

Twenty-Eighth Annual

American Mining Hall of Fame Awards Presentation, Banquet & Fundraiser

December 4, 2010 Tucson Marriott University Park, Tucson, Arizona



Welcoming Remarks:

Introduction of Head Table and Other Honored Guests:

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Introduction of Inductees:

Presentation of 2010 Inductees From Mining's Past: Bill Hawes

Bill Hawes

Cori Hoag *PowerPoint presentation of inductees*

J. Parke Channing Presented by Cori Hoag

Arthur C. Daman *Presented by M. C. La Barr*

Charles F. Park, Jr. *Presented by Harry Parker*

Presentation of 2010 Medals of Merit: **Terry McNulty** Presented by Martin Kuhn

Nyal Niemuth *Presented by Robert Metz*

Presentation of 2010 Industry Partnership Award: **PDAC** *Presented by Don Earnest*

Special Citation:

Friends of the Arizona Mining and Mineral Museum Presented by Robert Metz

Presentation of 2010 Inductee:

Richard Adkerson *Presented by Bill Hawes*

Featured Address:

Door Prizes and Adjournment: **Richard Adkerson**

Bill Hawes

PLATINUM

Caterpillar Inc. Independent Mining Consultants, Inc. Freeport-McMoran Copper & Gold, Inc Mintec, Inc. M3 Engineering & Technology Corp. Sponsors

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Ames Construction, Inc Mountain States R & D International, Inc. SRK Consulting Newmont Mining Corporation

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AMEC Mining & Metals ASARCO Arizona Historical Society **Baroid IDP BHP** Billiton Call & Nicholas Inc. Empire Southwest **Golder Associates** George & Loralee MacDonald Minas de Oro Nacional S.A de C.V Modular Mining Systems MWH, Global **RDE Evaluations. Ltd Resource Capital Funds** Sonoran Process Equipment Tim Snider WestLand Resources, Inc.

Mining Foundation of the Southwest

Mission and Educational Outreach Program

The Mining Foundation of the Southwest (MFSW) was incorporated in 1993 as a nonprofit organization working to educate the public about the importance of mineral resources and the contributions of mining and mineral processing industries to our modern life. Toward this goal MFSW sponsors the American Mining Hall of Fame Awards Presentation, Banquet & Fundraiser, which recognizes outstanding achievements of both past and present industry leaders. MFSW has been able to support a number of educational projects each year in the southwest, including Mexico, from donations and fund-raising activities. Recent projects include support for mining students at the University of Arizona, the New Mexico Institute of Mining & Technology, and Colorado School of Mines.

In 2008, the Foundation embarked on a major endeavor to develop a MFSW Educational Outreach program at the Arizona Department of Mines and Mineral Resources (ADMMR). MFSW provides the funds to employ an Education Curator, who makes presentations to thousands of students at the elementary and middle school level throughout the state. This program awakens students to the importance of mineral resources in their everyday activities. MFSW also arranged for the construction of a privately funded mining diorama to be part of the MFSW education program, as well as a mobile exhibit for use away from the ADMMR Mining and Mineral Museum. Early in 2010, the Arizona legislature enacted its consolidation into Arizona's Centennial Museum, and MFSW is participating to ensure strong mining emphasis in the expanded museum.

Including the 2010 inductees, 153 mining luminaries and organizations have been inducted into the Mining Hall of Fame. Commemorative plaques are on display in the mining exhibits area at the Arizona Historical Society Museum at 949 E. 2nd Street in Tucson. A colorful exhibit with biographies of all of American Mining Hall of Fame honorees is displayed at the Arizona Mining and Mineral Museum, 1501 W. Washington, Phoenix. As the public attention continues to focus on the dual objectives of mineral sufficiency and environmental protection, MFSW is committed to support minerals and mining education for schoolchildren, college students, and the general public, and to honor the achievements industry leaders through the Hall of Fame Annual Awards and MFSW's website and publications. Thank you for your continued support!



