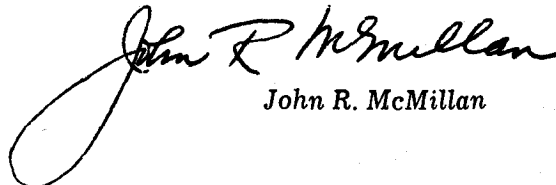


Our AIME corporation can be classified as a minerals industry conglomerate. We are involved in the surface and subsurface mining of hard rock minerals such as coal, iron, silver, copper, gold, lead and zinc—we are involved in the surface and subsurface mining of industrial minerals such as phosphate, sulphur, potash and gypsum—we are involved in minerals beneficiation—we are involved in the extraction of metals from these ores by chemical and electrical processes, and we are involved in the production of aluminum and steel and a host of other metals and last, but not least, we are involved in the production of oil and gas and the exploration techniques that find all of these minerals.

Our members are dedicated to advancing the technical competence of their profession. Together we give our country 46,000 talented men—men who are entrusted with the responsibility of finding and placing into production the mineral resources that this nation needs to move ahead.

Acting together we will meet that challenge.

A handwritten signature in dark ink, reading "John R. McMillan". The signature is fluid and cursive, with a large, looping initial "J".

John R. McMillan

## 1968 Annual Report

# AIME

## AIME IN 1968

The American Institute of Mining, Metallurgical, and Petroleum Engineers was founded in 1871 to provide a forum for the dissemination of new knowledge on our mineral and metal resources. The Institute's continual aim is to improve its vehicles of technical communications: meetings and publications. AIME's meetings serve as "short courses" on the latest technical

developments. Its publications disseminate the best of what the meetings offer. The officers and directors of AIME are well aware of the Institute's responsibilities to its members, to the Engineering Founder Societies, to government, and to the general public in matters relating to our profession. How AIME met these responsibilities is the subject of this report.

## NATIONAL AFFAIRS

AIME appointed its first National Affairs Committee in 1965 and authorized it to respond to calls for action on national issues within the Institute's fields of specialization. During 1968 work continued on the formation of several panels—U.S. Bureau of Mines Advisory Panel, U.S.-European Technology Gap Panel, Federal Funds for Extractive Metallurgy Research Panel—all to function under the National Affairs Committee.

National Mineral Awareness Kits were prepared and distributed to all AIME Sections, WAAIME Sections, and Student Chapters. Each kit contains three color slide presentations and accompanying lectures. They are meant for showing before local civic, fraternal and educational groups, pointing out the importance of minerals to the Nation's economy, defense, and high standard of living.

## PUBLICATIONS

Through its journals, books and monographs, AIME published more than 19,717 pages during 1968. Some 4,300 pages of technical material were published in 1950, the year the Institute's present dues rates were established. It can be said, therefore, that from a publications standpoint, the value of AIME membership has increased fourfold.

The Society of Petroleum Engineers of AIME reprinted the monograph *Pressure Buildup and Flow Tests in Wells* during 1968. A total of 1,500 pages were published in the *Journal of Petroleum Technology*; the *Society of Petroleum Engineers Journal* printed 498 pages. During the year the Society produced *Petroleum Transactions Volume 243* containing 712 pages. Proceedings pages published in 1968 totaled 2,312.



AIME Journals, Transactions and Proceedings

The Society of Mining Engineers of AIME published a total of 6,573 pages. Included in this figure are four hardcover books: *Coal Preparation*, *Surface Mining*, *Ore Deposits in the United States, 1933-1967*, and *Status of Practical Rock Mechanics*. The year also produced 562 pages of Transactions. *Mining Engineering* printed 641 ad pages and 1065 editorial pages for a yearly total of 1,706.



Some hardcover books published in 1968

The Metallurgical Society of AIME published 8,122 pages during 1968. The *Journal of Metals* accounted for 1,219 pages of this total. Produced in book form were several Proceedings and Transactions Volumes, TMS Proceedings pages totaled 4,383; Transactions numbered 2,520.

## HEADQUARTERS

Just before the end of 1968, R. William Taylor, AIME's executive director and secretary for the past five years, left the Institute to become general manager of the American Society of Tool and Manufacturing Engineers.

On December 9, 1968, the AIME Board of Directors elected Joe B. Alford, executive secretary of the Society of Petroleum Engineers of AIME for the past 19 years, as the Institute's new executive director and secretary. At the same time, the Board created the position of Executive Secretary. The person who eventually fills it—to date no one has been selected—will relieve Mr. Alford of some of the day-to-day administrative details, allowing him to concentrate his efforts

## MEMBERSHIP DEVELOPMENT

Despite the shortage of engineers and the dearth of graduates in the minerals fields, AIME continues to be the fastest growing of the major engineering societies. At the end of 1967, the Institute had 43,461 members. The total membership at the end of 1968 was 45,484. Since the introduction in 1964 of new membership development programs featuring membership clinics, AIME has averaged over 1,500 new members per year. Headquarters' close liaison with Section Membership Chairmen is largely responsible for the maintenance of this average.

The AIME Bylaws were changed during the year to permit the holding on record for a full year Student Members transferred to Junior Member status, and Junior Members transferred to Associate Member status, both of whom have not paid their dues. Previously, upgraded members who failed to pay their dues were dropped from the rolls on April 1. The decision to hold them for a full year will allow greater follow-up via mail and in person.

The 1968 AIME Membership Contest was based on new members minus delinquents as a means of en-

couraging Sections to concentrate on membership retention. Winners were:

- Group A—Philippines Section
- Group B—Wyoming Mining and Metals Section
- Group C—Texas Coast Mining and Metals Section
- Group D—Minnesota Section
- Group E—Colorado Section

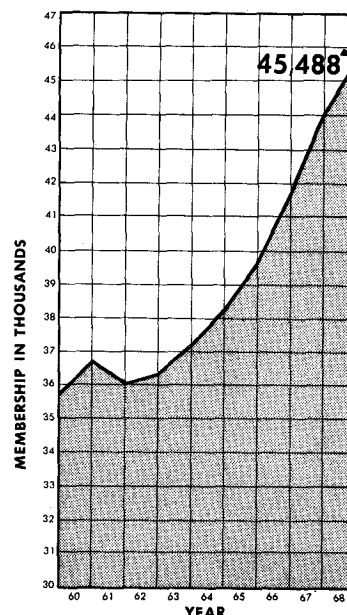
## ENGINEERING FEDERATIONS

As an Engineering Founder Society AIME has a responsibility to support and perpetuate the federations and common-interest efforts within the engineering profession. During 1968 the Institute continued to lend financial support to The Engineering Societies Library, Engineers' Council for Professional Development, Engineers Joint Council, Junior Engineering Technical Society, World Federation of Engineering Organizations, U.S. National Committee of the World Power Conference, National Council of Engineering Examiners, and a number of similar organizations.

on shaping and developing the Institute's future, particularly in the area of emerging technologies.

At the suggestion of the Ten-Year Look Committee, an AIME Policy Manual will be completed in the very near future. Once the Manual is completed, AIME's Bylaws will be redrawn.

During the year, AIME's Council of Education was reorganized in order to better meet its responsibilities. The Council is currently studying the impact of selective service regulations on graduate students in AIME's field, and the need for technicians. In the very near future, the Council will begin to develop an AIME policy on education.



couraging Sections to concentrate on membership retention. Winners were:

## MEETINGS

AIME continues to place its major emphasis on meetings, constantly striving to increase the quantity and improve the quality. Its efforts were recognized and appreciated by some 21,814 members who attended the 1968 national and regional meetings of the Institute and its Societies, Councils and Committees. If attendance at local section meetings was included, this total figure would more than double.

In 1968 AIME and eight other engineering and scientific societies established the Offshore Technology Conference as a national forum for the exchange of technical information dealing with the recovery of valuable minerals from the sea. With AIME and its Constituent Societies providing the financing and the management, the first meeting will be held May 18-21, 1969 in Houston, Texas.

## STUDENT AFFAIRS

At year's end AIME Student Members numbered 3,473 up 289 from last year's total of 3,184. Institute officers continued to visit Student Chapters around the Nation and AIME went ahead with its Student Affairs Program which includes contests to select the outstanding student papers and Student Chapters, as well as travel allowances and other forms of remuneration for those attending AIME meetings.

The Institute's Student Affairs Program is one of the most comprehensive in the engineering field. For the nominal dues of \$4.50 per year, Student Members receive the AIME journal of their choice every month, as well as four newsletters a year. They can compete for six \$250 prizes in the Institute's Student Paper Contest, plus \$250 in expense money to attend AIME's Annual Meeting.

Student registration at practically all Institute meetings is free and there is \$150 at the disposal of each chapter to reimburse students for travel expenses incurred when attending meetings. Cash prizes also go to winning chapters in AIME's Outstanding Student Chapter Contest. Another benefit of membership is access to the Engineering Societies Library.

The Student Summer Employment Program continues to gain strength. Approximately 935 jobs were offered for the summer of 1968. This number is expected to be much higher in 1969 since petroleum companies will be included in the job listings for the first time.

Four STUDENT NEWSLETTERS were published during 1968. At the request of AIME's only Student

The Institute's 1968 Annual Meeting in New York attracted 4,600 persons. Other major meetings held included: Rock Mechanics Symposium, Oil Shale Symposium, Pacific Southwest Minerals Conference, and Pacific Northwest Mineral Conference.

The Metallurgical Society of AIME sponsored 12 meetings during 1968. Total attendance was 6,744 persons; 1,120 at the Annual Fall Meeting. The Fall Meeting of the Society of Mining Engineers of AIME attracted 1,400 persons this year, while approximately 300 attended the group's Spring Coal Division Meeting. The 16 meetings of the Society of Petroleum Engineers of AIME held during 1968 drew 8,770 persons. The Society's Fall Meeting alone brought 0000 persons together. One-day petroleum regional meetings continue to enjoy immense popularity.

## SECTION ACTIVITIES

During its third year of existence, the Henry Krumb Lecture Series gained strength and prestige. Three distinguished lecturers addressed 25 Sections.

The strength of the Council of Section Delegates was also increased in 1968. On May 17, the AIME Board of Directors voted to seek the advice of the Council more frequently on matters of a controversial nature. Additionally, a newly formed Executive Committee has vastly improved the administration of Council affairs. During the year the Council met in New York, Minneapolis, Houston, Detroit, Las Vegas, and Gatlinburg, Tennessee.

The AIME Officer Visitation Program, now in its fourth year of operation, was enlarged to include officers and directors of The Metallurgical Society. During 1968, many Sections and Student Chapters were visited.

The formation of the Eastern Nevada Section early in the year marked the creation of the third AIME Nevada Section and completed AIME coverage of the state. The establishment of the Northern California Metallurgical Section gave AIME three Sections in the San Francisco area. The Chicago Petroleum Section, deactivated in 1967, was reestablished toward the latter part of 1968.

Club, the Mesa Junior College Student Club, an AIME Student Club pin was produced. Outstanding Student Chapters during 1968 were those groups located at Colorado School of Mines, Lehigh University, Mississippi State University, University of Tulsa, West Virginia University.

## FINANCES

A Fiscal Review and Projections, 1957-1972, has been developed and assigned to the Finance Committee and Planning Committee for review. The study is designed to help officers and staff recognize income and expense trends in providing for future financial needs.

Finance Committee membership has been expanded to include the AIME treasurer, the treasurer of each Constituent Society, and the AIME executive director. Closer understanding and coordination of Institute and Society financial affairs is the goal.

Brown Brothers, Harriman & Company, investment advisors, was hired as full-time manager of AIME's sizable investment portfolio. Changes in the portfolio will be made, however, only with the concurrence of the AIME Investment Committee.

New income in the amount of \$23,000 was created during 1968 by keeping the Institute's operating funds constantly invested in short-term securities. Dues income for the year was \$788,500 or approximately \$17 per member. Expenditures totaled \$1,848,100, or about \$41 per member. Dues remained at the low rates established in 1950.

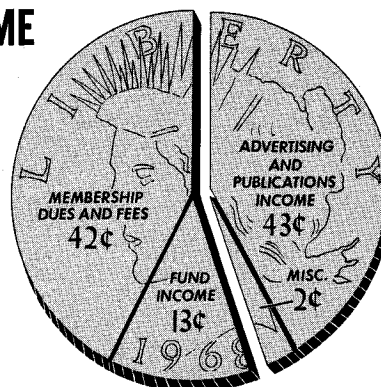
A campaign has been launched to produce three million dollars in endowments over the next ten years. AIME has established three Centennial Endowment Funds which allows all members to contribute annually according to their means. Members of the Herbert Hoover, Jr. Fund will pledge and contribute \$1,000

Keenly aware of the low level of enrollments in mining, metallurgical and petroleum engineering courses, AIME placed special emphasis on career guidance during 1968. AIME's President John R. McMillan prepared a 2000-word article entitled *The Career and Role of the Mining, Metallurgical and Petroleum Engineer*. The article will be published by The MacMillan Company, New York-based publisher.

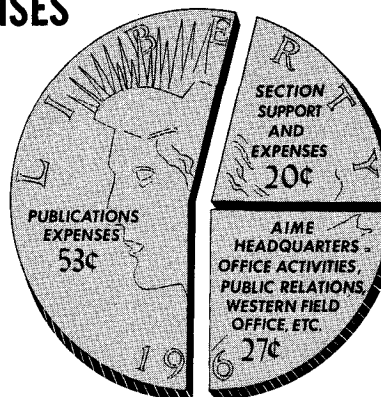
R. William Taylor, AIME's former executive director and secretary, prepared a similar article for *Technical Careers*, a collegiate annual. The title of Mr. Taylor's piece is *Careers in Metallurgical and Petroleum Engineering*.

Early in 1968 the Institute published *Financing a College Education in Mineral Engineering*, a 32-page booklet describing the many forms of aid available to students interested in a mineral engineering career. Its availability was heavily publicized in scholastic,

## INCOME



## EXPENSES



per year for ten years. Those in the Donald H. McLaughlin Fund will pledge and contribute \$250 a year for ten years, while members of the Andrew Fletcher Fund will pledge and contribute \$100 per year. Each Fund will raise one million dollars over the ten-year period. Already, initial contributions have been received for each Fund.

## CAREER GUIDANCE

educational and mineral industry publications. To date, over 27,000 copies have been distributed.

Throughout 1968 AIME continued to distribute its three career guidance booklets. Demands were much greater than in past years due once again, to comprehensive publicity. At year's end, over 35,000 copies of *Penetrating New Frontiers with Mineral Engineers* had been mailed. The figures for *Careers in Metallurgy and Metallurgical Engineering* and *Careers in Petroleum Engineering* were 12,000 and 28,000.

AIME's Career Guidance Kit containing the filmstrips *The World of Minerals* and *The Minerals Engineer* were distributed to all AIME Sections, WAAIME Sections, and Student Chapters. The filmstrips are designed for showing before high school and junior college students. A videotape of the filmstrips was produced in 1968 and made available to TV stations.

## HONORS AND AWARDS

Honorary Membership is the highest honor the Institute can confer on a member. AIME bylaws stipulate that the number of Honorary Memberships shall at no time exceed twenty. In 1968, Augustus B. Kinzel (left) and Scott Turner (right) were elected to this esteemed group of leaders.



## 1968 AWARD RECIPIENTS

An AIME Engineering Achievement Award was added for presentation in future years to the list of prestigious awards presented annually by AIME. The distinguished recipients of the Institute's 1968 awards are listed below.

