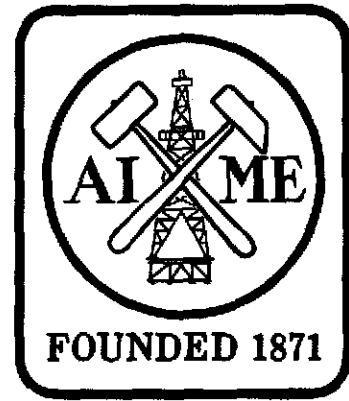
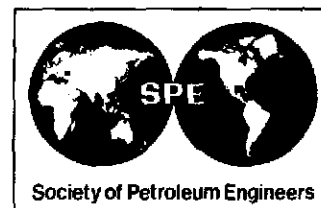


AIME Official Annual Report/1991



TMS
Minerals • Metals • Materials



AMERICAN INSTITUTE OF MINING, METALLURGICAL,
AND PETROLEUM ENGINEERS, INC.

AIME
OFFICIAL ANNUAL REPORT
1991

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AMERICAN INSTITUTE OF MINING, METALLURGICAL,
AND PETROLEUM ENGINEERS, INC.

Report of the AIME President

I am pleased to report to the AIME Member Societies and their members on the activities of the Institute during 1991.

In his report last year, 1990 AIME President Donald G. Russell noted two major activities authorized by the AIME Board of Trustees. The first was the establishment and progress of the Transformations Project of the Public Issues Committee under the leadership of Past TMS President Frank V. Nolfi, Jr. The second was the establishment of the ad hoc Committee on Energy and Environment, chaired by 1991 SPE President and AIME Trustee Arlie M. Skov. The charge to this committee was to develop an AIME position paper on energy and the environment. I am pleased to report on the success of these two programs because they confirm our resolve to develop meaningful roles for AIME and to preserve its long standing traditions.

A highly successful AIME Annual Meeting was held in Denver in February, in conjunction with the Annual Meeting of the Society for Mining, Metallurgy, and Exploration. The AIME Keynote Session, chaired by 1991 AIME President-Elect Roshan Bhappu and featuring four distinguished speakers, was very well received by more than 1250 people. The Annual Banquet served as an excellent setting in which to recognize the recipients of Honorary Membership and the other prestigious AIME awards. It was attended by nearly 500 people.

During its meeting in Denver, the AIME Board of Trustees continued to address the matter of the location of future AIME Annual Meetings. As had been previously agreed, the 1992 Annual Meeting is scheduled to be held with TMS in San Diego, and the 1993 AIME Annual Meeting will be held in conjunction with the SME Annual Meeting in Reno, Nevada. At the August AIME Board of Trustees meeting in Charleston, it was decided that TMS would give an on-site assessment of the 1992 AIME Annual Meeting in San Diego. Following this assessment, selection of the 1994 sponsor will be made by the AIME Board of Trustees.

Initially established in 1989, the ad hoc AIME Public Issues Committee, composed of representatives of each Member Society and chaired by Frank Nolfi, recommended to the AIME Board that AIME undertake a major educational project aimed at improving the technological literacy of junior high school students. The Board approved the Committee's initial request for \$650,000 to carry the project forward. Dr. Nolfi and a project team of media professionals, including Lee Richmond of Galileo Studios, Judy Downes, Mark Irwin and Joanne Van Voorhis, presented a detailed written and oral progress report of the program, now titled "Transformations: Science, Technology and Society" at the AIME Board of Trustees meeting in Denver in February, 1991. The report was received with enthusiasm and an additional request for funding in the amount of \$339,000 was approved to complete the project through the manufacturing, marketing and distribution of the first edition (2,300 copies). This brought the total funding for the project to \$989,000. The scheduled date for

completion of the eight videotapes and teacher's guides was set for Fall of 1991. I am pleased to report that this deadline was met. A special showing was presented for the AIME Board of Trustees in Boston on October 12, 1991, and separate presentations have been made to the TMS Board, Founder Society Presidents and the Washington Section. Additional presentations will be made at the SME Annual Meeting in Phoenix in February and at the AIME/TMS Annual Meeting in San Diego. The response to-date has been very positive. I congratulate Dr. Nolfi and the members of the Public Issues Committee, the Galileo Studios and the consultants who have made this program so successful. We look forward now to the marketing and implementation of these important teaching materials.

I would like to turn now to the activities of the ad hoc Committee on Energy and Environment, composed of one representative from each of the Member Societies and chaired by Arlie Skov. I am pleased to report that this committee, as charged, has developed a position paper for AIME on energy and the environment. The committee has prepared covering documents and a list of individuals, government agencies and institutions to whom the statement will be presented. We congratulate the committee for their response to this important assignment.

As has been the case for many years, AIME continued to be actively involved in the governance and other affairs of the United Engineering Trustees (UET), the Engineering Societies Library (ESL), and the Engineering Foundation (EF), with members of the Member Societies serving as AIME representatives on the Boards of these organizations. AIME retained its relationship with the Accreditation Board for Engineering and Technology (ABET), as an Affiliate Body, and is represented by the AIME Executive Director who serves as an official observer at ABET Board meetings. We continued to interact with the Founder Society officers and Executive Directors on matters of common interest, with emphasis on problems or other issues pertaining to UET and other organizations over which the Founder Societies exercise full or substantial control. This interaction has provided a pleasant and important opportunity, permitting us to become aware of the broad spectrum of issues as they affect the engineering profession.

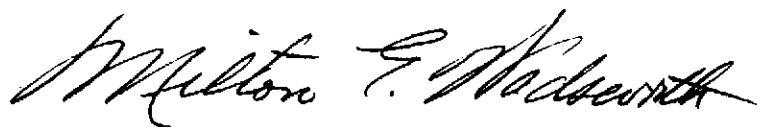
Two years ago, AIME terminated its membership in the American Association of Engineering Societies (AAES) on behalf of TMS, ISS, and SPE when each of these societies decided they no longer wanted to be affiliated with AAES. SME disassociated itself with AAES a few years ago. Others who disassociated themselves from AAES were NSPE and AIChE. During this past year a series of meetings was organized by NSPE to address the possibility of restructuring AAES to make it more responsive to the individual needs of each member organization. Presidents or Presidents-elect of the Founder Societies, ANS, IIE and officers of NSPE and AAES were invited to attend. From these meetings came a new initiative under the title, "Revised Structure to Achieve Engineering Unity." Under this new initiative, NSPE and AIChE have rejoined AAES. At the August AIME Board of Trustees meeting in Charleston, the "Unity" proposal was reviewed. The Board decided not to rejoin AAES at that time because specific goals had not been identified. Thus we have chosen not to commit resources and time for now, but wish to observe future developments. We applaud the "Unity" effort and hope for its success.