Richard Adkerson

2010 Inductee and Guest of Honor



Richard C. Adkerson, President and Chief Executive Officer of Freeport-McMoRan Copper & Gold Inc. (FCX). FCX with headquarters in Phoenix, Arizona, is the world's largest publicly owned copper producer and the principal supplier of copper to the United States. Adkerson led Freeport-McMoRan's \$26 billion acquisition of Phelps Dodge Corp. in 2007, a transaction that transformed Freeport-McMoRan into the world's largest publicly traded copper company. He is being honored for his leadership of FCX and effective business leadership in the mining industry.

Adkerson holds a B.S. degree with highest honors and an MBA degree from Mississippi State University. He later completed the Advanced Management Program of the Harvard Business School. Prior to joining Freeport-McMoRan in 1989, he was a Partner and Managing Director in Arthur Andersen & Co. where he headed the Firm's Worldwide Oil and Gas Industry Practice. From 1976 to 1978, he was a Professional Accounting Fellow with the Securities and Exchange Commission in Washington, D.C. and a Presidential Exchange Executive.

He currently serves as Chairman of the International Council on Mining and Metals

and on the Executive Board of the International Copper Association. He is President of the Mississippi State University Foundation Board of Directors, chaired its "State of the Future" capital campaign, serves on the University's Advisory Board for the College of Business, and serves on the Board of Directors of the Alumni Association and the Bulldog Club. He serves on the Board of Directors of the Greater Phoenix Leadership and the Greater Phoenix Economic Council, and is a member of the Business Council of New Orleans and the River Region. He is a member of the Advisory Council of the Kissinger Institute on China and the United States and the Dean's Council of 100 for the Arizona State University W. P. Carey School of Business. He also serves on the boards of numerous charitable and religious organizations. He was named the Outstanding Accounting Alumnus of Mississippi State University in 1989 and Outstanding Alumnus of Mississippi State University's College of Business and Industry in 1991. In 2008 and 2009, Mr. Adkerson was named "The Best CEO in Metals and Mining" by Institutional Investor magazine and recipient of The Copper Club's Ankh Award naming him "The Copper Man of the Year 2009" in recognition of his strong leadership in the global mining industry.

Charles F. Park, Jr. (1903-1990)

2010 Inductee from Mining's Past

Charles F. Park, Jr.'s interest in geology began with the mineral collection he prepared during his boyhood in Wilmington, Delaware. That interest led to his attending the New Mexico School of Mines and earning a Bachelor of Science degree in 1926. His academic interests and skills continued to grow as a student of geological engineering at the University of Arizona, where he received a Master of Science degree in 1929, followed by a Ph.D. in geology from the University of Minnesota in 1931.

Beginning his career as a mine surveyor in New Mexico, he quickly joined the U.S. Geological Survey where he continued to work for 15 years, ultimately leaving the Survey with the position as geologist in charge of the section of metalliferous deposits. He joined the Geology faculty of Stanford University in 1946 and became Dean of Mineral Sciences there in 1950-a position he held until 1965. Dr. Park held the Donald Steel professorship until his retirement in 1968 and was Professor Emeritus from 1968 to 1975, during which time he also was a visiting professor at both Massachusetts Institute of Technology and the University of Michigan. His contributions also include serving as president of both the Society of Economic Geologists and the International Association of the Genesis of Ore Deposits.

His rich experience of field research led him to consistently emphasize the importance of field observations as a crucial foundation for research and new ore deposit discoveries. This crucial philosophy was readily instilled in his geology and mining students and is reflected in his writings. This talent with both teaching and searching for ore deposits is reflected in his personal bibliography of more than 75 publications including "Geology of Ore Deposits", which was first published during his service as Dean at Stanford. This widely respected textbook was originally co-authored with Roy McDiarmid and subsequently was revised and co-authored with John Guilbert.

Charles Park's talents as a resource scientist expanded well beyond the halls of Stanford: he was on the boards of directors of several corporations, including Homestake Mining Company and the Golden Cycle Corporation as well as science textbook publisher Freeman, Cooper and Company. As a professor of economic geology, his greatest legacies are the many geologists and engineers at Stanford and numerous other universities that he inspired to explore, research, and develop ore deposits around the globe.