**James Douglas Gold Medal**  
Paul Queneau

**Mineral Economics Award**  
Sam H. Schurr

**1968 SPE Certificate of Service**  
Howard C. Pyle

**William Lawrence Saunders Gold Medal**  
Charles M. Brinckerhoff

**Daniel C. Jackling Award**  
Francis Cameron

**Robert W. Hunt Silver Medal**  
Lawrence S. Darken

**Anthony F. Lucas Gold Medal**  
Antonius F. van Everdingen

**Robert Peele Award**  
John F. Abel, Jr.

**Robert Lansing Hardy Gold Medal**  
Craig R. Barrett

**Robert H. Richards Award**  
Frank Woods McQuiston

**John Franklin Carll Award**  
D. V. Carter

**Mathewson Gold Medal**  
Hubert I. Aaronson

**Benjamin F. Fairless Award**  
Herbert W. Graham

**Cedric K. Ferguson Medal**  
John E. Cochrane

**Fellows of The Metallurgical Society**  
Marc L. Allard  
Earl Hamlin Bunce  
John Frank Elliott  
Benjamin Lustman  
Lloyd Pidgeon

**Hal Williams Hardinge Award**  
Norman J. Dunbeck

**Lester C. Uren Award**  
Joseph B. Clark  
George Harris  
R. Floyd Farris  
C. Robert Fast

**Extractive Metallurgy Division Award**  
Nickolas J. Themelis  
Paul Spira

**De Golyer Distinguished Service Award**  
John R. Suman

**Rossiter W. Raymond Memorial Award**  
Thomas C. Wilder

**J. E. Johnson Jr. Award**  
Merle H. Schmidt

**Extractive Metallurgy Division Lecture**  
Ronald R. McNaughton

**Mineral Industry Education Award**  
Eugene P. Pfeleider

**Howe Memorial Lecture**  
Bernard Trentini

**Institute of Metals Division Lecture**  
D. McLean

# STATEMENT OF REVENUE AND EXPENSE

## For The Year Ended November 30, 1968

REVENUE	Mining	Metal- lurgical	Petroleum	AIME Total
Member Dues & Fees .....	\$273,900	\$206,800	\$307,800	\$788,500
Advertising and Publications .....	346,400	234,700	239,800	820,900
Appropriations From Other Funds .....	41,000	107,000	93,100	241,100
Interest and Other .....	14,800	11,700	8,200	34,700
TOTAL REVENUE .....	<u>\$676,100</u>	<u>\$560,200</u>	<u>\$648,900</u>	<u>\$1,885,200</u>
EXPENSE				
Section & Student Chapter Support .....	\$ 21,700	\$ 13,600	\$ 26,100	\$ 61,400
Society Secretaries' Office .....	52,100	78,900	130,800	261,800
Institute Activities and Pub. Rel. ....	22,100	22,500	21,100	65,700
Special Membership Activities .....	15,800	800	12,900	29,500
Eng. Societies' Library Support .....	7,700	6,700	8,500	22,900
Publications .....	400,800	298,500	292,700	992,000
Executive Director's Office .....	20,300	17,600	22,300	60,200
Controller's Office & Admin. Svcs. ....	66,300	64,000	69,800	200,100
Western Field Sec.'s Office .....	22,700	4,300	—	27,000
Provision for Depreciation .....	2,900	2,600	6,100	11,600
Pensions and Related .....	30,200	17,300	27,900	75,400
ECPD and EJC Support .....	7,100	6,200	7,800	21,100
Other .....	6,400	6,000	7,000	19,400
TOTAL EXPENSE .....	<u>\$676,100</u>	<u>\$539,000</u>	<u>\$633,000</u>	<u>\$1,848,100</u>
EXCESS OF REVENUE OVER (EXPENSE)	<u>—</u>	<u>\$ 21,200</u>	<u>\$ 15,900</u>	<u>\$ 37,100</u>

Endowment funds continued to be a significant factor in financing certain Board-approved services and activities. Income from funds, generously donated in previous years, provided the flexibility essential to an aggressive ongoing program. In 1968, the AIME Board authorized disbursements of \$424,000 or \$9 per member from the \$550,000 total revenue of the funds. Investment of the funds has been in accordance with parameters established in 1968 to provide interest and dividends desired for planned programs, but at the same time a portion of the portfolio is assigned for investment in growth equities. These equities may not pay dividends at the present time, but provide investment protection in an inflationary economy. The significance of endowments was further recognized in 1968 by the establishment of the three Centennial Endowment Funds.

As of January 1, 1969, corporate and student membership totals were:

Society of Mining Engineers .....	15,427
The Metallurgical Society .....	13,035
Society of Petroleum Engineers .....	17,026
AIME (Total) .....	<u>45,488</u>

## OFFICERS AND DIRECTORS (1968-1969)

### PRESIDENT AND DIRECTOR

John R. McMillan

### PAST PRESIDENT AND DIRECTOR

Walter R. Hibbard, Jr.

### PRESIDENT-ELECT AND DIRECTOR

James Boyd

### TREASURER AND DIRECTOR

George E. Kruger

### VICE PRESIDENTS AND DIRECTORS

R. Charles Earlougher  
J. Harry Jackson  
C. L. McCabe  
Dennis L. McElroy  
Ralph W. Marsden  
H. Arthur Nedom



AIME President John R. McMillan



SME President Raymond Feierabend

### DIRECTORS

Douglas R. Cook  
Brower Dellinger  
Raymond H. Feierabend  
John M. C. Gaffron  
H. J. Gruy  
William J. Harris, Jr.  
Claude R. Hocott  
Jack M. Moore  
Ernest M. Spokes  
Paul Queneau  
Charles R. Taylor  
Michael Tenenbaum



SPE President H. J. Gruy



TMS President Michael Tenenbaum

### AIME STAFF

Joe B. Alford, Executive Director  
John C. Fox, SME-AIME Secretary  
Jack V. Richard, TMS-AIME Secretary  
David Riley, SPE-AIME Executive Secretary  
Thomas P. McConnell, Controller and Director of Fiscal Planning  
Dominic A. Lisanti, Business Manager  
William V. O'Connell, Public Relations Manager  
George T. Moffatt, Activities Manager  
Clifford J. Hicks, Western Field Office Secretary

### AUDITORS

Lybrand, Ross Bros. & Montgomery

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



Joe B. Alford  
Executive Director, AIME  
345 East 47th Street  
New York, New York 10017

**1968**

**official  
annual  
review**

**AIME**



**AMERICAN INSTITUTE OF MINING,  
METALLURGICAL, AND PETROLEUM ENGINEERS**

1968  
OFFICIAL AIME ANNUAL REVIEW

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REPORT  
of the  
EXECUTIVE DIRECTOR, AIME

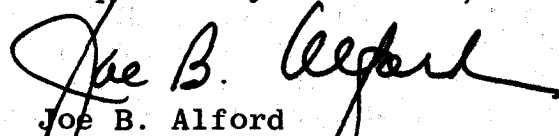
The Institute enjoyed one of its finest years in 1968. Prosperity and growth continued in almost all areas, and generally in all of the Institute's Societies and local Sections and Councils. Service to members continued to increase and the Institute was in good health financially, in spite of a continuation of the same dues which have been in existence since 1950.

The loss of R. William Taylor who has served as Executive Director and Secretary of the Institute since 1963 was a severe one. He had contributed to the Institute and all of its organizations in many ways, and his services were widely recognized and appreciated by members throughout the Institute.

In succeeding Mr. Taylor as Executive Director, I look to the future with a great deal of enthusiasm. I feel that the Institute has as much growth ahead in the next decade as we have enjoyed in the past, and that the opportunities for service for the Institute are unlimited. The position of Executive Director will be most challenging to me.

I express my gratitude for the good wishes many members have extended to me in moving to New York and for the cordial reception given me by my staff colleagues in the Headquarters office of the Institute, SME, and TMS. I am also deeply grateful for the help and support provided to all of us on the staff by AIME members in many ways. I pledge the fullest measure of my energy and talents to the continued growth and prosperity of the Institute.

Respectfully submitted,

  
Joe B. Alford  
Executive Director

## RECORD OF HONORS AND AWARDS PRESENTED IN AIME IN 1968

The following Honors and Awards were presented by AIME at the 1968 Annual Meeting, in addition to those presented by our Constituent Societies and described elsewhere in this Annual Review:

The JAMES DOUGLAS GOLD MEDAL to Paul Queneau, "For the development and successful application of processes for nickel extraction leading to profitable working of low-grade ores and increased recovery of valuable byproducts".

The BENJAMIN F. FAIRLESS AWARD to Herbert W. Graham, posthumously "For distinguished contributions to the steel industry and the nation through his concept and development of free cutting steels, oil well steels, and tank armor plate".

The HAL WILLIAMS HARDINGE AWARD to Norman J. Dunbeck, "Eminent engineer. Producer of refractories and ceramics. For leadership in the development and exploitation of the nonmetallic minerals in North America".

The ANTHONY F. LUCAS GOLD MEDAL to Antonius F. van Everdingen, "For his part in development of basic fundamentals of petroleum engineering, and his contributions to better understanding of the nature of oil recovery from reservoir rock".

The ROBERT H. RICHARDS AWARD to Frank Woods McQuiston, Jr., "Honoring his leadership and innovations in the fields of extractive metallurgical flowsheets and plant designs, especially for uranium, gold and copper and other sulfide minerals".

The WILLIAM LAWRENCE SAUNDERS GOLD MEDAL to Charles M. Brinckerhoff, "For outstanding administrative and technical ability, and for discerning foresight and leadership in the minerals industry".

The MINERAL INDUSTRY EDUCATION AWARD to Eugene P. Pfeleider, "Distinguished educator and accomplished engineer who pioneered university research and international symposia in mineral engineering in this country, and whose zeal for his profession has inspired a new breed of mining men, sparked a revival in academic curricula, and contributed to an emergent literature".

The MINERAL ECONOMICS AWARD to Sam H. Schurr, "In recognition of major and influential contributions to the profession of mineral economics both in his research while with the United States Government and as director of research at Resources for the Future".

The ROSSITER W. RAYMOND MEMORIAL AWARD to Thomas C. Wilder for his paper, "Direct Measurement of Oxygen Content in Liquid Copper".

STUDENT PAPER AWARDS in the Graduate Division to: Frank J. Anderson, University of Arizona, for a paper entitled "Recognition and Use of Vegetation in Photogeology", entered by the Arizona Section; Anil Kumar, Louisiana State University, for a paper entitled "Calculation of Natural Gas Recovery from Storage Aquifers Containing Cushion Gas", entered by the Delta Section.

Undergraduate Division to: Jack M. Merritts, Pennsylvania State University, for a paper entitled "Control of Polluted Mine Water", entered by the Pittsburgh Section; John J. Petrovic, Case Western Reserve University, for a paper entitled "The Reverse Martensitic Transformation and its Influence on Further Martensite Formation in an Fe - 31.7 wt.% Ni Alloy", entered by the Cleveland Section; A. S. Bravo, Oklahoma State University, for a paper entitled "Comparison of Pressure Build-Up Techniques for Determining Proximity of Vertical-Barrier Faults", entered by the Northern Oklahoma Section.

#### OUTSTANDING STUDENT CHAPTERS CONTEST

Mississippi State University  
Society of Petroleum Engineers of Mississippi State University  
Northwestern University  
The Metals Club Student Chapter of AIME  
University of Arizona  
Miner's Society of the University of Arizona Student Chapter of AIME  
Drexel Institute of Technology  
ASM-AIME Student Chapter  
West Virginia University  
West Virginia University Student Chapter of AIME

LEGION OF HONOR INSIGNIA were conferred upon the following thirty-seven members: John Clement Bradley, Carleton Perkins Browning, William Albert Conley, John Joseph Crowe, John Bissell Cunningham, Randolph William Diamond, Percy Grenside Dobson, George D. Dub, John Elbert Elliott, Walter A. English, Robert D. Ferron, Oliver Barniff Joseph Fraser, Waldron Alvord Green, Guy Ernest Ingersoll, Edward B. Jennings, Edwin Joyce, Harmon Edward Keyes, Herbert Alexander Kursell, Edward Aloysius Manderfield, Theodore Marvin, Champion Herbert Mathewson, Phillip Maverick, H. Harper McKee, Percy F. Minister, Perry North Moore, Leo Murray Neumann, John Francis Otto, William Gilchrist Pearsall, Paul F. Pyburn, Curt Nicolaus Schuette, Albert Silver, Livingston Pierson Teas, Lewis G. Weeks, Edward Hollister Wisser, Robert Franklin Wood, James R. Woodul, Leonard Donough Yundt.

THE ROCK MECHANICS AWARD to Leonard Obert and Wilbur I. Duvall, "In recognition of their pioneering and outstanding contributions in rock mechanics, and the development of basic concepts for an emergent technology". Messrs. Obert and Duval are the first recipients of this Award presented in May, 1968, at the Inter-society Rock Mechanics Symposium held in Austin, Texas.

REPORT  
OF THE  
CONTROLLER AND DIRECTOR OF FISCAL PLANNING

Development of a Management Information System for the Institute has had priority during 1968. As a part of that development, the 1968 financial statements reflect the Society of Petroleum Engineers Activities Fund and the Balance Sheet presents the consolidated financial position of the Corporation.

Your Institute is anxious to present an operating analysis in the same format which is used and understood by the membership. Preliminary steps for modernization were taken in 1968 in the basic accounting and a new Code of Accounts providing for management by exception reporting including departmental performance analysis is in use.

Implementation of Systems. The Controller's Report for 1967 made the commitment of implementation of the planned programs. Accomplishments include: investment advisory service, cash management, short term investments, Canadian banking, improved casualty insurance coverage, endowment fund utilization, participation in planning function of computer center and others. Some programs have been delayed but satisfactory progress was made toward the goal of Fiscal Planning supported by a Management Information System.

Award. AIME was honored by the American Society of Association Executives with the first prize of the 1968 Idea Fair for the article titled *Hidden Resources In The Dues Dollar* describing AIME's short term investment program. The paper was originally presented for the Council of Engineering and Scientific Society Secretaries in July. The reaction which other association executives have had to the article indicates that AIME is a leader in aggressive cash management. It is estimated that the increased interest income earned during 1968 was the equivalent of annual dues for 900 members.

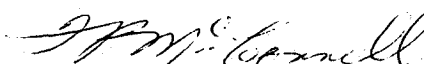
Canadian Business. In 1968, AIME recognized the 2,000 members and subscribers in Canada by establishing Canadian banking to improve the currency exchange rate and bank collection charges. At the same time, the Institute was granted a tax exempt status in Canada making the full range of Canadian investments available without a tax penalty.

AIME Commingled Fund In response to the request from sections and technical committees, a Commingled Fund is being planned which will be available to any unit of AIME which has reserve funds. Interest income and a share of the growth of the fund will be calculated from the day of deposit to the day of withdrawal. The result will be income greater than what can be earned through savings accounts.

The first transaction was an investment of \$9,500 from the Washington Section which has earned 5 $\frac{7}{8}$ % interest. Management of the Commingled Fund will be included in the Investment Advisory Service of Brown Brothers Harriman & Company.

Further refinements in programs implemented in 1968 will be necessary; however, emphasis can now be placed on fiscal assistance to the Societies. 1969 should be another year of progress in effective utilization of the total resources of AIME.

Respectfully submitted,



T.P. McConnell

Controller and Director of Fiscal Planning

## LYBRAND, ROSS BROS. &amp; MONTGOMERY

CERTIFIED PUBLIC ACCOUNTANTS

COOPERS & LYBRAND  
IN AHEAD OF THE WORLD  
OUTSIDE THE UNITED STATES

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, 1968 and the related statements of revenue and expenses, surplus 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, 1967, which statements have been restated as described in Note 1.

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, 1968 and 1967, and the results of its operations for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

New York, February 3, 1969.

*Lybrand, Ross Bros. & Montgomery*AMERICAN INSTITUTE of MINING, METALLURGICAL, and PETROLEUM ENGINEERS, INC.  
BALANCE SHEETS, November 30, 1968 and 1967

ASSETS:	1968	1967 (Note 1)	LIABILITIES and FUND BALANCES:	1968	1967 (Note 1)
Working fund:			Working fund:		
Cash and temporary cash investments	\$ 440,575	\$ 413,328	Accounts payable and accrued liabilities	\$ 181,914	\$ 110,903
Accounts receivable	170,246	128,805	Annual meeting surplus fund	17,857	12,587
Inventories, at cost or lower:			Deferred credits to income:		
Publications on hand	38,716	32,027	Membership dues received in advance	393,205	423,664
Postage and supplies	10,899	7,557	Life membership fund	16,120	17,400
	49,615	39,584	Other	65,333	36,104
Equipment, furniture and fixtures, at cost	165,215	157,641		474,658	477,168
Less, Accumulated depreciation	59,846	54,126	Surplus (per statement annexed)	141,437	140,039
	105,369	103,515	Total working fund	815,866	740,697
Prepaid expenses and other assets	50,061	55,465			
Total working fund	815,866	740,697	Endowment and custodian fund (per statement annexed):		
Endowment and custodian fund:			Endowment funds	3,536,660	3,447,748
Investments (at market quotations approximately \$5,000,000 in 1968 and \$4,400,000 in 1967) (Note 2)	4,003,414	3,827,674	Custodian funds	882,216	813,454
Cash and temporary cash investments	415,462	433,528		4,418,876	4,261,202
	4,418,876	4,261,202	Property fund (Note 3)	265,000	265,000
Founder Society advances to United Engineering Trustees, Inc. (Note 3)	265,000	265,000		265,000	265,000
	\$5,499,742	\$5,266,899		\$5,499,742	\$5,266,899

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

STATEMENTS of REVENUE and EXPENSES  
for the years ended November 30, 1968 and 1967

	<u>1968</u>	<u>1967</u> (Note 1)
Revenue:		
Members' dues and entrance fees	\$ 788,428	\$ 750,373
Advertising and publication sales	820,943	812,399
Appropriations from endowment and custodian funds	248,652	168,374
Interest, annual meeting, and miscellaneous	<u>34,682</u>	<u>16,569</u>
	<u>1,892,705</u>	<u>1,747,715</u>
Expenses:		
Publications	991,978	925,349
Society direct expenses	352,751	346,851
AIME headquarters	<u>510,900</u>	<u>439,992</u>
	<u>1,855,629</u>	<u>1,712,192</u>
Excess of revenue over expenses for the year	<u>\$ 37,076</u>	<u>\$ 35,523</u>

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.

