

1966 Annual Report

· **A I M E**



William B. Stephenson, President of AIME, center. Wayne L. Dowdrey, President of SME, top left. Albert E. Lee, Jr., President of TMS, middle. H. Mark Krause, President of SPE, bottom.

During its 95th year, membership of the American Institute of Mining, Metallurgical and Petroleum Engineers grew to more than 42,000. New records were set for attendance at the AIME Annual Meeting and for the Fall Meetings of the Societies.

1966 was the year in which the Institute and its Societies devoted special energies to career guidance. This effort resulted from the realization by AIME that the impending shortage of mining, metallurgical and petroleum engineers was worsening — rather than improving in step with the minerals industry economy as a whole. Through work by a special committee, new visual aids, manuals and booklets were developed.

1966 was the year in which AIME became more active in national affairs, to the extent that a representative of our National Affairs Committee participated in hearings before committees of the Senate and the House.

1966 was the year in which the Institute suffered the loss of a beloved staff member for 37 years, Activities Manager H. Newell Appleton.

I commend to you the reading of the entire Annual Report. An informed AIME member will be proud of his professional society.

William B. Stephenson
AIME President, 1966

AIME IN 1966

Engineering is a rapidly changing profession. Any organization which serves the engineering profession must respond to this change to be effective. During 1966, AIME continued to function as a dynamic organization, re-examining its methods of operation, installing new committees as required to serve new technologies, and responding to the desires of its members.

Through the flexible arrangement of the prestigious

Institute and its three Societies, AIME continues to provide unusual opportunity for member participation in its activities at all levels.

Growth may not be the best yardstick for measuring success, but it is one of the few available. Again in 1966 the Institute grew in membership, in total pages published, in total members served through meetings, and in types of service offered to members.

NATIONAL AFFAIRS

For the first time, AIME offered to the United States Senate and House of Representatives its official position on a matter relating to the minerals industry.

Appearing before committees of the Senate and the House, Dr. William J. Harris, Jr., of the National Affairs Committee, was prepared to present AIME's point of view. He had an AIME Board resolution supporting legislation giving contracting powers to the Department of the Interior; and he was prepared to present statistics on the need of contracting for research by the Bureau of Mines to universities, quoting from a report entitled "Needed: Federal Support for Extractive Metallurgy". This report was prepared by the National Affairs Committee and approved by the AIME Board.

Aided materially by the AIME testimony, the legislation was enacted into law late in the year.

A June meeting of the AIME Board was held in Washington, D.C. to enable Board members to hold a day-long conference with leaders of the Bureau of Mines. From this meeting came a series of programs to permit the Bureau and the Institute to interact more frequently on matters of common interest. Also from this meeting came the announcement that the Institute will consider development of a major document describing National Mineral Goals.

Completed earlier in the year and approved by the Board was a new policy governing AIME activity in national affairs. This called for meetings and publication of papers on matters relating to national affairs and for the Board from time to time to adopt official positions on matters of economic and national interest.



CAREER GUIDANCE

AIME's new "blue ribbon" Career Guidance Committee moved quickly and positively in 1966 to develop a six-pronged attack on the problem of attracting students to minerals engineering.

Established just one year ago, the committee had the following projects under development and close to completion at the end of 1966: (1) a film strip "glamorizing" the mineral engineering profession; (2) a film strip portraying the challenges of mining, metallurgical and petroleum engineering; (3) a career guidance booklet to accompany the filmstrips and re-emphasize their messages; (4) a booklet de-

scribing available scholarships and fellowships in mineral engineering; (5) development of a program for industry involvement in the mineral engineer shortage problem.

Already completed and in the hands of Section Career Guidance Committees is a manual describing successful "recipes" for local guidance activities.

AIME did not solve the problem during 1966, and the work of the Career Guidance Committee will continue. However, a full-scale attack on the shortage of mineral engineers was launched and positive results are expected.



MEETINGS

More AIME members attended meetings in 1966 than ever before. Attendance at all meetings sponsored by the Institute was approximately 20,000, 48 percent of the total membership.

The Fall Meeting of the Society of Mining Engineers surged to an all-time record of 1,600 (up 100 per cent) as the meeting in Tampa featured an outstanding program and excellent educational exhibits. In Chicago, The Metallurgical Society Fall Meeting also had an all-time record of 1,734 registrants, up 35 per cent from the past. The Society of Petroleum

Engineers Fall Meeting in Dallas had strong attendance with some 3,600 registrants.

In addition to these major meetings, others covered such specialized subjects as steelmaking, coal, oil shale, rheology, rock mechanics, electron and ion beams, and natural gas. The holding of 15 petroleum regional meetings was a record.