J. Parke Channing (1863-1930)

2010 Inductee from Mining's Past



J. Parke Channing graduated from the School of Mines at Columbia University in 1883, working first in the iron and copper mines of Michigan, and then consulting. While working in Michigan, he was instrumental in the creation of the Michigan Mining School, forerunner of Michigan Tech.

In 1897, his consulting led to a long relationship with the Lewisohn Brothers. On an examination trip for them in Arizona, he made memorable side trip to Morenci, where he observed the Arizona Copper Company profitably operating by concentrating the low grade porphyry, something unthought-of of in the rest of the world.

That same year, he examined the Highland Boy mine in Utah, which revealed that most of the ore was primary and would extend to significant depth. He wired his employers not to let their option expire, which resulted in a profitable investment for them.

His next accomplishment for the Lewisohns was the successful evaluation and development of the properties at Ducktown, TN, where he recognized that large scale operations and modern smelting practices would make the property profitable. When smelter smoke became a liability, he installed an acid plant, thus converting a liability into a marketable asset.

In 1905, Channing made an examination of the copper property near Ely, NV. Here, the trip Morenci "was of incalculable value." for he saw that combining mass mining methods together with Arizona milling and modern smelting would be profitable. Based on his report, the venture was financed.

In 1906, Channing sought new copper projects for the Lewisohns. In December, he optioned some 200 acres of land with no surface outcrops, six miles west of Globe, AZ. thinking there might be a layer of secondary enrichment at depth. Shaft sinking started in January. In May, 3% copper was encountered at a depth of 220 feet. In less than four years after this initial discovery, Miami Copper Co. became Arizona's first large scale porphyry copper operation. Channing remained with Miami Copper Co. until his death.

Arthur C. Daman (1889-1968)

2010 Inductee from Mining's Past



Arthur C. Daman was born in Chicago in 1889, the youngest son of German immigrants. He attended an art school as a young boy, which created an artistic passion that continued throughout his life. He began his studies at Colorado School of Mines in 1909 but left after one year to work for Western Union. He returned to school four years later and graduated in 1915 with a Mining Engineering Degree. After working as a mill man in Arizona and Nevada, he began work with Stearns-Rogers in 1917 where he designed and constructed concentrating mills throughout the country.

In 1927, he left Stearns-Rogers believing he could design and manufacture better mill equipment and started Denver Equipment Company (DECO). For the next 40 years the company grew into a leading manufacturer of ore processing equipment. Daman was quick to understand that mining was a global industry and had established sales offices throughout the world by 1950. In 1957 the company added a small factory in Lima, Peru, to supplement its principal factory in Colorado Springs to support the exploding copper markets in Peru

and Chile. In 1967, DECO become a division of Joy Manufacturing Company and Daman, who had been president of DECO since its inception, served as a director of Joy Manufacturing until his death in 1968.

The "Denver" catalog, first published by Daman in 1936, including the Denver Equipment Index in 1947 and the Denver Equipment Handbook in 1954, was an 840-page bible for operating miners. The first 300 pages were devoted to equipment description uniquely including photos, dimensions, capacities, HP and shipping weights. This was followed by engineering data on process theorem, ore testing, common flow sheets, cost data, mineral characteristics, formulas, tables, conversion factors, temperatures scales and indices. When most companies were managed by men in their fifties and early sixties, Daman successfully ran Denver Equipment Company well into his late seventies. He stressed customer satisfaction as the way to continued success. Daman was an outstanding engineer, inventor, illustrator, educator and communicator

Terence P. McNulty

2010 Medal of Merit Recipient



Terence P. ("Terry") McNulty earned a B. S. in Chemical Engineering from Stanford University in 1961, an M. S. in Metallurgy from Montana School of Mines in 1963, and a doctorate in Metallurgical Engineering from Colorado School of Mines in 1967. He considers himself very fortunate to have been able to work as an analytical chemist before and during college and to have had jobs in industry during postgraduate studies. He is a Registered Professional Engineer.

