FOUNDED 1871

AIME ANNUAL REPORT 1972

THE YEAR IN REVIEW

The past year has been one of considerable internal change for AIME. The purpose of the change has been to utilize more effectively all of the organizations, officers, and staffs in the Institute to serve AIME members in a wide variety of technical endeavors and geographic locations.

AIME was the first national engineering society founded to serve a specific industry—the mining industry. Since its founding in 1871, this industry has broadened into the entire spectrum of industries covering metallic and non-metallic minerals, numerous metals, alloys, and all forms of petroleum. During this past century, AIME has been through three major cycles of change in organization, publications and activities, always adapting its organization and operations to meet the changing needs of what is now almost 50,000 members. The Institute has become a federation of membership groups interested in different technical specialties concerned with minerals and products made from them.

These membership groups were organized into the three Constituent Societies of AIME in 1957. Since that year the AIME Headquarters has operated a central business office for membership records, membership services, accounting, and special programs. The Society of Mining Engineers of AIME and The Metallurgical Society of AIME have been located in the United Engineering Center in New York along with the AIME Headquarters, and the Society of Petroleum Engineers of AIME has been located in Dallas, Texas. During the past decade the operations and activities of the three Societies have varied considerably and their respective needs and financial resources have also varied. An increase in membership dues for SME-AIME and TMS-AIME has become necessary, but SPE-AIME hopes to maintain the membership dues schedule it has had since 1950. In order to accommodate different dues in the three Constituent Societies, the AIME Board of Directors in February, 1972, decided to decentralize the AIME Business Office and delegate to each Constituent Society the responsibility for maintaining its own business services, membership records, meetings, publications, and special programs for members of the Society. Further, the Board directed that the responsibility for administering AIME local sections and student chapters should be delegated to the three Constituent Societies to facilitate membership services. The Constituent Societies will continue to function within the framework of the AIME Corporation and policy determined by the AIME Board of Directors, operating under the respective Boards of Directors of the Constituent Societies. Each Society maintains its own staff and headquarters office as well as the facilities for providing member services.

The AIME Corporation is the legal entity through which all its subsidiary units exist, and is the owner of all AIME assets, now some $5,900,000. With the decentralization of the business office, the AIME Corporate Headquarters will consist of a small staff under the AIME Executive Director, reporting to the AIME President and Board of Directors. It will be responsible for the administration, activities and functions involving AIME as a single organization; the management of the AIME Annual Meeting; the coordination of AIME programs internally; the administration of AIME Awards; and providing staff support for the AIME Councils and 38 all-Institute Committees. The Headquarters will also handle external functions for AIME emphasizing interdisciplinary activities and our relations with other engineering societies, federations and government agencies. For example, the Headquarters is engaged in the development of a possible program for certification of individual engineers through the Engineers Joint Council.

In summary, the year 1972 has brought organizational changes which will permit the Corporate Headquarters to function in ways that will benefit all AIME members and the Institute as a whole, and the Constituent Societies to conduct operations and activities aimed toward serving members directly. The changes have been of considerable magnitude. In general, they have been accomplished without major difficulty and the years ahead should bring stronger organization to the entire Institute and a broader range of service to all AIME members.

AIME MEMBERSHIP has increased by 805 to reach an all-time high of 49,394 corporate and student members (45,742 corporate, 3,652 student). During the past ten years, membership in the Institute has increased by an average of more than 1,300 men and women annually. Broken down by societies, membership totals are as follows: SME-AIME: 18,329; TMS-AIME: 11,779; SPE-AIME: 19,286. Responsibility for membership records, member services, and the administration of local sections and student chapters is now with the Constituent Societies. SME-AIME is responsible for 49 local sections and 37 student chapters; TMS-AIME administers 15 local sections and 37 student chapters; and SPE-AIME is responsible for the administration of 61 local sections and 18 student chapters.

AIME PUBLICATIONS provide a diversified forum where information, techniques and ideas can be exchanged between members in the mining, metallurgical and petroleum industries. In 1972, the Society of Mining Engineers of AIME published four new books: *Basic and Applied Rock Mechanics; SME-AIME Cumulative Index 1936-1968; 1972 Rapid Excavation and Tunneling Conference Proceedings* (two volumes); and *Geotechnical Practice for Stability in Open Pit Mining. Mining Engineering* featured special issues on the energy crisis, industrial minerals review, annual mining review and the annual Society roster. Four works are in progress and are expected to be published in 1973. The Metallurgical Society of AIME published eight new books in 1972: *29th Annual Electric Furnace Conference Proceedings; 31st Annual Ironmaking Conference Proceedings; 55th Annual National Open Hearth and Basic Oxygen Steel Conference Proceedings; Environmental Control; Light Metals 1972; Mechanical Working and Steel Processing Conference Proceedings; Magnetism in Alloys;* and *Journal of Electronic Materials. Journal of Metals* totaled 822 pages for the year; *Metallurgical Transactions* totaled 3,268 pages. The Society of Petroleum Engineers of AIME is preparing five monographs for publication in 1973. *Journal of Petroleum Technology* printed 850 pages in 1972, and the *Society of Petroleum Engineers Journal* contained 433 pages.

AIME MEETINGS constitute an effective forum for the dissemination and discussion of ideas, information and techniques. The AIME 101st Annual Meeting was held in February of 1972 in San Francisco, California. Over 3,500 registrants attended the Annual Meeting, which featured nearly 500 technical papers offered in nearly 100 sessions. The AIME Annual Meeting continues to be one of the major forums of the entire minerals field.

AIME was a major sponsor of the First Rapid Excavation and Tunneling Conference, held in June of 1972 in Chicago, Illinois. The RETC was attended by more than 1,100 registrants, a figure significantly greater than anticipated. Representatives of 23 foreign nations attended the RETC, which offered 85 technical papers in 16 sessions. The meeting was considered to be outstanding in its technical presentations, and sales of the two-volume *1972 RETC Proceedings* have been gratifying. The success of the First Annual RETC has led to the scheduling of future conferences in 1974 (San Francisco), 1976 (Las Vegas) and 1978 (Atlanta), and it is expected that the RETC will grow in its role as the major international forum for rapid excavation and tunneling technology.

The Fourth Annual Offshore Technology Conference was held in Houston, Texas and also proved to be highly successful. Some 15,000 registrants attended the OTC, an increase of more than 10,000 since the first OTC in 1969. The OTC has become the leading international forum on offshore technology, and AIME is proud to be one of its major sponsors.

The Constituent Societies were also active in planning meetings. SME-AIME sponsored its annual Fall Meeting, the Coal Division Spring Meeting, and assisted in sponsoring the AIME Annual Meeting, the RETC and the OTC for a total attendance of 3,497 for the year. TMS-AIME assisted in sponsoring the AIME Annual Meeting and the OTC. It also ran its annual Spring Meeting and Fall Meeting, as well as seven more conferences. Total attendance for the year was 4,564. SPE-AIME sponsored its annual Fall Meeting in San Antonio, which had an attendance of 4,627. The Society also sponsored 12 regional meetings throughout 1972, which had a combined attendance of 4,957.

AIME REVENUE AND EXPENSE STATEMENT

FOR FISCAL YEAR ENDED NOVEMBER 30, 1972

Under AIME Bylaws each of the three Constituent Societies of AIME operates on a self-sustaining basis. Membership dues, and other revenue from the activities of each Society, are assigned to it, and each Society pays a proportionate share of the all-Institute costs, largely on the ratio of its members to the total membership.

As indicated in the financial statement below, the Society of Mining Engineers of AIME and The Metallurgical Society of AIME both operated in a deficit position in Fiscal 1972, for the second consecutive year. The deficits are made up from the working capital funds of each Society known as Society Activities Funds. However, the available resources in these Funds have been largely depleted, and it became necessary for both SME-AIME and TMS-AIME to increase membership dues beginning with Fiscal 1973. The Society of Petroleum Engineers of AIME is in a surplus position and expects to continue its present scale of dues for the next several years. It is significant to note that revenue from member dues and fees was some 33 percent of the total operating revenue of the Institute for the year. Also, current income from the AIME Endowment Funds continued to provide a significant amount of revenue for operations during the past year.

Expenses of the three Societies and the Institute are divided into administrative functions, membership development and services, publications and meetings. It is also significant to note that the total expense per member in Fiscal 1972 ranged from $51.17 in SME-AIME to $62.90 in SPE-AIME.

As indicated in the front page of this Annual Report, the AIME Business Office was decentralized in 1972, and the member service functions previously conducted by it assigned to the three Constituent Societies. In the future each Society will have a separate budget along with the AIME Corporate Headquarters. With the dues increase for 1973 in two of the Constituent Societies, the financial outlook for the next several years for the Institute as a whole is good.

	Society of Mining Engineers of AIME	*The Metallurgical Society of AIME*	*Society of Petroleum Engineers of AIME*	*AIME Total*
REVENUE				
Member Dues & Fees	$330,722	$189,996	$ 348,215	$ 868,933
Publications Sales & Advertising	347,976	156,268	394,281	898,525
Meetings	126,253	110,062	428,112	664,427
Transfer from AIME Endowment Funds	39,685	27,256	31,867	98,808
Interest, Dividends & Special Programs	6,832	5,265	37,585	49,682
TOTAL REVENUE	$851,468	$488,847	$1,240,060	$2,580,375
EXPENSE				
AIME Corporate Headquarters	$ 82,561	$ 47,991	$ 60,438	$ 190,990
AIME Consolidated Business Office	74,364	73,462	77,518	225,344
Society Headquarters Offices	79,985	150,756	175,902	406,643
Membership Development	19,778	2,164	30,708	52,650
Section & Student Chapter Support	21,155	10,461	27,111	58,727
Support of Engineering Federations	15,076	10,929	16,162	42,167
Pensions and Related	41,329	25,308	48,698	115,335
Other All-Institute	11,881	9,018	12,626	33,525
Publications	447,962	207,561	489,788	1,145,311
Meetings	86,126	37,982	181,276	305,384
Special Programs	—	—	46,562	46,562
TOTAL EXPENSE	$880,217	$575,632	$1,166,789	$2,622,638
EXCESS OF (EXPENSE) OVER REVENUE (EXCLUDING STUDENT MEMBERS)	$(28,749)	$(86,785)	$ 73,271	$ (42,263)
TOTAL EXPENSE PER MEMBER	$ 51.17	$ 57.59	$ 62.90	$ 57.33

As of January 1, 1973, corporate and student membership totals were as follows:

Society of Mining Engineers of AIME	18,329
The Metallurgical Society of AIME	11,779
Society of Petroleum Engineers of AIME	19,286
AIME Total	49,394

AIME AWARD RECIPIENTS FOR 1972

HONORARY MEMBERSHIP
Charles M. Brinckerhoff
Stuart E. Buckley
John Chipman
Arthur B. Cummins
Antoine Marc Gaudin
Robert P. Koenig
Carleton C. Long
Dean A. McGee
Sir Ian Munro McLennan
Morris Muskat
Howard Carter Pyle

JAMES DOUGLAS GOLD MEDAL
Jack Hall Scaff

WILLIAM LAWRENCE SAUNDERS GOLD MEDAL
Stanley M. Jarrett

CHARLES F. RAND MEMORIAL GOLD MEDAL
Plato Malozemoff

ANTHONY F. LUCAS GOLD MEDAL
Albert Geyer Loomis

ERSKINE RAMSAY MEDAL
James Rowland Cudworth

ROBERT H. RICHARDS AWARD
Harlowe Hardinge

BENJAMIN F. FAIRLESS AWARD
Karl Georg Speith

HAL WILLIAMS HARDINGE AWARD
Fredrick Christian Kruger

ROBERT EARLL McCONNELL AWARD
Emil Edward Malouf

ROSSITER W. RAYMOND MEMORIAL AWARD
David S. Cahn

MINERAL INDUSTRY EDUCATION AWARD
John Chipman

MINERAL ECONOMICS AWARD
John Drew Ridge

ROCK MECHANICS AWARD
Leopold Muller

ENVIRONMENTAL CONSERVATION DISTINGUISHED SERVICE AWARD
Clare A. Young

DANIEL C. JACKLING AWARD AND LECTURER
John Ballantine Knaebel

HOWARD N. EAVENSON AWARD
Edwin R. Phelps

ROBERT PEELE AWARD
James A. Bratt
Bernard A. Fahm
Bruce A. Kennedy
Karl E. Niermeyer

ROBERT W. HUNT SILVER MEDAL
Laszlo Backer
Paul Remy Gosselin

J. E. JOHNSON JR. AWARD
Thomas M. Barnes

CHAMPION MATHEWSON GOLD MEDAL
James C.M. Li

ROBERT LANSING HARDY GOLD MEDAL
John Herbst

EXTRACTIVE METALLURGY DIVISION TECHNOLOGY AWARD
David Kinneberg
Martin Messner

INSTITUTE OF METALS DIVISION LECTURER
Anthony Kelly

FELLOWS OF THE METALLURGICAL SOCIETY OF AIME
John Convey
Robert I. Jaffe
Herbert H. Kellogg
Max W. Lightner
William D. Manly

EXTRACTIVE METALLURGY DIVISION SCIENCE AWARD
Krishnamurthi Natesan
William O. Philbrook

HOWE MEMORIAL LECTURER
William T. Lankford, Jr.

EXTRACTIVE METALLURGY DIVISION LECTURER
Nickolas J. Themelis

JOHN CHIPMAN AWARD
John F. Elliot
Gordon E. Forward

SOCIETY OF PETROLEUM ENGINEERS OF AIME DISTINGUISHED SERVICE AWARD
Claude R. Hocott

CEDRIC K. FERGUSON MEDAL
Roy T. McLamore

JOHN FRANKLIN CARLL AWARD
Harold Vance

DeGOLYER DISTINGUISHED SERVICE MEDAL
Wayne E. Glenn

LESTER C. UREN AWARD
J. J. Arps

ALFRED NOBLE PRIZE
C. L. Magee

OFFICERS AND DIRECTORS FOR 1972

AIME BOARD OF DIRECTORS

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Dennis L. McElroy, Pittsburgh, Pa.

PRESIDENT-ELECT
James B. Austin, Pittsburgh, Pa.

PAST PRESIDENT
John S. Bell, Houston, Texas

VICE PRESIDENT-FINANCE
Robert S. Ryan, New York, N.Y.

VICE PRESIDENTS
L. B. Curtis, Houston, Texas
Fred H. Poettmann, Findlay, Ohio
Donald O. Rausch, Eureka, Utah
James D. Reilly, St. Clairsville, Ohio
David Swan, New York, N.Y.
Charles R. Taylor, Middletown, Ohio

DIRECTORS
James E. Bilderback, St. Louis, Mo.
Eugene R. Dean, Pittsburgh, Pa.
Morris E. Fine, Evanston, Ill.
Robert M. Grogan, Wilmington, Del.
Julius J. Harwood, Dearborn, Mich.
A. J. Horn, San Francisco, Cal.
M. Scott Kraemer, Denver, Colo.
William A. Krivsky, Syracuse, N.Y.
Robert H. Merrill, Denver, Colo.
E. A. Rassinier, Houston, Texas
Gerald E. Sherrod, New York, N.Y.
Raymond S. Shrode, Baltimore, Md.

EXECUTIVE DIRECTOR
Joe B. Alford, New York, N.Y.

Society of Mining Engineers of AIME

PRESIDENT
Robert M. Grogan, Wilmington, Del.
PRESIDENT-ELECT
Robert H. Merrill, Denver, Colo.
PAST PRESIDENT
James D. Reilly, St. Clairsville, Ohio
TREASURER
James E. Bilderback, St. Louis, Mo.
EXECUTIVE SECRETARY
John C. Fox, New York, N.Y.

The Metallurgical Society of AIME

PRESIDENT
David Swan, New York, N.Y.
PRESIDENT-ELECT
Julius J. Harwood, Dearborn, Mich.
PAST PRESIDENT
Charles R. Taylor, Middletown, Ohio
TREASURER
Carleton C. Long, Monaca, Pa.
EXECUTIVE SECRETARY
Claude L. Crowley, New York, N.Y.

Society of Petroleum Engineers of AIME

PRESIDENT
M. Scott Kraemer, Denver, Colo.
PRESIDENT-ELECT
Gerald E. Sherrod, New York, N.Y.
PAST PRESIDENT
L. B. Curtis, Houston, Texas
TREASURER
Kenneth W. Robbins, Dallas, Texas
EXECUTIVE SECRETARY
David L. Riley, Dallas, Texas

The American Institute of Mining, Metallurgical,
and Petroleum Engineers
345 East 47th Street New York, New York 10017

OFFICERS AND DIRECTORS FOR 1972

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Robert M. Grogan, Wilmington, Del.
Julius J. Harwood, Dearborn, Mich.
A. J. Horn, San Francisco, Cal.
M. Scott Kraemer, Tulsa, Okla.
William A. Krivsky, Syracuse, N.Y.
Robert H. Merrill, Denver, Colo.
E. A. Rassinier, Houston, Texas
Gerald E. Sherrod, New York, N.Y.
Raymond S. Shrode, Baltimore, Md.

EXECUTIVE DIRECTOR
Joe B. Alford, New York, N.Y.

Society of Mining Engineers of AIME

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TREASURER
James E. Bilderback, St. Louis, Mo.
EXECUTIVE SECRETARY
John C. Fox, New York, N.Y.

The Metallurgical Society of AIME

PRESIDENT
David Swan, New York, N.Y.
PRESIDENT-ELECT
Julius J. Harwood, Dearborn, Mich.
PAST PRESIDENT
Charles R. Taylor, Middletown, Ohio
TREASURER
Carleton C. Long, Monaca, Pa.
EXECUTIVE SECRETARY
Claude L. Crowley, New York, N.Y.

Society of Petroleum Engineers of AIME

PRESIDENT
M. Scott Kraemer, Tulsa, Okla.
PRESIDENT-ELECT
Gerald E. Sherrod, New York, N.Y.
PAST PRESIDENT
L. B. Curtis, Houston, Texas
TREASURER
Kenneth W. Robbins, Dallas, Texas
EXECUTIVE SECRETARY
David L. Riley, Dallas, Texas

AIME
FOUNDED 1871

SPECIAL MEMBERSHIP REPORT

AIME
FOUNDED 1871

AMERICAN INSTITUTE OF MINING, METALLURGICAL,
AND PETROLEUM ENGINEERS, INC.
345 EAST 47TH STREET
NEW YORK, N. Y. 10017

SPECIAL REPORT TO AIME MEMBERS

Dennis L. McElroy
President AIME

MESSAGE FROM THE PRESIDENT

When AIME was founded, now 102 years ago, it was the first national engineering society established to serve a specific industry. What was then the mining industry has since broadened into the entire spectrum of industries covering metallic and non metallic minerals, numerous metals, alloys, and all forms of petroleum. As the need for new technical specialties arose in the past, AIME has steadily adapted its organization and operations to meet the changing needs of those times. It is still so today. The year 1972 is bringing to completion a major cycle of change which began about 1940. Fundamental changes in the organization, operations, and finances of AIME are now being made. This special report presents the highlights concerning them and their significance to you as an AIME member.