In response to regional interests, 1966 saw many one-day regional meetings designed to cover specific interests. One-day Section meetings also approached the special interest factor with good success.

PUBLICATIONS

AIME published more than 15,000 pages in 1966, in keeping with the Institute's goal of providing vital engineering information. The Institute's growing publications program also is placing increasing emphasis on quality of content.

Mining Engineering received special plaudits during 1966 for its special issues on phosphate and potash, copper and iron — complete with brilliant four-color photographs. The 394-page July issue contained the Engineers' Reference File and SME-AIME Membership Directory. The quarterly Transactions of SME contained 463 pages relating primarily to mining research.

Journal of Metals continued for the second year to publish proceedings from major iron and steel conferences. The monthly Transactions included a total of 1,748 pages during 1966. This publication is particularly renowned for its excellent coverage of the latest developments in physical metallurgy.

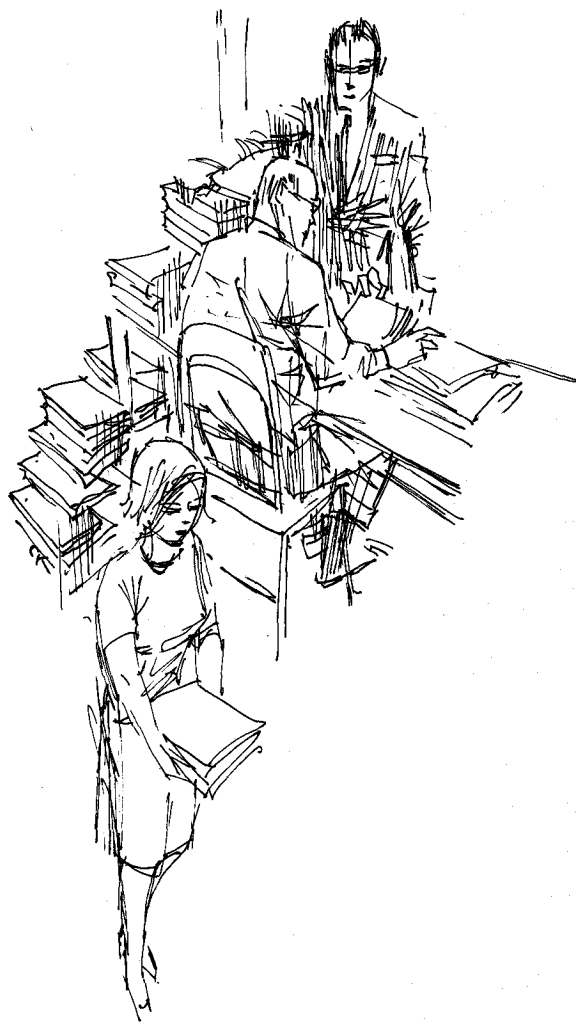
Journal of Petroleum Technology again was outstanding for its diversified coverage of excellent papers offered at national and regional meetings. Total pages published reached 1,706 — a new record. The quarterly Society of Petroleum Engineers Journal continued to publish petroleum research papers of exceptional long-range interest, and included a new high of 438 pages. The SPE preprint program provided 284 preprints to members.

Publication of the first annual Council of Economics Proceedings volume, with some 416 pages of outstanding papers, was a noteworthy development.

The Society of Mining Engineers proceeded in work of four books — "Surface Mining", "Coal Preparation", "Ore Deposits of the Western United States", and "Failure and Breakage of Rocks".

The first book of the Society of Petroleum Engineers Monograph series, "Pressure Buildup and Flow Tests in Wells", is near completion. Work has begun on other books in the series.

Ten books representing 6,100 pages were published in 1966 by the Metallurgical Society.



STUDENT AFFAIRS

An ambitious new Student Affairs Program introduced for 1966 stimulated a strong response from students and faculty sponsors.

Recognizing the faculty sponsor as a key person in building strong student chapters, the program recognizes the work of the sponsor in providing free AIME dues and a free Transactions volume to those with more than 15 students in their chapters.

To encourage more participation by students, the program provides a travel allowance to each chapter to permit students to attend important Institute meetings. Other aspects of the program include a quarterly Student Newsletter, an officer visitation program to student chapters, the Outstanding Student Chapter Contest and the Student Paper Contest.

The success of the program is shown by the resurgence of interest in the Student Paper Contest in 1966. From 16 entries in 1965, there were 54 in 1966. Winners of this year's contest were: Undergraduates Charles T. Cloud, SME, Ronald J. Livak, TMS, Ted Burgoyne, SPE. Graduates, L. Courtland Lee, SME, Phillip L. Hembree, TMS, A. Sapre, SPE.