He was employed for 20 years by The Anaconda Company in various research, operating, and management positions, the last including 5 years as corporate Manager-Metallurgical Research and Technical Support. He then served as VP-Technical Operations for Kerr-McGee Chemical Corporation for 3 years before joining Hazen Research, Inc., as President and CEO. In late 1988, he left Hazen and, with his wife, Carol, founded T. P. McNulty and Associates, Inc., a global consulting firm with as many as 24 Associates, including metallurgists, chemical engineers, geologists, and mining engineers. He continued to serve on Hazen's board as an outside director and was Chairman from 1996 until he retired from the board in 2005.

Terry has obtained two patents in copper metallurgy and has published over 40 technical papers and textbook and handbook chapters dealing with minerals processing and extractive metallurgy, process control, energy conservation, and technology development. He is a member of AIME (SME and TMS), MMSA, Mining Foundation of the Southwest (MFSW), and the National Academy of Engineering, to which he was elected in 2005. He has served for several terms on the MFSW Board of Governors. He was awarded the Distinguished Career Achievement Medal by Colorado School of Mines in 1989 and served on the Board of Trustees of that school during 1989-1992. He was a Henry Krumb Memorial Lecturer for AIME in 1989 and served as an Accreditation Board Visitor for SME and TMS during 1985-1997. In 2002, he received the Distinguished Alumni Award from Montana Tech. In 2004, he received the Robert H. Richards Award "for distinction in mineral processing" from AIME.

Nyal Niemuth

2010 Medal of Merit Recipient

Nyal Niemuth has used his knowledge of minerals, the mining industry, and Arizona deposits to promote mineral development for more than 30 years. Nyal, a paradigm of a "public servant" in the finest sense of that phrase, has served the citizens of Arizona and the mining community with dedication, passion, and enthusiasm in his position of mining engineer at the Arizona Department of Mines and Mineral Resources.

A Wisconsin native, Nyal was intrigued by the glacial erratics he found when cultivating the fields on his family farm. He attended the University of Wisconsin where he received a Bachelor of Science in Geology. After moving to Arizona, Nyal began working for ADMMR where he has spent more than 29 years. He became an Arizona-registered professional geologist in 1994 and the Department's Chief Mining Engineer in 2005.

With his trademark blend of unfailing good humor and encyclopedic memory, Nyal has provided thousands with the mineral information they require, whether working with an exploration geologist from a large mining firm or lone prospectors. He has assembled an impressive library of mineral and mining information, consisting of mine files, books, maps, and photographs, which has become the most comprehensive and accessible collection of Arizona mining information available. He promotes mining interests by recognizing opportunities and assisting explorationists to develop appropriate targets.

Nyal believes in the importance of the mining industry and advances that message in seminars, his writing, and at conferences. As a tireless advocate for the mining industry, he is a firm defender against mining scams and false promotions. He has saved numerous investors from losing money in unscrupulous schemes, and has urged regulatory agencies to bring those firms to justice or force them to cease and desist.

Nyal is the author of more than 50 technical publications for ADMMR and of countless articles for mining industry journals. He has actively served in numerous geologic, mining, and mentoring organizations. Because of a curiosity about the rocks in a farm field, the mining world today has an impassioned proponent whose career stands as a positive and wide-ranging influence on the industry.

2010 Industry Partnership Award

The Prospectors and Developers Association of Canada (PDAC) represents the interests of the mineral exploration and development industry in Canada and abroad. Its mandate is to protect and promote mineral exploration and to ensure a robust mining industry. The association also encourages the highest standards of technical, environmental, safety and social practices.

The PDAC is supported by its individual prospectors, geoscientists, consultants, mining executives, government officials, students and people working in the drilling, financial, legal and other supporting fields. The association's corporate members comprise major and midsize producing companies, junior exploration companies, and organizations providing services to the industry. Some 27 percent of these members reside outside Canada. Experienced industry veterans serve as volunteers on the board of directors and committees.

Since its formation in 1932, the association has grown in size and stature. The PDAC International Convention, Trade Show & Investors Exchange has developed into the world's largest annual mineral industry convention. This leading event, renowned for its technical excellence, business development and networking opportunities, and investment resources, today attracts a worldwide attendance.