I urge you to take a few moments to read this report and to give your thoughtful attention to what is indicated as the future course of the Institute. All professional organizations progress on the voluntary participation and support of their members. Your continued membership, interest and support of AIME are needed; your continued participation will be a significant contribution to our profession and the Institute.

Dennis L. McElroy

CHANGES IN AIME ORGANIZATION AND MEMBERSHIP SERVICE FUNCTIONS

Business Services and Membership Records

Since 1940, AIME has moved steadily toward a clear delineation of its membership into three groups now encompassed by the three Constituent Societies of AIME shown on the front page under Officers and Directors. Meetings, publications and special programs have been conducted by the three societies since 1950, but the AIME Headquarters has continued to provide centralized accounting, membership records, data processing, and other services to the societies. In recent years an increase in AIME dues has become necessary but the needs of the three societies for central business services, as well as their financial resources, vary greatly. This has resulted in problems of cost allocations for the AIME Central Business Office and services. Intensive study by officers and staff led to the conclusion that the Central Business Office should be discontinued and each Constituent Society be delegated the responsibility for business services, membership records and member services for AIME members assigned to the society. The AIME Board authorized these changes in February 1972. They are now being implemented to be completed at the end of the Fiscal Year, November 30, 1972.

Local Section and Student Chapter Administration

The first AIME local Sections were established in 1911: New York, Boston, Columbia. By 1940, the Institute had 33 Sections; it now has 123. Of these, 63 Sections are composed of mining and metallurgical members of AIME, and have been administered through the AIME Headquarters in New York. Sixty Sections are composed of petroleum members. They are homogeneous in membership, and have largely been administered through the Society of Petroleum Engineers of AIME in Dallas. The Institute now has 92 Student Chapters, with considerable variance in their membership interests. Problems of diversity in administration and cost allocation for local Sections-Student Chapters led to the decision that administrative responsibility for all these units should be discontinued at the AIME Headquarters and assigned to the three staff officers in charge of the AIME Constituent Societies. The AIME Board created three positions of Assistant Executive Director of AIME so that these individuals will be staff officers of the AIME Corporation. Accordingly, the administrative responsibility for Sections and Chapters has been assigned to AIME staff officers as shown below. All assignments to the staff officers are initial assignments and will be changed in the future as needed.

MR. JOHN C. FOX
Assistant Executive Director AIME
for the Society of Mining Engineers
of AIME
49 Local Sections
37 Student Chapters

MR. CLAUDE L. CROWLEY
Assistant Executive Director AIME
for The Metallurgical Society
of AIME
14 Local Sections
37 Student Chapters

MR. DAVID L. RILEY
Assistant Executive Director AIME
for the Society of Petroleum Engineers
of AIME
60 Local Sections
18 Student Chapters

OPERATIONS FOR THE FUTURE

The AIME Corporation and Corporate Headquarters Functions

The AIME Corporation is the legal entity through which all its subsidiary units exist and is the owner of all AIME assets, now some $5,200,000. The Corporate Headquarters in the future will consist of the AIME Executive Director and a small staff, reporting to the AIME President and Board. Its responsibilities will be to handle all administration, activities, and functions involving AIME as a single organization; to execute directives of the AIME Board, manage the AIME Annual Meeting, coordinate AIME programs internally, administer AIME Awards, and provide staff support for the AIME Councils and 38 all-Institute Committees. The Headquarters will also handle external functions for AIME, emphasizing inter-disciplinary activities and our relationships with other engineering societies, federations, and government agencies. Thus, the basic charge of the Corporate Headquarters in the future will be to function in ways that will benefit all AIME members and the Institute as a whole. Financing for the Headquarters and other all-Institute expense (see chart below) will be from the current income of several AIME Endowment Funds, plus an allocation from members' dues as determined by the AIME Board.

The Three Constituent Societies of AIME

The Constituent Societies will continue to function in the future within the framework of AIME policy and under the government of their respective Boards of Directors, each with its own staff and headquarters office. Their responsibilities will be to conduct all operations, such as technical meetings, publications, membership development, and the administration of local Sections and Student Chapters assigned to their staffs. All AIME members will belong to both the Institute and the Constituent Society of their choice. Each Society will keep the records for members who select it, collect membership dues, and provide services desired by members. Each Society will handle its own accounting, data processing, and other business services. Each Society will be self-supporting financially, with revenue, to be derived from its membership dues, publications, meetings and programs. With the approval of the AIME Board, the three Constituent Societies will have different membership dues which will enable each Society to provide its members with programs and services desired by them at cost levels determined by the Society.

AIME REVENUE AND EXPENSE BUDGET FOR 1972

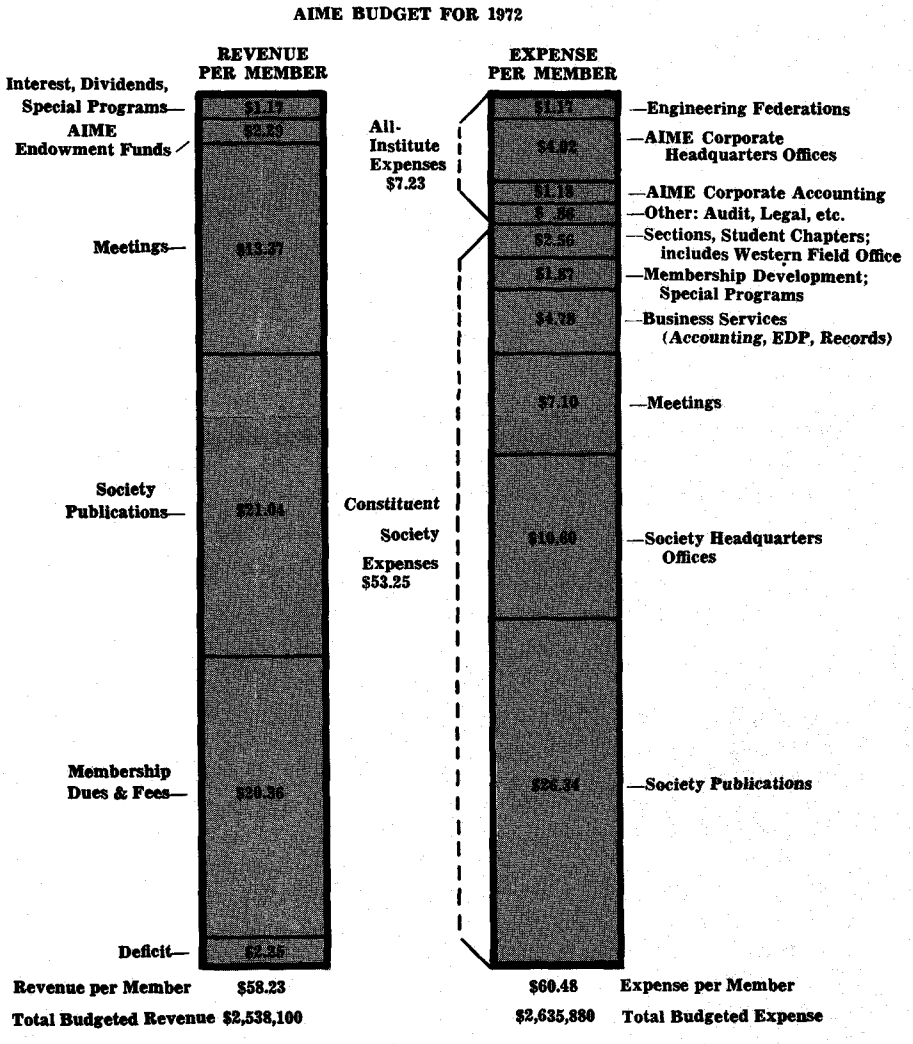
The total AIME operations budget for Fiscal 1972 is shown in the charts to the right. The figures are on a per-member basis for Members, Junior Members and Associate Members as of January 1, 1972. On that date the Institute had 43,568 members in these grades.

Revenue

Total revenue per member for the year is $58.23. Of this, membership dues and fees provide $20.36, only 35 percent of the total. Society publications provide 36 percent, and meetings 23 percent. Revenue from AIME Endowment Funds is $2.29 per member. Since 1966, over $700,000 of Endowment Fund revenue has been placed into the operating budgets of AIME.

Expense

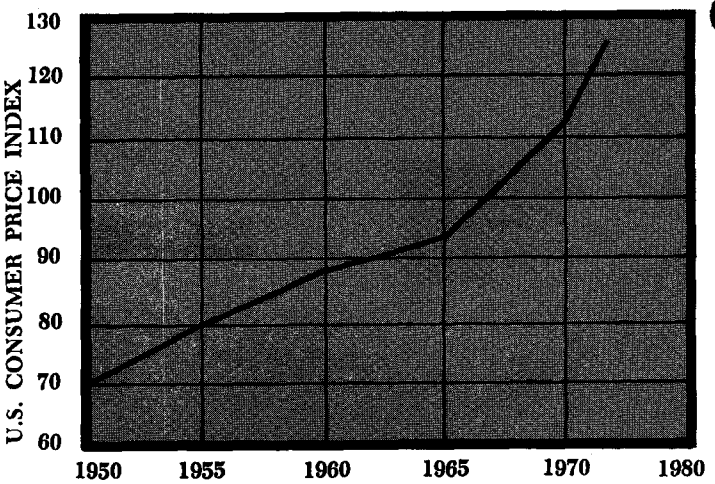
The total expense of $60.48 per member is divided into all-Institute and Constituent Society expense to show how expenses will be designated under the new operating plans. The largest expense is Society publications at 43 percent of the total. Remaining expenses are divided into nine categories of activities and administration. Revenue and expense for each Constituent Society is not shown in these charts, but each Society operates on a self-sustaining basis, and the deficit of $2.25 per member will be made up from the financial reserves of the Societies incurring the deficits.



AIME MEMBERSHIP DUES

Annual dues for the grade of Member were set at $10 in 1871 when the Institute was founded. They were increased to $15 in 1921, and to $20 in 1950. No increase has been made during the past 22 years. As shown in the chart at the right, inflation has taken a great toll during this period: The U.S. Consumer Price Index has risen 79 percent. Because of inflation, all of the costs of operating the Institute have increased substantially. Other major engineering societies have raised dues at least once during this period. AIME has been able to maintain the $20 dues because of the generous support of industry for member participation, the use of revenue from AIME Endowment Funds, the development of revenue producing activities, and more recently, reductions in staff and other costs. These have all now been utilized to the maximum extent, however, and two of the AIME Constituent Societies must increase membership dues in order to maintain a sound financial condition. The Society of Mining Engineers of AIME and The Metallurgical Society of AIME, with the approval of the AIME Board, will increase dues to the following schedule for Fiscal Years 1973, 1974, 1975:

Members and Associates	$30
Junior Members (6 + years)	$26
Junior Members (Less than 6 years)	$18
Student Members (No increase)	$ 4.50



INFLATION IN THE UNITED STATES AS REFLECTED IN THE U.S. DEPT. OF LABOR CONSUMER PRICE INDEX

Because of the expectation of continued growth in some of its revenue producing activities, the Society of Petroleum Engineers of AIME hopes to maintain the present dues schedule during the 1973-1975 period.

SIGNIFICANCE OF PRESENT CHANGES

The continual trend in engineering has been toward increased specialization, and during the past 30 years AIME has become a federation of membership groups interested in different technical specialties concerned with minerals and the products made from them. Many AIME members feel that these groups should remain together because of related interests, and the present trend for companies to broaden their properties into several minerals-metals fields. The primary purpose of the changes now being made in AIME is to utilize most effectively all of the organizations and resources of the Institute in serving both the technical and professional interests of members.

The Constituent Societies will have responsibility for and flexibility in providing service and the technical programs and publications desired by members. The AIME Corporate Headquarters will be responsible for the broad activities and issues concerning the Institute as a whole, and its relationships with the profession. Duplication of work between Society and Institute offices will be eliminated, and operations will be executed with maximum efficiency. All members will benefit.

THE VALUE OF YOUR AIME MEMBERSHIP

All specialized branches of engineering relate to others, and to the basic sciences. No engineering specialty can flourish in isolation. In like manner, no individual engineer can develop his maximum potential by himself. He needs contact with his professional colleagues, and his group needs relationships with other groups. AIME membership provides both. AIME is the technical-professional society serving engineers and scientists working in minerals-metals technology. Internally, the Institute enables members to exchange knowledge and develop professional acquaintance. Externally, AIME is the interface with the rest of the engineering profession.

The value of your AIME membership is that it helps you to expand your technical expertise, to enhance your personal status and to contribute to your profession. AIME is a "member-run" organization; your participation is needed at all levels—in Student Chapters, Local Sections, Professional Divisions, Constituent Societies, Institute Councils, and AIME Headquarters. The value of your investment in membership and participation will be significant in your professional career.

1972

OFFICIAL ANNUAL REVIEW

AIME

FOUNDED 1871

AIME

and its

THREE CONSTITUENT SOCIETIES

SOCIETY OF MINING ENGINEERS

THE METALLURGICAL SOCIETY

SOCIETY OF PETROLEUM ENGINEERS

American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.
345 East 47th Street, New York, New York 10017

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OFFICIAL AIME ANNUAL REVIEW

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REPORT OF THE EXECUTIVE DIRECTOR, AIME

1972

The year 1972 has brought major internal changes to AIME, through the decentralization of the AIME Business Office from the Headquarters to be operated by the three Constituent Societies. Changes of such magnitude always involve some difficult problems. A great deal of staff and officer time has been spent during the year in solving these problems and effecting the changes. The changes have been accomplished without major upset. Although various operational activities need refinement, the decentralized plan is now beginning to work effectively. The purpose of the decentralization, as authorized by the AIME Board in February 1972, has been to utilize more effectively all of the organizations, officers and staff in the Institute to serve AIME members. As in all such organizational changes, opinion varies among members, but the predominant consensus appears to be that the changes will be beneficial to the Institute and its Constituent Societies in a number of ways in future years.

The Institute moved sideways in membership development in 1972. On January 1, 1972, the membership including students was 48,589, and on January 1, 1973, it was 49,394. In Fiscal 1972, the Society of Mining Engineers of AIME and The Metallurgical Society of AIME operated at a deficit, but the increase in dues by these two Societies for Fiscal 1973 will help both Societies to overcome this situation. The Society of Petroleum Engineers of AIME had a surplus and expects to maintain its present schedule of dues for the next few years. Current revenue from AIME Endowment Funds was used again in 1972 to assist with the operating budget of the Institute.

President Dennis L. McElroy devoted much time and attention to the Institute during the year, and AIME is indebted to him and Mrs. McElroy. Mr. and Mrs. McElroy attended numerous Society and other meetings, and their contributions were genuinely appreciated by members.

I wish to express a special word of appreciation to all staff personnel in the Headquarters, the Business Office, and the Constituent Societies who participated in the decentralization. Some of the changes made were especially trying for staff personnel in various respects, and the Institute can be genuinely proud of the way in which everyone accepted the changes and put their shoulders to the wheel to make them work. I also wish to express appreciation to all officers and Directors and Committee Chairmen and members for their numerous services and contributions to the Institute during the year. The future will continue to be bright for AIME with the dedicated efforts of so many people serving the Institute in so many ways.

Respectfully submitted,

Joe B. Alford

Joe B. Alford
Executive Director

RECORD OF HONORS AND AWARDS PRESENTED BY AIME IN 1972

The following Honors and Awards were presented by AIME in 1972, in addition to those presented by our Constituent Societies and described elsewhere in this Annual Review:

HONORARY MEMBERSHIP was conferred upon

Charles M. Brinckerhoff, "For outstanding administrative and technical ability, for discerning foresight and leadership in the minerals industry and for his contributions to better Interamerican understanding."

Stuart E. Buckley, "For his research and literary contributions that pioneered an advancing petroleum technology, for his work with industry and government in fostering sound conservation practices, and for devoted service to the Institute."

John Chipman, "In recognition of his outstanding role as an educator and of his many individual contributions to metallurgical science and engineering, particularly in the field of the physical chemistry of steel making reactions."

Arthur B. Cummins, "For creative research activities leading to major improvements in technology for the processing and use of a wide variety of important industrial minerals and for his long unselfish service to the Institute and the Society of Mining Engineers of AIME."

Antoine M. Gaudin, "For his contributions as a scientist, educator and author; specifically his leadership and direction, and the development of leaching and recovery techniques for low grade uranium ores."

Robert P. Koenig, "In recognition of his leadership in guiding the expansion of a famous Peruvian mine into an international industrial company with diversified raw materials interests, and for his service to the industry and the nation in peacetime and wartime."

Carleton C. Long, "For distinguished contributions in electrothermic winning of zinc from sulphide ores and lead blast furnace slags, for his organizational action and many years of valuable leadership in The Metallurgical Society of AIME and for his outstanding service to the Institute."

Dean A. McGee, "For his early recognition of the need for 'a total energy concept' and his prudent leadership in the demonstrability of its benefits to our Country's welfare and to the mineral industry."

Sir Ian M. McLennan, "In recognition of his outstanding service to his profession in Mining, Metallurgy and Petroleum. His major contributions in the growth of the Australian mineral industry occurred in the exploration for and mining development of major iron ore deposits; in the outstanding expansion of her steel industry and in the discovery and development of petroleum in the Bass Strait."

Morris Muskat, "In recognition of service to industry and the Institute through his creative investigations and published works that provided fundamental insights into petroleum recovery mechanisms and stimulated the application of reservoir engineering to production practice."

Howard C. Pyle, "For his demonstrated administrative and engineering ability in the petroleum industry, and in recognition of his dedicated service to the Institute."

The JAMES DOUGLAS GOLD MEDAL to Jack H. Scaff, "For his distinguished contributions to the metallurgy of electronic materials and his pioneering work in the development of transistor technology."

The BENJAMIN F. FAIRLESS AWARD to Karl G. Speith, "In recognition of his numerous professional contributions in the broad field of steelmaking technology and especially for distinguished achievement in the advancement of oxygen steelmaking and continuous casting."

The HAL WILLIAMS HARDINGE AWARD to Fredrick C. Kruger, "Prominent educator, geologist and administrator in the field of non-metallic minerals. For laudable accomplishments in the development of North American potash, phosphate and fluorspar resources."

The ANTHONY F. LUCAS GOLD MEDAL to Albert G. Loomis, "For outstanding improvements in petroleum engineering by application of chemistry and physics to the science of drilling and production of petroleum."

The ROBERT EARLL McCONNELL AWARD to Emil E. Malouf, "In recognition of his distinguished engineering achievement in extractive metallurgy, particularly in the research and reduction to practice of the principal commercial methods for producing rhenium and for recovering copper from waste dumps."

The ERSKINE RAMSAY MEDAL to James R. Cudworth, "As an educator who developed many coal mining leaders and for his own contribution in minerals beneficiation and geology in the southeast."