In competition from some 80 student chapters, the following five were named winners of the Outstanding Student Chapter Contest: Louisiana Polytechnic Institute, New Mexico Institute of Mining & Technology, Northwestern University, University of Texas, West Virginia University.



MEMBERSHIP DEVELOPMENT

Quality and quantity both were goals of the 1966 membership development program, under the direction of AIME Membership Chairman Deane Kent. Institute membership increased more than 2,000 members in 1966, in spite of tighter membership qualifications.

After three years (1960-62) on a plateau of 36,000 members, AIME has now become one of the fastest growing technical and professional societies in the United States, with current membership at near 42,000.

Qualifications for Associate Members were upgraded by Board action. Associate Members now must, by accomplishment or professional standing, have attained a professional stature in other than engineering or science of the minerals, metals or petroleum industry.

Membership committees for the three Societies were quite active during the year. SPE stimulated interest through a contest which offered a trip to the World Petroleum Congress in Mexico City as first prize.

SME's efforts were directed through a "major company" program in which committee members in large companies identified qualified non-members and invited them to join. Run on a controlled basis for 1966, the program holds great promise for the future.

TMS has a wealth of potential members who attend many of the Society meetings, so its membership effort was directed largely to this source.

The All-Institute Membership Contest was focused through Section Membership Chairman. It featured six different contests, which were won by: Southwestern New Mexico Section, The Netherlands Section, Lou-Ark Section, Florida Section, St. Louis Section, New York Section.

An integral part of the Institute program revolved around the helpful monthly letters and telephone calls to Section membership chairmen by Deane Kent. Kent also conducted six regional membership clinics in conjunction with the regional meetings of the Council of Section Delegates.

SECTION ACTIVITIES

The year was one of unusual activity for Sections, as they were encouraged to do more in career guidance, continuing education and service to Student Chapters. The response by many Sections to these challenges was excellent.

Several Sections developed Continuing Education Committees to study the possibility of local programs described in manuals developed and distributed to Sections by the Continuing Education Committee. Ten petroleum Sections, stimulated by the SPE Continuing Education Committee, conducted successful courses during the year.



ENGINEERING FEDERATIONS

As an Engineering Founder Society, AIME has both the privilege and the obligation of supporting a number of engineering federations.

The Institute contributes some \$40,000 annually to the support of the Engineering Societies Library, Engineers Joint Council (EJC) Engineers Council for Professional Development (ECPD) and Junior Engineering Technical Society (JETS).

AIME has representatives serving on 78 inter-society committees and 41 members working with committees and boards of EJC and ECPD only.

These federations are important, for they attempt to weld certain activities of a splintered engineering profession. ECPD is instrumental in maintaining standards for engineering schools

New Career Guidance Committees were organized by many Sections to examine a new AIME Section Career Guidance Manual. The Manual described innumerable programs which had been successfully carried out by Sections, and several Sections immediately implemented programs which fitted their local conditions.

Attendance of representatives at regional meetings of the Council of Section Delegates reached an all-time high, resulting from the responsiveness of the AIME Board to recent recommendations from the Section Delegates.

Additional program help was provided to Sections through the Henry Krumb Lecture Series, which routed prominent lecturers to Sections with major portions of the expense borne by the Henry Krumb Endowment Fund. 1966 Krumb Lecturers were: James W. Guider, Scott W. Hazen, C. Law McCabe, Eric Morgan, A. W. Schlechten.

and career guidance. JETS works effectively in career guidance, and as 1966 closed its guidance efforts were being merged with those of ECPD.

EJC has exerted leadership in information retrieval, engineering manpower studies, and in stimulating interest in national affairs among member societies.

At the end of the year, plans were being completed to merge the Engineering Societies Library, Engineering Index and the information retrieval department of EJC into a United Engineering Information System. When this materializes the engineering profession will have available a much needed vehicle for information exchange to cope with the literature explosion.

FINANCES

Dues income in 1966 was \$724,454 or \$17 per member. Expenditures for the year were \$1,675,278 or nearly \$40 per member. AIME dues have not been raised since 1950, and following a study during 1966 by the Finance and Planning Committees, it was concluded that no increase is now needed.

AIME is particularly fortunate to hold sizeable endowment funds, contributed in earlier years by such industry leaders as Krumb, Jackling, Doherty, Mudd, Gemmell and Douglas. During 1966 AIME called upon its endowment fund income for more than \$100,000 to pay for such activities as Science Fair prizes, Krumb Lecture Series, support of JETS, development of career guidance visual aids, support of Engineering Societies Library, and support of the new Student Affairs Program, in addition to a number of other areas. Appropriations from custodian funds contributed almost \$53,000 to support of services.

