesley P. Goss 1899-1985	John William Mackay 1831-1901	William Boyce 1869-1930
William C. Greene 1853-1913	Donald H. McLaughlin 1891-1959	Arthur Redman Wilfley 1860-1927
John C. Greenway 1872-1926	Seeley W. Mudd 1861-1926	



# MINING FOUNDATION OF THE SOUTHWEST

The American Mining Hall of Fame Committee of the Mining Foundation of the Southwest would like to thank Modular Mining Systems for its continued support by typesetting and printing this evening's programs. Modular has provided this contribution for many years.



**MINING FOUNDATION  
OF THE SOUTHWEST**



# MINING FOUNDATION OF THE SOUTHWEST

## Mining Foundation of the Southwest

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