The CHARLES F. RAND MEMORIAL GOLD MEDAL to Plato Malozemoff, "In recognition of his sound leadership and innovative management as evinced by his company's outstanding record of growth, its contributions to technology, and its constructive industry influence."

The ROBERT H. RICHARDS AWARD to Harlowe Hardinge, "In recognition of his contributions to the mineral industries and to the technology of grinding: as a leader in the development of autogenous grinding and of automatic controls for these operations; as an exemplar of the tradition of cooperation between mining companies and equipment manufacturers so vital to the industry's progress; as a prolific inventor and public servant."

The WILLIAM LAWRENCE SAUNDERS GOLD MEDAL to Stanley M. Jarrett, "For the outstanding contributions he has made in the development of safe mining practices and for his notable dedication to the implementation of mine-safety education."

The MINERAL ECONOMICS AWARD to John D. Ridge, "In recognition of the unique contribution to mineral economics by the development, during his twenty years as Head of the Department of Mineral Economics of The Pennsylvania State University as a major and outstanding center for the training of mineral economists and the conduct of mineral economics research."

The MINERAL INDUSTRY EDUCATION AWARD to John Chipman, "His scientific contributions and the many able students he has trained have profoundly influenced metallurgical education and the making of iron and steel."

The ROCK MECHANICS AWARD to Charles Fairhurst, "For promoting rock mechanics by providing a continuing forum for research, learning, discussion and publication of the science."

The ROSSITER W. RAYMOND MEMORIAL AWARD to David S. Cahn for his paper, "Agglomeration of Steel Plant Furnace Dust with Cement Binders".

LEGION OF HONOR FIFTY-YEAR MEMBER INSIGNIA were conferred upon the following thirty-four members: Irwin W. Alcorn, Ernest O. Blades, Robert B. Bossler, Arthur B. Campbell, Joseph Chalmers, Harold H. Christy, Thomas C. Denton, Homer M. Eagles, George R. Elliott, Charles R. FonDersmith, James F. Frost, Joseph N. Gregory, Robert E. Heineman, Robert J. Hendricks, Hjalmar W. Johnson, Jesse C. Johnson, Wilmot C. Jones, John E. Lamar, Donald K. Mackay, William C. McCulloch, William C. McKenzie, Russell S. Mitchell, Lanfear B. Norrie, B. Marvel O'Harra, Edwin N. Pennebaker, Robert G. Pfahler, Albert J. Phillips, Darwin J. Pope, Faustino Roel, Dale R. Snow, William W. Staley, Frank H. Storms, Edward R. Weidlein, William J. Wright.

REPORT

of the

COMPTROLLER

The AIME Administrative and Business Services Department continued to provide centralized financial accounting, data processing, book sales, address control and membership application processing services for all members as well as for the operating elements within the AIME corporate structure.

Nineteen seventy-two witnessed an increase in the work load for all of these departments due to the increased membership, decentralizing concept and Society activity. It is particularly gratifying to report that even with the heavier work load there was a moderate reduction in expenses.

Thanks are due to the AIME Consolidated Business Office staff, and to all Institute and Society personnel for their loyal and devoted cooperation. We wish especially to thank AIME Treasurer, Mr. Robert S. Ryan, for his helpful advice and assistance.

Respectfully submitted,

Antin J. Bendersky
Comptroller

LYBRAND, ROSS BROS. & MONTGOMERY
CERTIFIED PUBLIC ACCOUNTANTS

COOPERS & LYBRAND
IN PRINCIPAL AREAS
OF THE WORLD

Board of Directors,
American Institute of Mining, Metallurgical,
and Petroleum Engineers, Inc.:

We have examined the balance sheet of AMERICAN INSTITUTE of MINING, METALLURGICAL, and PETROLEUM ENGINEERS, INC. as of November 30, 1972 and the related statements of revenue and expenses, surplus (deficit) and changes in endowment and custodian funds for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. We previously examined and reported upon the financial statements for the year ended November 30, 1971.

In our opinion, the aforementioned financial statements present fairly the financial position of American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc. at November 30, 1972 and 1971, and the results of its operations and the changes in its financial position for the years then ended, in conformity with the accounting principles referred to in Note 2 applied on a consistent basis.

Lybrand, Ross Bros. & Montgomery

New York, January 22, 1973.

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

BALANCE SHEETS, November 30, 1972 and 1971 (Note 1)

ASSETS:	1972	1971
Working fund:		
Cash and temporary cash investments	$ 39,461	$ 42,438
Accounts receivable	131,346	115,584
Inventories, at cost or lower:		
Publications on hand	46,281	45,648
Jewelry and membership certificates	573	763
	46,854	46,411
Equipment, furniture and fixtures, at cost (Note 2)		30,791
Less, Accumulated depreciation		19,921
		10,870
Prepaid expenses, deferred charges and other assets	104,417	130,254
Total working fund	322,078	345,557
Endowment and custodian funds:		
Investments, at cost plus accrued interest (at market quotations plus accrued interest approximately $4,643,000 in 1972 and $4,992,000 in 1971) (Notes 3 and 6)	4,127,502	4,737,640
Cash and temporary cash investments	1,211,126	458,066
	5,338,628	5,195,706
Founder Society advances to United Engineering Trustees, Inc. (Note 4)	265,000	265,000
	$5,925,706	$5,806,263

LIABILITIES and FUND BALANCES:	1972	1971
Working fund:		
Accounts payable and accrued liabilities	$ 26,207	$ 37,021
Annual meeting surplus fund	31,565	15,059
Continuing education fund		4,964
Deferred credits to income:		
Membership dues received in advance	385,893	361,030
Life memberships	11,180	11,780
Other	33,918	55,632
	430,991	428,442
Surplus (deficit) (per statement annexed)	(166,685)	(139,929)
Total working fund	322,078	345,557
Endowment and custodian funds (per statement annexed):		
Endowment funds	3,963,496	3,973,002
Custodian funds	1,375,132	1,222,704
	5,338,628	5,195,706
Property fund (no change during 1972 and 1971) (Note 4)	265,000	265,000
	$5,925,706	$5,806,263

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

STATEMENTS of REVENUE and EXPENSES

for the years ended November 30, 1972 and 1971 (Note 1)

	1972	1971
Revenue:		
Members' dues and entrance fees	$ 868,933	$ 858,214
Advertising and publication sales, net	795,082	792,381
Appropriations from endowment and custodian funds (1971 includes $71,393 relating to equipment, furniture and fixtures written off) (Note 2)	147,323	229,261
Offshore Technology Conference:		
Attendance distribution	40,160	24,564
Management fees	62,400	71,600
Exhibit space commission	9,605	5,628
	112,165	101,792
Conference management fees, interest, annual meeting and miscellaneous	132,266	132,244
	2,055,769	2,113,892
Expenses:		
Publications	1,058,617	1,126,731
Society direct expenses (Note 2)	618,942	560,418
AIME headquarters	607,361	632,869
	2,284,920	2,320,018
Excess of expenses over revenue for the year	$ 229,151	$ 206,126

Note: Revenue and expenses of endowment and custodian fund accounts are not included in this statement.

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

NOTES to FINANCIAL STATEMENTS

1. The financial statements include the accounts of the American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc., the Activities Fund of the Society of Petroleum Engineers and the Institute's share of income of the Offshore Technology Conference.

   The accompanying financial statements do not include assets, liabilities, revenue or expenses of other Local Sections, Divisions and Special Committees.

2. The financial statements of the American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc. are prepared in accordance with generally accepted accounting principles except for the treatment of expenditures for equipment, furniture and fixtures which is explained below.

   During 1971, the Institute changed its accounting for equipment, furniture and fixtures (except for the Activities Fund of the Society of Petroleum Engineers discussed below) from the method which requires the capitalization and subsequent depreciation of such expenditures (which method is in accordance with generally accepted accounting principles for business organizations) to the method followed by many nonprofit organizations under which such expenditures are charged directly to expense as incurred. In connection with this change, the Institute wrote off the undepreciated balance of equipment, furniture and fixtures at December 1, 1970 in the amount of $116,197. To the extent that such amount was appropriated from custodian funds ($71,393) the write-off was included in society direct expenses in the statement of revenue and expenses for 1971. The balance of the write-off ($44,804) was charged against the working fund surplus (deficit) account. The 1971 statement of revenue and expenses also reflects charges of $2,625 related to 1971 additions of equipment, furniture and fixtures; there were no such expenditures in 1972.

   During 1972, the Activities Fund of the Society of Petroleum Engineers adopted the Institute's method of accounting for equipment, furniture and fixtures and accordingly wrote off the undepreciated balance of equipment, furniture and fixtures at December 1, 1971 in the amount of $10,870. Such amount has been included in society direct expenses in the statement of revenue and expenses for 1972. The 1972 statement of revenue and expenses also reflects charges of $7,565 related to 1972 additions of equipment, furniture and fixtures; the 1971 financial statements reflect the capitalization of $1,219 of such expenditures and $3,957 of depreciation charges.

3. Purchased investments are stated at cost plus accrued interest; those received as contributions are recorded at market value on date of gift.

4. By agreements dated February 28, 1958, the Founders' Agreement of August 10, 1916 between the four Founder Societies and United Engineering Trustees, Inc. was superseded by a new Founders' Agreement which provides, in part, for recognition of advances of $265,000 to United Engineering Trustees, Inc. by the American Institute of Mining; Metallurgical, and Petroleum Engineers, Inc., in connection with the erection of the United Engineering Center Building. Such advances are not repayable by United Engineering Trustees, Inc. except upon its dissolution, but advances bear interest at 4% per annum.

5. The Institute has a contributory pension plan for eligible employees. Pension expense, including amortization of prior service costs which are being amortized over a fifteen-year period, amounted to $40,600 in 1972 and $43,300 in 1971. The Institute funds pension costs accrued. The actuarially computed value of vested benefits exceeded pension plan assets by approximately $57,804 at November 30, 1972 and by $45,600 at November 30, 1971.

6. Purchases and sales of endowment and custodian fund investments (exclusive of temporary cash investments) were approximately $556,000 and $1,121,000 in 1972, and $2,001,000 and $1,588,000 in 1971, respectively.

MEMBERSHIP DATA

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

1870 to 1972

YEAR	MEMBER TOTAL	YEAR	MEMBER TOTAL	YEAR	MEMBER TOTAL	YEAR	MEMBER TOTAL	YEAR	MEMBER TOTAL
1870	22	1880	832	1890	2,000	1900	2,450	1910	4,210
1	157	1	1,031	1	2,134	1	2,897	1	4,169
2	254	2	1,213	2	2,258	2	3,262	2	4,290
3	273	3	1,345	3	2,392	3	3,741	3	4,284
4	345	4	1,467	4	2,391	4	3,530	4	4,150
1875	554	1885	1,439	1895	2,437	1905	3,886	1915	4,650
6	628	6	1,504	6	2,390	6	4,048	6	5,880
7	732	7	1,615	7	2,455	7	4,191	7	6,597
8	734	8	1,714	8	2,562	8	4,241	8	7,856
9	788	9	1,857	9	2,564	9	4,284	9	8,426

YEAR	CORPORATE MEMBERS	STUDENT MEMBERS	GRAND TOTAL
1920	8,388	1,920	10,308
1	8,879	1,326	10,205
2	8,805	1,328	9,413
3	7,813	1,315	9,128
4	7,555	1,263	8,818
1925	7,569	1,157	8,726
6	7,385	1,131	8,516
7	7,434	1,004	8,438
8	7,488	1,000	8,488
9	7,823	1,033	8,856
1930	7,831	1,162	8,993
1	7,843	1,131	8,974
2	7,685	975	8,660
3	7,155	672	7,827
4	6,887	628	7,515
1935	6,916	1,006	7,922
6	7,326	1,620	8,946
7	8,279	2,147	10,426
8	9,005	2,898	11,903
9	9,614	3,760	13,374

YEAR	CORPORATE MEMBERS	STUDENT MEMBERS	TRAND TOTAL
1940	10,828	4,171	14,999
1	11,334	4,179	15,513
2	11,675	3,489	15,164
3	12,081	2,707	14,788
4	12,334	1,497	13,831
1945	12,910	1,088	13,998
6	14,119	1,737	15,856
7	15,000	3,117	18,117
8	15,580	4,069	19,649
9	16,315	4,952	21,267
1950	17,082	4,534	21,616
1	17,482	2,229	19,711
2	18,643	1,964	20,607
3	19,718	2,195	21,913
4	21,816	2,179	23,995
1955	23,723	2,825	26,548
6	26,298	3,415	29,713
7	28,823	3,974	32,797
8	30,553	3,757	34,310
9	33,378	2,332	35,710

YEAR	CORPORATE MEMBERS	STUDENT MEMBERS	GRAND TOTAL
1960	34,852	1,893	36,745
1	34,368	1,633	36,001
2	34,437	1,857	36,294
3	34,838	2,289	37,127
4	35,740	2,370	38,110
1965	36,878	2,561	39,439
6	38,912	2,706	41,618
7	40,278	3,183	43,461
8	42,015	3,437	45,488
9	43,300	3,438	46,738
1970	43,095	3,863	46,958
1	44,627	3,962	48,589
2	45,742	3,652	49,394

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.
MEMBERSHIP STATISTICS January 1, 1973

		SOCIETY OF MINING ENGINEERS OF AIME								THE METALLURGICAL SOCIETY OF AIME							SOCIETY OF PETROLEUM ENGINEERS OF AIME																
NO.	SECTION	Min. & Explor. A	M. P. D. B	Coal F	Ind. Min. H	Educ. J	Econ. K	Un-class	Total	Iron & Steel C	Extr. Met. D	Inst. of Met. E	Educ. J	Econ. K	Un-class	Total	Drilling & Well Complet. N	Educ. & Prof. O	Econ. & Eval. P	Form-Eval. R	Gas Tech. S	Geol. Eng. T	Manage-ment U	Prod. Oper. V	Reservoir Eng. W	Fl. Mech. &Oil Rec. Proc. X	OP & TECH Y	Educ. J	Econ. K	Un-class	Total	GRAND TOTAL	NO.
000	OUT OF SECTION	1,113	360	61	67	12	46	572	2,231	428	367	352	3	5	153	1,308	209	15	69	34	23	28	128	153	253	31	11		1	527	1,482	5,021	000
1	ALASKA	17	4	1	1	1		17	41															1						1	2	43	1
2	ARIZONA	832	212	10	22	16	15	288	1,395	15	74	30	1	1	31	152	3			2			5	5						11	26	1,573	2
3	BLACK HILLS	45	11		7	2	2	26	93	1	1	2			3	7	1													2	3	103	3
4	BOSTON	60	16	9	7	1	3	27	123	29	34	192	3	2	34	294		1	3		2	1	1	1	1	3			1	10	24	441	4
5	CARLSBAD	28	13	1	9			5	56	1		1			1	3	1													2	3	62	5
6	CENTRAL APPALACHIAN	60	10	261	19	3	3	109	465	18	7	21	2		12	60	3			2										1	6	531	6
7	CHICAGO	101	49	82	30	1	5	50	318	448	33	216	1	4	90	792	2		1					2	1		2				8	1,118	7
8	CLEVELAND	78	45	28	10	1	2	12	176	201	22	145	1		40	409														2	2	587	8
9	COLORADO	526	167	42	28	6	15	209	993	22	26	46			34	128	1							3	1					3	8	1,129	9
10	COLUMBIA	199	22	1	5	3	5	72	307	2	22	6	1		7	38							1							2	3	348	10
11	CONNECTICUT	17	7	2	3	1		9	39	29	20	158		4	24	235				1										5	6	280	11
12	DELTA	13	3		3			8	27	3	10	7			2	22	203	5	26	30	19	6	102	141	88	10	28		4	396	1,058	1,107	12
13	DETROIT	33	15	6	12	1	1	28	96	128	14	177	1		50	370	1	1						2						2	6	472	13
14	EAST TEXAS	9	4		1			1	15	8					1	9	70		8	8	2	2	27	60	16	4	1			68	266	290	14
15	EL PASO	47	15	2	2	1		23	90	1	30	13	1		13	58	1		2	2	2		3	1	12			1		14	38	186	15
16	GULF COAST	5	1	1	1			3	11		1	2			1	4	475	12	120	98	52	33	277	333	268	78	47			967	2,760	2,775	16
17	WICHITA PETROLEUM	10	3	5	2	1		7	28	2		6			2	10	22	2	4	3	2	4	8	18	10	4	1	1		38	117	155	17
18	LEHIGH VALLEY	64	42	17	16		3	25	167	62	25	67	1		24	179							1							2	3	349	18
19	MID CONTINENT							1	1			1				1	86	5	52	14	17	14	84	141	66	42	6			269	796	798	19
20	MINNESOTA	270	178	5	8	3	9	109	582	19	10	23	1		21	74	4		1			1	1		1	2				6	16	672	20
21	MONTANA	115	11	1	8	1		66	202		36	7			13	56														2	2	260	21
22	NORTHERN NEVADA	175	28		9	2	2	48	264		10	3			6	19	1														1	284	22
23	NEW YORK	505	155	27	63	7	91	171	1,019	133	203	399	5	28	117	885							2						2	4	8	1,912	23
24	NORTH TEXAS	1						2	3								36	1	2	9	1	1	15	32	9	4	2			72	184	184	24
25	NORTH PACIFIC	177	29	7	8	2	5	86	314	10	36	48		2	20	116	2						3	1		1	1			16	24	454	25
26	OHIO VALLEY	45	16	39	14	1	3	37	155	113	16	170		1	45	345	2							2						2	6	506	26
27	OKLAHOMA CITY										1	1				2	110	2	34	14	9	8	63	121	51	9	2			218	641	643	27
28	OREGON	71	12		9	2	2	21	117	8	30	27			16	81									1					3	4	202	28
29	PENN ANTHRACITE	38	5	97	4		1	12	157	7		11			2	20	1						1							2	4	181	29
30	PERMIAN BASIN	9	3	1	2			4	19	1	2				3	6	141	3	32	16	11	13	81	205	111	23	2			351	989	1,014	30
31	PHILADELPHIA	67	38	23	28	2	1	34	193	161	19	137	2		38	357	3				3	3	8	3	5	6				17	48	598	31
32	PITTSBURGH	135	63	301	26	4	6	159	694	647	93	348		5	123	1,216	2								1					5	8	1,918	32
33	ST. LOUIS	160	36	72	28	6	3	112	417	64	48	74	1	2	35	224					1			1							2	643	33
34	SAN FRANCISCO	437	246	10	42	3	23	135	896	3	6	3			6	18				1							1			4	6	920	34
35	ALABAMA	78	15	115	8		3	26	245	44	13	15			11	83	5					2	1				1			10	19	347	35
36	SO. CALIFORNIA	260	71	8	52	1	11	117	520	53	45	164		1	35	298														1	1	819	36
37	SOUTHWEST TEXAS	5	1					1	7		1					1	94	1	15	6	12	7	56	75	40	8	1	3		174	492	500	37
38	SOUTHWESTERN NEW MEXICO	88	25		1	1	2	26	143		4	1			5	10																153	38
39	TRI-STATE	32	3	11				6	52	1	4	2			1	8							2							3	5	65	39
40	UPPER PENINSULA	109	43		5	2	2	35	196	3	4	15			3	25							1							2	3	224	40
41	UTAH	332	81	16	13	4	10	130	586	9	50	17		1	32	109	2				1	1	2	4						11	21	716	41
42	WASHINGTON, D.C.	169	24	40	22	1	24	35	315	50	33	123		1	33	240			1										2	3	6	561	42
43	WYOMING PETROL							3	3								53	3	5	10	5	6	18	59	20	5	1			103	288	291	43
44	SPINDLETOP											2				2	20		2	6	1	2	7	35	2	3	4			66	148	150	44
45	FLORIDA	138	84	17	52	1	10	40	342	13	13	26		2	18	72	5	1			1		9	6	5					39	66	580	45
46	PHILIPPINES	65	14		1		3	11	94	2	6				5	13						1			1					2	4	111	46
47	MEXICO	135	27	2	3	2	10	23	202	27	12	3		1	3	46	7		1				7	2	15	5				16	53	301	47
48	SOUTHWESTERN ALASKA	33		3	3		1	14	54		1	1			1	3	41		5	3	1	6	14	40	15	3	3			46	177	234	48
49	WEST CENTRAL TEXAS	3						2	5	1						1	12		1	1	1	1	6	12	2	2				22	60	66	49
50	ADIRONDACK	52	16	2	10			8	88	5	5	18			10	38					1									1	2	128	50
51	LIMA, PERU	68	19	1	3		8	24	123		13					13	4		1					1	1		1			3	11	147	51
52	LOU-ARK	5	1					2	8	1		1				2	29	2	11	1	2	4	21	36	19	4				72	201	211	52
53	SOUTH PLAINS	2	1				1		4			1				1	11		1		1		9	15	8	2				26	73	78	53
54	FORT WORTH	4	2					2	8	2		2			1	5	30		14	3	2	1	23	23	11	3				67	177	190	54
55	DALLAS	23	3	1	3	1		11	42	3	4	10			4	21	115	3	76	22	10	15	82	104	131	43	6	3		337	947	1,010	55
56	MISSISSIPPI	3	2		2			3	10	2		2		1		5	25	2	2	5	1	3	10	19	5	2	2			68	144	159	56
57	COLORADO PLATEAU	143	17	5	2	2	4	23	196		2					2																198	57
58	ARKANSAS	32	7	1	4			10	54	1	4	6			2	13	5	1	1					1			1			3	12	79	58
59	SAN JOAQUIN VALLEY	14	2					4	20			3			1	4	54	2	12	4	2	13	27	53	28	13	1			77	286	310	59
60	CENTRAL NEW MEXICO	179	21	4	10		3	47	264		3	23			9	35	5		2			1		2	2					15	27	326	60
61	HOBBS PETROL			2	1			3	6								22	1	4	1	2	4	19	40	12	2		1		65	173	179	61
62	ANADARKO BASIN							1	1								22	1		2	4	3	9	13	3	1				26	84	85	62
63	PAN HANDLE							1	1	2						2	9		5	2	3		6	17	4	1				17	64	67	63
64	NIAGARA FRONTIER	10	11	3	4			9	37	104	28	76	1		19	228	1													3	4	269	64
65	DENVER PETROLEUM	3					1	1	5								105	2	23	21	13	14	71	103	61	27	1		3	270	714	719	65