Finances of the Society of Mining Engineers and Society of Petroleum Engineers were very satisfactory for the year because of exceptional increases in numbers of new members, advertising acceptance of monthly publications, and successful educational exhibits. A Fiscal Policy Committee of The Metallurgical Society worked diligently to cure financial ills which are plaguing this Society.

Data processing problems within the AIME Business Office were brought under control for the most part. Diligent work by the Business Office staff and the assistance of a management consultant helped this situation.



NEW TECHNICAL SERVICES

The showing of educational exhibits at the Fall Meeting of the Society of Mining Engineers of AIME in Tampa represented a new technical service offered for the first time. Members responded by increasing attendance by some 100 per cent over the previous high number for the SME Fall Meeting. Seventy-nine exhibitors participated and their booths were grouped into four areas: exploration, beneficiation, mining and services.

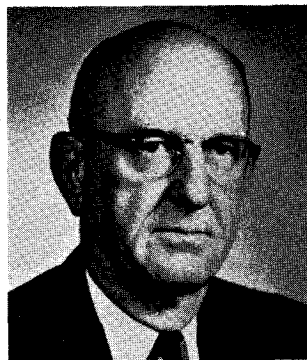
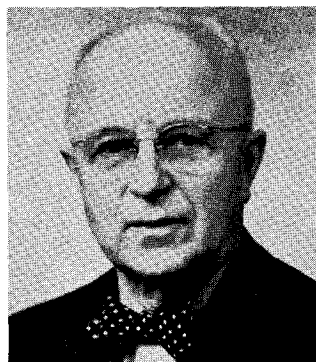
Within TMS, the Institute of Metals Division began providing a booklet of abstracts of paper presented at meetings. Some 375 abstracts were contained in two booklets published this year.

Expanded coverage of technology in SPE included new programs in drilling and rock mechanics, and in offshore operations. A standardized list of computer symbols was proposed during the year by a special subcommittee charged with the responsibility.

A new AIME Committee on Ocean Engineering was formulated to "provide information on mineral recovery from the seas for AIME members and other practitioners in the field". Programming by this Committee will start at the 1967 AIME Annual Meeting. Two other Institute Committees organized in 1965 are continuing programming efforts at special annual symposia as well as the Annual Meeting — Hydrocarbons from Tar Sand, Coal and Oil Shale Committee and Rock Mechanics Committee. A conference on comminution was held during the summer by a new Joint AIME-Engineering Foundation Committee on Particulate Materials.

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 1966, Richard N. Hunt (left) and Charles V. Millikan (right) were elected to this esteemed group of leaders.



1966 AWARD RECIPIENTS

James Douglas Gold Medal
Albert J. Phillips

William Lawrence Saunders Gold Medal
Wesley P. Goss

Charles F. Rand Gold Medal
Edward Mc L. Tittman

Anthony F. Lucas Gold Medal
Lloyd E. Elkins

Robert H. Richards Award
Edwin H. Crabtree

Benjamin F. Fairless Award
Robert Durrer

Hal Williams Hardinge Award
A. B. Cummins

Rossiter W. Raymond Award
John F. Breedis

Mineral Industry Education Award
Herbert R. Hanley

Mineral Economics Award
Edward Hodges Robie

Daniel C. Jackling Award
Paul T. Allsman

Robert Peele Award
George W. Leney

Robert W. Hunt Award
A. E. Jenkins
N. A. Warner
L. A. Baker

Howe Memorial Lecturer
George A. Roberts

Mathewson Gold Medal
R. S. Wagner
William C. Ellis

Robert Lansing Hardy Gold Medal
A. S. Tetelman

Extractive Metallurgy Division Lecturer
H. H. Kellogg

Institute of Metals Division Lecturer
P. B. Hirsch

Fellows of The Metallurgical Society
Pol Duswez
Werner Koster
Earl R. Parker
William G. Pfann
Jack H. Scaff

John Franklin Carll Award
Herman H. Kaveler (post humously)

Cedric K. Ferguson Medal
Necmettin Mungan

Lester C. Uren Award
Fred H. Poettmann

DeGolyer Distinguished Service Medal
Everette L. DeGolyer (post humously)