With regard to AIME finances, you are invited to review the audited financial statement for the separate AIME corporation for Fiscal Year 1991 (ending November 30), contained elsewhere in this Annual Report. Despite the less than favorable economic climate this past fiscal year, total AIME assets increased modestly from \$10,330,354 at the end of the previous fiscal year to \$10,456,891 at the end of FY91. Therefore we continue to build the financial resources required to undertake programs in support of the Member Societies and their members, and to protect against the effects of inflation.

It has been an honor for me to serve as the AIME President, and to have had the opportunity to associate with and be assisted by the many fine people who comprise the AIME family. But I must now turn to a sad event; namely the loss of Robert H. Marcum as our AIME Executive Director. For health reasons, Bob has had to take long term disability. We extend to him our heartfelt best wishes for the future. At a special Executive Committee meeting in Dallas last autumn, Alexander R. Scott (TMS) was appointed interim AIME Executive Director and a search committee, made up of the Executive Directors, was formed to find our new Executive Director. Lawrence G. Kuhn (ISS) has chaired that committee. I am pleased to report that the committee has almost completed its assignment. It now appears we will be able to introduce our new Executive Director at the AIME Annual Meeting in San Diego.

I wish to thank Bob Marcum for his support while he was able, Alex Scott for his dedication and assistance in the interim position and the staff of the New York office, for its excellent support. Also I thank Ronald E. Miller, President of TMS, for supporting me through the services of Alex Scott. Finally, I extend my sincere appreciation to the AIME Board of Trustees, the Society Boards of Directors, the AIME Society staffs, committee members, and others for their dedicated support during the past year. I would also like to congratulate and pledge my full support to 1992 President Roshan B. Bhappu.

Respectfully submitted,

A handwritten signature in black ink, reading "Milton E. Wadsworth". The signature is written in a cursive style with a large, prominent initial "M".

Milton E. Wadsworth
1991 AIME President

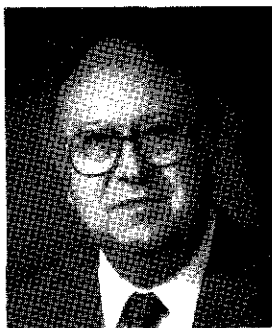
AIME



OFFICERS AND TRUSTEES 1991

OFFICERS

PRESIDENT AND TRUSTEE



MILTON E. WADSWORTH is Dean, College of Mines and Earth Sciences, and Professor of Metallurgy, University of Utah, where he has been a member of the faculty since 1951. The author of numerous technical publications in the field of metallurgy, he has received four best paper awards, and is the recipient of the Distinguished Research Award and the Distinguished Teaching Award of the University of Utah, where he received a B.S. in Metallurgical Engineering in 1948 and a Ph.D. in Metallurgy in 1951. Dr. Wadsworth is a member of the National Academy of Engineering. His AIME awards include the James Douglas Gold Medal, the Mineral Industry Education Award and the TMS Educator Award. A Fellow of TMS, he served as the 1983 President of the Society.

PRESIDENT-ELECT AND TRUSTEE



ROSHAN B. BHAPPU is President of Mountain States R & D International, Inc. in Tucson, Arizona. He received his Met.E., M.S. and D.Sc. from the Colorado School of Mines. He is a registered Professional Engineer in Arizona and New Mexico. Dr. Bhappu began his career with Miami Copper Company, Miami, Arizona. Five years later he joined the New Mexico Institute of Mining and Technology in Socorro. During his fourteen-year tenure at New Mexico Tech, he acted as the Senior Metallurgist of the New Mexico Bureau of Mines, Head of the Metallurgy Department, and *Vice President of the New Mexico Tech Research Foundation*. In 1972 Dr. Bhappu joined Mountain States Mineral Enterprises, Inc. to initiate the Mountain States Research and Development Division which was spun off as a separate company in 1987. He has authored more than 100 publications and has been co-editor of several SME books. Dr. Bhappu has been very active in Society affairs and has served as the Chairman of the MPD and a Director of SME. He is a Distinguished Member of the Society and recipient of the Robert H. Richards Award of AIME. Dr. Bhappu was 1990 President of SME.

PAST PRESIDENT AND TRUSTEE



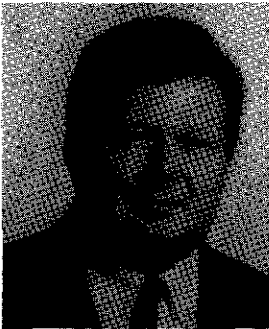
DONALD G. RUSSELL is Chairman and Chief Executive Officer of SONAT Exploration Company in Houston. He received his B.S. and M.S. in Mathematics and Physics from Sam Houston State University and the University of Oklahoma, respectively. Mr. Russell joined Shell Oil Company as a petroleum engineer in 1955 and worked in reservoir engineering research in the Shell Development Company E&P Research Laboratory from 1959 through 1965. In 1965, he returned to Shell Oil Company. He became Vice President, Corporate Planning for Shell in 1977 and in 1978 became head of Shell Oil's International E&P Region. In 1980 he became Vice President, Production, and in 1986, President of Shell Development Company with responsibility for all of Shell's R&D effort. Mr. Russell retired from Shell in 1987. He is a member of the National Academy of Engineering and has been awarded the John Franklin Carll Award, the DeGolyer Distinguished Service Medal and Honorary Membership from SPE. He is an Honorary Member of AIME.

PRESIDENT-ELECT DESIGNATE AND TRUSTEE

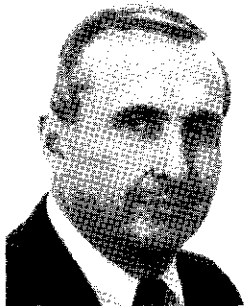


G. HUGH WALKER received his bachelor's degree in civil engineering from Queen's University (Canada) in 1954 and his master's in business administration from the University of Western Ontario in 1959. Mr. Walker joined Dofasco that same year and worked in the Engineering Department until 1961 and in mechanical maintenance until 1963. He then held the following positions in the Coke and Iron Division: engineer, division foreman and superintendent. He has held his current position of Manager, Coke and Iron Division since March 1982. Mr. Walker received the Ironmaking Conference Award in 1974, the Sidney Gilchrist Thomas Medal in 1976 and the T. L. Joseph Award in 1986. He was Chairman of the Ironmaking Division in 1982 and served on the Society's Board of Directors from 1981 to 1983. In 1985-86, he served on the AIME Board and in 1986 was President of the Iron and Steel Society. Mr. Walker was named an ISS Distinguished Member in 1989.