STATEMENTS of SURPLUS  
for the years ended November 30, 1968 and 1967

	<u>1968</u>	<u>1967</u> (Note 1)
Balance, beginning of year	\$140,039	\$134,999
Transactions affecting beginning balances:		
Transfer to custodian fund accounts of excess of revenue over expenses of activities funds of constituent societies for the fiscal years 1967 and 1966, respectively	<u>(35,678)</u>	<u>(30,483)</u>
Balance, beginning of year, after adjustment	104,361	104,516
Excess of revenue over expenses for the year (per statement annexed)	<u>37,076</u>	<u>35,523</u>
Balance, end of year	<u>\$141,437</u>	<u>\$140,039</u>

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



STATEMENTS of CHANGES in ENDOWMENT and CUSTODIAN FUNDS  
for the years ended November 30, 1968 and 1967

	1968			1967 (Note 1)		
	Endowment Fund Accounts	Custodian Fund Accounts	Total	Endowment Fund Accounts	Custodian Fund Accounts	Total
Balance of fund accounts, beginning of year	<u>\$3,447,748</u>	<u>\$813,454</u>	\$4,261,202	<u>\$3,301,319</u>	<u>\$748,635</u>	\$4,049,954
Revenue:						
Contributions	\$ 14,782	\$ 19,253		\$ 45,030	\$ 1,937	
Net gain (loss) from sale of securities	36,159	(2,140)		17,441	13,367	
Interest and dividends	201,216	35,317		189,048	21,693	
Sales of books, volumes, etc.	144,679	26,032		8,705	44,173	
Revenue from conferences and committee meetings		176,443			122,186	
Transfer from working fund surplus		35,678			30,483	
Revenue from distinguished lecture series		15,740			4,830	
Royalties from publishers		17,498			8,097	
Other	<u>1,038</u>	<u>1,024</u>		<u>270</u>	<u>595</u>	
	<u>397,874</u>	<u>324,845</u>	<u>722,719</u>	<u>260,494</u>	<u>247,361</u>	<u>507,855</u>
			4,983,921			4,557,809
Expenses and appropriations:						
Publication expenses	194,949	69,034		12,362	48,262	
Awards	14,838	5,532		14,271	4,726	
Contribution to Golden Jubilee Fund of Woman's Auxiliary				7,000		
Lecture series and student travel	15,655	12,818		7,187	11,717	
Reimbursement to host region of 1966 expenses for fall meeting of Society of Petroleum Engineers					7,132	
Sundry expenses	2,944	623		6,328	9,248	
Appropriations to working fund	<u>80,576</u>	<u>168,076</u>		<u>66,917</u>	<u>101,457</u>	
	<u>308,962</u>	<u>256,083</u>	<u>565,045</u>	<u>114,065</u>	<u>182,542</u>	<u>296,607</u>
Balance of fund accounts, end of year	<u>\$3,536,660</u>	<u>\$882,216</u>	<u>\$4,418,876</u>	<u>\$3,447,748</u>	<u>\$813,454</u>	<u>\$4,261,202</u>

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

NOTES to FINANCIAL STATEMENTS

1. The accounts of the Activities Fund of the Society of Petroleum Engineers have been included in the financial statements for 1968; 1967 has been restated to reflect this fund and its operations.

No amounts are included in the accompanying statements for assets, liabilities, revenue or expenses of Local Sections, Divisions and Special Committees.

2. Purchased investments are stated at cost; those received as contributions are recorded at market value on date of gift.
3. 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.
4. The Institute has a pension plan for eligible employees. Pension expense, including amortization of prior service costs which are being amortized over a fifteen-year period, amounted to \$32,100 in 1968 and \$22,450 in 1967. The Institute funds pension costs accrued.

# REPORT OF THE ADMINISTRATIVE SERVICES DEPARTMENT

The Administrative Services Department (Business Office) is the most visible function of the Institute through its extensive service to all of the Societies. This work is performed by a very capable staff of 18 people.

All aspects of the total operation of this Department will not be enlarged upon due to the interrelatedness and dependency of the many functions upon one another; however, a few of the functions will be briefly explained.

In the Accounting Section we do the recording of all financial data as well as the preparation of monthly financial statements and analyses of a financial nature. Checks received and deposited during the year 1968 approximated 75,000 individual items. In addition, various statements are prepared periodically for different custodial funds and meetings that are held during the year.

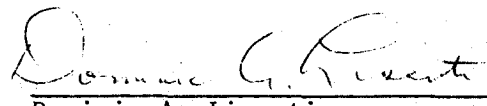
In the Data Processing Section we maintain over 51,000 names on a Magnetic Tape File of an IBM System 360 with a centralized Data Processing Center operated as a joint venture by AIME and five other societies. The Change of Address Section processes all changes which are then keypunched and forwarded to the Data Processing Center where the member record file is updated. During the past year these changes averaged over 2,100 per month.

The Membership Section covers the receipt, acknowledgement and clerical processing of all new member applications. Each application is checked for completeness and confirmation of endorsers by verification of member records.

Also falling under the jurisdiction of Administrative Services are the following: purchasing, book orders (sales and billing), non-member subscriptions, filing, mailing and shipping, maintenance of payroll records, as well as the rendering of reports on and the administration of AIME fringe benefits such as Life Insurance, Hospitalization, Major Medical and Pension Plans.

Finally, I want to thank the Administrative Services Staff for their efficiency, loyalty, and devoted service during the past year.

Respectfully submitted,

  
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Dominic A. Lisanti  
Assistant Treasurer

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.  
REVENUE AND EXPENSE STATEMENT  
FOR THE YEAR ENDED - NOVEMBER 30, 1968

REVENUE	MINING	METALLURGICAL	PETROLEUM	TOTAL
<u>Membership:</u>				
Current Dues	\$242,590	\$184,986	\$276,918	\$704,494
New Member Dues	13,107	11,772	13,688	38,567
Entrance Fees	18,173	10,040	17,155	45,368
<i>TOTAL (1)</i>	<u>\$273,870</u>	<u>\$206,798</u>	<u>\$307,761</u>	<u>\$788,429</u>
<u>Publications:</u>				
Monthly Journal Advertising	264,014	45,351	163,256	472,621
Directory Advertising	26,861	---	6,116	32,977
Monthly Journal Sales	16,703	25,853	10,991	53,547
Non-Monthly Journal Advertising	---	---	666	666
Non-Monthly Journal Sales	11,256	55,969	5,097	72,322
Transactions Volume Sales	16,223	21,098	31,128	68,449
Reprint Sales	3,608	86,199	21,944	111,751
Preprint Sales	7,676	---	---	7,676
Directory Sales	85	198	651	934
<i>TOTAL</i>	<u>\$346,426</u>	<u>\$234,668</u>	<u>\$239,849</u>	<u>\$820,943</u>
<u>Other Revenue:</u>				
Fund Appropriations (Sch. A)	41,018	107,016	93,118	241,152
Interest, Dividends & Other	6,033	5,271	6,613	17,917
Annual Meeting Revenue	13,068	13,688	2,085	28,841
<i>TOTAL</i>	<u>\$60,119</u>	<u>\$125,975</u>	<u>\$101,816</u>	<u>\$287,910</u>
<i>TOTAL REVENUE</i>	<u>\$680,415</u>	<u>\$567,441</u>	<u>\$649,426</u>	<u>\$1,897,282</u>
<u>EXPENSES</u>				
<u>AIME Headquarters:</u>				
Executive Director (2)	20,284	17,575	22,331	60,190
Controller's Office (2)	11,736	10,169	12,921	34,826
Salt Lake City Office (3)	22,705	4,261	---	26,966
Administrative Services (4)	54,545	53,884	56,858	165,287
Gen. Activities & Public Rel.	22,109	22,470	21,123	65,702
<i>TOTAL</i>	<u>\$131,379</u>	<u>\$108,359</u>	<u>\$113,233</u>	<u>\$352,971</u>
<u>Support of Federations:</u>				
Engineering Societies Library	7,739	6,706	8,520	22,965
Engineers Joint Council	3,452	3,001	3,811	10,264
Eng. Coun. for Prof. Dev.	3,633	3,158	4,011	10,802
<i>TOTAL (2)</i>	<u>\$14,824</u>	<u>\$12,865</u>	<u>\$16,342</u>	<u>\$44,031</u>
<u>Other All-Institute:</u>				
Pensions & Related	30,202	17,240	27,933	75,375
Depreciation	2,871	2,616	6,076	11,563
Other Expense	6,400	6,013	7,046	19,459
<i>TOTAL (2)</i>	<u>\$39,473</u>	<u>\$25,869</u>	<u>\$41,055</u>	<u>\$106,397</u>
<u>Society Direct Expense:</u>				
Sec. & Student Chapt. Support	21,674	13,591	26,100	61,365
Membership Development	15,779	817	12,949	29,545
Society Headquarters Office	52,183	78,858	130,800	261,841
Annual Meeting Expense	4,326	7,290	461	12,077
<i>TOTAL</i>	<u>\$93,962</u>	<u>\$100,556</u>	<u>\$170,310</u>	<u>\$364,828</u>
<u>Publications:</u>				
Monthly Journal Advertising	159,512	39,879	88,976	288,367
Monthly Journal Prod. & Edit.	170,761	104,127	142,218	417,106
Directory	17,153	151	8,992	26,296
Non-Monthly Journal Advertising	---	---	1,034	1,034
Non-Monthly Journal Prod. & Edit.	18,630	129,639	14,885	163,154
Transactions Volume	5,844	11,174	24,844	45,862
Reprint Expense	2,357	12,487	11,686	26,530
Preprint Expense	22,520	1,110	---	23,630
<i>TOTAL</i>	<u>\$400,777</u>	<u>\$298,567</u>	<u>\$292,635</u>	<u>\$991,979</u>
<i>TOTAL EXPENSE</i>	<u>\$680,415</u>	<u>\$546,216</u>	<u>\$633,575</u>	<u>\$1,860,206</u>
<u>EXCESS OF REVENUE OVER (EXPENSE)</u>	<u>---</u>	<u>\$21,225</u>	<u>\$15,851</u>	<u>\$37,076</u>

NOTE: This schedule prepared by AIME Staff and is Supplemental to the Auditor's Report

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.  
REVENUE AND EXPENSE FOR 1968  
EXPLANATORY NOTES

## SCHEDULE A

	<u>MINING</u>	<u>METALLURGICAL</u>	<u>PETROLEUM</u>	<u>TOTAL</u>
<u>Fund Appropriations:</u>				
Eng. Societies Library Support				
James Douglas Library Fund	\$1,633	\$1,415	\$1,798	\$4,846
Eng. Center Occupancy Cost				
Daniel C. Jackling Bldg. Fund (6)	3,391	3,160	---	6,551
Daniel C. Jackling Bldg. Fund	2,056	1,949	2,166	6,171
Student Development				
Charles Hayden Memorial	674	584	742	2,000
Salt Lake City Office				
Rocky Mountain Club Fund (3)	5,052	948	---	6,000
Employee Savings Plan				
Eilers	371	321	408	1,100
Unrestricted Contributions	202	175	223	600
Walter H. Aldridge	539	467	594	1,600
Adminis. of Funds - All Funds	3,911	3,388	4,305	11,604
Controller's Office - Aldridge Fd	1,179	1,022	1,299	3,500
Controller's Office - Barron Fnd.	676	586	742	2,005
Controller's Office - Krumb Fund	6,933	6,007	7,632	20,572
Special Library Support - Krumb Fd	1,146	993	1,261	3,400
ECPD Support - Krumb Fund	1,078	935	1,187	3,200
<u>Appropriations from Orgs. &amp; Functions:</u>				
Annual Meeting (6)	7,791	6,649	3,740	18,180
<u>Appropriations from Societies: (6)</u>				
	<u>4,386</u>	<u>78,417</u>	<u>67,020</u>	<u>149,823</u>
<u>TOTAL TO REVENUE &amp; EXPENSE STATEMENT</u>	<u>\$41,018</u>	<u>\$107,016</u>	<u>\$93,118</u>	<u>\$241,152</u>

## RATE OF ALLOCATIONS TO SOCIETIES

- (1) Membership dues and fees are credited to the Societies directly.
- (2) These items are prorated to the Societies on a membership ratio. The membership ratio for 1968 is as follows:
 

Mining - 33.7%    Metallurgical - 29.2%    Petroleum - 37.1%
- (3) Secretary's Office - Salt Lake City - Distributed as follows:
 

Mining - 84.2%    Metallurgical - 15.8%
- (4) Administrative Services - Allocated on use basis:
 

Mining - 33.0%    Metallurgical - 32.6%    Petroleum - 34.4%
- (5) Institute Activities and Public Relations are allocated partially on a direct basis to the Societies wherever possible and the balance on a membership ratio for 1968.
- (6) Special use basis calculations are made for building occupancy costs, annual meeting, and the direct appropriations from the Societies.

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.  
BUDGETED REVENUE AND EXPENSE FOR 1969

11

REVENUE	MINING	METALLURGICAL	PETROLEUM	TOTAL
<u>Membership:</u>				
Current Dues	\$245,000	\$190,000	\$285,000	\$720,000
New Member Dues	12,000	10,000	11,000	33,000
Entrance Fees	16,000	10,000	14,000	40,000
<u>TOTAL (1)</u>	<u>\$273,000</u>	<u>\$210,000</u>	<u>\$310,000</u>	<u>\$793,000</u>
<u>Publications:</u>				
Monthly Journal Advertising	\$293,000	\$ 60,000	\$150,000	\$503,000
Directory Advertising	27,000	---	6,000	33,000
Monthly Journal Sales	15,300	25,000	12,000	52,300
Non-Monthly Journal Advertising	---	---	1,300	1,300
Non-Monthly Journal Sales	10,800	59,300	5,000	75,100
Transactions Volume Sales	16,500	38,000	18,000	72,500
Reprint Sales	4,000	110,500	6,100	120,600
Preprint Sales	7,000	---	---	7,000
<u>TOTAL</u>	<u>\$373,600</u>	<u>\$292,800</u>	<u>\$198,400</u>	<u>\$864,800</u>
<u>Other Revenue:</u>				
Fund Appropriations (Sch. A)	\$ 62,120	\$128,750	\$140,595	\$331,465
Interest, Dividends & Other	6,700	13,500	7,500	27,700
Annual Meeting Revenue	12,800	9,700	1,000	23,500
<u>TOTAL</u>	<u>\$ 81,620</u>	<u>\$151,950</u>	<u>\$149,095</u>	<u>\$382,665</u>
<u>TOTAL REVENUE</u>	<u>\$728,220</u>	<u>\$654,750</u>	<u>\$657,495</u>	<u>\$2,040,465</u>
<u>EXPENSES</u>				
<u>AIME Headquarters:</u>				
Executive Director (2)	\$ 39,900	\$ 34,450	\$ 44,050	\$118,400
Controller's Office (2)	12,240	10,570	13,515	36,325
Salt Lake City Office (3)	23,900	4,490	---	28,390
Administrative Services (4)	56,860	56,170	59,280	172,310
Gen. Activities & Pub. Rel.	27,230	27,590	23,880	78,700
<u>TOTAL</u>	<u>\$160,130</u>	<u>\$133,270</u>	<u>\$140,725</u>	<u>\$434,125</u>
<u>Support of Federations:</u>				
Engineering Societies Library	\$ 8,040	\$ 6,940	\$ 8,870	\$ 23,850
Engineers Joint Council	3,400	3,000	3,800	10,200
Eng. Coun. for Prof. Dev.	3,700	3,200	4,100	11,000
<u>TOTAL (2)</u>	<u>\$ 15,140</u>	<u>\$ 13,140</u>	<u>\$ 16,770</u>	<u>\$ 45,050</u>
<u>Other All-Institute:</u>				
Pensions & Related	\$ 36,170	\$ 19,730	\$ 27,850	\$ 83,750
Depreciation	3,300	2,800	6,200	12,300
Other Expense	5,600	4,900	6,200	16,700
<u>TOTAL (2)</u>	<u>\$ 45,070</u>	<u>\$ 27,430</u>	<u>\$ 40,250</u>	<u>\$112,750</u>
<u>Society Direct Expense:</u>				
Sec. & Student Chapt. Support	\$ 22,500	\$ 15,000	\$ 28,000	\$ 65,500
Membership Development	18,000	4,000	13,000	35,000
Society Headquarters Office	55,000	102,600	117,000	274,600
Annual Meeting Expense	4,300	5,150	500	9,950
<u>TOTAL</u>	<u>\$ 99,800</u>	<u>\$126,750</u>	<u>\$158,500</u>	<u>\$385,050</u>
<u>Publications:</u>				
Monthly Journal Advertising	\$170,000	\$ 50,000	\$ 85,000	\$305,000
Monthly Journal Prod. & Edit.	160,000	113,700	149,000	422,700
Directory	15,500	---	9,000	24,500
Non-Monthly Journal Advertising	---	---	450	450
Non-Monthly Journal Prod. & Edit.	19,000	127,260	17,000	163,260
Transactions Volume	12,500	16,000	18,000	46,500
Reprint Expense	2,300	35,000	4,000	41,300
Preprint Expense	16,600	---	---	16,600
<u>TOTAL</u>	<u>\$395,900</u>	<u>\$341,960</u>	<u>\$282,450</u>	<u>\$1,020,310</u>
<u>TOTAL EXPENSE</u>	<u>\$716,040</u>	<u>\$642,550</u>	<u>\$638,695</u>	<u>\$1,997,285</u>
<u>EXCESS OF REVENUE OVER (EXPENSE)</u>	<u>\$ 12,180</u>	<u>\$ 12,200</u>	<u>\$ 18,800</u>	<u>\$ 43,180</u>