SPE Certificate of Service
Everett G. Trostel
Charles A. Warner

CONDENSED FINANCIAL STATEMENT

FOR THE YEAR ENDED NOVEMBER 30, 1966

INCOME	Mining	Metals	Petroleum	AIME Total
Membership Dues & Fees	\$ 246,074	\$ 192,160	\$ 286,220	\$ 724,454
Publications Sales	55,263	167,585	33,621	256,469
Advertising	292,234	80,467	178,324	551,025
Other	30,041	66,969	46,320	143,330
TOTAL	\$ 623,612	\$ 507,181	\$ 544,485	\$1,675,278
EXPENSE				
Sections & Student Chapters	\$ 19,776	\$ 13,830	\$ 25,508	\$ 59,114
Society Secretaries' Offices	51,705	71,515	116,455	239,675
Institute Activities	10,331	11,652	8,048	30,031
Publicity	9,973	9,137	11,862	30,972
Special Membership Activities	15,714	2,366	9,162	27,242
Library Support	6,025	5,519	7,166	18,710
Cost of Advertising Pages	128,062	48,602	101,214	277,878
Publications—Editorial and Production	211,472	257,498	165,478	634,448
Executive Director & Secretary's Office	16,686	15,287	19,847	51,820
Business Office	46,832	41,062	46,296	134,190
Western Field Secretary's Office	21,624	4,058	—	25,682
Provision for Depreciation	3,088	2,891	5,689	11,668
Pensions and Related Expenses	18,963	13,882	14,914	47,759
ECPD and EJC Assessments	5,370	4,904	6,382	16,656
Miscellaneous Expenses	5,435	4,978	6,464	16,877
TOTAL	\$ 571,056	\$ 507,181	\$ 544,485	\$1,622,722
NET BALANCE OR (DEFICIT)	\$ 52,556	—	—	\$ 52,556

In addition to operations income and expenses detailed above, AIME benefited from contributions from various funds which were applied as follows:

Name of Fund	Applied To	Amount
TMS Conference	Reimburse for Services	\$24,409
Various Endowment & Custodian	Reimburse for Services	11,962
SPE Activities	Various Services	48,259
Daniel C. Jackling Building	Reduce space charge	12,475
Various Awards	Awards	11,792
Henry L. Doherty	Distinguished Lecturer	4,000
Henry L. Doherty	SPE Index	1,800
Henry L. Doherty	SPE Student Journal	1,517
James Douglas Library	Reduce Library Assessment	4,753
Charles Hayden	Student Development	2,000
Rocky Mountain	Offset Western Field Office	6,000
Rocky Mountain	Career Guidance	3,450
Unrestricted Contributions	Public Relations & Membership Development	7,175
Henry Krumb	Public Relations	3,500
Henry Krumb	Lecture Series & Student Travel	2,204
Henry Krumb	Change Data Processing & Management Study	7,645
	TOTAL FROM FUNDS	\$152,941

As in the past, certain meetings and publications received advances from conference and endowment funds. In practice, money advanced by these funds is usually returned to the fund by the proceeds of these self-supporting activities. Availability of this capital, however, makes possible many worthwhile activities that could not otherwise be undertaken. Advances in 1966 amounted to approximately \$140,000.

As of January 1, 1967, corporate and student memberships totals were:	
Society of Mining Engineers	13,746
The Metallurgical Society	12,295
Society of Petroleum Engineers	15,577
AIME (Total)	41,618

Officers and Directors (1966-1967)

PRESIDENT AND DIRECTOR

WILLIAM B. STEPHENSON

PAST PRESIDENT AND DIRECTOR

THOMAS C. FRICK

PRESIDENT-ELECT AND DIRECTOR

WALTER R. HIBBARD, JR.

TREASURER AND DIRECTOR

GAIL F. MOULTON

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JACK M. EHRHORN
LINCOLN F. ELKINS
HAROLD B. EMERICK
RAYMOND H. FEIERABEND
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ALBERT W. SCHLECHTEN

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WAYNE L. DOWDEY
R. CHARLES EARLOUGHER
WILLIAM J. HARRIS, JR.
J. HARRY JACKSON
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ALBERT E. LEE, JR.
RALPH W. MARSDEN
DENNIS L. McELROY
JOHN R. McMILLAN
H. ARTHUR NEDOM
ERNEST M. SPOKES
MICHAEL TENENBAUM

AIME STAFF

R. WILLIAM TAYLOR, Executive Director and Secretary
JOE B. ALFORD, SPE Executive Secretary
JOHN C. FOX, SME Secretary
JACK V. RICHARD, TMS Secretary
CLIFFORD J. HICKS, Western Secretary
CLYDE L. HOPKINS, Act. Mg'r.