PDAC advances conditions that will further mineral exploration and the discovery of new mineral wealth. These advocacy activities involve informing governments, institutions, and communities of interest about the economic and social contributions of the industry and by representing the industry in consultations, meetings, missions, and forums. Additional advocacy areas include: aboriginal affairs; corporate social responsibility; environmental issues; finance and taxation; geosciences; health and safety; human resources and student affairs; international issues; land access and mining regulations; and securities regulations.

The association's latest major initiative is "e3 Plus: A Framework for Responsible Exploration", containing corporate social responsibility principles and guidance for exploration companies. Recommended practices in social responsibility; environmental stewardship; and health and safety are provided in online toolkits.

Other popular programs include an aboriginal toolkit, created to inform communities about exploration and mining practices; "PDAC Mining Matters", a resource to help primary and secondary teachers with curriculum development about the importance of minerals in their everyday lives; a mineral exploration workshop to give university geoscience students practical exposure to the mineral exploration industry; business insurance specially tailored to the needs of the mineral industry; and annual awards that celebrate excellence achievement in the mineral industry.



2010 Special Citation

The Friends of the Arizona Mining and Mineral Museum (FAMMM) helps convey mineral knowledge to 50,000 children and adult visitors that visit the Arizona Mining & Mineral Museum in Phoenix each year. Members of FAMMM, along with other volunteers, are active in the construction of displays, preparation of teacher kits, and restoration of historic mining equipment to working condition. FAMMM has educated visitors about the importance of mining and minerals in their daily life.

FAMMM was incorporated in 2004 as a nonprofit foundation. The organization consists of volunteers who obtain donations of materials, grants, and services of heavy hauling equipment. Their accomplishments include moving and reconstructing the Boras head frame from Bisbee, moving and reconstructing an 1898 gold stamp mill from the Swallow Mine, enhancing the H & K Porter steam locomotive, installing a haul truck tire and shovel bucket, restoring a mucker from the Rover mine, and restoring a jaw crusher. The volunteers run this equipment at the two Family Days held annually, as well as monthly demonstrations.

FAMMM has an even wider influence through the 1,200 teacher kits that are distributed free to Arizona classroom teachers every year. These teacher kits contain 45 labeled rocks and minerals, a book on uses and how to identify rocks and minerals, posters, mining career information, and a CD of classroom activities. For several years the teacher kit booklets have been produced through grants obtained by FAMMM. The second most important part of the kit is the Teacher Pac CD. FAMMM purchased a CD/DVD burner to produce the digital materials at a fraction of the cost by burning and assembling the CDs in-house. FAMMM also obtains grants and administers the elementary school outreach program that volunteers take to schools outside of Maricopa County.

To explain modern copper mining to museum visitors, FAMMM obtained grants to create the Copper Gallery at the museum. FAMMM administered the construction of cases exhibiting minerals from Arizona copper mines, murals about Arizona copper mines, and kiosks for showing videos about modern mining.

Members of FAMMM and other volunteers donate over 10,000 hours each year to the Arizona Mining and Mineral Museum. Their efforts at refurbishing the mineral display cases, crushing rocks for the teacher kits and wheelbarrow containing free rocks for children, building shelves and cleaning up the boneyard of totes full of rock samples, as well as weekly tasks of various maintenance activities, are well rewarded by the thrilling enthusiasm of the hundreds of children who visit the museum each day.



Mining Foundation of the Southwest

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Inductees (1983-2009)

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

Medal of Merit Recipients (1983-2009)