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.  
BUDGETED REVENUE AND EXPENSE FOR 1969  
EXPLANATORY NOTES

## SCHEDULE A

	<u>MINING</u>	<u>METALLURGICAL</u>	<u>PETROLEUM</u>	<u>TOTAL</u>
<u>Fund Appropriations:</u>				
Eng. Societies Library Support				
James Douglas Library Fund	\$1,650	\$1,425	\$1,825	\$4,900
Eng. Center Occupancy Cost				
Daniel C. Jackling Bldg. Fund (6)	3,275	3,275	---	6,550
Daniel C. Jackling Bldg. Fund	2,205	1,905	2,440	6,550
Student Development				
Charles Hayden Memorial	675	580	745	2,000
Salt Lake City Office				
Rocky Mountain Club Fund (3)	6,740	1,260	---	8,000
Employee Savings Plan				
Walter H. Aldridge	1,010	875	1,115	3,000
Awards and Honoraria				
Daniel C. Jackling Award Fund	690	595	765	2,050
Student Relations Prize Fund	85	70	95	250
Senior Member Fund	980	845	1,075	2,900
Public Relations				
Special Fund for Publications	335	290	375	1,000
Adminis. of Funds - All Funds	4,380	3,785	4,835	13,000
Special Library Support - Krumb Fd.	1,145	990	1,265	3,400
Student Travel - Krumb Fund	1,685	1,455	1,860	5,000
Controller's Office - Krumb Fund	6,405	5,530	7,065	19,000
Krumb Lecture Series - Krumb Fnd.	1,180	1,020	1,300	3,500
ECPD Support - Krumb Fund	1,080	930	1,190	3,200
Adminis. Sec.'s Office - Krumb Fd.	14,500	12,500	16,000	43,000
<u>Appropriations from Orgs. &amp; Functions:</u>				
Offshore Technology Conference	4,380	3,785	4,835	13,000
Mining & Metallurg. Soc. of Amer.	2,225	1,920	2,455	6,600
Selenium & Tellurium Dev. Assoc.	740	640	820	2,200
Annual Meeting (6)	6,755	5,770	3,625	16,150
<u>Appropriations from Societies: (6)</u>	---	79,300	86,915	166,215
<u>TOTAL TO REVENUE &amp; EXPENSE BUDGET</u>	<u>\$62,120</u>	<u>\$128,750</u>	<u>\$140,595</u>	<u>\$331,465</u>

## RATE OF ALLOCATIONS TO SOCIETIES

- (1) Membership dues and fees are credited to the Societies directly.
- (2) These items are prorated to the Societies on a membership ratio. The membership ratio for 1969 is as follows:  
Mining - 33.7% Metallurgical - 29.1% Petroleum - 37.2%
- (3) Secretary's Office - Salt Lake City - Distributed as follows:  
Mining - 84.2% Metallurgical - 15.8%
- (4) Administrative Services - Allocated on use basis:  
Mining - 33.0% Metallurgical - 32.6% Petroleum - 34.4%
- (5) Institute Activities and Public Relations are allocated partially on a direct basis to the Societies wherever possible and the balance on a membership ratio for 1969.
- (6) Special use basis calculations are made for building occupancy costs, annual meeting, and the direct appropriations from the Societies.

REPORT  
of the  
PUBLIC RELATIONS AND CAREER GUIDANCE DEPARTMENT

For the first 6 months of 1968, the Public Relations Office was part of the Activities Department. It became a separate department July 1, 1968. Later in the year the new department took over administration of the Institute's Career Guidance Program. On January 1, 1969, the job of administering certain functions of the Selenium-Tellurium Development Association was added to the Public Relations Department's responsibilities.

PUBLICITY

As always, the Department's main efforts were devoted to publicity -- primarily in support of national and regional meetings. Totally, over 900 press releases were prepared and distributed. Approximately 700 treated AIME-sponsored meetings while the remainder covered other Institute activities and functions: publication of new books and proceedings, availability of career guidance materials, Krumb lectures, election of officers, award presentations, and so on.

About two months after major meetings (Annual, Society Fall Meetings), the Department prepared and distributed publicity effectiveness reports to officers, directors, key staff and committee personnel. News stories of the 1968 Annual Meeting appearing in print media reached 7,308,956 persons. The combined newspaper and magazine coverage of SME's Fall Meeting reached 3,866,263 readers. Radio and television time given both meetings was excellent for events of this type.

This year the Department had a new meeting to publicize -- The Offshore Technology Conference. Initial releases were prepared and distributed; many more will follow as the first meeting, May 18-21, 1969, draws near.

PUBLICATIONS

As in past years, the Public Relations Department prepared the Annual Report, Honors and Awards Booklet, Council of Economics Newsletter, Council of Economics Proceedings Volume, four editions of the AIME Student Newsletter, plus a variety of flyers, stuffers and mailing pieces. New publications produced this year included The AIME Centennial Endowment Fund Booklet, the John Fritz Medal Booklet, the 32-page "Financing a College Education in the Minerals Industry," "Careers in Metallurgy and Metallurgical Engineering," a directory of AIME Officers and Directors, an Annual Meeting Registration Piece for WAAIME, and a Senior Member Fund Folder. The AIME Section Publicity Manual was updated and redistributed. The Department also undertook the creation of the Annual Meeting symbol and a variety of other artwork.

### SPECIAL PROJECTS

Several new and special projects were carried out during 1968.

1. A "statement of purpose" was created for AIME. This was inscribed on bronze plaques which adorn the 13th and 14th floor lobbies of the United Engineering Center.
2. An intensive, comprehensive campaign to get Section people to place stories of their activities with their local press was begun. WAAIME Sections and Student Chapters as well as regular Sections were included. As evidenced by the amount of press clippings received, the campaign has been immensely successful due to the enthusiasm and efforts of the local Section people.
3. As an offshoot of the campaign mentioned directly above, efforts were made to publish more stories concerning Section, WAAIME and student activities in the three AIME journals. These efforts were most successful and served as a great encouragement to persons at the local level.
4. The Department has established a working relationship with the Public Relations Departments of many companies in our industry. One of the things that helped to establish this relationship was a series of letters to industry Public Relations Directors thanking them for mentioning AIME in their news releases.
5. In order to establish a better rapport between members and the Institute, a program of congratulatory letter writing was begun. Recipients of major awards or recognitions were always, and still are, congratulated by the Institute's officers or executive director. But the member receiving a lesser award or a job promotion often went unrecognized by AIME. The Department's congratulatory letter program corrects that situation.
6. Several visitors, mostly from foreign countries, were received by the Department during 1968 and conducted on tours of AIME Headquarters and the United Engineering Center.
7. Plans were laid for AIME's Centennial in 1971. A number of ideas were developed and considered, but so far no particular program has been approved. The Institute plans to produce a 16mm color/sound movie as part of its Centennial Year activities. The Public Relations Department is currently negotiating with film producers to determine costs, audience, and other aspects of the project.

### CAREER GUIDANCE

As mentioned earlier, the Department prepared "Financing a College Education in the Minerals Industry" and "Careers in Metallurgy and Metallurgical Engineering." To date, 27,000 copies of the former and 12,000 copies of the latter have been distributed. 1968 distribution figures for AIME's other two career guidance booklets are: "Careers in Petroleum Engineering" -- 28,000 copies; "Penetrating New Frontiers with Mineral Engineers" -- 35,000 copies.



The Department published four editions of the AIME Student Newsletter this year. Emphasis was on the benefits of AIME membership. An innovation in this year's Newsletter was the regular inclusion of authoritative articles by educators well known in the minerals industry.

Although it has been available for about a year now, AIME's Career Guidance Filmstrips Kit is still being sold steadily at \$9.50 per kit. Sales were so far above expectation that a second group of kits had to be produced last summer.

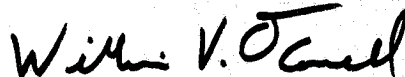
During the year the Department produced two career guidance articles for publication under the bylines of 1968 President John R. McMillan and former Executive Director and Secretary R. William Taylor. The article prepared for Mr. McMillan's signature is entitled "The Career and Role of the Mining, Metallurgical, and Petroleum Engineer." It will be published by The MacMillan Company in an Encyclopedia of Education to be released in 1970. Mr. Taylor's piece is entitled "Careers in Metallurgical and Petroleum Engineering" and was prepared for "Technical Careers," a collegiate annual publication.

Through an intensive publicity campaign, the availability of AIME's career guidance aids was made known to science teachers, guidance counselors, school board officials and other interested parties via education publications. Their response has been most gratifying.

#### APPRECIATION

Because of the nature of the work, public relations leans heavily for its success on all departments within an organization. Cooperation is the keynote and appreciation is therefore expressed to all those who offered it: Institute and society officers and staff, Council officers, Committee officials, local Section personnel, and in a number of cases, individual members.

Respectfully submitted,



William V. O'Connell  
Public Relations and  
Career Guidance Manager

## MEMBERSHIP DATA

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

1870 TO 1968

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	GRAND 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





## CLASSIFICATION OF MEMBERS

	AIME - 3 YEAR TALLY			SOCIETIES - 1968		
	1966	1967	1968	SME	TMS	SPE
Honorary Members	21	21	18	9	3	6
Members	25,507	26,800	27,900	10,319	6,621	10,960
Associates	6,190	6,438	6,736	2,372	1,857	2,507
Juniors	7,194	7,019	7,361	1,722	2,948	2,691
Total	38,912	40,278	42,015	14,422	11,429	16,164
Student Members	2,706	3,183	3,473	1,005	1,606	862
GRAND TOTAL	41,618	43,461	45,488	15,427	13,035	17,026

## MEMBERSHIP LOSSES 1968

	SME	TMS	SPE	AIME
Deaths	146	57	61	264
Resignations	136	190	158	484
Drops	383	635	742	1,760
Unaccepted	75	50	90	215
TOTAL LOSSES	740	932	1,051	2,723

DISTRIBUTION OF MEMBERS IN SOCIETIES  
DURING LAST DECADE AS APPROXIMATE PERCENTAGE

December	Mining Members %	Metallurgical Members %	Petroleum Members %
1959	36.0	23.5	40.5
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

Applications for new membership, reinstatements and change of status, to the number of 5,631 came before the Committee during 1968.

The statistical record of Committee actions is given in the following tabulation.

CLASSIFICATION OF APPLICATIONS RECEIVED AND  
ELECTIONS MADE BY THE ADMISSIONS COMMITTEE

New Applications & Reinstatements:	1967	1968	1968		
			Mining	Metallurgical	Petroleum
Members	1,841	1,945	769	392	784
Associates	580	478	162	84	232
Juniors	752	642	158	98	386
TOTAL	3,173	3,065	1,089	574	1,402
Applications for Change of Status:					
Associate to Member	567	481	109	84	288
Junior to Member	30	38	16	6	16
Junior to Associate	1	-	-	-	-
Student to Member	3	2	1	-	1
Student to Associate	-	1	-	-	1
Student to Junior	1	5	-	-	5
Junior to Student	1	-	-	-	-
Junior to Joint Student	2	-	-	-	-
Student to Joint Student	-	-	-	-	-
Joint Student to Student	5	1	-	1	-
TOTAL	610	528	126	91	311
Applications for Student Members	1,846	2,039	585	906	548
GRAND TOTAL	5,629	5,632	1,800	1,571	2,261

Automatic Change of Status are not included due to the fact that applications are not necessary.

# REPORT OF THE ACTIVITIES DEPARTMENT

Although the public relations programs of the Activities Department were incorporated into a separate Public Relations Department in July, this report will cover only those programs now handled by the Activities Department.

## Personnel

The creation of the Public Relations Department followed the resignation of C. Kenneth Carlson, Activities Manager, and the appointment of George T. Moffatt as his successor. Mr. Carlson returned to the Personnel Department of Southern Railway, and Mr. Moffatt was a public relations writer for American Telephone and Telegraph Co. before coming to AIME. Mr. William V. O'Connell was Assistant Activities Manager to Mr. Carlson before he was promoted to Public Relations Manager.

After several years as secretary to the Activities Manager, Miss Madelyn Panica resigned in the spring. The present secretary is Miss Lucille La Rocca, who is handling her many and diverse duties in the Activities Department with skill and efficiency.

## Membership Development

Since the Activities Department provides staff support for the All-Institute Membership Committee, the Department administers reporting and accounting for the Membership Contest, originates and administers membership development programs, and assists Section and Division Membership Chairmen in their specific programs.

During 1968, the Institute membership grew from 43,461 to 45,488, a 4.7% increase under H. Rush Spedden, All-Institute Membership Chairman. A special *non-member* slide presentation has been made available to Section Membership Chairmen to develop new members, in addition to comprehensive supply of membership development material and a new *pocket size* development guide.

Winners in the Membership Contest are:

Group A	Philippines Section	26.7%
Group B	Wyoming Mining & Metals Section	12.6%
Group C	Texas Coast Mining & Metals Section	8.4%
Group D	Minnesota Section	7.9%
Group E	Colorado Section	6.5%

The Department is studying the effectiveness of present membership material to continue supplying Membership Chairmen with the most effective and up-to-date techniques and supplies for their local development programs.

Staff support was provided for one of the most thorough follow-up campaigns on members in arrears. The effort accounted for only 1,875 members leaving AIME through dues in arrears, as well as deaths and resignations, compared to 3,046 members leaving in 1967.

### Student Affairs

AIME's Student Affairs programs are administered by the Activities Department, under the direction of the AIME Student Affairs Committee, Lloyd Elkins, Chairman.

The Student Affairs program is designed to give students an opportunity to expand their educational experience beyond the limits of the classroom by giving them an opportunity to associate with professional engineers in their chosen field. AIME's Student Affairs program has been so successful, that over half the Student Members continue their AIME membership after they graduate from college.

One outstanding feature is the Student Paper Contest, in which over 50 students participated in 1968. The winners are:

L.C. Hoffman	SME - Undergraduate
R.W. Smith	TMS - Undergraduate
H.D. Steen	SPE - Undergraduate
R. Venkataramani	SME - Graduate
R.G. Barrows	TMS - Graduate
M. Essensfeld	SPE - Graduate

The Student Chapter Contest drew popular support for its third year of operation, and the winners are:

Colorado School of Mines (Mining)  
Lehigh University  
Mississippi State University  
University of Tulsa  
West Virginia University

The Activities Department distributed questionnaires to all the Student Chapters in 1968 to assist the staff in evaluating individual Chapters. This year, in addition, the Department asked each Chapter to outline its proposed program for the 1968-1969 school year, to impress upon the Chapter student-officers that a planned schedule of activities is necessary to maintain a balanced chapter program.