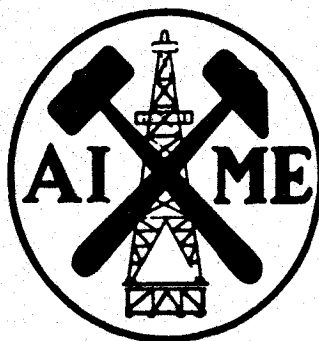
**American Institute of Mining, Metallurgical
and Petroleum Engineers, Inc.**

345 East 47th Street, New York, New York 10017



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OFFICIAL AIME ANNUAL REVIEW FOR 1966



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

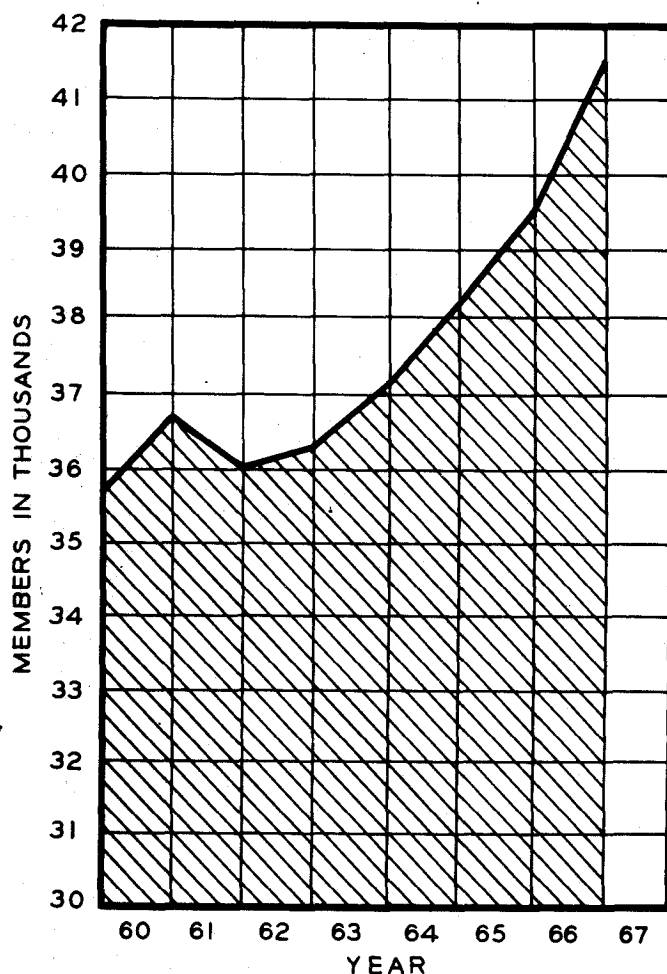
OFFICIAL AIME ANNUAL REVIEW COVERING THE YEAR 1966

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REPORT
of the
EXECUTIVE DIRECTOR AND SECRETARY, AIME

The graph shown below indicates the dramatic growth of AIME following a downturn during the early 1960's. On January 1, 1963, AIME membership was 36,294; by January 1, 1967, it was 41,618 -- an increase of nearly 15%. AIME membership has virtually doubled since 1950, and the value of membership has been increased yearly through numbers and quality of technical papers published, meetings held and services rendered.



Expanded and improved services provided the key to the growth in 1966 of 2179 members. Each of AIME's three Constituent Societies strengthened its publications and meetings programs during the year. New Sections and Student Chapters were formed. An AIME Ocean Engineering Committee was established to provide All-Institute programming and leadership in this area. An intensive Career Guidance Program resulted in the development of new booklets, manuals and film strips. Through other reports in this Annual Review, 1966 accomplishments within AIME's Constituent Societies will be detailed; however, it is the purpose of this report to highlight progress made by the parent organization through its officers, staff, sections, councils and committees.

Career Guidance

At the request of President William B. Stephenson and under the chairmanship of Past President Thomas C. Frick, the Career Guidance Committee (ad hoc) undertook an intensive program to provide AIME Sections with materials for use in developing student interest in the mineral engineering professions. These included: (a) preparation of film strip kits with long-playing records which dramatize the challenge of AIME's professional fields, for free distribution to all AIME Sections and WAAIME Sections, (b) formulation of a brochure to parallel the

film strips and focus on the present shortage of mineral engineering graduates, (c) preparation of a Section Career Guidance Manual providing "recipes" for Sections to follow in carrying out programs in their local areas, (d) revision and reprinting of present mining, metallurgical and petroleum engineering career guidance booklets through professional guidance, and (e) consideration of the development of a motion picture concerning the mineral engineering profession. Methods for closer cooperation with The Woman's Auxiliary of AIME were investigated, and a study of career guidance programs of other professional societies indicated that through implementation of the new program AIME would be carrying out the most active efforts in this field of any engineering society. In addition to new activities, the Institute continued its normal career guidance program of: (a) giving financial assistance to AIME Sections which participate in local Science Fairs, (b) providing prizes in the International Science Fair, (c) offering prizes in Regional Expositions of Junior Engineering Technical Society, and (d) assisting financially the guidance programs of JETS and Engineers' Council for Professional Development.