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.
MEMBERSHIP STATISTICS January 1, 1973

		SOCIETY OF MINING ENGINEERS OF AIME								THE METALLURGICAL SOCIETY OF AIME							SOCIETY OF PETROLEUM ENGINEERS OF AIME																	
NO.	SECTION	Min. & Explor. A	M. P. D. B	Coal F	Ind. Min. H	Educ. J	Econ. K	Un-class	Total	Iron & Steel C	Extr. Met. D	Inst. of Met. E	Educ. J	Econ. K	Un-class	Total	Drilling & Well Complet. N	Educ. & Prof. O	Econ. & Eval. P	Form-Eval. R	Gas Tech. S	Geol. Eng. T	Manage-ment U	Prod. Oper. V	Reservoir Eng. W	Fl. Mech. &Oil Rec. Proc. X	OP & TECH Y	Educ. J	Econ. K	Un-class	Total	GRAND TOTAL	NO.
66	BILLINGS PETROLEUM							1	1		1					1	12	1	1	2	1	3	2	10	7	1				35	75	77	66
67	NEW YORK PETROLEUM							3	3	1						1	17	3	44	14		7	45	16	19	5			1	141	312	316	67
68	ILLINOIS BASIN PETROLEUM							1	1		2					2	22	1	3	4	2	7	15	33	21	8				70	186	189	68
69	LOS ANGELES BASIN	1	2					2	5	2		1				3	139	2	37	19	13	14	104	118	84	50	17	2	3	325	927	935	69
70	E. VENEZUELA PETROLEUM	8			1			1	10	1		1				2	3	1		1			3	2	3					6	19	31	70
71	EVANGELINE	3			6			6	15								183	9	9	18	2	1	48	97	34	8	10		1	218	638	653	71
72	W. VENEZUELA PETROLEUM	2	1		1				4								20		7	6	2	2	8	19	16	1				41	122	126	72
73	GREAT BEND	1			1				2	1						1	15				1		9	22	2					8	57	60	73
74	UPPER MISSISSIPPI VALLEY	18	1					10	29						2	2							1	1							2	33	74
75	SOUTH EASTERN UTAH	27	6		2			7	42																							42	75
76	CARACAS PETROLEUM	12	2		2		1	9	26	2		1				3	7	1	8	2		2	11	4	25	1				40	101	130	76
77	FOUR CORNERS PETROLEUM																20		1		3		6	14	2					30	76	76	77
78	CALIFORNIA COASTAL	1							1								38	1	7	6	2	3	9	31	13	5	5	1		46	167	168	78
79																																	79
80	SNYDER	1							1								9		2				7	10	1					16	45	46	80
81																																	81
82																																	82
83	WYOMING MIN & MTLS	111	11	10	11	1	2	30	176			2				2																178	83
84	BALCONES	1			1			1	3								22	2	11	7	1	7	11	23	10	4	1			74	173	176	84
85	HUDSON-MOHAWK	19	6	2	5		3	7	42	15	5	95	1		30	146			1			1	2		1					7	12	200	85
86	WILLISTON BASIN																12	1		1	1	1	3	8	5	3				13	48	48	86
87	SAUDI ARABIA	2						1	3								11	.		2		2	6	7	7	3				27	65	68	87
88	APPALACHIAN PETROLEUM	1							1								31		2	2	2	1	10	5	8	1				33	95	96	88
89	NORTHERN OKLAHOMA																9	2		7	2		4	9	4	13	2			24	76	76	89
90	UTAH COAL	2	2	29				2	35																					1	1	36	90
91	NORTH W. VIRGINIA	1						2	3			1				1	30	1	2	3	3	3	9	1	6	4				16	78	82	91
92	CAROLINAS	62	29	4	29	3	3	28	158	9	11	37			11	68	1					2								10	13	239	92
93	WISCONSIN	41	46	3	5	1	1	18	115	19	4	42			17	82			1	1			1							1	4	201	93
94	NETHERLANDS	9	2					3	14	5	7	5			1	18	28	4	4		5	3	22	14	9	3	7		2	38	139	171	94
95	EAST TENNESSEE	82	12	15	7			28	144	11	15	37	1		9	73				1			1		1					1	4	221	95
96	COASTAL BEND																42			1	3		14	28	6			1		36	131	131	96
97	VIRGINIA	19	5	12	2			11	49	3	9	28			7	47	1						1							3	5	101	97
98																																	98
99	TEXAS COAST MIN-MET	131	25	2	25		5	48	236	27	19	37	1		18	102	2					1	1	1	1					5	11	349	99
100	UINTAH BASIN							1	1								18	1	2	2			4	11	1	1				14	54	55	100
101	NORTHERN PLAINS	1			1				2		1					1	4		.4	1	10	1	3	4	10				1	17	55	58	101
102	BARTLESVILLE										1					1	2	1	6	5	4	1	6	12	15	14				30	96	97	102
103	EAST KENTUCKY																21		1		2	2	2	5	2	2		1		14	52	52	103
104	BIG HORN BASIN	1							1								15		2	3			7	18	6	5				16	72	73	104
105	OHIO PETROLEUM		1					1	2								42	1	4	4	3	4	12	22	8	3	1		3	54	161	163	105
106	CHICAGO PETROLEUM	1							1								13		3		1	3	19	8	4	1	1			29	82	83	106
107	AMARILLO	2	1	1	1			2	7		7	1				8	23		7	2	1	8	5	15	15					32	108	123	107
108	TEXAS PECOS PETROL																12		1	4			6	10	4	2				17	56	56	108
109	MIDWEST GAS STORAGE	1							1								60			4	12	1	12	12	13	2				24	140	141	109
110	GEORGIA	43	13	3	21			7	87	14	2	12	1	2	5	36			1	1			1		1						4	127	110
111	INDIA	12	8	8	3		1	8	40	12	9	8			12	41									3					5	8	89	111
112	SNAKE RIVER	35	11	1	10		3	11	71	2	2	7			6	17							1								1	89	112
113	GOLDEN GATE PETROLEUM	1							1		1					1	18		12	8	1	3	19	9	14	12	2			74	172	174	113
114	INTER MOUNTAIN	41	7	1	1			18	68		1	2			1	4																72	114
115	SO. LOUISIANA PETROLEUM							1	1								46	2	1	8	1	1	20	30	10	3	7			68	197	198	115
116	ITALIAN	7	3					6	16	9	3	1			2	15	1	1		1			2	1	4	3				4	17	48	116
117	COLOMBIAN	10			1		1	3	15	3	1				1	5	12	1		1		1	9	10	6	1				19	60	80	117
118	SOUTHERN NEVADA	58	8		8			18	92	1	6	6			2	15	8				1	1	6	1	1					5	23	130	118
119	PITTSBURG PETROLEUM																31	4	7	3	3	4	17	19	12	10		2	1	92	205	205	119
120	NATIONAL CAPITAL PETROLEUM																8	4	24	5	10	3	16	6	13	4	4		1	48	146	146	120
121	EASTERN NEVADA	39	13		3	1	3	8	67		4					4																71	121
122	NO. CALIF. METALLURGICAL		1					6	7	35	38	127		1	32	233																240	122
123	PENN - OHIO	11		6	1			5	23	119	6	40	1		20	186						1	1							1	3	212	123
124	MIDWEST COAL	22	8	62	3			21	116	7	1	6			3	17																133	124
125	OKLAHOMA MET. & MIN.	49	7	9	4		2	23	94	5	16	15			3	39																133	125
126	SOUTHWESTERN WYOMING	12	1	7	3			8	31		1					1																32	126
127	CENTRAL INDIANA									8	2	23			3	36																36	127
128	LONDON PETROLEUM							1	1			1				1	60	2	8	10	5	6	57	30	36	4	12			68	298	300	128
129	MICHIGAN							1	1			1				1	38		5	5	8	7	15	18	16	4	1			13	130	132	129
130																																	130
131	BOLIVIA																1			1				1						1	4	4	131
	TOTAL	8,348	2,541	1,518	851	104	364	3,474	17,200	3,198	1,616	3,741	30	64	1,345	9,994	3,163	112	764	486	312	305	1,804	2,601	1,759	522	196	16	26	6,482	18,548	45,742	
	STUDENTS								1,129							1,785															738	3,652	
	TOTAL MEMBERSHIP								18,329							11,779															19,286	49,394	

CLASSIFICATION OF MEMBERS

AIME - THREE YEAR TALLY

	1970	1971	1972	SME	TMS	SPE
Honorary Members	21	31	34	12	9	13
Members	28,948	29,867	30,240	11,398	6,487	12,355
Associates	7,342	7,640	8,178	3,054	1,959	3,165
Juniors	6,784	7,089	7,290	2,736	1,539	3,015
Total	43,095	44,627	45,742	17,200	9,994	18,548
Student Members	3,863	3,962	3,652	1,129	1,785	738
GRAND TOTAL	46,958	48,589	49,394	18,329	11,779	19,286

MEMBERSHIP GAINS 1972

New applications, reinstatements, change of status, and student applications.	4,110	1,587	530	1,993

MEMBERSHIP LOSSES 1972

Deaths, resignations, drops and unaccepted.	3,264	1,058	1,172	1,034

1972 NET MEMBERSHIP GAINS (LOSSES)

Figures are valid for calendar year 1972.	846	529	(642)	959

DISTRIBUTION OF MEMBERS IN SOCIETIES DURING LAST DECADE AS APPROXIMATE PERCENTAGE

DECEMBER	SME %	TMS %	SPE %
1960	35.6	24.1	40.3
1961	35.3	25.4	39.3
1962	34.5	26.7	38.8
1963	33.6	28.0	38.4
1964	33.0	29.1	37.9
1965	32.2	29.5	38.3
1966	32.9	29.6	37.5
1967	33.7	29.2	37.1
1968	33.7	29.1	37.2
1969	33.7	29.1	37.2
1970	34.0	29.0	37.0
1971	35.4	26.9	37.7
1972	36.7	25.6	37.7

REPORT

of the

MEETINGS DEPARTMENT

General

The AIME Meetings Department had a highly successful year in 1972 with the 101st Annual Meeting and the first Rapid Excavation and Tunneling Conference, attracting significantly more attendees than budgeted. The Meetings Manager continues to report to the AIME Executive Director for the Annual Meeting which is now the only meeting administered by the AIME Headquarters. The RETC administration, effective 1973, has been transferred to SME-AIME.

Personnel

The position of AIME Meetings Manager is held by Mr. Alexander R. Scott who was supported by temporary secretarial assistance during 1972. Mr. Scott also served as SME-AIME Assistant Executive Secretary from December, 1971 through July, 1972 when he became Assistant Executive Secretary for TMS-AIME, a position he continues to hold.

With his appointment to TMS-AIME he resigned as Conference Manager for the RETC, effective October 21, 1972.

101st Annual Meeting

February 20-24, 1972 San Francisco, California

Headquarters hotels were the San Francisco Hilton, St. Francis and Fairmont. The Convention Bureau handled the housing which also included the Sir Francis Drake and Mark Hopkins hotels.

The Host Section Annual Meeting Committee under the Chairmanship of Fritz Kruger did a commendable job in support of the AIME Staff and added "San Francisco flavor" in its truest sense to the meeting.

Registration:

AIME Members	2156
Non-Members	360
Authors	151
Students	156
WAAIME	687
TOTAL	3510

% of Attendance		
SME	-	72%
TMS	-	24%
SPE	-	4%

Guest Rooms Utilized: 1,945

Financial Statement:

REVENUE	
Mtg. Reg.	$ 98,839.00
Social Functions	41,413.00
TOTAL REVENUE	$140,252.00

EXPENSES	
General	$ 65,769.00
Social	37,793.00
Committee	15,033.00
TOTAL EXPENSES	$118,595.00

Revenue over Expenses: $21,657.00

102nd Annual Meeting

February 25 - March 1, 1973 Chicago, Illinois

The Conrad Hilton Hotel will serve as Headquarters for the Annual Meeting with additional housing and meetings in the Sheraton-Blackstone and Pick Congress hotels.

The Host Section Committees were organized in March, 1972 under the Chairmanship of John P. Weir. The initial briefing of Committee duties and responsibilities was conducted in April, and a second meeting was held in November, 1972.

The meeting will again feature some 500 technical papers within 100 sessions. The SME-AIME and TMS-AIME are conducting short courses prior to the meeting under the auspices of their Continuing Education Committees.

A special highlight of the 102nd Annual Meeting will be the 2nd International Hydrometallurgy Symposium to be held in conjunction with the Annual Meeting. It will feature 43 papers in 8 sessions.

The Advance Mailer was mailed during the first week of November, and returns are now being processed.

Publicity for the Meeting was produced by the Meetings Manager with students from Columbia Graduate School of Journalism. This included five press releases and copy for the Advance Mailer.

Future Annual Meetings

The AIME Board of Directors has confirmed the following sites:

1974 Dallas, Texas	1977 New Orleans, Louisiana
1975 New York, New York	1978 Denver, Colorado
1976 Las Vegas, Nevada	1979 New York, New York

Investigation of Los Angeles, Anaheim and San Francisco is underway for 1980 or 1981.

Rapid Excavation and Tunneling Conference

June 5-7, 1972 Chicago, Illinois

The first RETC was held at the Palmer House under the joint sponsorship of ASCE and AIME with CIM and EIC as cooperating societies.

The program contained some 85 papers within 16 technical sessions plus film showings. The Exhibit contained 32 Booths representing 23 companies.

Registration

AIME	
SME-AIME	182
TMS-AIME	1
SPE-AIME	9
ASCE	326
CIM	22
EIC	40
Non-Member Author	38
Non-Members	310
Students	15
Exhibitors	84
Guests	26
Ladies	53
TOTAL	1,106

A total of some 23 countries were represented.

A two-volume Conference Proceedings including all paper has been published with sales very brisk - more than 900 have been sold to date.

Financial Summary

Income	$65,906.50
Expenses	52,696.55
Surplus	$13,209.95*

* Figures do not include proceeding expenses or income.

The success of the first RETC has led to the scheduling for the next three as follows:

1974 - San Francisco
1976 - Las Vegas
1978 - Atlanta

It is expected that the RETC will grow in its role as the major international forum for rapid excavation and tunneling technology.

Summation

The new budgeting system and distribution of income from the Annual Meeting has now provided a means to establish a strong financial back-up for the meeting. The new policy of allocating $1.00 per male registrant to the Host Section also establishes a stable estimate of income for the Host Section to plan their budget. The Annual Meeting continues to be a major forum of the minerals field and our efforts will continue to keep and expand its present role.

Respectfully submitted,

Alexander R. Scott

Alexander R. Scott

REPORT

of the

WESTERN FIELD SECRETARY

To provide a geographically appropriate agency for communication, liaison and coordination among the widespread Western Sections, Subsections and Student Chapters, the Institute maintains a Western Field Office at 808 Newhouse Building, Salt Lake City, Utah. This office is staffed by the Western Field Secretary, Clifford J. Hicks, and his secretary, Evelyn K. Burke. It is the intent of the office to offer the manifold services of AIME to western mining and metallurgical society members with a maximum of personal contact and individual attention. So that the functions of the office could be carried out in this spirit during 1972, visits--some multiple, as indicated below by number--were made to 19 different Sections and Subsections and 13 major conferences, plus AIME and Society Boards of Directors' meetings and meetings of Regional Councils of Section Delegates.