AIME officers continued visiting Student Chapters, and free registration and Hospitality Suites at major AIME meetings continues to encourage student participation at these meetings.

Student membership has grown to 3,437 in 1968 as compared to 3,183 in 1967. Two new chapters were organized in 1968, for a total of 88 Student chapters. Four additional chapters are now under consideration.

### Annual Meeting

The Annual Meeting of AIME is the complete responsibility of the Activities Department. Considerable planning has also gone into the 1969 meeting in Washington and the success of the 97th Annual Meeting was the result of careful staff and committee planning.

Department staff assistance is also supplied to the Constituent Societies in their meetings, particularly the TMS Fall Meeting, the SME Fall Meeting, the Open Hearth Meeting and the Operating Metallurgy Conference and Electric Furance Symposium.

The Activities Department is completely responsible for registration and membership development at these meetings, in addition to other services rendered.

### Mining & Metallurgical Society of America

The Mining & Metallurgical Society of America has agreed to turn over the staff administration of its organization to AIME's professional staff. The Activities Department will manage MMSA's affairs without any additional personnel by taking advantage of the unique flexibility of the Activities Department. The Activities Manager will assume the responsibilities of Staff Secretary for MMSA, which will include all activities of that organization. This arrangement also provides AIME with \$600 a month in additional revenues.

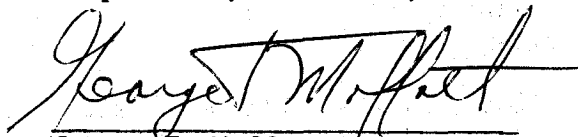
### Council of Economics & Council of Education

The Council of Economics produces a Proceedings Volume each year after the AIME Annual Meeting of all papers presented at the Council session during the meeting. The Activities Department produces the Volume. In addition, the Department produces two Council of Economics Newsletters each year.

The Council of Education also sponsors a Newsletter which is produced and distributed by this Department.

Through careful planning and close cooperation with the other AIME Departments and Constituent Societies, the Activities Department has enjoyed a successful year.

Respectfully submitted,

  
George T. Moffatt  
Activities Department Manager



## 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 and a stenographer. It is the intent of the Secretary 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 1968, visits were made to 15 Sections and Subsections, four Student Chapters and 12 major conferences, plus AIME and Society Boards of Directors' meetings and meetings of Regional Councils of Section Delegates.

Sections and Subsections Visited During 1968 by C. J. Hicks

1. Arizona Section, Bisbee-Douglas Subsection, Douglas, Arizona.
2. Arizona Section, Yavapai Subsection, Prescott, Arizona.
3. Colorado Plateau Section, Grand Junction, Colorado. (2)
4. Colorado Plateau Section, San Juan Subsection, Ouray, Colorado.
5. Colorado Section, Denver, Colorado.
6. Colorado Section, MBD Subsection, Colorado Springs, Colorado.
7. Eastern Nevada Section, McGill, Nevada. (2)
8. El Paso Section, El Paso, Texas.
9. Intermountain Section, Leadville, Colorado.
10. Northern California Metallurgical Section, San Francisco, Calif.
11. Northern Nevada Section, Reno, Nevada. (2)
12. San Francisco Section, San Francisco, Calif.
13. Southeastern Utah Section, Moab, Utah.
14. Utah Section, Salt Lake City, Utah. (6)
15. Utah Coal Section, Price, Utah.

Major Meetings and Conferences Attended by C. J. Hicks in 1968

1. Uranium Workshop of the U. S. Atomic Energy Commission, Grand Junction, Colorado.
2. National Western Mining Conference and Exhibition of the Colorado Mining Association, Denver, Colorado.
3. Annual Meeting of AIME, New York City, including:  
Committee of Regional Representatives  
AIME Board of Directors  
SME Board of Directors
4. Fifth Annual Oil Shale Symposium, Denver, Colorado.
5. Southwest Metals and Minerals Conference, Los Angeles, California.
6. Thirteenth Annual Minerals Symposium, Grand Junction, Colorado.
7. Thirteenth Annual Convention of the Wyoming Mining Association, Jackson, Wyoming.
8. Fourth Annual Intermountain Minerals Conference, Vail, Colo.
9. SME Fall Meeting and International Surface Mining Conference, Minneapolis, Minnesota, including:  
SME Board of Directors

10. Convention and Exhibition of the American Mining Congress, Las Vegas, Nevada, including:  
Southwest and Northwest Regional Councils of Section Delegates.
11. Joint Convention of the New Mexico Mining Association and Southwest International Mining Association, Carlsbad, N.M.
12. Annual Meeting of the Arizona Section, Tucson, Arizona.

Student Chapters Visited During 1968 by C. J. Hicks

1. Colorado School of Mines, Golden, Colorado.
2. University of Arizona, Tucson, Arizona.
3. University of Utah, Salt Lake City, Utah.
4. University of Nevada (Mackay School of Mines), Reno, Nevada.

Most 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 staffs of Mining Engineering and Journal of Metals.

Conference Assistance

The Western Field Office directly assisted in the planning and execution of seven major mineral conferences held during 1968 and acted in an advisory capacity for several others.

Staff assistance in the following 1969 meetings is being, or will be, supplied by the Western Field Office:

February 16-20	98th AIME Annual Meeting, Washington, D. C.
April 17-19	Pacific Northwest Metals and Minerals Conference, Coeur d'Alene, Idaho.
May 17-18	MBD Subsection (Colorado Section) Annual Meeting, Colorado Springs, Colorado.
May 22-24	Fourteenth Annual Minerals Symposium, Casper, Wyo.
June 2-4	Southwest Metals and Minerals Conference, Las Vegas, Nevada.
September 17-19	SME Fall Meeting-RMMC, Salt Lake City, Utah.

Reports

A comprehensive monthly report of the activities and plans of the Western Field Office was submitted to the Executive Director and Secretary with copies to the Assistant Secretary, AIME, and the three Society Secretaries. Included in these reports were comments believed worthy of Staff attention, gained from correspondence and conversation.

In addition, three quarterly reports to members of the Rocky Mountain Income Fund Committee were sent during the year. This Committee was dissolved during the fourth quarter of 1968. The Western Field Secretary gratefully acknowledges the valuable support of the Committee.

### News Letters

Quarterly news letters, under the title "Field Notes," containing lightly written news and comments of interest to Western Sections were distributed to 260 members per issue. This total included Section and Subsection Chairmen, Vice-Chairmen and Secretaries, faculty sponsors of Student Chapters, and AIME, TMS and SME Boards of Directors.

### Manual Distribution

The looseleaf manual written by the Western Field Secretary, descriptive of the suggested responsibilities of Section Officers, was distributed to each 1968 Section and Subsection Chairman of Mining and Metallurgical groups and will be distributed to 1969 Section and Subsection Chairmen as they become known.

### 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. All except 27 Sections, 10 Subsections and 30 Student Chapters in continental North America (excluding Petroleum Sections and Student Chapters which are administered by the SPE office) were covered. In addition, several foreign Sections were visited by volunteer officers. Assignments for the 1969-70 Institute year are being developed.

### Student Summer Employment

A program designed to help students of minerals engineering obtain temporary summer employment was continued by this office. Three hundred twenty-eight companies actively engaged in mining and/or metallurgical operations were contacted and requested to consider offering summer employment to students of minerals engineering. A total of 38 companies responded positively with over 795 job openings. Twenty-five other companies replied to the effect that they had no jobs available or that commitments had already been made. Faculty Sponsors of Student Chapters at 61 colleges of minerals engineering were supplied, simultaneously, with the necessary information regarding the openings so that interested students might make application directly to the employer.

### Career Guidance Filmstrips

Three hundred packaged minerals career guidance sound filmstrips and printed transcriptions of the tapes, as authorized for production by the Rocky Mountain Income Fund Committee, were received in 1967 from their producer, Herald Carlston of the University of Utah. Two hundred sixty-nine kits were wrapped and mailed by the Western Field Office and included a letter of transmittal from R. W. Taylor and SME and TMS career guidance brochures. Distribution was made to all domestic Sections, Subsections, Student Chapters, WAAIME Sections and U. S. Bureau of Mines Stations, plus several foreign AIME bodies.

As a result of 206 mailings of samples of brochures descriptive of the AIME Career Filmstrips, 16 groups have requested a total of 3700 brochures, to date. These orders have been filled.

#### 1968 Henry Krumb Lecture Series

The 1968 AIME Krumb Lecturers were F. C. Kruger, V. E. McKelvey and J. R. Miller. The Western Field Office acted as coordinating agency between the lecturers and the AIME Sections and Subsections at which their lectures were given. Twenty-eight presentations were accomplished throughout the country during 1968. The program remained within the allotted budget.

#### New Subsection

A new Subsection of the Colorado Plateau Section (Grand Junction, Colorado based) was granted AIME Board approval. The San Juan Subsection, as it is named, will provide Institute services to members residing in and around the southwestern Colorado communities of Ouray, Montrose, Telluride and Silverton.

#### Rossiter W. Raymond Award and Alfred Noble Prize

In its administration of the Rossiter W. Raymond Award, the Western Field Office forwarded 35 papers meeting eligibility requirements to the committee for consideration in making their selection of a recipient of the award. Committee members will now review additional manuscripts to determine which one will be entered in the Noble Prize Award.

#### All-Institute Programming

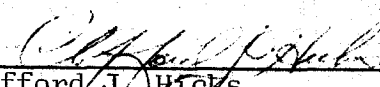
Acting in staff support of James Keeler's All-Institute Program Committee, the Western Field Office aided in the compilation of data relating to the All-Institute Programming of the 1969 Annual Meeting in Washington. Periodic reports were issued to appropriate personnel.

#### Plans for 1969

Plans are to continue and, if deemed necessary, expand all aforementioned services and functions.

Sincerest thanks are offered to the many Institute members whose helpful comments, willing cooperation and warm hospitality made 1968 a successful and rewarding year.

Respectfully submitted,

  
Clifford J. Hicks  
Western Field Secretary, AIME

REPORT  
of the  
EXECUTIVE SECRETARY OF THE SOCIETY OF PETROLEUM ENGINEERS OF AIME

The Society of Petroleum Engineers of AIME enjoyed its best membership year in a decade during 1968. At year's end, membership was 17,026, an all-time high. The Society's publications, meetings, membership and other member services programs contributed to a highly successful year.

The year also saw major changes in the Society's organization. The regional alignment of local sections was reshaped, and the Society headquarters staff in Dallas underwent major changes with Joe Alford's move to AIME headquarters as Executive Director.

PUBLICATIONS: JOURNAL OF PETROLEUM TECHNOLOGY  
SOCIETY OF PETROLEUM ENGINEERS JOURNAL

A total of 445 manuscripts were handled by the SPE Publications Department in 1968. The Society established records for the number of pages published in the quarterly SOCIETY OF PETROLEUM ENGINEERS JOURNAL (SPEJ) and in the number of preprints issued for the Annual Fall Meeting. During the year, a redesign study for the monthly JOURNAL OF PETROLEUM TECHNOLOGY (JPT) was conducted.

Manuscripts Handled by 1968 Committees:

Carried over from 1967 -----	67
Papers received in 1968 -----	<u>378</u>
Total	445

Disposition of Papers:

Published as JPT Forums -----	14
Published as Technical and Professional Papers in JPT -----	65
Published as Transactions Papers in JPT -----	33
Published as SPE Forums -----	2
Published as Technical and Professional Papers in SPEJ -----	3
Published as Transactions Papers in SPEJ -----	41
Declined for Publication -----	78
Withdrawn -----	48
Pending Action -----	130
Approved for Publication in JPT -----	12
Approved for Publication in SPEJ -----	<u>19</u>
Total	445

<u>Types of Papers Published</u>	<u>No. of Papers 1968</u>
JOURNAL OF PETROLEUM TECHNOLOGY	
Forum -----	14
Technical and Professional Paper -----	65
Transactions Paper -----	33
SOCIETY OF PETROLEUM ENGINEERS JOURNAL	
Forum -----	2
Technical and Professional Paper -----	3
Transactions Paper -----	41
TOTAL PAPERS PUBLISHED -----	155

<u>Pages Published</u>	<u>1968</u>
JOURNAL OF PETROLEUM TECHNOLOGY	
Editorial Pages -----	989.8
Administrative Pages -----	72
Advertising Pages -----	410.2
Technical Bulletin, September Issue -----	28
Total Pages, JPT -----	1,500
SOCIETY OF PETROLEUM ENGINEERS JOURNAL	
Editorial Pages -----	456
Advertising and Administrative Pages -----	42
Total Pages, SPEJ -----	498
TOTAL PAGES PUBLISHED, JPT and SPEJ -----	1,998

JPT is mailed to all SPE members. SPEJ is mailed free of charge to all SPE members who request it. Net circulation for JPT was 18,679 during 1968. Net circulation for SPEJ was 4,375.

#### PUBLICATIONS: TRANSACTIONS

Transactions Volume 243, to be published in May, 1969, will have 712 pages. The figure compares with 784 pages in 1967, 720 in 1966, 672 in 1965, and 684 in 1964.

#### PUBLICATIONS: MEMBERSHIP DIRECTORY

A record 212 pages appeared in the 1968-69 SPE Membership Directory. Issued free of charge to SPE-AIME members who request it, production costs totaled \$8,992 and advertising income was \$6,116. The Directory is composed by computer printout.

PUBLICATIONS: MONOGRAPHS

Due to the heavy demand from members, the Society reprinted 3,000 copies of "Pressure Buildup and Flow Tests in Wells," by C. S. Matthews and D. G. Russell. During 1968 the Monograph Committee gave final approval to the second manuscript in the series, "Hydraulic Fracturing," by G. C. Howard and R. E. Fast. Publication is expected during 1969.

Other monographs now in preparation include:

"Multiphase Flow in Pipe"  
 "Profitability Criteria"  
 "Cementing"  
 "Reservoir Engineering Aspects of Waterflooding"  
 "Gas Well Performance"

PUBLICATIONS: PREPRINTS

The Society has continued its program of providing members with preprints of papers presented at SPE meetings. A record number of preprints were produced for the 43rd Annual SPE Fall Meeting in Houston. The average production cost per preprint has decreased from 11.9 cents in 1958 to 7.1 cents each in 1968.

SPE ANNUAL FALL MEETING

No. Preprints -----	155
No. Pages -----	1,765

SPE REGIONAL MEETINGS

No. Preprints -----	142
No. Pages -----	1,704

PUBLICATIONS: TRANSACTIONS REPRINT BOOKLET COMMITTEE

A three-member committee--headed by Necmettin Mungan, Petroleum Recovery Research Institute in Calgary--was named to establish guidelines and to select future topics for the SPE Transactions Reprint Series. Other members include Howard J. Ritts, Jr., Gruy Management Company; and Arlie M. Skov, Sohio Petroleum Company.

PUBLICATIONS: CAREERS IN PETROLEUM ENGINEERING

The Society published 15,000 copies of a redesigned "Careers in Petroleum Engineering" booklet. The 16-page booklet was made available to SPE-AIME local sections and petroleum engineering departments for use in career guidance work.

PUBLICATIONS: PETROLEUM ENGINEERING SCHOOLS BOOKLET

The 1968-69 edition of "Petroleum Engineering Schools of the United States" was published late in 1968. The booklet, prepared by the SPE Activities

Department, contains enrollment information and degree data on the 27 colleges and universities that grant degrees or options in petroleum engineering.

### MEMBERSHIP

SPE's membership was 17,026 at year's end. The net gain of 809 over 1967 represented the largest increase since 1958. Corporate membership was 16,165, and there were 861 student members. The 1,316 new member/reinstatement applications received represented an increase of 87 over the number received during 1967. A highly successful six-month membership contest was conducted early in 1968. The contest, plus a new prospect list, continuing education programs, and active membership work at regional meetings were credited with much of the success of the program.

	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>
SPE Membership	14,896	15,577	16,217	17,026
New Member/Reinstatement Applications Received *	1,169	1,228	1,229	1,316
Members Lost (resignations, dropped owing dues, deaths)	988	1,137	999	1,065

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

In the move designed to coincide with the new operating year for SPE-AIME local sections, the Society changed its membership year to the July 1-June 30 schedule. Since most sections do not meet during the summer months, the schedule permits a membership chairman to start his program in September and follow it through without interruption until he leaves office on June 30. The date of the annual Membership Committee meeting also was changed from the spring to the time and place of the SPE Annual Fall Meeting.

### MEETINGS

The Society's 43rd Annual Fall Meeting set an all-time attendance record of 5,030 persons--including 3,986 men and 1,044 women. The new record topped the previous high of 4,361--set in 1967--by 669. A total of 172 papers were presented at the 1968 Fall Meeting in Houston, and the technical-educational exhibit show included 244 booths, both records.