Increasing Scope and Effectiveness of AIME Service

Seeking constantly to expand and improve the work of the Institute, new activities were undertaken during 1966 to bring additional service to the profession.

1. An AIME Ocean Engineering Committee was established by the Board of Directors which voted the following: "Recognizing the interdisciplinary nature of ocean engineering but accepting a unique obligation to provide information on mineral recovery from the seas for its members and other practitioners in the field, AIME will seek to fulfill the following objectives in ocean engineering: (a) provide through its publications suitable media for the recording of literature on ocean engineering, and (b) provide through its Annual Meeting, Society Meetings, and such special Symposia which may be recommended by the Ocean Engineering Committee and approved by the AIME Board of Directors a forum for those interested in ocean engineering." First sessions developed by the new Committee will be presented at the 1967 Annual Meeting.

2. The Engineering Foundation-AIME Interdisciplinary Committee on Particulate Materials sponsored its first conference in August in Minneapolis. Capacity for the meeting was 100, and that number attended.

3. A Committee for Development of Pattern of Meeting Cities for AIME Annual Meetings prepared and secured Board approval of a set of guidelines to be used in choosing Annual Meeting locations. Also, this Committee supervised revision of the Manual of Procedures for Conduct of the AIME Annual Meeting, placing greater responsibility on staff than in the past for ensuring that all functions are held on a self-sustaining financial basis.

4. The Henry Krumb Lecture Series was started with the following lecturers in 1966:

James W. Guider - "Manganese and Iron Ore Mining and Beneficiation and Steel Production in the Soviet Union"

Scott W. Hazen, Jr. - "Operations Research as an Aid in Mine Planning"

Charles Law McCabe - "The Federal Government and the Mineral Industries"

Eric Morgan - "Automation in the Steel Industry"

Albert W. Schlechten - "Extractive Metallurgy -- Now and Then or Who is in Charge Here?"

5. The National Affairs Committee developed an impressive array of activities during the year, as follows: (a) secured Board approval of a new AIME policy on controversial matters, (b) formulated and obtained Board approval to distribute to leaders in government a report entitled "Needed! Federal Support for Extractive Metallurgy", (c) appointed a panel to develop National Mineral Goals, (d) undertook development of a pattern for cooperative action between AIME and the U. S. Bureau of Mines, and (e) secured Board endorsement of a resolution urging contracting powers for the Department of the Interior, and testified before committees of both the Senate and the House of Representatives supporting such legislation (which eventually was passed).

6. The first Proceedings Volume of the Council of Economics covering the 21 papers delivered before Economics sessions at the 1966 AIME Annual Meeting was issued in May. The Volume contains 402 pages. The first Mineral Economics Award was presented during the 1966 AIME Annual Meeting.

7. The Planning Committee appointed a panel to study improvement of service to geological engineers. Also the Committee is preparing short histories of each AIME Constituent Society for use in developing a long-range plan for the Institute.

8. Agreement was reached for the Intersociety Committee on Rock Mechanics to assume sponsorship of the annual Rock Mechanics Symposium. AIME and five schools had previously shared sponsorship of this Symposium, which will now move from a mining and petroleum engineering symposium on rock mechanics to one of an interdisciplinary nature. AIME retains the role of publisher of Symposium proceedings.

Membership Development

The All-Institute Membership Committee was restructured during 1965 by the Board of Directors and given the responsibility of inspiring and leading Society and Section membership committees. This was implemented during 1965 by creation of new incentive programs and formulation of an AIME Membership Development Clinic. In 1966 under the leadership of Deane F. Kent, the program was intensified and the results as evidenced by membership growth were excellent.

Letters of encouragement were sent monthly to Section Membership Chairmen. Telephone calls were made to those who failed to respond to questionnaires. Each Section was asked to make the Membership Chairman a Section Vice-Chairman. Kits for use in setting up a membership desk for Section meetings were furnished.

Energetic membership development work was coupled with a change by the Board in the requirements for the grade of Associate Member. Under the new requirements the Associate Member must have stature and experience in a related field equivalent to that required for an engineer to achieve full Member status in AIME.