Sections and Subsections Visited During 1972 by C. J. Hicks

Arkansas Section, Little Rock, Arkansas
Bisbee-Douglas Subsection (Arizona Section), Naco, Arizona
Central New Mexico Section, Cuba, New Mexico
Colorado Section, Denver, Colorado
Eastern Nevada Section, Ely, Nevada
Maricopa Subsection (Arizona Section), Phoenix, Arizona
Morenci Subsection (Arizona Section), Morenci, Arizona
Northeastern Nevada Subsection (Northern Nevada Section), Carlin, Nevada
Northern California Metallurgical Section, Palo Alto, California
Northern Nevada Section, Reno, Nevada
Southeastern Utah Section, Moab, Utah
Southeast Missouri Subsection (St. Louis Section), Viburnum, Missouri
Southern California Section (Mining Branch), Los Angeles, California
Southern Nevada Section, Las Vegas, Nevada
Southwestern New Mexico Section, Silver City, New Mexico
Tri-State Section, Joplin, Missouri
Tucson Subsection (Arizona Section), Tucson, Arizona
Utah Coal Section, Price, Utah
Utah Section, Salt Lake City, Utah (6)

Major Meetings and Conferences Attended by C. J. Hicks in 1972

75th National Western Mining Conference and Exhibition, Denver, Colo.
University of Utah sponsored seminar on Mine Finance, Salt Lake City, Utah
101st AIME Annual Meeting, San Francisco, California
Pacific Southwest Mineral Industry Conference, Las Vegas, Nevada
Annual Meeting of the MPD Subsection (Colorado Section), Colorado Springs, Colorado
Sixteenth Annual Minerals Symposium, Grand Junction, Colorado

Annual Convention of the Wyoming Mining Association, Grand Teton National Park, Wyoming
Eighth Annual Intermountain Minerals Conference, Vail, Colorado
Convention of the American Mining Congress, San Francisco, California
Fall Meeting of SME-AIME, Birmingham, Alabama
20th Annual Joint Engineering Management Conference, Atlanta, Georgia
78th Annual Convention of the Northwest Mining Association, Spokane, Washington
Annual Meeting of the Arizona Section, Tucson, Arizona

Some meetings and conferences attended by the Western Field Secretary were written up in a form suitable for publication and submitted, together with appropriate, captioned photographs, to the Editorial Director of Mining Engineering.

Conference Assistance

The Western Field Office directly assisted in the planning and conduct of eight major mineral conferences held during 1972 and acted in an advisory capacity for several others.

Staff assistance in the following 1973 meetings is being, or will be, supplied by the Western Field Office:

January 15	Annual Meeting of the Minnesota Section, Duluth, Minnesota
Feb. 25-March 1	Annual Meeting of AIME, Chicago, Illinois
April 12-14	Pacific Northwest Metals and Minerals Conference, North Shore Motor Hotel, Coeur d'Alene, Idaho. Sponsor: Columbia Section, AIME
April 25-27	Pacific Southwest Mineral Industry Conference, Del Webb's TowneHouse, Phoenix, Arizona. Sponsor: Maricopa Subsection (Arizona Section)
Mid-May	Annual Meeting of MPD Subsection (Colorado Section), Broadmoor Hotel, Colorado Springs, Colo.
August 2-4 ?	Intermountain Minerals Conference, Manor Vail, Vail, Colorado. Sponsor: Intermountain Section, AIME
September 19-21	SME-AIME Fall Meeting and Materials Handling Conference, Pittsburgh Civic Arena and Exhibit Hall, Pittsburgh, Pennsylvania

Reports

A comprehensive report of the activities and plans of the Western Field Office was submitted, monthly, to the Director of Administration of AIME with copies to four Assistant Secretaries.

Official Section Visits

The Western Field Office is responsible for the administration of the Official Section Visits Program wherein AIME, SME and TMS officers and directors are invited to attend meetings of their assigned mining and metals Sections and Student Chapters during the Institute year. There were 49 visits to Sections and Subsections. Fifteen Student Chapters were visited during the year. Acceptances were received for 23 assignments, and 43 Chapters remained "open" or without a scheduled visit.

Student Summer Employment

A program designed to help students of minerals engineering obtain summer employment was again administered by this office. Numerous companies actively engaged in mining, metallurgical and petroleum operations were contacted and requested to consider offering summer employment to students of minerals engineering. A total of 12 companies responded positively with over 123 job openings. Ninety-eight Faculty Sponsors of Student Chapters and other appropriate individuals were supplied, simultaneously, with the necessary information regarding the openings so that interested students might make application directly to the employers.

The 1972 response by industry to this program is considerably less than that of previous years. This is probably a result of the general increase of unemployment in the industry. Indications are that this trend may be reversed in 1973.

1972 Henry Krumb Lecture Series

The 1972 AIME Krumb Lecturers were Hubert E. Risser, Alexander Sutulov and David Swan. The Western Field Office acted as coordinating agency between the lecturers and the AIME Sections and Subsections at which their lectures were given. Eighteen lectures were presented to various Sections during the year.

Rossiter W. Raymond Award and Alfred Noble Prize

The Rossiter W. Raymond Award Committee, chaired by W. O. Brown, Cameron Iron Works, Houston, Texas, reviewed the papers forwarded by this office in October and selected:

1. For the Raymond Award -

   A. Richard Sinclair, SPE
   "Heat Transfer Effects in Deep Well Fracturing"

2. For the Noble Prize Award consideration:

   K. D. Sheffler, TMS
   "Interactions Between Creep, Fatigue, and Strain-Aging in Two Refractory Metal Alloys"

Information concerning the Noble Prize Award was forwarded to the AIME representative on this Committee, Dr. John J. Gilman, for further action.

SERVICE TO SECTIONS

Fifty copies of the July, 1972 AIME Long-Range Calendar of Meetings were mailed to the chairmen of all western non-petroleum oriented Sections and Subsections. Also included in the mailing was a copy of a speakers list compiled by the Tucson Subsection of the Arizona Section.

Respectfully submitted,

CLIFFORD J. HICKS

Western Field Secretary, AIME

REPORT

of the

Executive Secretary
Society of Mining Engineers of AIME

1972 was a successful year for the Society of Mining Engineers of AIME. The Society grew in size, activity, forged closer ties with Local Sections and finished the year within budget - if net income from the Fall Meeting, response to the appeal for member contributions and reimbursement for staff time put into Institute activities be taken into account.

Figure 1 presents total annual income and shows how income compares with the trend over the same period.

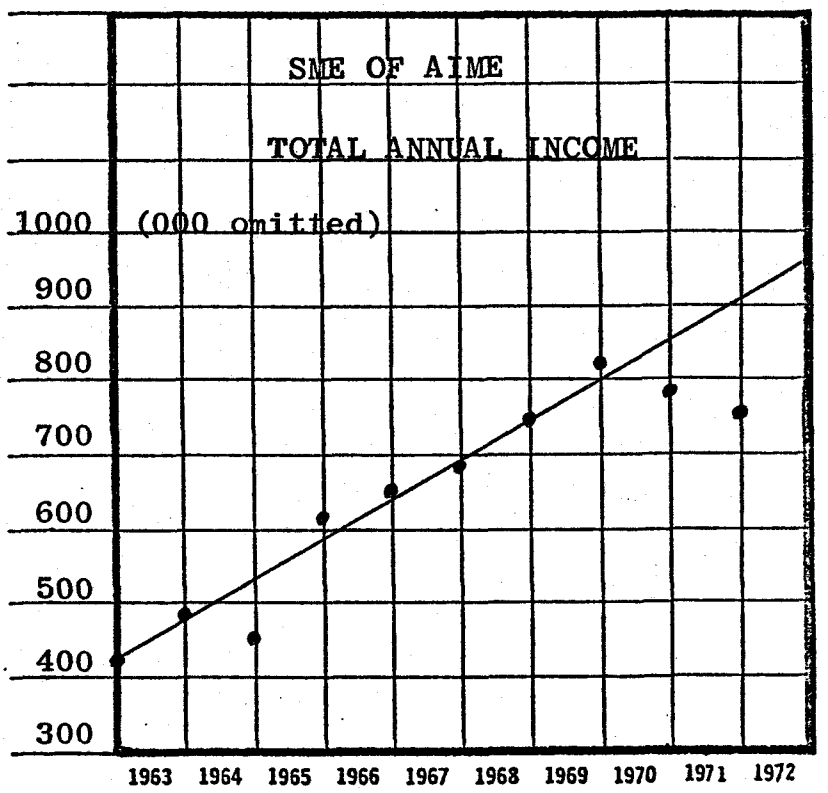
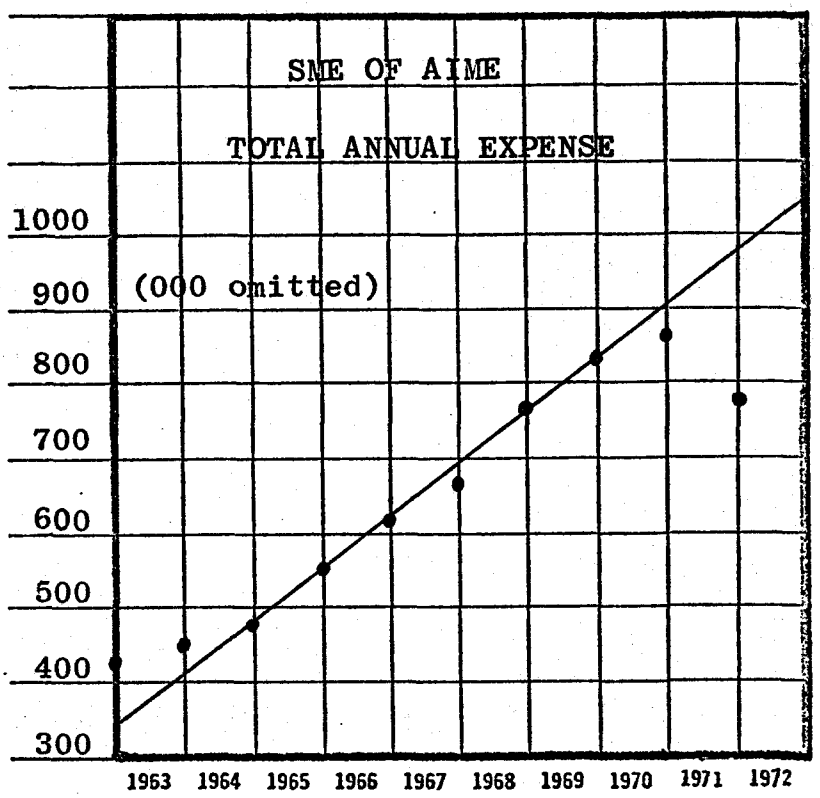


Figure 2 depicts total Annual Expense for the period 1963-1972 and compares this with the expense trend for the period.

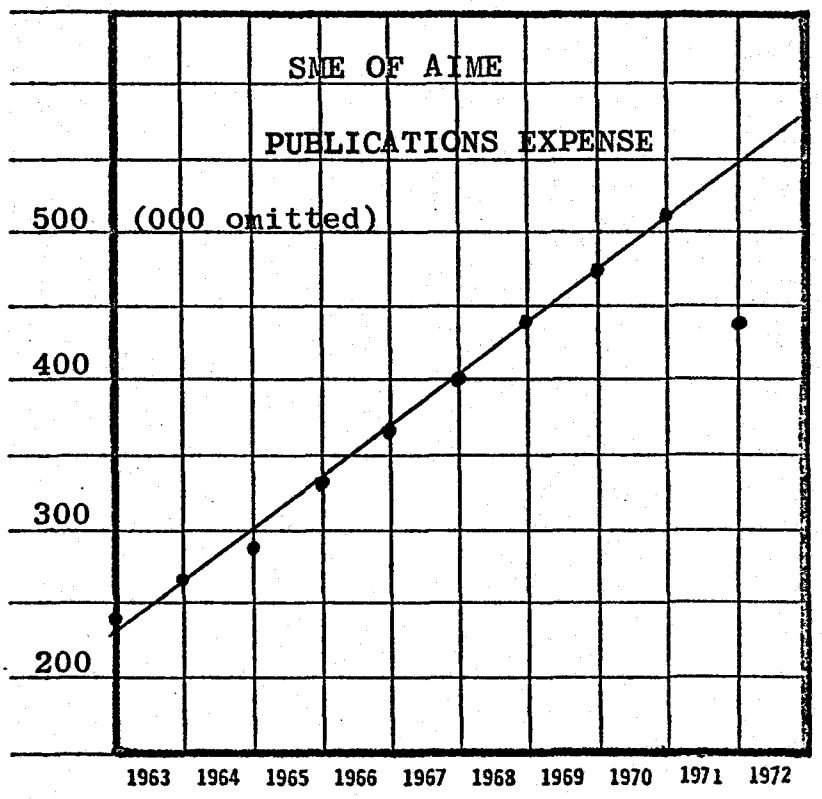


Frugality in operation and careful examination of each expenditure that made continued operation possible will no longer suffice. It became necessary, therefore, to raise dues, starting January 1, 1973 50% for Members, Associate Members, Junior Members A and Junior Members B. Dues for Student Members have been held constant. Most other Societies have raised dues several times during the past 20 years. AIME has not - hence the large increase at this time. It is expected that continued inflation will necessitate another dues increase within the next ten years. However, a careful watch on finances is recommended and a periodic realistic appraisal of the need for an increase in dues should help to keep future advances at a lower level.

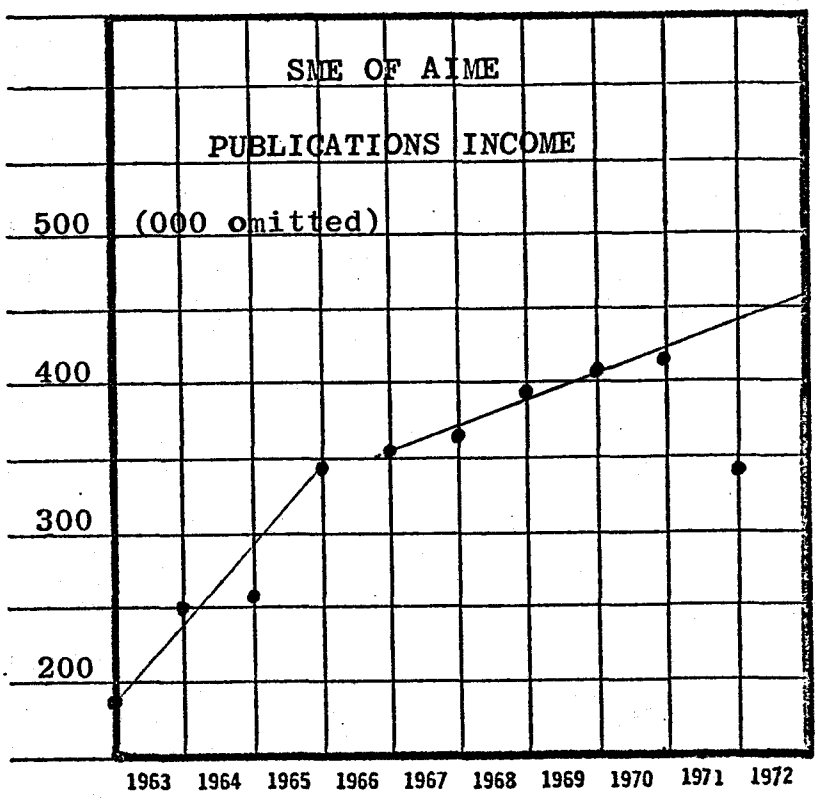
PUBLICATIONS

During 1972 Publications Income fell from its 1971 All-Time high of $410,900 to $347,976. The drop was due mostly to a drop in advertising income from $325,911 to $271,275. Strenuous retrenchment efforts made it possible to cut the net cost per member from $7.45 in 1971 to $5.60 in 1972. Retrenchment was achieved through careful scrutiny of every expenditure and the increased productivity of the staff.

The dramatic result of this retrenchment is evident in the chart below.



The decline in advertising revenue was expected as a result of major changes in the Sales staff in 1971 and 1972. It takes from 6 months to two years for a new salesman to become thoroughly familiar with his territory and clients. In 1973 Advertising sales should resume their upward trend.



MINING ENGINEERING

As part of the retrenchment program Editorial Pages in MINING ENGINEERING were reduced to 1040 from 1102 in 1971. A major editorial coup was the October issue on Energy. Two of the 11 articles were staff written. The other nine were contributed by leading authorities in their fields.

Other special issues were the January issue review of Industrial Minerals in 1971, the February Annual Review issue and the Annual Society Roster in July.

Experimentally - and to save money - company names were omitted from the geographical section of the 1972 Directory. There were fewer complaints about incorrect listings than usual. On the other hand, there were a number of strong objections to the omission of company names.

In 1973 the roster again will list members in the geographical index alphabetically by company and with job titles, where available.

Transactions

Notable improvement in Transactions Review time marked 1972. These were achieved by placing papers into review soon after receipt, quicker more positive follow up of slow papers and bypassing of reviewers who prove themselves slow to act.

The Table on the next page shows the disposition of the 250 papers papers considered by the Review Committee during 1972.

Specialized issues of Transactions Quarterly were discontinued because accumulation of papers on one subject delayed publication of papers accepted early in the year. It was found difficult, by some special interest groups, to generate enough papers, of sufficiently high quality, in time to produce a special issue of the Quarterly.

Books

In 1972, The Society of Mining Engineers of AIME published:

"Basic and Applied Rock Mechanics", proceedings of the 10th Symposium, K.C. Gray, ed., June 1972, 861 pages, hard cover, illustrated.

"SME/AIME Cumulative Index, 1936-1968", compiled by Winifred D. White, June 1972, 99 pages, hard cover.

"1972 RETC Proceedings", K. S. Lane and L. A. Garfield, editors, 2 volumes, November 1972, 1664 pages, hard cover, illustrated.

"Geotechnical Practice for Stability in Open Pit Mining", C. O. Brawner, V. Milligan, editors, December 1972, 274 pages, hard cover, illustrated.

In addition the SME Book Department completed reprinting 4000 copies of Surface Mining for the Seeley W. Mudd Fund.

In June the AIME Board of Directors voted to allocate $3000 from the Rocky Mountain Club Fund to help offset the estimated deficit between income and expense of the 10th Rock Mechanics Symposium Proceedings. Due to circumstances beyond our control, the book was finally published four years after the meeting, at a higher cost than originally estimated and with a resulting loss of sales.

Currently, the Book Department is working on:

"Mining Engineering Handbook", A. B. Cummins and I. A. Given, editors, estimated to be 2200-2400 pages; publication Summer 1973 (see note to follow).

"Elements of Practical Coal Mining", S. M. Cassidy, editor, estimated 450 pages, hard cover, illustrated, publication date, Spring 1973.

"1973 International Hydrometallurgy Symposium, R. S. Shoemaker, D. J. I. Evans, editors, 1184 pages, hard cover, illustrated.

"Economics of the Mineral Industries", W. A. Vogely, editor, estimated 1000 pages, publication 1973.