1989	Ralph J. Roberts	2000	Leonard Harris
1989	Victor H. Verity	2000	Pedro Sánchez-Mejorada
1990	John S. Livermore	2001 2001	William H. Dresher Warren F. Fenzi
1991	George O. Argall, Jr.	2001	
1992	Arthur A. Brandt	2002	Richard D. Call
1992	William C. Epler	2002	Kenneth L. Zonge
1993	Walter E. Heinrichs, Jr.	2003	Stanley H. Dempsey
1993	Willard C. Lacy	2003	James William White
1994	Donnell W. Agers	2004	Edward S. Frohling
1994	I. David Lowell	2004	Dr. Joaquin Ruiz
1994	Ronald R. Swanson	2005	Larry McBiles
1995	Warren Kay Pincock	2005	Wayne C. Hazen
1996	Richard W. Hutchinson	2006	Leonard R. Judd
1996	Charles L. Pillar	2006	Roshan B. Bhappu
1997	Hugo T. Dummett	2007	William G. Davenport
1997	Spencer Rowe Titley	2007	Harry Parker
1998	David N. Skillings, Jr.	2008	Barbara A. Filas
1998	José Rubén Velasco Rodríguez	2008	Paul Arthur Hodges
1999	Paul S. Allen	2009	Mary M. Poulton
1999	William C. Peters	2009	Jean Michel Rendu

American Mining Hall of Fame

Inductees from Mining's Past and Industry Partnership Awards

Inductees from Mining's Past (1983-2009)

Maxie L. Anderson	1934-1983	Curtis H. Lindley	1850-1920
Frank William Archibald	1920-1987	Thomas S. Lovering	1896-1991
Allan B. Bowman	1911-1982	John William Mackay	1831-1901
James Boyd	1904-1987	Hugh Exton McKinstry	1896-1961
Bert S. Butler	1877-1960	Donald H. McLaughlin	1891-1959
Nellie Cashman	1849-1925	Frank Wood McQuiston	1904-1987
Louis S. Cates	1881-1959	Charles Meyer	1915-1987
William Andrews Clark	1839-1925	Seeley W. Mudd	1861-1926
James Colquhoun	1857-1954	Georges Ordoñez	1907-1982
James Harold Courtright	1908-1986	Jorge Larrea Ortega	1912-1999
John Van Nostrand Dorr	1872-1962	Richard Alexander Penrose, Jr.	1863-1931
James Douglas	1837-1918	Charles Debrille Poston	1825-1902
James Stewart Douglas	1868-1949	Frederick Leslie Ransome	1868-1935
Herman Ehrenberg	1818-1866	Rossiter W. Raymond	1840-1918
Charles F. Fogerty	1921-1981	Kenyon E. Richard	1915-1993
Antoine M. Gaudin	1896-1974	Robert H. Richards	1844-1945
Wesley P. Goss	1899-1985	Thomas A. Rickard	1864-1953
William C. Greene	1853-1913	Louis D. Ricketts	1859-1940
John C. Greenway	1872-1926	Bernhardt Rohe	1909-1992
Meyer Guggenheim	1825-1905	Reno H. Sales	1876-1969
Hal W. Hardinge	1855-1943	Harrison Ashley Schmitt	1896-1966
George Hearst	1820-1891	Fred Searls, Jr.	1888-1968
Samuel Peter Heintzelman	1805-1880	Antonio Siraumea	1710-1760
Joseph Austin Holmes	1859-1915	Arthur F. Taggart	1884-1959
Herbert C. Hoover	1874-1964	William Boyce Thompson	1869-1930
Daniel C. Jackling	1869-1956	Howard Allen Twitty	1909-1989
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
John Cromwell Lincoln	1866-1959	Forbes Kingsbury Wilson	1910-1990
Waldemar Lindgren	1860-1939	Edward H. Wisser	1895-1970

Industry Partnership Awards (1995-2009)

1995	Caterpillar, Inc Glen A. Barton	2003	Aker Kvaerner
1996	Amigos (Arizona Mining &	2004	Mining and Metallurgical
	Industry Gets Our Support)		Society of America
1997	Colorado School of Mines	2005	Northwest Mining Association
1998	Stephen D. Bechtel, Jr. and	2006	Mountain States Legal Foundation
	Bechtel Corporation	2007	M3 Engineering & Technology
1999	Mineral Information Institute		Corporation
2000	Modular Mining Systems, Inc.	2008	Atlas Copco
2001	Mintec, inc.	2009	Boart Longyear Company
2002	Senator Larry Craig		



Mining Foundation of the Southwest

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