A total of 16 regional and student meetings were conducted during the year. A summary of attendance at regional meetings follows:



<u>City</u>	<u>Attendance</u>	<u>Number of Papers on Program</u>
Bakersfield, California	946	27
Baton Rouge, Louisiana (Student)	110	26
Billings, Montana	237	15
Charleston, West Virginia	266	16
Corpus Christi, Texas	240	8
Dallas, Texas (Economics)	661	15
Dallas, Texas (Numerical Simulation)	273	19
Liberal, Kansas	97	10
Milano, Italy	50	12
Norman, Oklahoma (Student)	45	4
Omaha, Nebraska	157	15
Saudi Arabia	250	40
Stillwater, Oklahoma	101	14
Wichita Falls, Texas	470	11
Monahans, Texas	450	9
Hobbs, New Mexico	175	11

#### DISTINGUISHED LECTURER PROGRAM

One of the Society's most popular member service programs, the Distinguished Lecturer Series, reached 6 sections, subsections, and student chapters during the 1967-68 season. The program is financed by the participating local organizations, the AIME Henry L. Doherty Fund, and the SPE Activities Fund. The 8 lecturers presented 125 programs during the year.

The 1967-68 lecturers were:

- John M. Campbell, The University of Oklahoma
- Norman J. Clark, Norman J. Clark Engineering
- Henry F. Coffey, CER Geonuclear, Inc.
- R. C. Earllougher, Earllougher Engineering
- C. S. Matthews, Shell Development Company
- D. G. Russell, Shell Oil Company
- H. J. Ramey, Jr., Stanford University
- H. K. van Poolen, Marathon Oil Company

#### SPE-AAPG INTERDISCIPLINARY LECTURE SERIES

In cooperation with the American Association of Petroleum Geologists, the Society launched the SPE-AAPG Interdisciplinary Lecture Series. Dr. C. H. Hewitt, Associate Research Director of Marathon Oil Company's Denver Research Center, spoke to 11 joint SPE-AAPG meetings during the year.

#### AWARDS: INSTITUTE AND SOCIETY

The AIME Anthony F. Lucas Gold Medal for 1968 was presented to Antonius F. van Everdingen, DeGolyer and MacNaughton, Dallas.

The Society presented the following major awards during 1968:

Cedric K. Ferguson Medals

David A. T. Donohue,  
Pennsylvania State University

Harvey S. Price, Gulf Oil Corp.

DeGolyer Distinguished Service Medal

John R. Suman, retired, Humble  
Oil & Refining Company

Certificates of Service

Howard C. Pyle, Reserve Oil and  
Gas Company

Floyd E. Schoonover (posthumously),  
Humble Oil & Refining Company

John Franklin Carll Award

George H. Fancher, retired,  
Sinclair Oil and Gas Company

Lester C. Uren Award

C. J. Coberly, Sr., Kobe, Inc.

#### AWARDS: PESA SCHOLARSHIP

For the second year, the Society joined with the Petroleum Equipment Suppliers Association in the selection of two recipients for the PESA scholarships. Winners of the \$750 scholarships for 1968-69 were Ronald Braeutigam, The University of Tulsa; and James Denny, III, University of Southwestern Louisiana.

#### CONTINUING EDUCATION

During 1968, the Society issued the second in its series of video-tape continuing education courses. The second course, "Fundamentals of Reservoir Engineering, Part II," by Ben H. Caudle, The University of Texas, is a companion course to "Fundamentals of Reservoir Engineering, Part I," which was completed in 1967.

To date, more than 600 SPE members in 12 local sections have completed Part I, and over 100 SPE members have taken Part II. Using playback equipment and television monitors provided by the Society, SPE members have enrolled for the courses at a cost of \$25 per member. Each student has received a booklet containing notes for the course. Completion certificates were awarded to members who completed minimum requirements for the course.

The SPE video-tape program is designed to supplement the courses sponsored by local sections. Some 25 SPE local sections have sponsored or co-sponsored formal continuing education courses, and 15 conducted courses of this type during 1968. By year's end, more than 70,000 cumulative man-hours of SPE-sponsored courses had been completed.

Plans were developed late in 1968 to construct a video-tape studio in the Dallas SPE headquarters office for the purpose of taping additional continuing education courses.

#### FINANCE

The Society's consolidated income for 1968 totaled \$796,255--up more than \$110,000 from the \$685,872 in 1967. Income exceeded expenses by \$61,415. Total assets for the SPE Activities Fund at the end of 1968 were \$473,651.37.

#### ORGANIZATION: REGIONAL

Major revisions in the Society's regional organization plan were approved during 1968. The plan reduced the number of administrative regions from 12 to 9 and created four new at-large positions on the SPE Board of Directors. The new alignments were made to provide better member representation on the SPE Board. The addition of four new at-large directors permits more flexibility in the selection of new directors because at-large directors can be selected from any geographical area.

#### ORGANIZATION: LOCAL SECTIONS

No new SPE-AIME local sections were added during 1968, but the Chicago Petroleum Section was reactivated following a six-month period of inactivity. A total of 60 local sections and 1 sub-section constitute the SPE organization, including seven sections outside the United States. Affiliated groups include the Calgary and Edmonton sections of the Petroleum Society of the Canadian Institute of Mining and Metallurgy, and the Libyan Association of Petroleum Technologists.

During the year, the Society's Board of Directors encouraged local sections to change their operating year to a July 1-June 30 schedule. Since most SPE local sections do not meet during the summer months, the move was designed to permit sections to operate on a nine-month schedule with no interruptions. At year's end, 55 local sections and the 1 sub-section had changed to the new membership year.

#### SECTION VISITATION

SPE officers and staff members visited 24 sections during 1968. All the local sections in the United States were visited by the regional directors. A list of the sections visited by 1968 SPE President H. J. Gruy is as follows:

Dallas	Gulf Coast	Mid-Continent
Delta	Hobbs Petroleum	Northern Plains
Fort Worth	Los Angeles Basin	San Joaquin Valley

Members of the SPE headquarters staff visited the following sections:

Anadarko Basin	Los Angeles Basin
Appalachian Petroleum	Mid-Continent
Balcones	Netherlands
Chicago Petroleum	North Texas
Dallas	Northern Oklahoma
Delta	Northern Plains
East Texas	Oklahoma City
Fort Worth	Permian Basin
Gulf Coast	San Joaquin Valley
Hobbs Petroleum	Saudi Arabia
Italian	Southwest Texas
Libyan Association of Petroleum Technologists	Trans-Pecos

#### HEADQUARTERS STAFF

On December 6, 1968, David L. Riley was named SPE Executive Secretary, replacing Joe B. Alford, who was named AIME Executive Director.

As of December 31, 1968, the SPE headquarters staff consisted of the following persons:

David L. Riley, Executive Secretary  
Mrs. Maxine Emerson, Secretary

Dan K. Adamson, Assistant Executive Secretary  
Publications Manager  
Stan R. Houston, Assistant Editor  
Miss Ann Gibson, Production Manager  
Mrs. Barbara Dray, Secretary  
Mrs. Sally Wiley, Special Publications Supervisor  
Mrs. Mary Jane Ellis, Editorial Assistant

Michael D. Corley, Advertising and Exhibits Manager  
Prentice F. Geddie, Assistant Advertising and Exhibits Manager  
Mrs. Sharon Clifton, Secretary

Douglas L. Ducate, Activities Manager  
Miss Susan Moore, Activities Secretary  
Mrs. Karen Lee, Membership Secretary

David Holloman, Business Manager  
Mrs. Anna Moore, Business Secretary-bookkeeper  
Miss Carol Churchwell, Receptionist  
M. C. Sirles, Mail Clerk and Printer

Respectfully submitted,

*David L. Riley*

David L. Riley  
Executive Secretary

## REPORT

of the

## SECRETARY, SOCIETY OF MINING ENGINEERS OF AIME

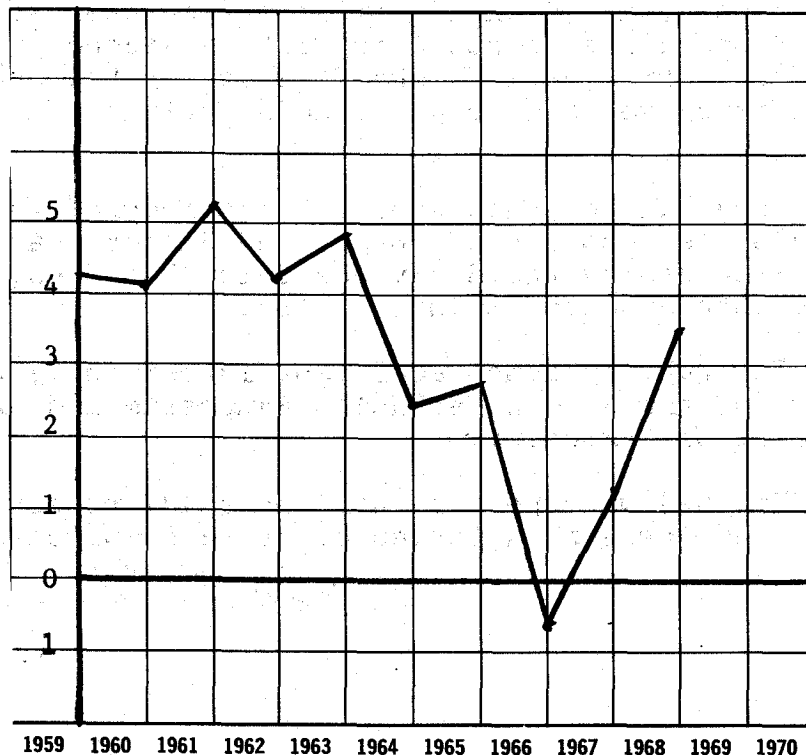
This report will cover the period from February 1968 through February 1969, except all financial data will apply to the period December 1, 1967 through November 30, 1968. This is the third year that AIME has been on a fiscal year dating from December 1, 1967 through November 30, 1968. This year it was necessary to draw upon the SME Activities Fund to the tune of \$4400 to balance operating deficits in normal operations and the SME Fall Meeting. The balance in the SME Activities Fund at the end of 1968 was \$117,428 compared to \$116,740 at the end of fiscal 1967.

In this report we shall examine all phases of Society activity and report briefly on each. It is not our intention to cover the same ground as will be covered in the reports from the committee chairmen.

PUBLICATIONS

Net publication expense during fiscal 1968 was \$3.53 per member. This is considerably higher than last year. It is, however, considerably less than in 1961, when it was \$5.28 per member. See Figure 1.

SME PUBLICATIONS EXPENSE - PER MEMBER



As usual, the fare was varied in proportion to the members' interests. There were four feature issues - the Annual Review in February, July Membership Roster and ERF, September Fall Meeting and October Report, this time on Nickel.

Digests of Transactions papers, a new feature, was introduced in August. Full color illustrations were used in June, September and October.

### TRANSACTIONS

The Reader Review Committees considered 265 papers in 1968. Of these 176 papers (562 pages) were printed in the Transactions of the Society of Mining Engineers of AIME. The Quarterly, starting with the March issue, enjoyed a new cover and masthead.

Thirty nine papers have been accepted and are awaiting publication.

During 1968 the SME issued special volumes:

Fracture and Breakage of Rocks  
Status of Practical Rock Mechanics  
Coal Preparation  
Surface Mining  
Ore Deposits of the United States

The first two were Proceedings of the eighth and ninth Rock Mechanics symposia respectively. They were financed by the SME Activities Fund. Both are financial successes. The VIII Rock Mechanics Proceedings is now going into a second printing. Surface Mining and Coal Preparation were financed by the Mudd Fund. The first is already going into a second printing. The other is selling well.

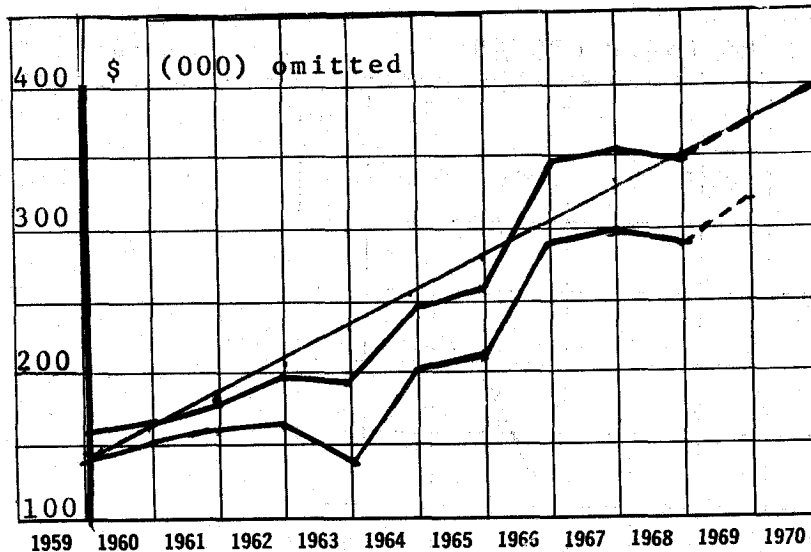
Long awaited successor to the Lindgren Volume, the Graton-sales volume Ore Deposits of the United States, was an immediate success. Financed by the Rocky Mountain Club Fund, it will probably have to go into a second printing, too.

The Publications Department is currently working on the Proceedings of the X Rock Mechanics Symposium and Proceedings of the Rapid Excavation Symposium.

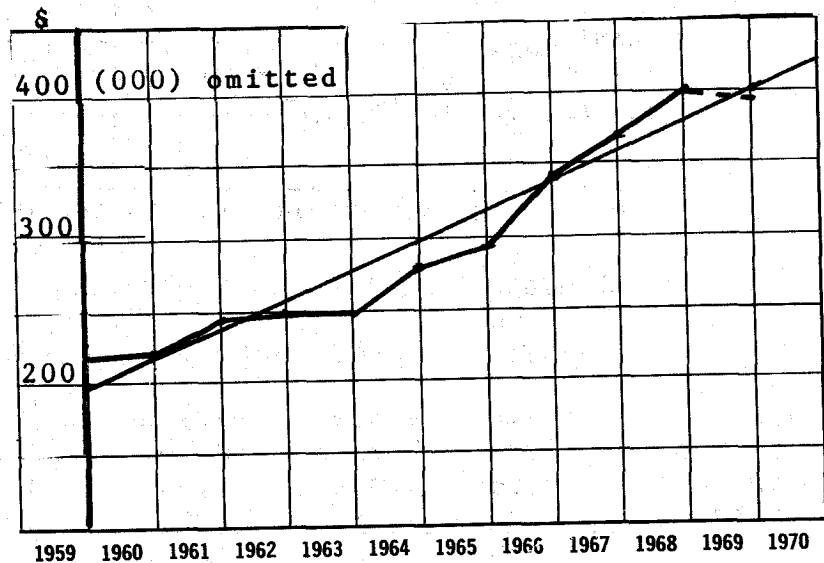
In 1969 we expect to sell more advertising, present a strong Fall Report and present a series of articles based on John Beall's Far East trip.

Figure 2 shows how Publications Income has varied over the past ten years. The trend line indicates an average increase of \$24,593 per year. Figure 3 shows that Publications Expense has also been increasing but at a somewhat slower rate, about \$20,400 per year - currently a 5% overall increase. If these trends continue Publications should be self supporting by 1973.