Note: The Editors, Editorial Board, and SME Staff had been pushing to finalize the "Mining Engineering Handbook" so that finished books would be available in the Spring of 1973. However, Mr. Given's sudden death on October 1, 1972, has delayed production somewhat. Bruce and Jennifer Kennedy of Vancouver, Canada, have taken on the task of indexing the Handbook.

A Flyer listing all current and future SME and SME-related AIME books was sent to the SME Membership in June with the annual President's letter to members. As a result of this flyer, book sales were brisk all summer, with a noticeable increase in the fall. This flyer was the first official announcement of the "Mining Engineering Handbook". Sales of the latter have been averaging over 140 copies a month.

Miscellaneous

Member services under the management of the Publications Department - namely Preprints and Employment service continued to be well patronized. The Preprint Department produced 183 papers during the year.

In a period when many engineers, geologists and managers were seeking employment the members made good use of the Employment Service.

On the two days immediately preceeding the 1972 AIME Annual Meeting the SME Committee on Continuing Education presented a short course entitled "Financial Analysis in Mining".

On the two days before the SME Fall Meeting in Birmingham the Committee presented a short course in "Approaches to More Profitable Mining Ventures".

Both short courses were very well received and there is a continued demand for course materials and papers.

A Recapitulation of 1972 Committees Actions
on
Technical Papers
January 10, 1973

	AS	A	AM	AO	AG	AR	AU	B	F	FM	H	I ** Geol.	Geol. Engrg.	J	K	L Geochem.	L Geophysics
Returned for Authors(s) revision & Consideration of comments	1	-	1	-	1	-	1	10	2	1	1	-	1	-	-	3	1
In review or pending Committee action 1	1	-	3	3	-	3	-	19	7	1	12	4	1	1	1	-	-
Withdrawn Declined	2	-	-	2	-	3	-	41	18	1	12	4	1	-	4	1	1
Accepted awaiting publication 2	2	-	2	1	1	-	4	23	6	-	3	2	-	-	-	1	1
Published in ME	2	-	-	2	-	1	-	6	4	-	3	1	-	-	1	-	-
Published in TRANS.	-	-	1	1	1	-	1	5	2	-	-	-	-	1	-	-	2
Published in ME & TRANS.	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
TOTALS	8	-	7	9	3	7	6	104	40	3	31	11	3	2	6	5	5

Total Papers 250

1) We have received a number of Recommendations on these papers since January 10. The papers pending can also include consideration for ME.

2) Most of these papers are scheduled for the March & June 1973 quarterlies.

A-Mining
AM-Rock Mechanics (mining)
AO-Open Pit
AS-Solution Mining
AR-Operations Research
AU-Underground
AG-Hydrology
B-Minerals Beneficiation

F-Coal
FM-Rock Mechanics (coal)
H-Industrial Mineral
I-Geol., Geol. Engrg
J-Education
K-Economics

PUBLICATIONS

Financial Statistics

	1968	1969	1970	1971	1972
Pub. Expense	400,778	452,598	477,750	534,800	447,962
Pub. Income	346,426	395,296	409,150	410,900	347,976
Difference	(54,352)	(57,302)	(68,600)	(123,900)	(99,986)
Net Cost/Member	3.75	3.71	4.24	7.45	5.60
Ad. Income	290,875	334,180	342,284	325,911	271,278

	1968	1969	1970	1971	1972
ME Edit	937	1,061	1,462	1,102	1,040
ME Ad.	626	641	572	538	452
Trans. Pages	562	474	354	380	464
Papers Preprinted	176	159	196	195	183
Ad % Pub. Income	84	84.5	83.7	85	78
Ad % Pub. Expense	72.6	73.8	71.6	60.9	60.6

Membership Development

Membership in the Society continued to grow in 1972. On January 1, 1973 the total membership stood at 18,329 up 490 from last year.

First of the tables on the following pages shows how this membership is distributed among the Divisions of the Society. The second table illustrates how the members are distributed according to grades.

The third table illustrates how a gain of 1,587 corporate members became a net gain of 529 corporate members. The reduction in student members is offset by the establishment of new student sections in Venezuela at the Universidad de Oriente, Ciudad Bolivar, Venezuela and University of South Florida, Tampa, Florida.

In addition to new student chapters new AIME Sections and subsections, predominantly mining in membership, are in various stages of organization throughout the country. These are good signs and point to further growth of the Society.

It was during the past year (1972) that all the predominantly mining sections (49) of the Institute were turned over for administration to the Executive Secretary of the Society, in his role as Assistant Executive Director of AIME for Mining. The Society has since taken steps to see that the ties between the Society and the sections entrusted to its care are strengthened.

SME MEMBERSHIP

AS OF	M & E	COAL	IndMD	MPD	EDUC.	ECON.	STUD.	UNCLASS	TOTAL MEMBERS	MEMBERS
1/1/1966	6,361	1,342	657	1,971	80	226	574	1,688	12,899	12,325
1/1/1967	NA	NA	NA	NA	NA	NA	966	NA	14,711	13,745
1/1/1968	7,074	1,377	776	2,284	83	273	773	1,849	14,489	13,716
1/1/1969	7,423	1,435	793	2,384	86	300	1,005	2,001	15,427	14,422
1/1/1970	7,782	1,436	795	2,416	90	301	995	2,360	16,175	15,180
1/1/1971	8,035	1,413	811	2,448	95	321	864	2,655	16,642	15,778
1/1/1972	8,288	1,501	838	2,538	99	348	1,170	3,059	17,841	16,671
1/1/1973	8,348	1,518	851	2,541	104	364	1,129	3,474	18,329	17,200

SME MEMBERSHIP

AS OF	TOTAL MEMBERS	CORP. MEMBERS	MEMBERS	ASSOC.	JUNIORS	STUDENTS
1/1/1966	12,899	12,325				
1/1/1967	14,711	13,745	10,010	2,153	1,582	966
1/1/1968	14,489	13,716	9,892	2,214	1,610	773
1/1/1969	15,427	14,422	10,763	2,449	1,786	1,372
1/1/1970	16,175	15,180	11,089	2,583	2,141	1,330
1/1/1971	16,642	15,778	11,503	2,753	2,305	1,653
1/1/1972	17,841	16,671	11,343	2,840	2,488	1,170
1/1/1973	18,329	17,200	11,410	3,054	2,736	1,129

SME MEMBERSHIP

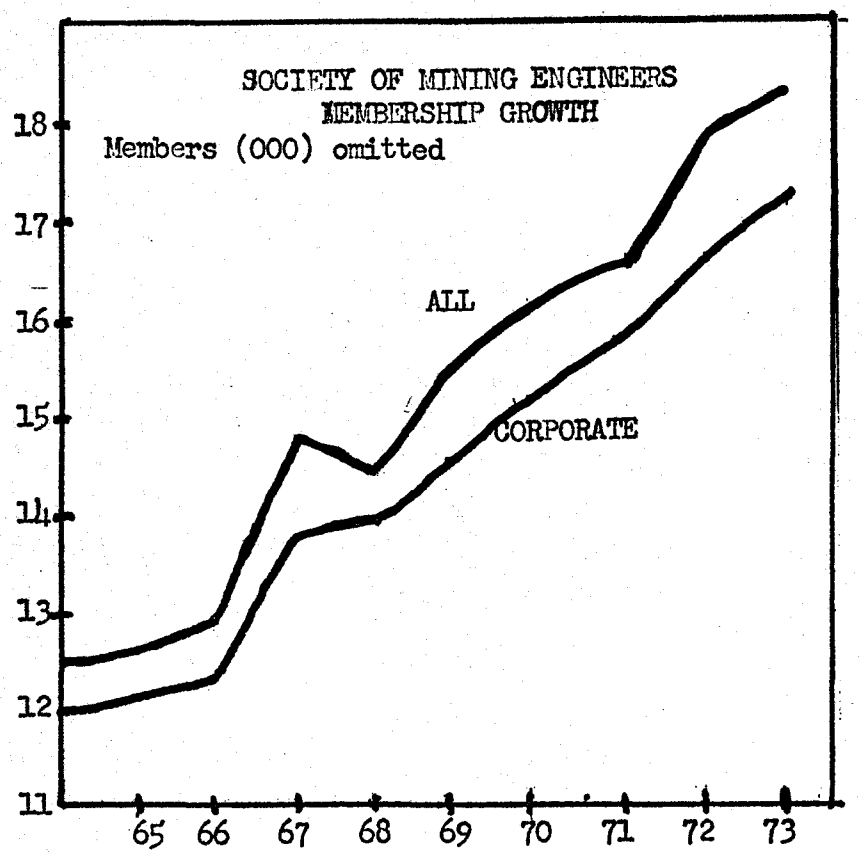
Losses 1972

Deaths	175
Resignations	212
Drops	612
Unaccepted	56
Total	1,058

Gains 1972	1,587
Net Gain	529
Corp. Members 1/1/72	16,671
Corp. Members 1/1/73	17,200
Students 1/1/73	1,129
Total 1/1/73	18,329

In response to a suggestion of the Council of Section Delegates the Society Board stated that it was ready to change its Bylaws to provide direct representation on its Board of Directors for a representative of the Council of Section Delegates-provided the other two constituent societies of AIME indicated their willingness to do likewise. No further action has been taken in this direction pending a report on the Council of Section Delegates by an AIME Ad Hoc Committee.

SME Membership growth over the past ten years. The difference between All Members and Corporate Members is Student Members. Corporate membership growth has been fairly steady. It is fluctuation in the numbers of Student Members that contributes heavily to the variations in growth rate.



MEETINGS

Attendance at meetings, Annual, Fall and Coal Division Spring Field, is shown below.

SME Meetings Attendance

YEAR	ANNUAL	FALL	COAL DIV. SPRING MEETING
1965	1,299	527	49
1966	1,572	1,257	220
1967	1,577	1,325	211
1968	1,923	1,181	414
1969	1,598	2,313	632
1970	3,096	1,893	183
1971	1,996	837	n.a.
1972	1,581	762	102

The Fall Meeting attendance was off from previous years, presumably as the result of economic conditions and remote locations.

SME Members not only took part in the meetings tabulated above but also in the Offshore Technology Conference and the first Rapid Excavation Tunneling Conference at which they had an attendance of 1,052.

The 1972 SME Fall Meeting was an unqualified success even though, or perhaps because, the attendance was relatively small. It produced a net excess of income over expense of $7,144.

The Society received, as its share of the proceeds of the 1972 Offshore Technology Conference the sum of $19,372.

Proceeds of the Rapid Excavation and Tunneling Conference were used to repay loans of $10,000 each plus interest at 5% to AIME and to the American Society of Civil Engineers. This left approximately $10,000 in the RETC Operating Fund to finance the next conference in 1974. SME of AIME was reimbursed for the services of our staff in managing the conference.

1972 STAFF TRAVEL

January	Minnesota Section Annual Meeting, Duluth, Minn.	JVB
	Interview-Advertising Salesman, Chicago, Ill.	JVB
	Interview-President R.M.Grogan, Wilmington, Dela.	JVB
February	Host Section, Meeting, Birmingham, Ala.	JCF, RO
	Colorado Section Meeting, Denver, Colo.	JCF
	AIME Annual Meeting, San Francisco, Cal.	JCF, JVB, MS, LED, RO, ARS, RS, VD
April	CIM Meeting, Ottawa, Canada	JVB
	AIME Southwest Minerals Conference, Las Vegas, Nev.	RS
	10th International Computer Symposium, Johannesburg, So. Africa	JCF
May	OTC Meeting, Houston, Texas	JCF, LED, RO
	AMC Coal Show, Cleveland, Ohio	JVB, RO, RS
	MMIJ-AIME Meeting, Tokyo, Japan	LED
June	NCA Meeting, Washington, D.C.	JVB
	Rapid Excavation & Tunneling Conference, Chicago, Ill.	JCF, ARS, MS, RO
July	SME Executive Committee Meeting, Denver, Colo.	JCF
	Visit to Milwaukee Section for '75 Fall Mtg.	RO
August	International Geological Congress, Montreal, Quebec	JVB, LED, RO

September	Council of Section Delegates Meeting, San Francisco, Ca.	JCF
	AMC Western Mining Meeting, San Francisco,Ca.	JCF, JVB
	Lehigh Valley Section Meeting, Cornwall,Pa.	JCF, JVB
	Final visit to Birmingham before Fall Meeting	RO
	Visit to Pittsburgh Section for '73 Fall Mtg.	RO
October	Port City Press, Baltimore, Md.	MS
	SME Fall Meeting, Birmingham, Ala.	JCF, JVB, MS, LED, RO, AR, KC, RS
	Editorial, Copperhill, Tenn.	JVB
	Sun City, Arizona (MEH)	MS
	USBM Meeting (Open House) Pittsburgh, Pa.	RS
November	Pittsburgh Off-the-Record Meeting, Pittsburgh, Pa.	JCF, RS
	RETC Program Meeting, Denver, Colo.	JCF
	NUCC Meeting, Denver, Colo.	JCF
	Interview-R. H. Merrill, Denver, Colo.	JCF
	Wisconsin Section Meeting, Milwaukee, Wis.	JCF
	GSA Meeting, Minneapolis, Minn.	RO
December	Columbia Section, Spokane, Wash.	JVB
	Arizona Section, Tucson, Ariz.	JCF, JVB

JCF - John Cameron Fox
JVB - John V. Beall
LED - Lillian E. Donaldson
MS - Marianne Snedeker
ARS - Alexander R. Scott
RO - Ruth Orologio
AR - Alice Ruiz
RS - Robert Sisselman
KC - Karen Christie

Robert Peele Award

James A. Bratt
Bernard A. Fahm
Bruce A. Kennedy
Karl E. Niermeyer

SME Best Presentation Award

Frank F. Aplan
Randall E. Brown
Eric S. Cheney
Garth A. Duell

AIME Legion of Honor

(50 Years of Continuous Membership)

Of the 34 AIME Members who were made Members of the AIME Legion of Honor last year 18 were members of the Society of Mining Engineers of AIME.

They were:

Ernest O. Blades
Arthur B. Campbell
Harold H. Christy
Thomas C. Denton
Joseph N. Gregory
Jesse C. Johnson
John E. Lamar
William C. McCulloch
William C. McKenzie
Russell S. Mitchell
Lanfear B. Norrie
Edwin N. Pennebaker
Darwin J. Pope
Roel Faustino
William W. Staley
Frank H. Storms
Edward R. Weidlein
William J. Wright

HONORS & AWARDS

The following honors and awards were presented to SME of AIME members during 1972:

Installed as Honorary Members of AIME

Charles M. Brinckerhoff
Arthur B. Cummins
Antoine M. Gaudin
Robert P. Koenig
Sir Ian M. McLennan

William Lawrence Saunders Gold Medal

Stanley M. Jarrett

Charles F. Rand Memorial Medal

Plato Malozemoff

Erskine Ramsay Medal

James R. Cudworth

Robert H. Richards Award

Harlow Hardinge

Hal Williams Hardinge Award

Fredrick C. Kruger

Robert Earll McConnell Award

Emil E. Malouf

Percy Nicholls Award

George E. Keller (Posthumously)

Mineral Economics Award

John D. Ridge

Daniel C. Jackling Award

John B. Knaebel

Howard N. Eavenson Award

Edwin R. Phelps

Staff Organization and Acknowledgements

No report on 1972 would be complete without acknowledgement of the part played by the paid staff in Society operations.

In the Executive Secretary's Office Mmes. Donaldson, Orologio and Ruiz carried out their usual duties plus the additional tasks imposed by the delegation of Section and Student Chapter affairs to the Society as well as the acceptance of the Society of the management of the Rapid Excavation and Tunneling Conference .

Mrs. Orologio worked with Alex Scott on both the AIME Annual Meeting and the North American Rapid Excavation and Tunneling Conference. She managed the SME Fall Meeting in Birmingham on her own.

Since Mr. Scott became Assistant Executive Secretary of The Metallurgical Society of AIME, she has taken on the full load of managing SME Conventions.

The Publications Staff has been relatively stable and as mentioned elsewhere increased productivity markedly through taking on duties and displaying artistic and editorial talents hither to unused. John Beall is to be commended for bringing out these talents in Robert P. Sisselman, Vera J. Dailey, Karen Christie and Teresa Marcolini.

Miss Marianne Snedeker bore a tremendous burden almost single handed and deserves the thanks of every member for the outstanding book publishing accomplishments of her department . Her secretary for more than two years, Mrs. Patricia Zuber, left to have a baby. Her place is now ably filled by Miss Linda Pecorelli.

No replacement has been found as yet for Mr. Alex Scott. The tasks he performed for SME are being ably performed by Ms. L. E. Donaldson and R. M. Orologio.

Last but by no means least acknowledgement is made here of the help and cooperation of the AIME Staff - Mr. Alford and his associates as well as the AIME Officers and Directors.

Since this is my last Annual Review I'd like to take this opportunity to thank, not only the present SME Officers, Directors and Committeemen, but also all those who have held office since 1957 - about 7560 of them. Almost without exception they have tried their utmost. Without them the Society would never have moved. Together I think we can look back on fifteen years of accomplishment. There have been setbacks but if there had been no setbacks there would have been no progress. If we made mistakes, we profited from them.

Respectfully submitted,

John C. Fox

John Cameron Fox

REPORT

of the

EXECUTIVE SECRETARY OF THE METALLURGICAL SOCIETY OF AIME

for 1972

After a 1971 which was reported as a bad year, The Metallurgical Society ends 1972 with an air of optimism and a sense of momentum.

The financial situation seems to be stabilizing -- dues have been increased and early receipts for 1973 indicate good member acceptance. Advertising sales of the Journal of Metals are meeting the most optimistic of estimates and non-member subscriptions are contributing more than anticipated as the financial performance of the magazine begins to catch up to the editorial improvements. Metallurgical Transactions is expected to finish the year in the black for the first time since the joint venture was formed.

Publications activities are more flexible as arrangements with Plenum Press have been reinstated and specializing printers identified to allow the advantages of such specialization. Improved plans for production control, marketing, and distribution are being developed.

Membership, which has been declining for the past few years, is stabilizing and shows responsiveness to developmental efforts. Growth is expected.

A preliminary program of Section and Student Chapter support has been developed and is operating as the services of the Society continue to expand.

The Society Business Office is established and operating. The benefits of decentralization are becoming more apparent as procedures are being adapted to the specific needs of the TMS operating elements.

The report of last year expressed concern over fragmentation being on the increase with "splinter groups" within the Society seeking differing levels and directions. These factions are now seen more positively.

The year closes with studies being developed to determine the direction(s) most beneficial to and desired by the members who collectively form The Metallurgical Society -- but who separate into a number of operating activities to pursue a diversity of technical interests.