TRUSTEES



ROGER L. ABEL is the Vice President and General Manager of Conoco's Production Engineering and Research Department headquartered in Houston. Mr. Abel began his career in 1968 with Conoco in New Orleans as an engineer in production, serving in various assignments before becoming Supervising Reservoir Engineer in Lake Charles in 1972. He was transferred in 1974 to the company's Production Department in Houston, and became coordinator, Western Hemisphere Planning Department in early 1975. In October 1975, he became Manager-Planning and Budgets for Conoco's worldwide production operations in Stamford, and Executive Assistant to Conoco's Deputy Chairman in 1977. Mr. Abel completed an advanced management program as a Sloan Fellow at M.I.T. in 1979 and was then again transferred to New Orleans as Assistant Division Manager. In 1980, he was elected Vice President and General Manager of Operations for Dubai Petroleum Company. He was again transferred to Houston in 1982, serving as Manager of Planning, Administration, and Engineering before assuming his current position in 1988. Mr. Abel received a degree in petroleum engineering in 1965 from the Colorado School of Mines and an M.S. in management in 1979 from M.I.T. He is the President-Elect of the Society of Petroleum Engineers.



MARK A. ANDERSON is General Manager Operations for Asamera Minerals Inc. He received his B.S. in Metallurgical Engineering in 1961 from the Michigan Technological University. Mr. Anderson began his professional career with the U.S. Bureau of Mines followed by a brief assignment with the Aerojet General Corporation. In 1964 he joined Kennecott Copper Corporation at its Nevada Mines division and over fourteen years held various engineering and management positions until resigning in 1978 as Reduction Plant Superintendent. From 1978 until 1980 he served as Plant Manager for the Climax Molybdenum division of AMAX. In 1980 he accepted the position of Mill Manager for the Anaconda Company's Nevada Moly Project. Following an assignment at the Ralph M. Parsons Co. as Sr. Project Manager, he joined the Centennial Gold Corporation as Vice President Operations. He assumed his current position in 1986. He has authored or served as co-editor for an SME book and several papers on concentrator operations. Mr. Anderson has served as SME Section Chairman, Chairman of MPD, and as a Director of SME. He was President of the Northwest Mining Association in 1990 and will be the 1992 President of SME.



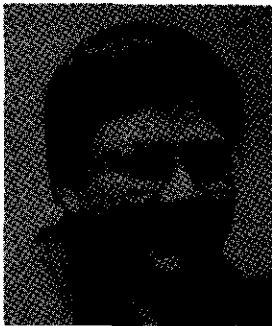
TED H. EYDE is President of GSA Resources, Incorporated and a general partner in Cheto Partners Ltd. which explore for, produce, and market specialty and performance industrial minerals. He received a B.S. in 1956 and an M.S. in 1957 in Geological Engineering from Montana Institute of Mineral Science and Technology. Mr. Eyde began his career as an exploration geologist with Union Carbide Corporation where he worked with Union Carbide Ore Company, Union Carbide Nuclear Company, and the Linde Company. In 1965 he was named Chief Geologist of Geotecnica S. A. in Madrid, Spain. He joined the Minerals Division of the Superior Oil Company in 1967. After the corporate restructuring of the company in 1976, he founded GSA Resources Incorporated. He has written and presented more than 50 technical papers and publications. Mr. Eyde is past chairman of the Tucson Section and the Mining and Exploration Division of SME. He served on the SME Board of Directors, and is a Distinguished Member of the Society. Mr. Eyde is 1991 President of SME.



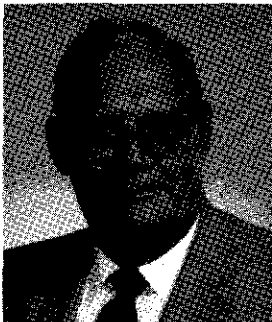
RICHARD J. FRUEHAN is a Professor of Metallurgical Engineering and Director of the Center for Iron and Steelmaking Research (CISR) at Carnegie Mellon University. He received his B.S. and Ph.D. from the University of Pennsylvania in 1963 and 1966 respectively, served one year as an NSF Post Doctoral Fellow at the University of London and thirteen years with U.S. Steel Research before joining Carnegie Mellon University in 1980. Professor Fruehan is the author of more than 125 publications, has four patents and has received the R. W. Hunt Medal in 1970 and 1980, Sidney Gilchrist Thomas Award in 1976, John Chipman Medal in 1980, Mathewson Gold Medal in 1989 and an IR 100 Award. His major research interests are in the production of iron and steel. In 1985 he established CISR at CMU, which is an NSF University/Industry Cooperative Center and currently receives support from more than twenty industrial companies and NSF. He has served as Chairman of the Process Technology Division of ISS, the ISS Board of Directors in 1984-86 and 1988-present, and was the 1990 President of the Society.



JOHN E. HOLDITCH is Superintendent of Iron Production at Dofasco Inc. Mr. Holditch joined Dofasco in 1969 and became Assistant Superintendent of Blast Furnaces in 1974. He was promoted to his current position in 1978. He is a graduate of both the University of Toronto and Ryerson Polytechnical Institute. During his association with the Iron and Steel Society, Mr. Holditch has authored 10 papers, five of which have been published by the ISS. In 1974 he was a co-recipient of the Ironmaking Merit Award and in 1979 he received the J. E. Johnson, Jr. Award for his contributions to the steel industry. In 1984 he was invited to join the Executive Committee of the Society's Ironmaking Division and was chairman of the Ironmaking Program Committee from 1984 to 1985. Mr. Holditch became chairman of the Ironmaking Division in 1987. He has also served as a member of the Iron and Steel Society's Board of Directors since 1987, and is the 1991 President of the Society.



RONALD E. MILLER is Manager, Ingot Technology at the Alcoa Technical Center, where he is responsible for accelerating the smooth transition of technology from Alcoa's research labs to the ingot plants. After earning a Ph.D. in Metallurgical Engineering from Washington State University in 1970, Dr. Miller accepted a faculty position at the University of Wisconsin, Madison Campus. Four years later he joined the Alcoa Technical Center where he applied the principles of chemical metallurgy to the development of aluminum metal treatment processes. He was named Division Manager in 1980. In 1986 he was a co-recipient of Alcoa's prestigious Arthur Vining Davis Award for outstanding contributions to the development of a commercially significant Alcoa technology or process. He has authored numerous technical publications and holds five patents. Dr. Miller is 1991 President of TMS.



ARLIE M. SKOV is a Senior Consultant with BP Exploration in Houston. He received his B.S. in Petroleum Engineering (with special distinction) in 1956 from the University of Oklahoma. He has served in numerous engineering and management positions in Sohio Petroleum Co., BP Alaska, and BP Exploration, most recently, from 1983 to 1989, as Director, Production Technology. He was actively involved in Prudhoe Bay Unitization and early field development from 1975 to 1980, served on the Technical Committee for ANGTS (The Alaska Gas Pipeline), and helped develop early drilling capabilities for Alaskan Beaufort Sea exploration. Mr. Skov has wide experience in SPE and AIME including service on the Board of Directors of both organizations and as AIME Vice President from 1978 to 1980. He is a registered professional engineer in Oklahoma and Texas, and a Distinguished Member of SPE. Mr. Skov is currently President of the Society.