PUBLICATIONS INCOME  
ADVERTISING INCOME



PUBLICATIONS EXPENSE

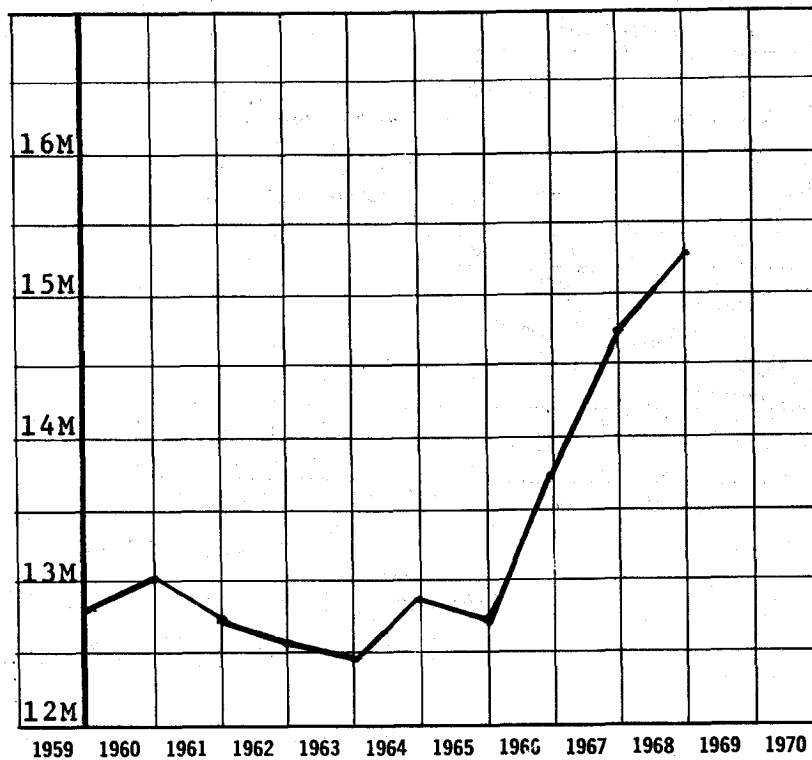


### MEMBERSHIP DEVELOPMENT

Figure 4 presents the results of membership development effort over the last decade.

The rapid rise since 1965 is due to a variety of causes but principally to the hard work of conscientious membership chairmen who coordinate their efforts and those of Headquarters to produce the results shown.

**SME MEMBERSHIP GROWTH**



On January 1, 1969 SME Membership stood at 15,427.

	<u>1969</u>	<u>1968</u>	<u>1967</u>	<u>1966</u>	<u>1965</u>
Members	10,328	9,892	9,401	8,202	8,624
Associates	2,372	2,214	2,080	1,903	1,824
Juniors	1,722	1,610	1,601	1,500	1,571
Students	<u>1,005</u>	<u>773</u>	<u>664</u>	<u>574</u>	<u>523</u>
Total	15,427	14,489	13,746	12,899	12,542



While the general increase in membership is gratifying, the growth in Student Membership is especially noteworthy. It certainly looks as if the Student Guidance work of AIME and SME members is bearing fruit.

Just as important as membership development is membership retention. At the end of 1968 only 383 members were dropped for nonpayment of dues 2.48%, almost the same as last year when 2.44% were dropped for the same reason, this when the base, the membership at year end, was 6.47% higher.

### MEMBER SERVICES

In 1968 the SME Group Insurance programs continued to grow. Benefits to those enrolled were again increased.

Many members took advantage of the SME Personnel Service through the pages of MINING ENGINEERING and prospective employers also used the facilities to good advantage.

### MEETINGS

Of the 4602 registrants at the 97th AIME Annual Meeting in New York almost half professed SME as their paramount interest.

As mentioned elsewhere, SME will publish the Proceedings of the X Rock Mechanics Symposium and the Rapid Excavation Symposium. SME was co-sponsor of both these meetings.

The Coal Division Spring Field Meeting in Marion, Ohio attracted 414 registrants.

The SME Fall Meeting/Exhibit and II International Surface Mining Conference in Minneapolis, Minnesota was an outstanding success. There were about 1400 registrants from the United States and 26 foreign countries.

SME Members, as usual, took prominent part in other Local and Regional meetings throughout the country. Among them were the Pacific Northwest Metals and Minerals Conference, the Southwest Pacific Metals & Minerals Conference, Pittsburgh Off-the-Record Meeting, Appalachian Section Annual Meeting, Arizona Section Annual Meeting, Minnesota Section Annual Meeting and Annual Mining Symposium and others.

SME is grateful indeed to Program Chairman R. Maclin Stewart, and his Committee; Evertt M. White, B. F. Buie, F. W. Bloecher, P. W. Guild, S. H. Hanke and the committees of each of the Divisions.

1968 STAFF TRAVEL

Jan. 11-12	Salt Lake City, Utah	JVB
	Washington, D. C.	JCF
13-19	Las Vegas, Nev. Sand & Gravel Show	JVB, RWW
16-17	Duluth, Minn. Annual Mining Symposium	PCM
Feb. 25-29	New York -AIME Annual Meeting	JCF, JVB, PCM, JW, RWW, LED, RMO, MW, ELS
Mar. 27-28	Minneapolis, Minn. Re: Fall Meeting	JVB
Apr. 17-20	Marion, Illinois-Coal Div. Spring Mtg.	JCF, JW
20	St. Louis, Mo. Re: 1970 Fall Mtg.	JCF
	Riddle, Oregon-Re: Special Issue ME	PCM
May 14	Minneapolis, Minn. Re: 1968 Fall Mtg.	JVB
May 15-17	Los Angeles, S.W. Pac.M&M Conf.	JCF, JW
18	Prescott, Ariz. - AIME Section Mtg.	JCF
19-25	San Antonio, Texas-Inter American Conference on Materials Technology	JCF, JVB
June 27	Chicago, Ill. Re: 100th Anniversary Committee	JCF
July 8	Sudbury, Canada - Editorial	JVB
8	Washington, D. C. - Editorial	JW
24-28	Edmonton, Canada Sheritt	JW
Aug. 6-8	Toronto, Canada-Editorial	PCM, JW
25-28	Atlanta, Ga. - ASAE Meeting	JCF
Sept. 12-21	Minneapolis, Minn. SME Fall Meeting	JCF, JVB, LED,
	II ISMC	RMO, MW, RWW
30	Houston, Texas - AIME Board	JCF
Oct. 1	Houston, Texas-SW Reg. Council of Section Delegates	JCF
6-11	Las Vegas, Nev. - AMC Meeting	JVB, RH
Oct. 16 - Dec. 24	Far East - Editorial	JVB
Nov. 1	Pittsburgh, Pa. - Pittsburgh Section Off-the-Record Meeting	JCF
1-2	White Sulphur, Va.-Central Appalachian Section	RRK
Dec. 12	New York City -NY Section WAAIME-AIME	JCF
At various times during year	N.Y. Section Meetings	JCF, JVB, PCM, JW, RRK

### HONORS AND AWARDS

The following SME Members were honored in 1968.

F. Cameron	D. C. Jackling Award & Lecture
N. J. Dunbeck	H. W. Hardinge Award
F. W. McQuiston, Jr.	R. H. Richards Award
C. M. Brinckerhoff	W. L. Saunders Gold Medal
J. F. Abel	R. Peele Memorial Award
H. N. Egan	Best Presentation Award
J. E. Lawver	Best Presentation Award
S. H. Schurr	Mineral Economics Award
L. Obert and	
W. I. Duvall	Rock Mechanics Award
E. P. Pfleider	Mineral Industries Education Award

Legion of Honor Members Class of 1918 were:

Theodore Marvin  
Edward B. Jennings  
John J. Crowe

### STAFF ORGANIZATION

During the past year there were several changes in the staff of the Publications Department. Mr. George Bookhard left and Miss Marilyn Ward has taken over most of the duties of Production Manager. Miss Carol Holland is secretary and runs the Preprint Department. Mr. Jack Ward has left the staff to be succeeded by Dr. Raymond R. Knowles as assistant editor. Mrs. Vera Dailey replaced Miss Susan Davis in an editorial position. Mrs. Emily Soell left to go with the Reuben H. Donnelley Corp. Mr. Paul C. Merritt resigned his position as Editor to go with the Stauffer Chemical Company, thus terminating his nine years employment with SME. Donald R. Tone was succeeded as Eastern Advertising Manager by Robert C. Holland.

### CONCLUSION

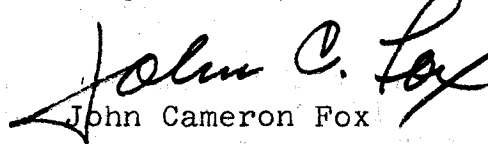
In the course of this report I have mentioned some of those who helped run the Society successfully this year. I haven't yet mentioned Mrs. Donaldson, Mrs. Orologio and Mrs. Ruiz, without whose help and patience we'd have a hard time functioning. John Beall has carried a heavy load during the year and acquitted himself extremely well. With the departure of Mr. Merritt, he is going to devote more time to the Publications Department and less to Membership and Meetings. In behalf of SME President Feierabend, the Directors and the more than 500 SME Officers and Committeemen, I wish to say thank you to them and the rest of the hard-working, loyal, SME Staff.

At the end of February 1969, Mrs. Louise D. Capria will retire. She started with AIME on June 8, 1953 as secretary to Ezra J. Kennedy. She remained with us when he retired, as Secretary in the Publications Department. Her role is that of Manuscript Control-Production Manager in the Transactions Department. However, she is knowledgeable in all areas of the Society's Publications. "If you want to know anything about 'Mining and Metallurgy', MINING ENGINEERING, or the Mining Transactions, ask Louise."

It is fitting to end this report with an expression of thanks to the AIME Executive Director and Secretary R. Wm. Taylor, who has gone on to greener fields, C. J. Hicks, Western Field Secretary and all the other members of the AIME staff who were helpful and cooperative during this period.

We welcome Joe B. Alford, who enters on his first year as AIME Executive Director and bid him good luck in the years ahead.

Respectfully submitted,

  
John Cameron Fox

2/'69

REPORT  
OF THE  
SECRETARY OF THE METALLURGICAL SOCIETY OF AIME  
FOR 1968

1968 has been a good year for The Metallurgical Society; remedial actions taken in 1967 have proved to have had solid foundation and results are focusing towards the solution of long standing problems. Some major areas of concern are still under active study: for example, the Long-Range Planning Committee has exclusively considered the existing structure of the Society and their conclusions and resulting recommendations will shortly come before the Board of Directors.

A similar study by TMS Executive Committee resulted in adoption of a new Publications Committee structure. Recognizing the differences in our several publications outlets the Board set up a guiding Publications Committee consisting of three members of the Board of Directors and established Transactions Committee, Journal of Metals Advisory Committee, and Proceedings Committee.

During 1968 TMS Board of Directors restated the objectives of the Society with the purpose of indicating the broad scope of the Society and of emphasizing the opportunity for greater participation by professionals in the materials field.

The objectives of the Society are to promote the advancement of knowledge in metals and materials and the advancement of the professions associated with them by:

- (a) Providing a medium of communication and cooperation among those interested in any phase of metallurgy or materials science and technology. This includes learning, practicing and advancing science, engineering, economy and technology concerned with metals and materials (both producer and consumer). The major fields encompass (1) the acquisition or increase in understanding and knowledge of behavior and properties, (2) the manufacturing practices for extracting, refining, producing and fabricating, (3) the development of new or improved metals, alloys and materials, and (4) their application to useful purposes.
- (b) Providing an organization to represent the profession on matters pertaining to education, including the encouragement of interest in and the advancement of education in the broad fields of metallurgical and materials science and engineering.
- (c) Disseminating knowledge and information through the holding of professional meetings, through the preparation, presentation, discussion and publication of technical

papers and through communicating, by any means, other items of interest to the members.

(d) Promoting high standards and unity within the profession.

### TECHNICAL CONFERENCES

The Metallurgical Society, through its units, sponsored or co-sponsored twelve conferences during calendar 1968:

			<u>Attendance</u>	<u>Number Technical Sessions</u>	<u>Number Papers Scheduled</u>
1.	February 25- March 1 New York	97th AIME Annual Meeting The Metallurgical Society	1,610	78	550
2.	April 1-3 Atlantic City	51st National Open Hearth and Basic Oxygen Steel Conference 27th Ironmaking Conference	1,109	8	24
3.	April 25-26 Washington	Symposium on "Metallurgy and Technology of Refract- ory Metal Alloys"	165	4	15
4.	May 16-17 Connecticut	22nd New England Regional Conference	157	4	12
5.	May 20-24 San Antonio	Inter-American Conference on Materials Technology	N/A	N/A	N/A
6.	May 21-24 London, U.K.	International Symposium on Titanium	416	8	119
7.	July 8-12 Beaver Dam	Engineering Foundation Res- earch Conference on Corros- ion, "Diagnosis of Corros- ion Failures."	N/A	N/A	N/A
8.	August 11-14 Chicago	9th Annual Electronic Mat- erials Conference	135	5	33
9.	September 4-6 Seven Springs	International Symposium on "Structural Stability in Ni-Base Superalloys"	198	5	19
10.	October 2-4 Gatlinburg	Nuclear Metallurgy Sympos- ium on "Materials for Radio- isotope Heat Sources"	107	5	25
11.	October 13-17 Detroit	TMS Fall Meeting	1,120	48	370

12.	December 2-3	Extractive Metallurgy Division Symposium on "Electrometallurgy"	143	4	14
	December 4-6 Chicago	26th Electric Furnace Conference	1,122	9	37
			<hr/>	<hr/>	<hr/>
		TOTAL	6,744	186	1,248

With the discontinuance of the Operating Metallurgy Conference, the Ironmaking Committee rejoined the NOH&BOSC at their April conference. January, 1969 will mark the return of the Mechanical Working and Steel Processing Conference as an independent meeting.

Submission of technical papers and the number of sessions continued to increase in 1968, however, there was a decline in overall meeting attendance. This decline was reflected mainly in the operating conferences.

1969 shows an ambitious meetings program for The Metallurgical Society as listed below:

1. January 22            11th Mechanical Working and Steel Processing Conference, Pittsburgh Hilton Hotel, Pittsburgh, Pennsylvania
2. February 17-20      98th AIME Annual Meeting, Washington Hilton Hotel, Washington, D.C.
3. April 14-16          52nd National Open Hearth and Basic Oxygen Steel Conference  
28th Ironmaking Conference, Royal York Hotel, Toronto, Ontario, Canada
4. May 12-15            TMS Spring Meeting, Pittsburgh Hilton Hotel, Pittsburgh, Pennsylvania
5. May 19-21            1st Annual Offshore Technology Conference and Exposition, Houston Convention and Exhibit Center, Houston, Texas (Co-sponsored by AIME, AAPG, AIChE, ASCE, ASME, IEEE, MTS, SEG, and SNAME)
6. August 25-27        Nuclear Metallurgy Symposium on "Reprocessing of Nuclear Fuel," Ames, Iowa
7. August 25-27        10th Annual Electronic Materials Conference, Statler Hilton Hotel, Boston, Massachusetts
8. September 15-17    "Intermetallic Compounds; Their Alloys, Ordering and Physical Metallurgy," The Sagamore Hotel, Bolton Landing, New York (Co-sponsored by IMD Physical Metallurgy Committee and AIME Hudson-Mohawk Section)
9. October 13-16        TMS Fall Meeting, Benjamin Franklin Hotel and Philadelphia Civic Center, Philadelphia, Pennsylvania, with ASM Materials Engineering Congress and Exposition

10. December 8-9 Extractive Metallurgy Division Symposium  
 December 10-12 27th Electric Furnace Conference, Sheraton-Cadillac  
 Hotel, Detroit, Michigan



### TECHNICAL INFORMATION EXCHANGE

The first Technical Information Exchange was held at the 1967 Operating Metallurgy Conference which falls into fiscal 1968. This initial attempt at service to industry resulted in favorable attention and financial success. The second TIE was held at the 1968 Electric Furnace Conference and was equally successful. Tentative plans for TIE at the new Spring Meeting are currently being developed.

# TRANSACTIONS

OF THE METALLURGICAL SOCIETY OF AIME

The prestige, efficiency and continuing improvement in the publication of TRANSACTIONS OF THE METALLURGICAL SOCIETY is a continuing benefit from the efforts of Transactions Editor Dr. Gerhard Derge, his associates and staff. The success of the publication is a result of the contributions of authors (member and non-member) and supporting organizations.

During 1968, TRANSACTIONS OF THE METALLURGICAL SOCIETY published an increase of 506 pages of technical information. The March issue contained papers presented at the conference on "Preparation and Properties of Electronic Materials: Compound Semiconductors; Materials for Integrated Circuits" (New York, New York, August 28-30, 1967), sponsored by the Electronic Materials Committee of the Institute of Metals Division of The Metallurgical Society. This issue constituted the Proceedings of this conference and contained thirty technical papers, 196 pages of content.

