Fourteenth Annual
American
Mining Hall of Fame
Awards Presentation
and Banquet

December 7, 1996
Loews Ventana Canyon Resort, Tucson, Arizona

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: John C. Lacy

Introduction of Head Table and Other Honored Guests: John C. Lacy

Awards Presentation: William H. Wilkinson

Presentation of 1996 Inductees: Louis S. Cates
Presented by David M. Spatz

Donald H. McLaughlin
Presented by Walter E. Heinrichs, Jr.

Presentation of 1996 Medals of Merit: Richard W. Hutchinson
Presented by William H. Wilkinson

Charles L. Pillar
Presented by Milton H. Ward

Presentation of 1996 Industry Partnership Award: AMIGOS
(AZ Mining and Industry Gets Our Support)
Presented by Herbert H. Welhener

Presentation of 1996 Recipient: Richard de J. Osborne
Presented by John C. Lacy

Featured Address: Richard de J. Osborne

Adjournment: John C. Lacy
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.

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 60. The plaques which commemorate their induction are on display at the Arizona Historical Society’s Museum at 949 East Second Street in Tucson.
Richard de J. Osborne was born in Bronxville, New York, in 1934. He graduated from Milton Academy in 1952 and from Princeton University with an A.B. degree in economics in 1956. He joined ASARCO in 1975 as Vice President-Finance and Chief Financial Officer. He was elected a director in 1976, was named Executive Vice President in 1977 and President in 1982, and in 1985 was elected its Chairman and CEO.

Mr. Osborne is the former chairman and a current director of the National Mining Association, the former chairman and a current director of the International Copper Association, and the chairman and a director of the Copper Development Association. He is non-executive chairman and a director of the Southern Peru Copper Corporation and a director of Grupo Mexico, S.A. de C.V., the Schering-Plough Corporation, the B.F. Goodrich Company, and the Tinker Foundation.

Mr. Osborne’s associations also include service as a director of the American Australian Association, the Americas Society and the Council of the Americas.
Louis S. Cates was born in Boston, Massachusetts in 1881. He received a mining engineering degree from the Massachusetts Institute of Technology in 1902 and began his career in the mining fields of Parral, Chihuahua, Mexico. He later moved to Bingham Canyon, Utah with the Boston Consolidated Mining Company, was made manager in 1910, and played a major role in development of the huge Bingham open pit mine. When Utah Copper Company purchased Boston Consolidated, Cates was put in charge of the Ray Consolidated Copper Company at Ray, Arizona. He became General Manager at Ray in 1913, and in 1923, he went to Salt Lake City as Vice President and General Manager of Utah Copper Company.

In 1930, he resigned to become President of Phelps Dodge Corporation. He retired as President and became Chairman of the Board in 1947. Under Cates' leadership, Phelps Dodge became one of the big three copper producers in the world. It was during his tenure that Phelps Dodge acquired the Calumet and Arizona Mining Company and the United Verde Copper Company. However, his major achievement at Phelps Dodge was the development of the Morenci open pit mine.
Donald McLaughlin was born in San Francisco in 1891. His father, a gold rush miner, died while McLaughlin was a child and his education was overseen by his mother's employer, Phoebe Apperson Hearst. He studied mining engineering at the University of California and obtained his Ph.D. from Harvard University with academic honors. After returning from military service in 1919, his association with the Hearst family provided his first job working for Cerro de Pasco Corporation in Peru where he served as chief geologist between 1919 and 1925. In 1925 he returned to Harvard as its youngest full professor and eventually became chairman of the Division of Geological Sciences.

During World War II, McLaughlin returned to the University of California as Dean of its College of Mines before returning to Cerro de Pasco in 1943 as its Vice President and then General Manager. In 1946 he joined Homestake Mining Company, as its President and Chief Executive and served as its Chairman of the Board until 1970. McLaughlin's careers in teaching and industry also included significant service to government as he served as a member of the first National Science Board of the National Science Foundation, the Hoover Commission, and the advisory committee with the United States Geological Survey.
Richard W. Hutchinson was born in London, Ontario, Canada, in 1928. He received his B.Sc. in geology in 1950 from the University of Western Ontario and his M.Sc. and Ph.D. degrees from the University of Wisconsin in 1951 and 1954. As a graduate student, Dr. Hutchinson worked for the Geological Survey of Canada and then went to work for the American Metal Company for ten years.

He left industry in 1964 and began a 19-year career on the faculty of the University of Western Ontario. In 1983, he moved to the Colorado School of Mines as the Charles F. Fogarty Professor of Economic Geology Chair and retired in 1994.

Hutchinson's major contributions include his documentation and interpretation that base metal massive sulfide deposits are essentially syngenetic and formed as exhalations on the sea floor; and his development of a coherent scheme of crustal change through space and time for the base metal family of deposits. He has placed hundreds of students into successful exploration worldwide through his teaching and research.
Charles "Chuck" Pillar was born in Denver, Colorado, earned his Colorado Mines E.M. degree in 1935 and joined Park City Consolidated Mines in Utah. He progressed from mucker to shift boss before joining St. Joe Minerals in 1937, where he became assistant mine supervisor in 1942 when he joined the Army Air Corps. He rejoined St. Joe in 1945.

In 1947, Pillar became planning engineer in charge at Magma Copper's new San Manuel, Arizona mine. By 1963, he was Mine Superintendent of the 50,000-tons-per-day operation. Pillar then joined Placer Development Ltd. as assistant vice president of operations and was responsible for all Placer's mining operation when he retired in 1975. That year, he co-founded Pillar, Lowell and Associates and consulted on a worldwide basis for more than 25 companies before he again retired in 1987.

Pillar received AIME's Wm. L. Saunders Gold Medal in 1987 for his contributions to the theory and practice of block caving and, in 1988, received AIME's Distinguished Member Award. He established the Pillar E.M. Endowed Scholarship at the Colorado School of Mines, is a member of the President's Council, and in 1995, received the school's Distinguished Achievement Medal.
Arizona Mining and Industry Gets Our Support (AMIGOS) was founded in 1974 with twenty-six charter members. Its mission was then and still is today to promote the well-being of Arizona’s mining industry. For 22 years AMIGOS has been among mining’s best friends. The association has grown in numbers and in influence over the years. Now, well over 200 members strong, AMIGOS accomplishes its mission by identifying business, legislative and regulatory issues of concern and taking action. This action may be taken in the form of testifying at the legislature, letter writing campaigns to regulators, support of political candidates through the AMIGOS PAC or press conferences to educate and inform the public.

As the premier mining industry association, AMIGOS hosts events where miners and suppliers meet and is the publisher of the only mining Buyer’s Guide in the Southwest. The AMIGOS logo is used extensively in mining publications because it identifies the members of AMIGOS as those who give something back to the industry. AMIGOS is striving to grow in numbers, in effectiveness and in influence to continue to be mining’s best friends.
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1992 Recipient
T. S. Ary

1993 Recipient
Milton H. Ward

1994 Recipient
J. Burgess Winter

1995 Recipient
Douglas C. Yearley

Medal of Merit Recipients

John S. Livermore, 1990    Walter E. Heinrichs, Jr., 1993    Ronald R. Swanson, 1994

Industry Partnership Award

Caterpillar, Inc. - Glen A. Barton, 1995
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<thead>
<tr>
<th>Name</th>
<th>Birth Year</th>
<th>Death Year</th>
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<td>Maxie L. Anderson</td>
<td>1934-1983</td>
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<td>Louis D. Ricketts</td>
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