ALBERT R. C. WESTWOOD is Vice President-Research and Technology for Martin Marietta Corporation. He received his B.Sc., Ph.D. and D.Sc. from the University of Birmingham, England, joining Martin Marietta Laboratories (then RIAS) in 1958, becoming its Director in 1974, Corporate Director of R&D in 1984, Vice President-Research & Development in 1987, and assuming his present position in 1990. He has published some 120 technical papers, and his scientific contributions have been recognized by a variety of awards and fellowships, including the Beilby Gold Medal in 1970, Fellow of the Institute of Physics in 1967, of ASME in 1974, of AAAS in 1986, and of TMS in 1990, and election to the U.S. National Academy of Engineering in 1980 and the Royal Swedish Academy of Engineering Sciences in 1989. His current professional responsibilities include Past President of the Industrial Research Institute, the Board of Directors of Martin Marietta Energy Systems, and Advisory Councils to the National Science Foundation, the National Institute of Standards and Technology and the Office of Science and Technology Policy. Dr. Westwood served on the TMS Board in 1980-1983, as TMS Treasurer in 1985-1988, and was 1990 President of the Society.



JOHN K. HAMMES, AIME VICE PRESIDENT-FINANCE, is Vice President, Metals and Mining Department., Citibank, N.A., New York. He joined Citibank in 1968 as a Mining Engineer and was named a Vice President in 1972. From 1965 to 1968, he was employed by the Metal Mining Division of Kennecott Copper Corp. Prior to that, he worked for the U.S. Bureau of Mines under a fellowship program supporting research on the Lake Superior iron pellet industry. Mr. Hammes received his Bachelor's degree from the University of Missouri and his M.S. and Ph.D. in Mining Engineering from the University of Minnesota. He is a Past Chairman of the New York Section of SME and has served as AIME Vice President-Finance since 1977. Mr. Hammes was the first recipient of the AIME Distinguished Service Award, presented in 1989.



ROBERT H. MARCRUM, AIME EXECUTIVE DIRECTOR AND SECRETARY, came to AIME in November, 1983, after a career of more than 29 years as a U.S. Army officer. In addition to various command and staff assignments with artillery units, he served on the staff and faculty of the United States Military Academy (USMA) at West Point, in the Office of the Joint Chiefs of Staff at the Pentagon, as the Chief of Staff of the Army's Communications-Electronics Command and as the Post Commander for Fort Monmouth, N.J. He served two tours of duty in Korea and one each in Germany and Vietnam. He holds a B.S. in Engineering from USMA, an M.S. in Industrial Relations from Purdue University, and is a graduate of the Army's Command and Staff College.

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.
345 East 47th Street
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Member Societies

Society for Mining, Metallurgy, and Exploration
P.O. Box 625002
Littleton, CO 80162-5002
Telephone: 303/973-9550

Claude L. Crowley, Executive Director

The Minerals, Metals & Materials Society
420 Commonwealth Drive
Warrendale, PA 15086
Telephone: 412/776-9000

Alexander R. Scott, Executive Director

Iron and Steel Society
410 Commonwealth Drive
Warrendale, PA 15086
Telephone: 412/776-1535

Lawrence G. Kuhn, Executive Director

Society of Petroleum Engineers
P.O. Box 833836
Richardson, TX 75083-3836
Telephone: 214/669-3377

Dan K. Adamson, Executive Director

AMERICAN INSTITUTE OF MINING, METALLURGICAL,
AND PETROLEUM ENGINEERS, INC.

AIME PAST PRESIDENTS

Active List

Carl E. Reistle, Jr.	1956	M. Scott Kraemer	1980
Lloyd E. Elkins	1962	Robert H. Merrill	1981
Walter R. Hibbard, Jr.	1967	Harold W. Paxton	1982
John R. McMillan	1968	Edward E. Runyan	1983
John C. Kinnear	1970	Nelson Severinghaus, Jr.	1984
John S. Bell	1971	Norman T. Mills	1985
Wayne E. Glenn	1974	Arlen L. Edgar	1986
Julius J. Harwood	1976	Alan Lawley	1987
H. Arthur Nedom	1977	Thomas V. Falkie	1988
Wayne L. Dowdey	1978	Howard N. Hubbard, Jr.	1989
William H. Wise	1979	Donald G. Russell	1990
		Milton E. Wadsworth	1991

AIME HONORARY MEMBERS

HONORARY MEMBERSHIP is awarded in appreciation of outstanding service to the Institute or in recognition of distinguished scientific or engineering achievement in fields embracing, broadly speaking, the activities of AIME and its Member Societies.

<u>Year of Election</u>	<u>Year of Election</u>		
Nathaniel Arbiter	1975	John P. Hammond	1988
Edmund C. Babson	1985	Julius J. Harwood	1980
Charles S. Barrett	1979	John J. Havard	1980
John S. Bell	1976	Claude R. Hocott	1974
Kermit E. Brown	1989	William Hurst	1989
John C. Calhoun	1975	Basil P. Kantzer	1990
Ben H. Caudle	1986	G. William Knepshield	1989
Morris Cohen	1980	M. Scott Kraemer	1983
Jesse F. Core	1980	H. Mark Krause, Jr.	1982
Lawrence B. Curtis	1986	Carleton C. Long	1971
Donald A. Dahlstrom	1985	George H. Love	1972
Henri G. Doll	1986	Plato Malozemoff	1985
Wayne L. Dowdey	1983	Robert H. McLemore	1976
Robert C. Earlougher	1984	Sir Ian McLennan	1971
Arlen L. Edgar	1988	John R. McMillan	1984
Lincoln F. Elkins	1977	Robert H. Merrill	1984
Lloyd E. Elkins	1969	Stanley D. Michaelson	1977
Douglas W. Fuerstenau	1988	Norman T. Mills	1987
Robert B. Gilmore	1985	Morris Muskat	1971
Wayne E. Glenn	1979	H. Arthur Nedom	1981
William A. Griffith	1986	Melvin E. Nickel	1978
H. J. Gruy	1987	Earl R. Parker	1982
Michel T. Habouty	1972	Albert J. Phillips	1972

AIME Honorary Members (Continued)

Fred H. Poettmann 1984
William N. Poundstone 1982
Michael Prats 1989
Nathan E. Promisel 1974
Henry J. Ramey, Jr. 1984
Carl E. Reistle, Jr. 1960
Joseph G. Richardson 1987
Kenneth W. Robbins 1988
Edward E. Runyan 1987
Donald G. Russell 1986
Harrison H. Schmitt 1972

Nelson Servinghaus, Jr. 1987
Cyril Stanley Smith 1973
T. Don Stacy 1990
Marshall B. Standing 1990
Simon D. Strauss 1980
Michael Tenebaum 1979
Alfred Weiss 1986
Robert L. Whiting 1987
William H. Wise 1984
David A. Zegeer 1987

AMERICAN INSTITUTE OF MINING, METALLURGICAL,
AND PETROLEUM ENGINEERS, INC.