Divisions of The Metallurgical Society contributed to TRANSACTIONS as follows:



<u>Division</u>	<u>No. of Papers</u>	<u>No. of Pages</u>
EMD	37	194.5
ISD	23	144.5
IMD	<u>258</u>	<u>1655.0</u>
	318	1994.0
March Issue	<u>30</u>	<u>197.0</u>
Totals	348	2191.0

Communications Published

<u>Division</u>	<u>No. of Papers</u>	<u>No. of Pages</u>	
EMD	9	14.5	
ISD	7	10.5	
IMD	<u>104</u>	<u>181.0</u>	
Totals	120	206.0	206.0
Title Pages			12.0
Blank Numbered Pages			<u>111.0</u>
Total Numbered Pages in TRANSACTIONS TMS-AIME			2520.0

SUBSCRIPTIONS

	<u>Member</u>	<u>Non-Member</u>	<u>Totals</u>
1966	2120	1269	3389
1967	2161	1406	3567
1968	2206	1396	3602

JOURNAL OF

*metals*

From December, 1967 through November, 1968, JOURNAL OF METALS published 1,219 pages. This is an increase of 147 pages over the same period in 1967. JOURNAL OF METALS Advisory Committee and TMS Executive Committee are cont-

inuing intensive studies that will hopefully result in the strengthening of JOURNAL OF METALS in service to the members and industry. During this year selected papers from the National Open Hearth and Basic Oxygen Steelmaking, Electric Furnace and Ironmaking Conferences were published in JOURNAL OF

48 METALS as well as their respective Proceedings Volumes. The breakdown of these papers is as follows:

Electric Furnace Committee	21 papers	108 pages
Ironmaking Committee	8 papers	36 pages
National Open Hearth and Basic Oxygen Steelmaking Committee	7 papers	25 pages

#### ADVERTISING IN JOURNAL OF METALS

	<u>1968</u>	<u>1967</u>	<u>1966</u>	<u>1965</u>
No. of Pages	118	194	206	238
Advertising Income	\$46,536	\$78,283	\$80,467	\$91,133
Advertising Expenses	\$36,465	\$54,650	\$48,488	\$52,348

#### PROCEEDINGS ADVERTISING

TMS advertising staff handles the advertising carried in Proceedings of the Operating Committees of the Iron and Steel Division. Fiscal 1968 follows:

	<u>Advertising Pages</u>	<u>Gross Income</u>
Vol. 24 Electric Furnace	37	\$8,535.00
Vol. 25 Ironmaking	31	\$7,665.00
Vol. 50 Open Hearth	<u>47</u>	<u>\$11,310.00</u>
Total	115	\$27,510.00

#### TIE ADVERTISING (1967 TIE - 1968 Fiscal Year)

Gross Income	\$8,900.00
Expenses	<u>\$3,235.68</u>
Net Income	\$5,664.32

#### JOURNAL OF METALS TECHNICAL PROGRAMMING

A total of 47 pages of technical programming for the units of The Metallurgical Society were printed in JOURNAL OF METALS during fiscal 1968:

<u>Meeting</u>	<u>No. of Pages</u>	<u>Issue</u>
97th AIME Annual Meeting	6	December
Symposium on Metallurgy & Technology of Refractory Metal Alloys	2	February

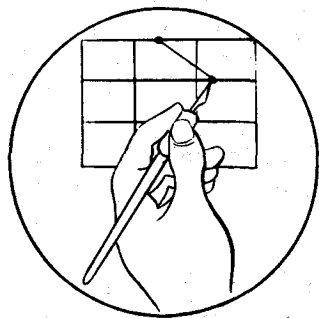
<u>Meeting</u>	<u>No. of Pages</u>	<u>Issue</u>
International Conference on Titanium	4	March
51st National Open Hearth and Basic Oxygen Steelmaking Conference and 27th Ironmaking Conference	13	March
22nd New England Regional Conference	2	April
Vacuum Metallurgy Conference	2	May
Symposium on Structural Stability in Superalloys	2	June
Nuclear Metallurgy Symposium	2	July
TMS Fall Meeting	3	September
26th Electric Furnace Conference and EMD Symposium on Electrometallurgy	8	October
11th Mechanical Working and Steel Processing Conference	<u>3</u>	November
Total	47	

### CONFERENCE ABSTRACTS

Abstracts for both the TMS portion of AIME Annual Meeting and TMS Fall Meeting were published in JOURNAL OF METALS January and August issues respectively. The January issue contained 511 abstracts and the August issue 348. Efficiency in lightening staff and committee work and production dollars was the result of initiating author composition and offset printing of abstracts into the JOURNAL OF METALS. This system, as indicated, has been highly worthwhile and continues to be studied for improvements in form and efficiency.

### CAREERS IN METALLURGY AND METALLURGICAL ENGINEERING

25,000 copies of a completely new edition of Careers in Metallurgy and Metallurgical Engineering have been produced and distributed during 1968. The entirely new information was written by Professor Richard E. Grace with the able assistance of Professor Morris E. Fine and produced by staff through funds from AIME. Demand for this publication has been greater than originally anticipated.



### TMS PAPER SELECTION PROGRAM

In an effort to make available papers presented at TMS meetings, other than those now published in established media, to those who cannot participate in the oral presentation, TMS initiated the Paper Selection Program during 1968. Individual copies of papers presented at TMS meetings for those authors choosing this outlet are available at meetings and through order coupons in JOURNAL OF

METALS. I am very pleased to report that 1,662 copies of individual papers

have been disseminated from March through November in 1968.

## TMS TRANSACTIONS SEPARATES

The Sub-Committee on Publications of the Long-Range Planning Committee effectively introduced TMS Transactions Separates Program. Individual copies of papers published in TMS TRANSACTIONS are now available at conferences sponsored by the Society and through order coupons in JOURNAL OF METALS. Previous to this, availability was only through quantity order or by written communication with the authors. This program has gotten off to a slow start, however, it is slowly gaining momentum. Awareness is a key factor, I believe, in this program and we look forward to providing this service to members and interested organizations. From September through November, 1968, 85 Transactions Separates have been disseminated.

### PROCEEDINGS VOLUMES

GORDON AND BREACH

**TMS**

  
**PLENUM**

Concentration on timely publications of conference proceedings by TMS editorial staff resulted in publication of:

- Volume 50 - TMS-AIME National Open Hearth and Basic Oxygen Steel Conference Proceedings, St. Louis, Missouri, April, 1967: 40 papers, 170 pages
- Volume 26 - TMS-AIME Ironmaking Conference Proceedings, Chicago, Illinois, December, 1967: 31 papers, 185 pages
- Volume 24 - TMS-AIME Electric Furnace Conference Proceedings, Philadelphia, Pennsylvania, December, 1966: 35 papers, 238 pages
- Volume 25 - TMS-AIME Electric Furnace Conference Proceedings, Chicago, Illinois, December, 1967: 39 papers, 199 pages
- Volume 13 - Plutonium Fuels Technology.(Nuclear Metallurgy) Proceedings of a Symposium sponsored by the Nuclear Metallurgy Committee of the Institute of Metals Division, October 4-6, 1967, Scottsdale, Arizona, edited by K. E. Horton, R. E. Macherey and R. J. Allio: 523 pages

Publications through contractual agreement with Gordon and Breach Science Publishers, Inc., resulted in the production of seven conference volumes between December, 1967 and November, 1968:

- Volume 37 - Radiation Effects. Proceedings of a Symposium sponsored by the Nuclear Metallurgy Committee of Institute of Metals Division, Asheville, N.C., September 8-10, 1965: 848 pages. Edited by W. F. Sheely

- Volume 39 - Pyrometallurgical Processes in Nonferrous Metallurgy. Proceedings of a Symposium sponsored by the Extractive Metallurgy Division, Pittsburgh, Pennsylvania, November 29-December 1, 1965: 517 pages. Edited by J. N. Anderson and P. E. Queneau
- Volume 40 - Methods of Materials Selection. Proceedings of a Symposium sponsored jointly by The Metallurgical Society, American Society for Metals, National Association of Corrosion Engineers, Florida State Technical Services and the University of Florida, Gainesville, Florida, May 23-25, 1966: 310 pages. Edited by E. D. Verink, Jr.
- Volume 42 - High Temperature Nuclear Fuels. Proceedings of a Symposium sponsored by the Nuclear Metallurgy Committee of the Institute of Metals Division, Delavan, Wisconsin, October 3-5, 1966: 515 pages. Edited by A. N. Holden
- Volume 43 - Magnetic and Inelastic Scattering of Neutrons by Metals. Proceedings of a Symposium sponsored by the Alloy Phases Committee of the Institute of Metals Division, Los Angeles, California, February 22, 1967: 229 pages. Edited by T. J. Rowland and Paul A. Beck
- Volume 45 - Energy Bands in Metals and Alloys. Proceedings of a Symposium sponsored by the Alloy Phases Committee of the Institute of Metals Division, Los Angeles, California, February 19, 1967: 185 pages. Edited by L. H. Bennett and J. T. Waber
- Volume 46 - Work Hardening. Proceedings of a Symposium sponsored by the Chemistry and Physics of Metals Committee of the Institute of Metals Division, Chicago, Illinois, November 1-2, 1966: 394 pages. Edited by J. P. Hirth and J. Weertman

Extensive research, legal consultation and negotiation during the middle of fiscal 1968 has resulted in the termination of the publishing contract with Gordon and Breach Science Publishers, Inc., an amicable release, providing further manuscripts under the time clause in that contract and a decrease in the tremendous delay and backlog of conference proceedings. I believe this to be one of the most significant steps taken by the Society and promises to be a major step in producing timely and economical conference proceedings, not only for registrants but for those having use for the information. Tangible demonstrations of publication through other publishers on an individual contract basis and through staff production of author composition offset printing have initially proved successful.

It is very interesting to note that during fiscal 1968 TMS published 6,833 pages of technical communications which is an increase of 782 pages over 1967 and 729 pages over 1966.

### STUDENT MEMBER ACTIVITIES

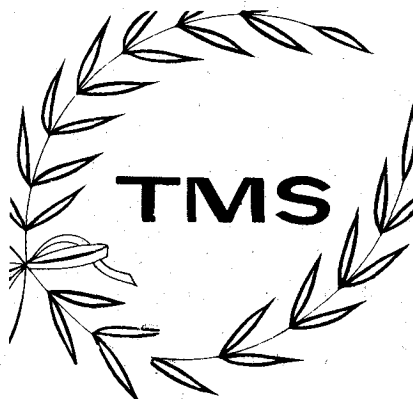
A re-evaluation of procedures and resulting refinement of service and cooperation with American Society for Metals has improved TMS-ASM student member activities.

AIME's student summer employment program was enhanced this year by the addition of sixteen more metallurgically oriented organizations as a direct result of an announcement to active TMS committeemen.

## MEMBERSHIP

A gain in membership of the Society for fiscal 1968 is shown in the following figures:

<u>Breakdown by Division</u>	<u>As of January 1, 1968</u>	<u>As of January 1, 1969</u>
Iron and Steel Division	3,611	3,604
Extractive Metallurgy Division	1,525	1,560
Institute of Metals Division	4,395	4,361
Council of Education	25	29
Council of Economics	75	78
Unclassified	<u>1,385</u>	<u>1,797</u>
Total Corporate	11,016	11,429
Student Members	<u>1,740</u>	<u>1,606</u>
Grand Total	<u>12,756</u>	<u>13,035</u>
<u>Breakdown by Grade</u>		
Members	6,484	6,624
Associates	1,822	1,857
Juniors	2,710	2,948
Students	<u>1,740</u>	<u>1,606</u>
Total	<u>12,756</u>	<u>13,035</u>



## HONORS AND AWARDS

### Fellows of The Metallurgical Society

Newly-elected Fellows of The Metallurgical Society installed at the 1968 TMS-AIME Annual Meeting in New York City were:

Marc L. Allard  
 Earl Hamlin Bunce  
 John Frank Elliott  
 Benjamin Lustman  
 Lloyd Montgomery Pidgeon

TMS Board of Directors has elected to the grade of Fellow:

Gerhard Derge  
 William J. Harris, Jr.  
 Maurice E. Shank  
 Kent R. Van Horn  
 J. Herbert Hollomon

The following awards were presented by The Metallurgical Society during 1968:

1. Robert Lansing Hardy Gold Medal

Craig R. Barrett was recipient of the Robert Lansing Hardy Gold Medal in recognition of his exceptional promise. 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

2. Champion H. Mathewson Gold Medal

The Champion H. Mathewson Gold Medal was bestowed upon Hubert I. Aaronson "for his extensive work toward a quantitative understanding of the development of morphology in metallic microstructure" as published in TRANSACTIONS OF THE METALLURGICAL SOCIETY OF AIME, May, 1966:

- a. Thermodynamics of the Austenite - Proeutectoid Ferrite Transformation. I, Fe-C Alloys
- b. Thermodynamics of the Austenite - Proeutectoid Ferrite Transformation. II, Fe-C-X Alloys
- c. Partition of Alloying Elements Between Austenite and Proeutectoid Ferrite or Bainite

3. Robert W. Hunt Award

The Robert W. Hunt Award was presented in 1968 to Lawrence S. Darken for his original papers on iron and steel, "Thermodynamics of Binary Metallic Solutions" and "Thermodynamics of Ternary Metallic Solutions", both published in TRANSACTIONS OF THE METALLURGICAL SOCIETY OF AIME in January, 1967

4. Extractive Metallurgy Division Award

EMD Award, given for best paper in the field of Extractive Metallurgy within a two-year period, was bestowed upon Nickolas J. Themelis and Paul Spira for their paper, "Flow Phenomena in Reverberatory Smelting", published in the June, 1966 issue of TRANSACTIONS OF THE METALLURGICAL SOCIETY OF AIME

5. The J. E. Johnson, Jr. Award

The J. E. Johnson, Jr. Award is given to encourage young men in creative work in metallurgy or manufacture of pig iron. The recipient of this award must be under forty when he completes the work meriting recognition. The 1968 recipient was Merle H. Schmidt "for his contributions generally in furthering blast furnace operating performance, but especially for his pioneering measurement work in rapid slag basicity, nuclear coke moisture determination and continuous hot metal temperature. All have improved quality and control."

6. 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 forty years of age. In 1968, it was presented to J. J. McCarthy and K. R. Bock for their paper, "Use of Low Manganese Hot Metal in Basic Oxygen Furnaces." This was published in the 1968 National Open Hearth and Basic Oxygen Steelmaking Conference Proceedings

7. Open Hearth Conference Award

"Runner-up" paper to McKune Award was presented to W. S. Suhay for his paper, "Production of High Carbon Steel in Basic Oxygen Furnace." This paper was also published in the 1968 National Open Hearth and Basic Oxygen Steelmaking Conference Proceedings

8. Charles H. Hertty, Jr. Award

For the best paper presented at the 1967 National Open Hearth and Basic Oxygen Steel Conference, and published in the 1967 National Open Hearth and Basic Oxygen Steelmaking Conference Proceedings, this award was presented to J. A. Glasgow and W. F. Porter in recognition of their paper, "Development and Operation of BOF Dynamic Control."

9. Ironmaking Conference Award

Given for the best paper at the 1967 Ironmaking Conference to S. A. Bell, J. L. Pugh and B. J. Snyder for their paper, "Coal Injection - Bellefonte Furnace", and published in the 1967 Ironmaking Conference Proceedings

10. Joseph Becker Award

This award was presented to Alfred R. Powell for his distinguished achievements in coal carbonization

11. T. L. Joseph Award

This award recognizes achievement in blast furnace technology and in 1968 was presented to D. P. Cromwell



## 12. Electric Furnace Conference Award

55

For the best paper presented at the 1967 Electric Furnace Conference and published in the Proceedings of the Electric Furnace Conference. This award was given to Malachi P. Kenney for his paper, "An Improved Metal Protective Atmosphere Casting Technique for Continuous Casting Control."

### Lectures

#### 1. 1968 Extractive Metallurgy Division Lecture

Ronald R. McNaughton - "The Lead Smelter Today"  
Published April, 1968 Transactions of The Metallurgical Society

#### 2. 1968 Howe Memorial Lecture (Iron and Steel Division)

Bernard Trentini - "Comments on Oxygen Steelmaking"  
Published December, 1968 Transactions of The Metallurgical Society

#### 3. 1968 Institute of Metals Division Lecture

D. McLean - "Resistance to Hot Deformation"  
Published July, 1968 Transactions of The Metallurgical Society



### FINANCES

For the second consecutive year TMS fiscal operation resulted in gain of revenue over expense. In fiscal 1968 the revenue gain was \$ 21,225 including \$ 9,277 interest on TMS Activities Fund.

### ACKNOWLEDGEMENT

The momentum and progress of TMS is a direct result of thousands of active members and authors. Certainly, it is impossible to publicly acknowledge all those who have contributed greatly to TMS in so many ways during 1968. Your Society has been admirably represented by President Michael Tenenbaum. In his role as Representative, Leader and Counselor he has given generously of his talents despite temporary barriers. Too, the Society is indebted to TMS Executive Committee for their enthusiastic leadership.

Respectfully submitted,

*Jack V. Richard*  
Jack V. Richard  
Secretary

JVR:bp