FINANCES

TMS-AIME RECAP

ACTUAL FISCAL YEAR 1972 COMPARED TO BUDGET

REVENUE:

Journal of Metals up from $109,500 to $124,741	+	$15,241
Other.....down from $338,935 to $312,364	-	$26,571
Total.....down from $448,435 to $437,105	-	$11,330

EXPENSES:

Journal of Metals down from $190,760 to $190,516	-	$ 244
Other.....down from $365,744 to $336,193	-	$29,551
Total.....down from $556,504 to $526,709	-	$29,795

DEFICIT:

Journal of Metals down from $81,260 to $65,775	-	$15,485
Other.....down from $26,809 to $23,829	-	$ 2,980
Total.....down from $108,069 to $89,604	-	$18,465

SCHEDULE OF TMS-AIME CONFERENCES FOR 1973 AND 1974

1973

January 24	15th Mechanical Working and Steel Processing Conference, Holiday Inn at Greentree, Pittsburgh, Pennsylvania
February 25 - March 1	102nd AIME Annual Meeting, Conrad Hilton, Sheraton-Blackstone and Pick Congress Hotels, Chicago, Illinois
April 9 - 11	56th National Open Hearth and Basic Oxygen Steel Conference and 32nd Ironmaking Conference, Sheraton-Cleveland Hotel, Cleveland, Ohio
April 29 - May 2	5th Annual Offshore Technology Conference, Astrohall, Astroworld Hotel, Houston, Texas
May 29 - June 1	TMS Spring Meeting, University of Pennsylvania, Philadelphia, Pennsylvania
August 27 - 29	Electronic Materials Conference, Stardust Hotel, Las Vegas, Nevada
October 1 - 4	TMS Fall Meeting, with ASM Metal Show and Materials Engineering Congress, McCormick Place, Chicago, Illinois
December 5 - 7	31st Electric Furnace Conference, Netherland Hilton Hotel, Cincinnati, Ohio

1974

January	16th Mechanical Working and Steel Processing Conference, Chicago, Illinois
February 23 - 28	103rd AIME Annual Meeting, Statler-Hilton, Fairmont, Dallas Sheraton and Adolphus Hotels, Dallas, Texas
April 28 - May 1	57th National Open Hearth and Basic Oxygen Steel Conference and 33rd Ironmaking Conference, Chalfonte-Haddon Hall, Atlantic City, New Jersey
May 5 - 8	6th Annual Offshore Technology Conference, Astrohall, Astroworld Hotel, Houston, Texas
May 13 - 16	TMS Spring Meeting, University of Pittsburgh, Pittsburgh, Pennsylvania

TECHNICAL CONFERENCES

The Metallurgical Society of AIME, through its Divisions, sponsored or co-sponsored eleven technical conferences during 1972.

Conference	Attendance	Number of Technical Sessions	Number of Papers Scheduled
14th Mechanical Working and Steel Processing Conference The Palmer House, Chicago, Illinois, January 19, 1972	123	5	16
101st AIME Annual Meeting St. Francis Hotel, San Francisco, California February 20-24, 1972	503	45	246
55th National Open Hearth & Basic Oxygen Steel Conference The Palmer House, Chicago, Illinois, April 10-12, 1972	1012	7	28
31st Ironmaking Conference The Palmer House, Chicago, Illinois, April 10-12, 1972	536	10	42
4th Annual Offshore Technology Conference, Astrohall, Astroworld, Houston, Texas, May 1-3, 1972	*	*	*
2nd International Conference on Titanium, M. I. T., Cambridge, Massachusetts, May 2-5, 1972	355	14	188
TMS-AIME Spring Meeting Sheraton Boston Hotel, Boston, Massachusetts, May 8-11, 1972	616	57	429
14th Electronic Materials Conference, Sheraton Boston Hotel, Boston, Massachusetts August 28-30, 1972	151	5	40
TMS-AIME Superalloys Conference Seven Springs Mountain Resort, Champion, Pennsylvania September 17-20, 1972	225	5	28

Conference	Attendance	Number of Technical Sessions	Number of Papers Scheduled
TMS-AIME Fall Meeting Statler Hilton Hotel, Cleveland, Ohio October 16-19, 1972	**	19	85
30th Electric Furnace Conference, Palmer House, Chicago, Illinois December 6-8, 1972	1043	10	44

* TMS-AIME programming was minimal -- the Board of Directors is aware of this and is taking steps to improve TMS-AIME programming activities for future meetings.

** No breakdown of TMS-AIME attendees is available for this conference which was a joint venture with American Society for Metals.

MEMBERSHIP DEVELOPMENT

Membership development for 1972 was characterized by a thorough investigation and evaluation of existing recruitment practices and programs. The TMS-AIME Membership Committee was extremely active in its direction of membership development within the three divisions and also in establishing an overall TMS-AIME membership development program.

The Fall of 1972 saw the beginning of the development of new membership promotional literature. This included new application forms, a TMS-AIME fact booklet, and a publications booklist. The Non-Member Conference Registrant Membership Campaign was begun with the 1972 Electric Furnace Conference -- this program consists of an active membership drive at the Conference itself with a three (3) mailing follow-up to all non-members.

A Local Section Membership Contest is now under review by TMS-AIME staff. The Contest is proposed to be conducted at the Section level with individual awards and an incentive program. Monthly results would be announced in Journal of Metals, and awards would be presented at the respective Division Conferences.

Procedural guidelines for the Membership Committee responsible for membership development recruitment at TMS-AIME conferences has been updated and will be incorporated into the new TMS-AIME Membership Development Manual, which should be completed by mid-1973. This manual will approach the membership development policies and procedures at all levels of the Society -- Division, Committee, Local Section, etc. It should prove to be an impetus for improved membership development programs for 1973.

TMS-AIME MEMBERSHIP STATISTICS 1972

	Members	Associates	Juniors	Students	Total
January	6670	1893	1819	2029	12421
February	6615	1865	1819	1693	11892
March	6684	1881	1852	2098	12515
April	6677	1868	1859	2159	12563
May	6679	1863	1858	1804	12204
June	6745	1899	1885	1833	12362
July	6745	1900	1885	1887	12417
August	6773	1918	1898	1930	12519
September	6777	1921	1909	1956	12563
October	6774	1920	1909	1969	12572
November	6757	1891	1928	1909	12485

TMS-AIME CORPORATE MEMBER GAIN 1972

	EMD	IMD	ISD	Unclassified	Total
January	7	14	28	72	121
February		No Election			
March	9	11	22	21	63
April	16	39	126	10	191
May		No Election			
June	10	15	30	6	61
July		No Election			
August	11	14	5	3	33
September		No Election			
October	29	15	17	0	61
November		No Election			
December		No Election			

JOURNAL OF METALS

For the fiscal year ending November 30, 1972, the Journal of Metals published 822 pages (covers included). The page content was made up as follows:

Staff-written articles	142 pages
Papers from IMD Division	70 pages
Papers from ISD Division	130 pages
Papers from EMD Division	83 pages
Advertising, including classified	103 pages
House advertisements, paper selection, preprints and books	59 pages
There were seven conference programs which utilized..... (including housing and registration forms)	64 pages

The conference programs presented were:

14th Mechanical Working and Steel Processing Conference

101st AIME Annual Meeting

31st Ironmaking Conference

55th National Open Hearth and Basic Oxygen Steel Conference

TMS Spring Meeting

Second International Super Alloys Symposium

TMS/ASM Fall Meeting

30th Electric Furnace Conference

The balance of editorial pages was made up with contributed articles based on current trends, i.e., energy crisis, ecology and environment, and Society news, i.e., metals profession, call for papers, coming events, book reviews, etc.

JOURNAL OF METALS ADVERTISING

A comparison of advertising results for the years 1971 and 1972 reveals the following:

1971	1972
75 display advertising pages	103 display advertising pages
Net Billing $27,000	Net Billing $73,600 *

* Reduced to $69,790 by a $5,810 contingency for bad debt

The target for 1973 is a Net Billing of $115,000. This should constitute approximately 115 pages. Projections are:

March issue.....NOH&BOSC/Ironmaking.....35 pages

April issue.....Instrumentation.....10 pages

July issue.....Directory issue.....15 pages

November issue.....Electric Furnace.....30 pages

This projection leaves a balance of only 25 pages unsold for the eight remaining issues of 1973.

METALLURGICAL TRANSACTIONS

In comparison with its previous two years of operation, total items and pages were down slightly in 1972 but much less than had been anticipated. In 1972, subscription prices were raised from $10 to $20 for members, and from $30 to $60 for non-members. Prices for the Bound Volume were also raised from $20 to $30 for members, and from $50 to $60 for non-members. 1972 also saw an increase in page charges from $55 to $60 per page. An operating surplus of $8,800 is estimated for 1972, and a surplus of $27,000 is projected for 1973.

In 1972, the first Distinguished Lecture in Materials and Society was published (Volume 3, pp. 758-68). The lecturer was Dr. Harvey Brooks and the title of his lecture was "Materials in a Steady State World."

The policy of using SI Units was adopted in 1972 (Volume 3, pp. 355-58).

Statistics

Technical Papers Published in 1972

	Number of TPs	Pages	Total Pages
EMD	34	199.0	
ISD	26	217.0	
IMD and ASM	311	2409.0	
Total TPs Published	371	2825.0	2825.0

Communications Published in 1972

	Number of Comms.	Pages	Total Pages
EMD	4	7.0	
ISD	6	10.5	
IMD and ASM	94	183.5	
Total Comms. Published	104	201.0	201.0

Title Pages	12.0
Table of Contents, Author Instructions, etc.	40.0
Blank Numbered Pages	190.0
Total Numbered Pages in 1972 Metallurgical Transactions	3268.0 *

* An Index of 48 pages is not included in these figures

In accordance with objectives declared before the merger was approved by both Societies, the publication is intended to serve the needs of the entire metallurgical profession. Thus, Society distinctions are eliminated throughout both the review and publication process. Consequently, the divisional listings in the tabular data represent the distribution of effort in the Board of Review and not the source of papers.

ABSTRACT BULLETINS

During 1972, two Abstract Bulletins were published by The Metallurgical Society of AIME:

	Abstracts	Pages	Sessions
The Metallurgical Society			
Spring Meeting Abstracts	429	132	57
Conference sponsored by the Institute of Metals Division of TMS-AIME			
AIME Annual Meeting - TMS Portion only	246	87	45
TMS portion of program sponsored by the Extractive Metallurgy Division of TMS-AIME			

PAPER SELECTION

While the main purpose in offering TMS-AIME Paper Selection is to enable an individual author's paper to achieve as wide a distribution as possible, we have taken a major step forward in the distribution of these Paper Selections to interested parties.

Never before in the history of The Metallurgical Society of AIME has the demand for authors' papers been so great. The Paper Selection Program has made people aware that not only do individual authors' papers exist, but they are readily obtainable from the Society. In addition to meeting the demand, we have solved the problem of supplying Society members, as well as other interested parties, with simplified ordering procedures, sincere Society interest and prompt order fulfillment.

A redesigned, simplified ordering form has been introduced within the Journal of Metals for the selection of papers. New methods of order receiving and processing have been devised, made operational, and have resulted in increased order fulfillment. Also operational is a new facility for the storage of papers.

Combining all these factors with the concern of the staff in fulfilling all Paper Selection orders makes us very optimistic that the Paper Selection Program will become an even more useful tool in the exchange of information.

PROCEEDINGS VOLUMES

Below is a list of conference and symposium proceedings volumes published by The Metallurgical Society of AIME during 1972.

29th Electric Furnace Conference Proceedings - December, 1971, Royal York Hotel, Toronto, Canada -- 35 papers - 300 pages

31st Ironmaking Conference Proceedings - April, 1972, The Palmer House, Chicago, Illinois -- 40 papers - 500 pages

55th National Open Hearth and Basic Oxygen Steel Conference Proceedings - April, 1972, The Palmer House, Chicago, Illinois -- 25 papers - 360 pages

Environmental Control - January, 1972, The St. Francis Hotel, San Francisco, California -- 37 papers - 556 pages

Light Metals 1972 - January, 1972, The St. Francis Hotel, San Francisco, California -- 27 papers - 500 pages

Mechanical Working and Steel Processing Conference Proceedings - January, 1972, The Palmer House, Chicago, Illinois -- 23 papers - 458 pages

Magnetism in Alloys - May, 1972, The Sheraton Boston Hotel, Boston, Massachusetts -- 6 papers - 244 pages

Journal of Electronic Materials - published quarterly -- 33 papers - 507 pages

PROCEEDINGS ADVERTISING

Within the Iron and Steel Division of The Metallurgical Society of AIME the practice of selling advertising to help offset the cost of conference proceedings is employed by four of the five operating committees (the fifth committee not having an annual conference). Following are results of the four committees' efforts during 1972:

Conference	No. of Ads	Income
55th National Open Hearth and Basic Oxygen Steel Conference	35	$10,814.75
31st Ironmaking Conference	29	$ 7,155.75
29th Electric Furnace Conference	38	$ 8,553.94
* 14th Mechanical Working and Steel Processing Conference	3	$ 597.50

* This is the first year advertising has been sold in the Mechanical Working and Steel Processing Conference Proceedings

TECHNICAL INFORMATION EXCHANGE

Technical Information Exchange is an appropriate name for the small exhibit that is put on at two of the Iron and Steel Division's Conferences each year; the National Open Hearth and Basic Oxygen Steel Conference/ Ironmaking Conference, and the Electric Furnace Conference.

The purpose of the Technical Information Exchange program is to provide an opportunity for supplier companies who sell equipment to steel mills to purchase exhibit booth space at these conferences to display their products.

Each exhibit is held adjacent to the registration area at a conference thus promoting maximum interchange between conference attendees and representatives from the supplier companies demonstrating the equipment the attendees use every day in their jobs.

Results of the TIE programs held during 1972 are as follows:

Conference	Number of Exhibitors
55th National Open Hearth and Basic Oxygen Steel Conference/ 31st Ironmaking Conference	10
30th Electric Furnace Conference	13

HONORS AND AWARDS

Newly elected Fellows of The Metallurgical Society of AIME installed at the 1972 Annual Meeting in San Francisco, were:

John Convey
Robert I. Jaffee
Herbert H. Kellogg
Max W. Lightner
William D. Manly

TMS-AIME Board of Directors has elected the following members to the grade of Fellow in 1973:

John H. Frye, Jr.
William O. Philbrook
Raymond L. Smith

The following awards were presented by The Metallurgical Society of AIME during 1972:

Robert Lansing Hardy Gold Medal

John A. Herbst was the recipient of the Robert Lansing Hardy Gold Medal in recognition of his exceptional promise in the field of metallurgy. This award is given annually to a metallurgist who has not reached his thirtieth birthday before the end of the calendar year during which the selection is made.

Champion H. Mathewson Gold Medal

The Champion H. Mathewson Gold Medal was bestowed upon James C. M. Li for outstanding contributions both in the thermodynamics of stressed solids and in the theory of dislocation interactions in solids. Much of this work was published in Metallurgical Transactions during the period 1968-1971.

Robert W. Hunt Silver Medal Award

Laszlo Backer and Paul Remy Gosselin were selected for this award for the best original paper on iron and steel, "Continuous Casting: Its Metallurgical Aspects Relative to High Grade Alloy and Carbon Steels."

Extractive Metallurgy Division Science Award

This award was bestowed upon Krishnamurthi Natesan and William O. Philbrook for their series of three papers, "Mathematical Model for Temperature Variation with a Particle Undergoing Reaction with Application to Roasting of Zinc Sulfide"; "Oxidation Kinetic Studies of Zinc Sulfide Pellets"; and "Oxidation Kinetic Studies of Zinc Sulfide in a Fluidized Bed Reactor."

Extractive Metallurgy Division Technology Award

David Kinneberg and Martin E. Messner received this award for their paper, "Direct Converter Smelting at Utah Using Oxygen."

J. E. Johnson, Jr. Award

The J. E. Johnson, Jr. Award is given to encourage young men in creative work in the metallurgy or manufacture of pig iron. The recipient of this award must be under forty years of age when he completes the work that merits recognition. The 1972 recipient was Thomas M. Barnes for his work in the coking and blast furnace use of Illinois coal and the development of a computerized program for blast furnace burdening.

Frank B. McKune Award

This award is given for the best paper on open hearth or basic oxygen steelmaking written by an author or authors under 40 years of age. In 1972, it was presented to John W. Onuscheck and Ronald L. W. Holmes for their paper, "Oxy-Fuel Oil Practices and Performance for BOF Steelmaking."

Conference Award

This award is the "runner-up" to the Frank B. McKune Award and was presented in 1972 to Norman A. Robins and J. Marshall Rounsevell for their paper, "Effect of Dolomite Charge Weight, Hot Metal Analysis and Transfer Ladle Slag Skimming on Turndown Sulfur Content at Inland's No. 4 BOF Shop."

Charles H. Herty, Jr. Award

For the best paper presented at the 1971 National Open Hearth and Basic Oxygen Steel Conference, and published in the Conference Proceedings, this award was presented to D. W. Kern, R. J. Fradeneck, and P. D. Stelts. The paper title was "A Sensor-Lance for BOF Control."

John Chipman Award

Established in April, 1971, by the Process Technology Committee of the Iron and Steel Division, this award is to perpetuate the inspiration of John Chipman's outstanding contribution to the science of iron and steelmaking and his devotion to AIME. In 1972 the award was presented to John F. Elliott and Gordon E. Forward for their paper, "Formation of Silica and Silicate During Solidification of Iron-Silicon-Oxygen Alloys."

Ironmaking Conference Award

Given for the best paper presented at the 1971 Ironmaking Conference, the 1972 award went to Tadashi Kobayashi, Tsuneo Miyashita, and Gyoichi Suzuki for their paper "Decreasing the Coke Rate in Blast Furnace Operation."

Mechanical Working and Steel Processing Conference Highest Award

Established in 1971 by the Mechanical Working and Steel Processing Committee of the Iron and Steel Division, this award is given for the best paper presented at the previous year's conference and published in the proceedings. In 1972 the award was presented to Ian G. Thompson for his paper, "Investigations into the Influence of Defect Origins on the Characteristics of Surface Defects in Rod and Bar Mill Products."

Mechanical Working and Steel Processing Conference Meritorious Award

This award is a "runner-up" to the Mechanical Working and Steel Processing Conference Highest Award and in 1972 was presented to James A. Elias and Rollin E. Hook for their paper, "Interstitial Free Steels."

Charles W. Briggs Award

This award was formerly known as the Electric Furnace Conference Award, and is given for the best paper presented at the annual Electric Furnace Conference and published in the Proceedings. The 1972 award was given to John F. Elliott for his paper, "Metal-Refractory Reactions in Vacuum Processing of Steel and Superalloys." This was considered the best paper presented at the 1971 Conference.

Ironmaking Conference Award Honorable Mention

This is given for the best "runner-up" paper to the Ironmaking Conference Award paper, and in 1972 was awarded to G. E. Manning and F. E. Rower for their paper, "A Characterization of Air Pollutants from Sintering Plant Induced Draft Stacks." This paper was originally presented at the 1971 Conference.