RECORDS OF HONORS AND AWARDS PRESENTED BY AIME IN 1991

The following Honors and Awards were presented by AIME in 1991:

1990 HONORARY MEMBERSHIP was conferred upon

Basil P. Kantzer, "For distinguished service as an engineer and executive of major oil and gas corporations, and for major contributions to the Society, the Institute, and the engineering profession."

T. Don Stacy, "An outstanding engineer and petroleum industry executive whose contributions to the Society, the Institute and the engineering profession have yielded significant benefits to practicing engineers and scientists worldwide."

Marshall B. Standing, "For outstanding technical contributions to fundamental understanding of reservoir performance including his major work on volumetric and phase behavior of hydrocarbon systems."

The **JAMES DOUGLAS GOLD MEDAL** to **Vladimir N. Mackiw**, "For leadership in helping to transform a mining company into a major producer of refined nickel, cobalt, fertilizer and specialty metals and chemicals."

The **BENJAMIN F. FAIRLESS AWARD** to **George A. Ferris**, "In recognition of his pioneering contributions to the advancement of steelmaking technologies and for his management and leadership skills which have contributed substantially to the iron and steel industry."

The **HAL WILLIAMS HARDINGE AWARD** to **Immo H. Redeker**, "For his own outstanding applied research and his management of industrial minerals research, which has led to the design and improvements in design of many processing facilities, and for the example and standard he has set for other process engineers."

The **ANTHONY F. LUCAS GOLD MEDAL** to **Donald W. Peaceman**, "For pioneering efforts in the development of reservoir simulation technology for the petroleum industry; for his work in the development of massive reservoir simulators; and for outstanding contributions to the Society of Petroleum Engineers as author of more than 30 technical papers, as program chairman of SPE conferences, and as editor of Society publications."

The **ERSKINE RAMSAY MEDAL** to **Thomas V. Falkie**, "For his notable achievements in coal mining resulting from his successful bridging of these three realms of activity: academics, government and industry, and distinguishing himself in all of them."

The **CHARLES F. RAND MEMORIAL GOLD MEDAL** to **G. Robert Durham**, "His leadership of Phelps Dodge is a milestone on how a major mining company can be turned around and made profitable."

The **ROBERT H. RICHARDS AWARD** to **Jan D. Miller**, "For his advancement of the Art of Mineral Processing by prolific innovation of concepts reflecting the highest quality spirit of an educator, engineer, inventor and dedicated researcher."

The WILLIAM LAWRENCE SAUNDERS GOLD MEDAL to G. Frank Joklik, "In recognition of a career devoted to the efficient and profitable exploration, development, and operation of world class mining properties and the rejuvenation of Kennecott Corporation and the Bingham Canyon Mine."

The AIME DISTINGUISHED SERVICE AWARD to John E. Frost, "In recognition of many years of exemplary and dedicated service as an AIME representative to the United Engineering Trustees, including service as a UET Board and Executive Committee member, and Chairman of the Real Estate Committee."

The MINERAL INDUSTRY EDUCATION AWARD to Donald W. Gentry, "In recognition of his outstanding efforts and responsibilities in engineering education, technology development for industry and leadership at the Colorado School of Mines."

The ROSSITER W. RAYMOND MEMORIAL AWARD to Brian G. Thomas, for his paper "Application of Mathematical Models to the Continuous Slab Casting Mold."

LEGION OF HONORS FIFTY-YEAR MEMBERS:

Society for Mining, Metallurgy and Exploration:

Francis M. Aimone, Mohammad Ali, Eskil Anderson, John R. Atkinson, Lloyd R. Barnwell, Conrad T. E. Beardsley, Lawrence W. Chasteen, S. Floyd Coats, Jr., David F. Coolbaugh, David B. Dill, Jr., William F. Distler, John Drybrough, Andrew L. Flynn, Charles A. Frankenhoff, Donald M. Fraser, Willard P. Fuller, Jr., Joseph B. Gillenwater, Bryon E. Grant, Edward H. Greenwald, Robert B. Hall, Herbert E. Harper, Hermen Hartjens, John F. Haynes, Clifford J. Hicks, Charles M. Hillery, F. Woods Hinrichs, Thomas W. Howard, James B. Hustad, Will B. Jamison, Charles P. Keegel, Frank A. Keith, Jr., Paul Kents, Arch G. Kirkland, George A. Komadina, Douglas J. Kramm, Harold A. Krueger, Willard C. Lacy, William H. McCracken, John S. McIntosh, Earl H. Miller, J. A. Neustaedter, Louis A. Panek, L. Patrick Patience, Leslie C. Richards, Daniel R. Stewart, G. Douglas Strachan, Richard H. Swallow, Langan W. Swent, John B. White, Jr., Joseph A. Wiendl, F. Lynn Wilson, Robert F. Winkle, Paul Zinner.

The Minerals, Metals & Materials Society

Ben H. Alexander, Paul H. Anderson, Frederick P. Bens, William L. Bruckart, Louis A. Carapella, Frank H. Day, John E. Demoss, John H. Frye, Jr., Harry N. Ghenn, George W. Gibson, Bernard H. Havens, Erle J. Hubbard, F. R. Jackson, John G. Leschen, R. D. Manning, Thomas I. Moore, William R. Opie, Emo D. Porro, Robert W. Rowen, George H. Smith, Theodore W. Sproull, Frank M. Stephens, Jr., George A. Timmons, Emery I. Valyi, Alvin G. Waggoner.

Iron and Steel Society

William T. Lankford, Jr., Ben H. Alexander, F. P. Bens, Theodore B. Winkler, Erle J. Hubbard, Donald L. Clark.

Society of Petroleum Engineers

Riley A. Aucoin, Francis J. Barker, Jack L. Battle, Robert F. Bauer, Robert M. Bischoff, R. M. Brackbill, John O. Campbell, Jr., Jack A. Crichton, Warren B. Davis, H. G. Doll, Lincoln F. Elkins, W. J. Gillingham, Robert G. Hamilton, Fred A. Hilton, George C. Howard, E. C. Kendall, John Knudsen, Jr., Peter P. Manion, Jr., Norman E. Maxwell, Jr., Neal McCaskill, John C. McDuffie, Jr., John R. McMinn, Jasper A. Moore, Fred L. Nabors, Richard R. Newton, Lawrence K. O'Bert, Haylett O'Neill, Jr., George B. Patterson, Edward R. Philipp, Edgar E. Rehn, John R. Rickman, Gene E. Roark, Joseph A. Ross, Jr., Wilbur H. Somerton, M. M. Stephens, Jack Tarner, Max J. Taves, P. A. Witherspoon, Jr.

AMERICAN INSTITUTE OF MINING, METALLURGICAL,
AND PETROLEUM ENGINEERS, INC.