Joseph Becker Award

This award is given for distinguished achivements in coal carbonization and was presented in 1972 to George W. Lee.

T. L. Joseph Award

The award is conferred for distinguished contributions to ironmaking operation, to a person who has significantly increased iron production or decreased the cost of doing so. The 1972 award was presented to William A. Haven.

LECTURES

1972 Extractive Metallurgy Division Lecture

Nickolas J. Themelis - "Techniques of Process Analysis in Extractive Metallurgy"

1972 Institute of Metals Division Lecture

Anthony Kelly - "Reinforcement of Structural Materials by Long Strong Fibres"

1972 Howe Memorial Lecture (Iron and Steel Division)

W. T. Lankford, Jr. - "Some Considerations of Strength and Ductility in the Continuous-Casting Process"

ACKNOWLEDGMENT

Appreciation is extended to all members, officers and directors of The Metallurgical Society -- for these are the people for whom the Society exists and through whom the Society functions.

Thanks is given to the Staff who enable the Society to function. These staff members by position are:

EXECUTIVE

Administrative Assistant	- Beryl J. Poulton

DIRECT MEMBER SERVICES

Assistant Executive Secretary, and Director of Member Services	- Alexander R. Scott
Secretary	- Rosanne Aufieri
Assistant Director of Member Services	- Frederick C. Motts
Secretary	- Sheila Koeppel
Assistant for Publicity and Publications	- Susan Osberg
Receptionist and Assistant for Section Matters	- Patricia Polak
Assistant for Member Processing and Records	- Madeleine Long

JOURNAL OF METALS

Editor	- Lawrence G. Kuhn
Managing Editor	- Otto T. Johnson
Advertising Sales Manager	- Richard T. McQuillen
Editorial Assistant	- Dorothy Rea
Editorial and Advertising Assistant	- Ann Breitbart

BUSINESS SERVICES

Manager	-	Howard R. Herman
Bookkeeper	-	Maria Escobar
Accounts Receivable Clerk	-	Elizabeth Herman
Publications Sales Clerk	-	Bertha Duffus

Respectfully submitted,

Claude L. Crowley
Executive Secretary

CLC:bp

REPORT

of the

EXECUTIVE SECRETARY OF THE SOCIETY OF PETROLEUM ENGINEERS OF AIME

During 1972, the Society of Petroleum Engineers of AIME experienced its largest membership growth in more than a decade, and continued to expand all of its activities both in the United States and abroad. One significant new program approved by the SPE Board in late 1972 was the publication of textbooks in various fields of petroleum engineering.

PUBLICATIONS

JOURNAL OF PETROLEUM TECHNOLOGY (JPT)
SOCIETY OF PETROLEUM ENGINEERS JOURNAL (SPEJ)

More than 450 manuscripts were handled by the SPE Publications Department during 1972. The Society's two editorial committees (General Editorial Committee and Transactions Editorial Committee) approved approximately 40 percent of these papers for publication in either JOURNAL OF PETROLEUM TECHNOLOGY or SOCIETY OF PETROLEUM ENGINEERS JOURNAL.

Publication figures for JOURNAL OF PETROLEUM TECHNOLOGY and SOCIETY OF PETROLEUM ENGINEERS JOURNAL are listed below.

	No. of Papers	No. of Pages
JOURNAL OF PETROLEUM TECHNOLOGY		
Forum	15	35
Technical and Professional Papers	93	654
Transactions	19	161
SOCIETY OF PETROLEUM ENGINEERS JOURNAL		
Forum	0	0
Technical and Professional Papers	26	208
Transactions	26	225

JPT is mailed to all members of the Society as part of their membership dues, and a $5.00 per year subscription fee is charged for SPEJ. Net circulation for JPT in 1972 was 19,900. Circulation for SPEJ was 4,000.

TRANSACTIONS VOLUME

Transactions Volume 253 will be published in May, 1973, and will contain approximately 488 pages. This compares with 586 pages for 1971, and 528 pages for 1970. Price for the Transactions Volume will be $7.50 ($6.25 if paid with member's dues).

SPE REPRINT SERIES

A new booklet -- Reprint Series No. 10: "Thermal Recovery Techniques" -- was published during 1972. Revised editions of several reprint volumes were being prepared at the close of the year.

MONOGRAPHS

No new Monographs were published during 1972. Volumes in various stages of preparation at the end of the year included:

Multiphase Flow in Pipe by James Brill and Kermit Brown
Profitability Criteria by Folkert Brons and Michael Silbergh
Cementing by Dwight Smith
Gas Well Performance by H. J. Ramey, Jr.
Acidizing by B. B. Williams, J. L. Gidley, and R. S. Schechter

Cumulative sales for the three existing Monographs at the end of 1972 were:

Pressure Buildup and Flow Tests in Wells (Vol. I, 1967):	12,200
Hydraulic Fracturing (Vol. II, 1970):	2,600
The Reservoir Engineering Aspects of Waterflooding (Vol. III, 1971):	3,600

SPE MEMBERSHIP DIRECTORY

The 1972-73 edition of the SPE Membership Directory contained 252 pages and included alphabetical, geographical, and company listings of all SPE members. Production costs for the directory totaled $15,942 and advertising income was $5,716. The SPE Membership Directory is published each summer and is mailed free of charge to all members who request it. A handling fee of 50¢ is charged for orders processed after June 1 each year.

PREPRINTS

Each year SPE members are provided with preprints of papers presented at the Society's Fall Meeting and at the various regional and special interest meetings held throughout the world. During 1972, a total of 204 preprints

containing some 2,200 pages were published for 12 regional and special interest meetings. An additional 169 papers, totaling 1,832 pages, were preprinted for the Fourth Annual Offshore Technology Conference. The preprint package for the 47th Annual Fall Meeting contained 142 papers and 1,728 pages.

MEMBERSHIP

Total membership for the Society at the end of 1972 reached 19,286 representing an increase of 959 members over the final 1971 total. Corporate membership for 1972 was 18,548 with 738 student members.

	1969	1970	1971	1972
SPE Membership	17,516	17,682	18,327	19,286
New Member/Reinstatement Applications Received*	1,199	1,188	1,240	1,523
Members Lost (resignations, deaths, dropped owing dues)	1,042	1,240	1,104	1,034

*Student applications and special reinstatements are not included in this figure.

MEETINGS

FALL MEETING, REGIONAL MEETINGS

SPE returned to San Antonio in 1972 to conduct its Annual Fall Meeting for the first time since 1954. The Society's 47th Annual Fall Meeting, which included a 170-paper technical program and a 147-booth exhibits display, attracted 4,627 registrants.

The Society also conducted 12 regional meetings during 1972, with combined attendance at these meetings reaching 4,957. A summary of the attendance and the number of papers presented at the 1972 SPE Regional Meetings is listed below.

City	Attendance	Number of Papers on Program
Denver, Colorado	479	20
Corpus Christi, Texas	165	8
Tulsa, Oklahoma	1,126	34
Baton Rouge, Louisiana	312	17
Amsterdam, The Netherlands	424	38
Omaha, Nebraska	151	20
Amarillo, Texas	750	20
Bakersfield, California	842	41
Columbus, Ohio	245	14
Hobbs, New Mexico	136	14
Lafayette, Louisiana	202	17
Los Angeles, California	125	13

DISTINGUISHED LECTURER PROGRAM

The Society's seven Distinguished Lecturers for 1971-72 presented more than 120 talks before 53 of SPE's domestic sections. In addition, one of the lecturers presented four talks to the Society's sections in Europe and the Middle East.

The Distinguished Lecturer Program is financed by the participating local sections, the AIME Henry L. Doherty Fund, and the SPE Activities Fund.

The 1971-72 SPE Distinguished Lecturers were:

F. F. Craig, Jr., Amoco International Oil Co.
Wayne E. Glenn, Continental Oil Co.
K. E. Gray, The University of Texas
C. H. Hinton, Consulting Services, Inc.
M. Mortada, Mortada International
Jan N. Pedersen, The Offshore Co.
Joseph E. Warren, Santa Fe International Corp.

CONTINUING EDUCATION PROGRAM

VIDEO-TAPE COURSES

"Production Operations Course II --- Well Diagnosis", the second in a series of seminar-type video-tape courses being produced by the Society, was completed late in 1972 and offered to SPE Local Sections. The 13-hour course on "Well Diagnosis" is the second in a series of 10 video-tape courses the Society is recording dealing with all phases of production operations.

During 1972 the Society's first video-tape course in production operations --- "Well Completions" --- was taken by 880 SPE members throughout the country. Late in 1972 plans were finalized for the production of the third course in the series --- "Well Stimulation" --- with the following SPE members agreeing to serve as instructors:

J. L. Gidley, Exxon Company, U.S.A.
D. E. Nierode, Esso Production Research Co.
C. R. Fast, Amoco Production Co.
John M. Tinsley, Halliburton Services

To date, the Society's other three video-tape courses on "Reservoir Engineering" and "Statistics" have been viewed by more than 1,500 SPE members throughout the world.

During 1972 the Society purchased some $6,000 worth of new video-tape equipment to upgrade the recording facilities at SPE Headquarters and to replace equipment lent to local sections. The equipment purchase was made with the assistance of a grant from the SPE Fund in Continuing Education.

The SPE Board approved two new guidelines for the Society's video-tape program for 1972:

(1) Local sections that do not require the loan of Society-owned equipment will be charged a reduced rate for all video-tape courses in the future; and

(2) All existing video-tape courses and all future courses recorded by the Society will be available to companies for leasing.

TRAVELING LECTURE SERIES

Two new courses on "Waterflooding" were added to the Society's Traveling Lecture Series during 1972. Instructors for the two courses are Herman Dykstra, staff engineer with Standard Oil Company of California, and Jerry D. Neil, a staff research engineer with Amoco Production Company. Since the creation of the Traveling Lecture Series in late 1970, approximately 547 students in 12 SPE Local Sections have completed these courses.

AWARDS

Albert G. Loomis, president of Loomis Laboratories in Berkeley, California, was awarded the AIME Anthony F. Lucas Gold Medal for 1972. Four SPE members --- Stuart E. Buckley, a consultant for Humble Oil & Refining Co., Dean A. McGee, chairman and chief executive officer of Kerr-McGee Corporation, Oklahoma City, Morris Muskat, a technical advisor to Gulf Oil Corporation in Florida, and Howard C. Pyle, a director of Reserve Oil & Gas Company, --- were all elected to Honorary Membership in the Institute in 1972.

The Society presented the following awards in 1972:

DeGolyer Distinguished Service Medal	Wayne E. Glenn, president of Continental Oil Company's Western Hemisphere Petroleum Div.
Lester C. Uren Award	John J. Arps, consultant
John Franklin Carll Award	Harold Vance, consultant
Cedric K. Ferguson Medal	Roy T. McLamore, president of Petroleum Technology Corporation
Distinguished Service Award	Claude R. Hocott, executive vice-president of Esso Production Research Co.

The Society, in 1972, again joined with the Petroleum Equipment Suppliers Association in awarding scholarships to undergraduate students pursuing degrees in petroleum engineering. The 1972 PESA Scholarship winners were: Robert F. Meredith, Jr., Louisiana State U.; Tommy M. Warren, U. of Alabama; and Jimmie S.H. Lee, U. of Oklahoma.

LOCAL SECTIONS

TECHNICAL INFORMATION COMMITTEES

Since the approval of the Technical Information Committee Program by the SPE Board in late 1970, more than a dozen SPE sections have formed local TIC's. In 1972 the SPE Board approved the creation of a Society Technical Information Committee to coordinate the efforts of local section TIC's and to encourage accurate reporting of matters related to the exploration, drilling and production of petroleum and natural gas.

NEW SECTIONS AND STUDENT CHAPTERS

One new section was added to the Society during 1972 and one sub-section attained full section status during the year. The Bolivian Section, with 12 charter members and 15 prospective members, officially became a part of the SPE organization in October, 1972. The Michigan Sub-Section of SPE officially became an SPE section in May, 1972, and the Colombia Student Chapter was formed late in the year.

SECTION VISITATION

SPE President M. Scott Kraemer, SPE President-Elect Gerald E. Sherrod, and members of the Society's Headquarters staff visited 32 domestic and two foreign sections during 1972. Officers from 58 of the Society's sections attended Regional Officers Conferences in 1972 where SPE staff members and officers and directors met to discuss Society operations.

MEMBER SERVICES

The transfer of all SPE member services from the AIME Headquarters in New York to the SPE Headquarters in Dallas was completed in late 1972. The SPE Headquarters office in Dallas assumed responsibility for all member services, including the processing and approval of all new members, the maintaining of SPE membership rolls, and the mailing and processing of annual dues bills. As a result of this transfer of responsibility, two new employees were added to the SPE staff during 1972.

FINANCE

The Society's consolidated income for 1972 totaled $1,171,027 representing an increase of $22,822 over the total for 1971. Income exceeded expenses by $80,194.

HEADQUARTERS STAFF

The Society's Headquarters staff consisted of the following persons as of December 31, 1972:

David L. Riley, Executive Secretary
Mrs. Corky Barth, Secretary

Dan K. Adamson, Assistant Executive Secretary and Publications Manager
Tom Sullivan, Associate Editor
Mrs. Sally Wiley, Assistant Editor
Miss Ann Gibson, Production Manager
Mrs. Mary Jane Ellis, Preprints and Special Publications
Mrs. Barbara Dray, Program Secretary
Miss Glenda Snow, Publications Secretary

Douglas L. Ducate, Activities Manager
Ed C. Hendrick, Advertising Sales Manager
Steve York, Exhibits Supervisor
Mrs. Karen Lee, Activities Secretary
Mrs. Carolyn Rickard, Advertising and Exhibits Secretary

Stan R. Houston, Public Relations Manager
Mrs. Frances Deuser, Public Relations Secretary

Richard C. Vilven, Member Services Manager
Miss Irene Heintschel, Senior Bookkeeper
Mrs. Francine Pouncey, Junior Bookkeeper
Mrs. Cathy Jones, Membership Secretary
Mrs. Dee Brint, Keypunch Operator
Miss Betty Lyons, Receptionist
M. C. Sirles, Mail Clerk and Printer

Respectfully submitted,

David L. Riley

David L. Riley
Executive Secretary

REPORT

of the

W.A.A.I.M.E.

During the year it was the privilege of the President of WAAIME to visit twelve sections. The accomplishments by these sections and all the other WAAIME sections is to be commended. A tremendous number of hours are spent to interest young people in the earth sciences; to locate and interview young men and women in need of financial aid to continue their studies in the earth sciences; to keep in contact with the students after the scholarship has been granted, during their schooling, and after graduation; to aid in areas of disaster and need; to contribute books and magazines to libraries; and to raise funds to support these numerous endeavors.

Engineers for Tomorrow were pleased with the enthusiastic response to the Curiosity Kits-Metals, and the Curiosity Kits-Minerals, which were started in 1971. These kits are geared for children from the 5th to 9th grades. To date over 350 Mineral Kits and 700 Metal Kits have been ordered. Of the latter, 500 were ordered to be distributed in all schools in Michigan. In 1973 we hope to have a Curiosity Kit-Petroleum. WAAIME Sections participated in field trips to mines and plants, as well as in science fairs. WAAIME National again sent funds to Professor Eugene Alexandrov to help with the field trip in Economic Geology to France and Western Germany by nine students from Queens College.

The Scholarship Loan Fund Committee processed and granted fifty-three scholarships in May 1972, totaling $55,385.00. Thirty-three students who were attending school on WAAIME scholarships graduated in 1972.

The National Chest Committee donated $800.00 to Miner's Memorial Education Fund to help educate almost two hundred children left by the ninety-one miners who lost their lives in the Sunshine fire in Idaho. In addition, eleven sections made additional contributions to the Sunshine disaster Fund. Idaho-Coeur d'Alene Section worked with the Red Cross 24 hours a day during this unfortunate period. WAAIME donated $300.00 to the Red Cross Fund to aid in the rebuilding of Rapid City, South Dakota, after it suffered the devastating flood this year. Three sections sent contributions to this project.

The Library Committee has had a productive year. Sixteen sections have sent books to Prudhoe Bay, Alaska. These sections have contributed more than the original request for the Prudhoe Bay Project. Other sections have made plans for library work in high schools, and for contributions of books. One section contributed $400.00 towards a new roof on their local library.

The Ways and Means Committee was responsible for the publishing of the WAAIME Report of the Fifty-Sixth Annual Meeting and Directory. For the first time in our history the report was printed and published within the AIME-WAAIME organization. In just over three months after the suggestion at the 1972 Round Table Meeting that the SPE do the printing in Texas, the book was finished and mailed to the sections. The generous offer of the Texas Houston Gulf Coast Section to do the proof-reading enabled WAAIME to have the printing done

in Texas. The guidance and patience given by the SPE, as well as the excellence of the book is appreciated. The cooperation of both of these organizations enabled WAAIME to return to the combined annual report and directory.

The Travel Program reports that with the exception of one region, the AIME Council of Section Delegate Meetings have been attended by at least one WAAIME member. The ladies attending have reported large interest form the AIME members, particularly towards our E.F.T. programs. They have reported interest in ideas picked up from the AIME regional delegates attending the meetings to bring back to WAAIME. The men suggested ways to hasten tardy repayments for scholarship loans, and discussed other regional problems. All who have attended a C.S.D. meeting feel the liaison between the two organizations is strengthened.

WAAIME-AIME Liaison was voted to a Standing Committee at the WAAIME 1972 Annual Meeting. The desire is for greater liaison between AIME and WAAIME on a National and Section level and between all WAAIME Sections on programs of mutual interest. Forty-one sections have appointed a Section Liaison Chairman. The sections anticipate more accomplishments in a year or two and indicate interest and excellent cooperation from AIME in 1972.

WAAIME endowment Funds report that three new named funds were added to the portfolio in 1972. The Marietta McLeary David Memorial Scholarship Loan Fund was established in memory of Mrs. David who joined the auxiliary in 1956, and for fifteen years was Treasurer of the Scholarship Loan Fund. The East Tennessee Section of AIME Scholarship Loan Fund was established by the generosity of the members of that section. The income will be used, whenever possible, to provide financial assistance to needy mineral engineering and related science students from the Tennessee area. The Scott and Amy Prudden Turner Memorial Fund (An Administrative Fund) was established under the direction of the Last Will and Testament of Amy Prudden Turner, a member of the Auxiliary since 1922, died February 6, 1972. Mrs. Turner bequeathed four (4%) per centum of the residue of her estate after the death of her husband, Scott Turner, to the Auxiliary. Mr. Turner died July 31, 1972. The terms of the bequest stipulated that this gift be used for the general purposes of the Auxiliary, and be a memorial to Scott and Amy Prudden Turner. These funds will bring the total of our named Funds to thirty-six: thirty-three Scholarship Loan Funds, two Administative Funds, and one Chest Fund.

Respectfully submitted,

Mrs. Roberta Couch
President of W.A.A.I.M.E.