REPORT ON THE
120th AIME ANNUAL MEETING

The 120th AIME Annual Meeting was held in Denver, Colorado, February 25-28, 1991. The Hyatt Regency Hotel served as the headquarters hotel for AIME and the Society for Mining, Metallurgy and Exploration (SME). The Woman's Auxiliary to AIME (WAAIME) was headquartered at the Brown Palace. More than 5,500 members, non-members and students attended the technical sessions at the Colorado Convention Center sponsored by SME and the Colorado Mining Association (CMA).

Annual Meeting activities designed to appeal to all attendees commenced with the Welcoming Luncheon, sponsored by SME, AIME and CMA, on February 25 at the Convention Center. The distinguished speakers during the luncheon program were Colorado Governor Roy R. Romer and U.S. Senator Larry E. Craig of Idaho.

The AIME Keynote Session followed the Welcoming Luncheon on Monday afternoon at the Convention Center. "Mining Within Our Environment" was the theme of the session. Four outstanding speakers participated in the session: Fred D. Hoerger, Regulatory and Policy Consultant, Health and Environmental Sciences for The Dow Chemical Co.; Allen Born, Chairman, Chief Executive Officer and President of AMAX Inc.; William J. Grayson, Jr., Executive Vice President-Construction Materials Group, Vulcan Materials Co.; and George S. Ansell, President, Colorado School of Mines. The Keynote Session was extremely successful, having an attendance of more than 1200.

The 120th AIME Annual Banquet and Awards Ceremony was held on Monday evening February 25 at the Hyatt. 1990 President Donald G. Russell served as Master of Ceremonies for the presentation of AIME honors and awards, after which Milton E. Wadsworth was installed as the 1991 AIME President.

AMERICAN INSTITUTE of MINING, METALLURGICAL
and PETROLEUM ENGINEERS, INC.

Financial Statements
for the years ended
November 30, 1991 and 1990

REPORT of INDEPENDENT ACCOUNTANTS

To the Board of Trustees of the
American Institute of Mining, Metallurgical
and Petroleum Engineers, Inc.:

We have audited the accompanying balance sheets of the AMERICAN INSTITUTE of MINING, METALLURGICAL and PETROLEUM ENGINEERS, INC. ("AIME") (Note 1a) as of November 30, 1991 and 1990, and the related statements of revenue and expenses and surplus, changes in endowment and quasi-endowment funds, and cash flows for the years then ended. These financial statements are the responsibility of AIME's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of AIME at November 30, 1991 and 1990, and the results of its operations and its cash flows for the years then ended in conformity with generally accepted accounting principles.

Coopers & Lybrand

New York, New York
January 8, 1992.

AMERICAN INSTITUTE OF MINING, METALLURGICAL and PETROLEUM ENGINEERS, INC.

BALANCE SHEETS, November 30, 1991 and 1990 (Note 1a)

	<u>1991</u>	<u>1990</u>	<u>1991</u>	<u>1990</u>
ASSETS:				
LIABILITIES and FUND BALANCES:				
Operating fund:				
Cash	\$ 26,655	\$ 30,273	\$ 30,144	\$ 33,508
Accounts receivable, primarily due from Member Societies	2,249	3,417		
Equipment, furniture and fixtures, less accumulated depreciation of \$16,275 in 1991 and \$9,034 in 1990 (Note 1c)	31,008	33,273		
Prepaid expenses	<u>41,146</u>	<u>54,224</u>	<u>70,914</u>	<u>87,679</u>
	<u>101,058</u>	<u>121,187</u>	<u>101,058</u>	<u>121,187</u>
Endowment and quasi-endowment funds:				
Investments, at cost plus accrued interest (at market quotations plus accrued interest: \$9,944,295 in 1991 and \$9,247,921 in 1990) (Notes 1d and 3)	9,250,950	8,961,799		
Cash and cash equivalents	242,968	317,638	35,464	189,729
Inventories of books (Note 1b)	190,790	214,240		
Loans receivable from Member Societies plus accrued interest (Note 2)	399,182	441,388		
Prepaid expenses	<u>6,943</u>	<u>9,102</u>	<u>10,055,369</u>	<u>9,754,438</u>
	<u>10,090,833</u>	<u>9,944,167</u>	<u>10,090,833</u>	<u>9,944,167</u>
Founder Society advances to United Engineering Trustees, Inc. (Note 4)				
	<u>265,000</u>	<u>265,000</u>	<u>265,000</u>	<u>265,000</u>
	<u>\$10,456,891</u>	<u>\$10,330,354</u>	<u>\$10,456,891</u>	<u>\$10,330,354</u>
			Operating fund:	
			Accounts payable and accrued expenses	
			Surplus - unrestricted	

The accompanying notes are an integral part of these financial statements.

STATEMENTS of REVENUE and EXPENSES and SURPLUS
for the years ended November 30, 1991 and 1990 (Note 1a)

	<u>1991</u>	<u>1990</u>
Revenue:		
Contributions by Member Societies for:		
Other engineering federations	\$ 39,800	\$ 50,256
Administrative expenses	16,000	16,000
Appropriations from endowment funds	328,000	328,000
Offshore Technology Conference	26,755	19,251
Meetings	21,966	18,175
Interest (Note 1f)	17,219	21,947
Other	<u>3,350</u>	<u> </u>
	<u>453,090</u>	<u>453,629</u>
Expenses:		
Federation support	54,850	64,856
Meetings	26,756	21,496
Other programs and administrative expenses (Note 5)	<u>388,249</u>	<u>350,311</u>
	<u>469,855</u>	<u>436,663</u>
(Deficit) excess of revenue over expenses	(16,765)	16,966
Surplus - unrestricted:		
Balance, beginning of year	<u>87,679</u>	<u>70,713</u>
Balance, end of year	<u>\$ 70,914</u>	<u>\$ 87,679</u>

The accompanying notes are an integral part of these financial statements.

STATEMENTS of CHANGES in ENDOWMENT and QUASI-ENDOWMENT FUNDS
for the years ended November 30, 1991 and 1990 (Note 1a)

	<u>1991</u>	<u>1990</u>
Balance of fund accounts, beginning of year	\$ <u>9,754,438</u>	\$ <u>9,145,090</u>
Revenue:		
Net gain on sales of investments (Note 1e)	1,014,407	738,123
Interest and dividends, net of investment advisor and custodian fees of \$72,226 in 1991 and \$62,568 in 1990 (Note 1f)	403,339	526,470
Sales of books, volumes, etc.	66,246	46,406
Royalties from oil and gas deeds	<u>18,415</u>	<u>18,838</u>
	<u>1,502,407</u>	<u>1,329,837</u>
Expenses and appropriations:		
Publication expenses	65,260	50,855
Public Issues Committee	691,612	161,585
Other awards	53,156	61,121
Free books	37,900	104,974
Sundry expenses	25,548	13,954
Appropriations to operating funds	<u>328,000</u>	<u>328,000</u>
	<u>1,201,476</u>	<u>720,489</u>
Balance of fund accounts, end of year	<u>\$10,055,369</u>	<u>\$9,754,438</u>

The accompanying notes are an integral part of these financial statements.

STATEMENTS of CASH FLOWS

for the years ended November 30, 1991 and 1990 (Note 1a)

	<u>1991</u>	<u>1990</u>
Cash flows from operating activities:		
Excess (deficit) of revenue over expenses	(\$ 16,765)	\$ 16,966
Endowment revenue, excluding gains on sales of securities, less expenses and appropriations of endowment and quasi-endowment funds	<u>(713,476)</u>	<u>(128,775)</u>
	<u>(730,241)</u>	<u>(111,809)</u>
Adjustments to reconcile the above to net cash used in operating activities:		
Depreciation	7,241	1,281
Changes in assets and liabilities:		
Decrease (increase) in accrued interest on investments	23,446	(14,439)
Decrease (increase) in accounts receivable	1,168	(381)
Decrease (increase) in inventories of books	23,450	(70,618)
Decrease in prepaid expenses	15,237	6,465
(Decrease) increase in accounts payable and accrued expenses	<u>(157,629)</u>	<u>139,619</u>
	<u>(87,087)</u>	<u>61,927</u>
Net cash used in operating activities	<u>(817,328)</u>	<u>(49,882)</u>
Cash flows from investing activities:		
Purchases of securities	(9,386,841)	(7,012,467)
Sales of securities	10,088,651	6,802,241
Loans receivable from Member Societies	42,206	43,227
Capital expenditures	<u>(4,976)</u>	<u>(33,175)</u>
Net cash provided by (used in) investing activities	<u>739,040</u>	<u>(200,174)</u>
Net decrease in cash	(78,288)	(250,056)
Cash at beginning of year	<u>347,911</u>	<u>597,967</u>
Cash at end of year	<u>\$ 269,623</u>	<u>\$ 347,911</u>

The accompanying notes are an integral part of these financial statements.

NOTES to FINANCIAL STATEMENTS

1. Summary of Significant Accounting Policies:

a. General:

The financial statements comprise the accounts of the American Institute of Mining, Metallurgical and Petroleum Engineers, Inc. ("AIME"). They do not include the accounts of the Society of Mining, Metallurgy and Exploration Engineers ("SME"), the Society of Petroleum Engineers ("SPE"), The Minerals, Metals and Materials Society ("TMS"), and the Iron & Steel Society ("ISS"), the four Member Societies of AIME.

Quasi-endowment funds of \$7,801,152 and \$7,723,309 at November 30, 1991 and 1990, respectively, represent amounts which have been restricted by AIME's Board of Trustees. The Board of Trustees has also determined that such funds be retained and invested.

AIME's Board of Trustees periodically makes appropriations from interest and dividend income of endowment funds to the operating fund and the individual Member Societies based on their respective operating requirements.

b. Cash Equivalents:

The Company considers all highly liquid investments with a maturity of three months or less when purchased to be cash equivalents.

c. Inventories:

Salable publications and books are carried at the lower of cost (first-in, first-out) or net realizable value.

d. Equipment, Furniture and Fixtures:

Equipment, furniture and fixtures are recorded at cost and are depreciated on the straight-line method over their estimated useful lives. Depreciation expense for 1991 and 1990 was \$7,241 and \$1,281, respectively.

e. Investments:

Investments purchased are carried at cost or, if acquired by gift, at market value on date of gift plus accrued interest, where applicable. Purchases and sales of securities are reflected on a trade-date basis.

Continued

NOTES to FINANCIAL STATEMENTS, Continued

- f. Gains or Losses on Sale of Investments:
Gains or losses on sale of investments are determined on the basis of average cost. Such gains or losses relating to investments which are part of the endowment commingled pool of investments are allocated to the individual funds based on their relative book values at the end of each quarter.
- g. Interest and Dividend Income:
Interest from investments is recorded on the accrual basis. Dividends are recorded on the cash basis; however, such basis of accounting does not differ significantly from the generally accepted method of accruing dividends on the ex-dividend date.
- h. Retirement Income Plan:
The AIME Retirement Income Plan ("Plan"), a defined benefit retirement income plan, covers substantially all full-time employees. Eligible employees receive a non-contributory benefit based on a standard dollar amount per month, irrespective of the amount of compensation, multiplied by the years of benefit service, or may elect to contribute a percentage of their compensation to the Plan and receive an increased benefit. The contributory benefit is based on years of benefit service and the employee's compensation. AIME accounts for the Plan in accordance with the Statement of Financial Accounting Standards No. 87, "Employers' Accounting for Pensions".

The Retirement Income Committee has contracted with Connecticut General Life Insurance Company ("Connecticut General"), through a Group Annuity Contract, to maintain the assets of the Plan and pay pension benefits to the annuitants. The Plan participates in various investment accounts of Connecticut General and in four separate mutual funds. Plan assets are invested in growth common stocks, real estate partnerships, property, mortgage loans, and short-term investments.

The funding policy of AIME is to contribute such amounts as are necessary on an actuarial basis to provide the Plan with assets to meet the benefits expected to be paid to annuitants or their beneficiaries.

Continued

NOTES to FINANCIAL STATEMENTS, Continued

The following tables set forth AIME's share of the Plan's funded status and the amounts recognized in AIME's balance sheets at November 30, 1991 and 1990:

	<u>1991</u>	<u>1990</u>
Accumulated benefit obligation, including vested benefits of \$562,058 (1991) and \$563,429 (1990)	<u>\$563,777</u>	<u>\$565,152</u>
Projected benefit obligation	586,629	585,042
Plan assets at fair value	<u>579,873</u>	<u>593,050</u>
Plan assets in excess of (less than) projected benefit obligation	(6,756)	8,008
Unrecognized prior-service cost	78,581	86,441
Unrecognized net loss	21,494	21,494
Unrecognized net assets at December 1, 1986 being recognized over 12 years	<u>(70,904)</u>	<u>(81,034)</u>
Prepaid retirement income cost included in prepaid expenses	<u>\$ 22,415</u>	<u>\$ 34,909</u>

Net retirement income cost for 1991 and 1990 included the following components:

	<u>1991</u>	<u>1990</u>
Service	\$15,476	\$12,780
Interest cost	44,400	35,544
Projected return on plan assets	(45,112)	(44,718)
Amortization of unrecognized prior-service cost	7,860	22
Amortization of transition asset	<u>(10,130)</u>	<u>(10,130)</u>
Net retirement income cost (credit)	<u>\$12,494</u>	<u>(\$ 6,502)</u>

The weighted average discount rate and rate of increase in future compensation used in determining the actuarial present value of the projected benefit obligation was 8% and 7%, respectively. The expected long-term rate of return on Plan assets is 8.0%.

Continued

NOTES to FINANCIAL STATEMENTS, Continued

2. Financing of TMS/ISS and SME Headquarters Facilities:

TMS/ISS Headquarters:

During 1978, TMS/ISS obtained a \$300,055 loan from the endowment fund, payable over twenty years at a floating interest rate based on the endowment fund's prior year's net earnings after management fees. At November 30, 1991 and 1990, the balance of the loan plus accrued interest at 5.33% (1991) and 4.12% (1990) per annum was \$142,220 and \$159,780, respectively.

SME Headquarters:

During 1979, SME obtained a \$467,000 loan from the endowment fund, payable over twenty years at a floating interest rate based on the endowment fund's prior year's net earnings after management fees. At November 30, 1991 and 1990, the balance of the loan plus accrued interest at 5.33% (1991) and 4.12% (1990) was \$256,962 and \$281,608, respectively.

3. Changes in Investments:

Endowment and quasi-endowment funds:

	<u>1991</u>	<u>1990</u>
Investment, at cost plus accrued interest, beginning of year	\$ 8,961,799	\$ 7,999,011
Purchases of securities	<u>9,386,841</u>	<u>7,012,467</u>
	18,348,640	15,011,478
Sales of securities	<u>10,088,651</u>	<u>6,802,241</u>
	8,259,989	8,209,237
Net realized gain on sales of securities	1,014,407	738,123
Net change in accrued interest	<u>(23,446)</u>	<u>14,439</u>
Investments, at cost plus accrued interest, end of year	<u>\$ 9,250,950</u>	<u>\$ 8,961,799</u>

Continued

NOTES to FINANCIAL STATEMENTS, Continued

4. Advances to United Engineering Trustees, Inc.:

In accordance with an agreement between AIME and the United Engineering Trustees, Inc. ("UET"), AIME has agreed to maintain permanently its principal offices in the United Engineering Center Building and to pay a pro rata portion of the operating costs of the building. AIME's share of these costs during 1991 and 1990 was \$65,148 and \$56,106, respectively. The advance to UET, made in connection with the erection of the United Engineering Center Building, is repayable only out of available reserve funds on dissolution of UET and earns interest at an annual rate of 4%.

5. Other Programs and Administrative Expenses:

Other programs and administrative expenses consist of the following:

	<u>1991</u>	<u>1990</u>
Payroll and employee benefits	\$220,765	\$189,300
Audit and legal services	15,433	14,796
Rent	65,148	56,106
AIME Board activities	16,534	19,042
Supplies, postage and maintenance and repairs	16,750	26,396
Insurance	12,566	11,774
Depreciation	7,241	1,281
Publications and printing	3,495	4,302
Other	<u>30,317</u>	<u>27,314</u>
	<u>\$388,249</u>	<u>\$350,311</u>

6. Tax Status:

AIME is a not-for-profit organization exempt from federal income taxes under Section 501(c)(3) of the Internal Revenue Code.

**The Woman's Auxiliary
to the
American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.**

14th floor, 345 EAST 47th STREET, NEW YORK, NY 10017

212-705-7692

REPORT OF THE WAAIME

It is a distinct pleasure to report the continued good health and progress of the Women's Auxiliary of AIME during 1991.

Despite the down-turn in the economic climate of this past fiscal term, WAAIME's Endowment Funds portfolio continued to increase; and our thirty-one Sections remain active, with a total membership at 1,845. In addition, the Arizona-Morenci Section has been reactivated and is now solidly participating in WAAIME programs.

The WAAIME Scholarship Loan Fund (SLF) is a Section program designed to provide financial support for university students in the Earth Science or related fields of study. Since the original WAAIME loan granted in 1920, a total of over \$2,600,000 has been awarded on an interest free, 50% repayment basis; and, to date, the program has assisted 1,591 students with their degree programs.

This year seventeen Sections sponsored sixty-seven new students for loans totaling \$185,390, of which \$150,000 has been committed for this fiscal period 10/90 to 10/91. Included were eleven graduate students, with thirty-nine men and twenty-eight women representing the following fields of study: Geophysics-Geology & Geological Engineering-31, Metallurgy, Material Science & Engineering-16, Mining Engineering-11, Petroleum Engineering-5, Mineral Economics-2, and Ceramic and Environmental Engineering-2. Graduates this year will number over fifty.

Funds available for the SLF loans are derived from interest income from the SLF Endowment Funds, contributions from the Sections, and the repayments from the students. Repayments from loan recipients totaled \$64,420, and forty-nine repaid their loans in full during this period.

The Education For Tomorrow (EFT) program was established in 1959 and has provided information and teaching enhancement programs on the Earth Science fields to elementary through senior high schools. The National EFT Chairman maintains an audio-visual distribution library of films, videotapes, computer software, and teaching modules on the mining industry for the benefit of Section members, and available on a loan or purchase basis. Section EFT Chairmen work with teachers, counselors, and when possible through the school's curriculum planner, to place these educational materials in the schools.

With up-dating our current library materials in mind, our National EFT Chairman attended a preview of TRANSFORMATIONS, the AIME sponsored set of videotapes and matched teacher guides, "designed to motivate learning and enhance science instruction in the 7th and 8th grade classroom". We are enthusiastic about this new material which will be introduced to Section members at the EFT/WAAIME Annual Meeting being held on February 25, 1992, in Phoenix, Arizona.

The Chest program provided financial assistance to students for emergency expenses or summer field trip requirements. Applicants for assistance are proposed by Sections. In addition, our Section Chest programs provide many volunteer hours on community projects ranging from sponsorships for Science Fairs to eye-glasses for the 'Lighthouse for the Blind' in the name of WAAIME.

Our Library Program, through the efforts of various Sections, donated books and videotapes relating to the mineral industry or associated science fields to schools and public libraries. Also, a substantial contribution was made to the Mackay School of Mines Library as a special memorial gift.

The Liaison Chairman provided guidance and report on the continuing WAAIME participation and cooperation with AIME in educational, social, and fund-raising activities through the year.

Newsletter is our prime avenue of communication and is sent to every member about four times during the year. It contains summaries of all National Board meetings and reports, Section news and activities often including pictures, articles of general interest to the membership, and WAAIME Annual Meeting plans.

The Publicity Chairman actively presents articles and information to the magazines of the AIME Member Societies and other technical journals, and we would like to acknowledge their continued support in printing the articles submitted.

Our membership is proud of their role in AIME. We shall continue to work for an excellent scholarship program designed to further the interests of the AIME associated industries and the professions involved. We are very much aware of the concerns of AIME's Member Societies in regard to the negative impact on both the industry and college enrollment in the earth science fields resulting from adverse legislation, regulations, and foreign competition, and we are actively attempting to support programs of balance between all facets of national and regional concerns through our educational programs and community involvement.

In closing, we would like to acknowledge AIME for the support and assistance their staff has provided through the year, in particular, Mr. Robert Marcrum, past Executive Director, and wish him our very best. And we sincerely appreciate the support and encouragement afforded WAAIME by the AIME Member Societies' Directors and staffs, and look forward to working in cooperation with them in the future, as we have in the past.

Respectfully submitted,



Mrs. Harvey D. Attra
President, WAAIME