Engineering Education and Student Development

Continued emphasis is being placed on the important subject of engineering education, including service to Student Members and Student Chapters. In October the Board passed a resolution endorsing specialized curricula in mining, metallurgical and petroleum engineering and urging that all possible steps be taken to improve university facilities and equipment for the teaching of these curricula. Other important actions in this field are as follows:

1. The Board took a strong stand, on advice of the Council of Education, on the need to revise several recommendations in the Preliminary Report on the Goals of Engineering Education.

2. A new Student Affairs Program approved by the Board in 1965 gained momentum and led to an increase in student membership over 1965 totals.

3. The number of entries in the Student Paper Contest doubled over 1965, reaching a total of 55 participants.

4. The following new Student Chapters were formed:

Northwestern University - The Metals Club

University of Missouri at Rolla - Metallurgical Student Chapter
- Petroleum Student Chapter

Mississippi State University - Society of Petroleum Engineers

Colorado School of Mines - Metallurgical Society

University of Alabama - Metallurgical Society

Ohio State University - Metallurgy Club

5. The Board approved the membership designation of Inactive Status -- Military Service for members called into the service. In this membership grade they will pay no dues, but will continue to receive credit toward their entrance fee into the grade of full Member as their years of Institute membership will be considered unbroken.

Service to AIME Sections

The primary contact of most members with the Institute is through local Section activity; therefore, officers and staff have worked diligently to assist Sections in improving their operations.

1. Almost every AIME Section and Subsection was visited by an AIME

officer or an officer of one of AIME's Constituent Societies, for the purpose of reviewing the Section's pattern of activity and to assist in solving any problems.

2. An additional Section Manual was sent to the Secretary of each Section (formerly only the Section Delegates were provided with these Manuals).

3. Recommendations presented at the February, 1966, Board Meeting by the Council of Section Delegates were approved. These pertained to: engineering registration, changing the requirements for Associate Member grade, publicizing nominating procedures, requesting career guidance assistance and Annual Meeting programming.

4. Attendance at fall Regional Meetings of the Council of Section Delegates exceeded previous years' attendance at such Meetings by some 30%.

5. The Henry Krumb Lecture Series was started as a help to Section program chairmen who have difficulty in securing services of outstanding speakers.

6. A preliminary version of an AIME Section Manual on Career Guidance was sent to each Senior Section Delegate, describing how the Section can increase its effectiveness in this important area.

7. The following new Sections were established:

Golden Gate Section
Intermountain Section
Italian Section
South Louisiana Section

8. Three Continuing Education Manuals, developed by the AIME Continuing Education Committee, were sent to Sections to assist them in conducting continuing education courses to serve their members.

Management and Finance

1. Although membership dues have not increased since 1950, the Planning and Finance Committees jointly recommended to the Board that no increase in dues be considered in the immediate future.

2. The Planning and Finance Committees jointly started a study of AIME's Endowment Funds, uses of income to these Funds, and the amount of reserve funds required by AIME to protect against a financial depression.

3. A Salary Administration Policy covering all AIME personnel was approved by the AIME Board, and Rules for the Bylaws were revised designating the Board responsible for administering salary policy followed at the Institute and Society levels.

4. The Investment Committee alertly adjusted AIME's investment program early in the year prior to the major stock market decline. Investments in high yielding bonds provided a strong rate of return during 1966.

5. To protect AIME's tax status, all units of the Institute were required to amend their bylaws to include a statement describing the disposition of funds in case of dissolution of the unit, spelling out Institute ownership of all funds now held and managed by various AIME units.

6. A study of AIME Business Office problems by management consultants resulted in minor modifications in some business practices. The Business Office was complimented by the management consultants for diligent implementation of changes recommended during a 1965 study.

7. An AIME Book List was mailed to all members in an effort to provide additional service and create new income for the Business Office. Income from this activity was three times that experienced in 1965.

8. Merger negotiations between AIME and the American Society for Metals were terminated. The Boards of Directors of The Metallurgical Society and the American Society for Metals concluded that a satisfactory vehicle for merger had not been worked out by the committees assigned to this task.

Use of Endowment Funds

The Institute is fortunate to have endowment and custodian funds totaling some four million dollars, giving it greater reserve strength than that of many other engineering societies. Many of the funds are available only for the presentation of Awards. Several have fairly severe restrictions as to their uses by the Board; however, these funds have greatly assisted the Institute in underwriting special projects, meeting unexpected expenses and keeping its membership dues at the same rate since 1950. In 1966 AIME called on endowment funds for assistance, resulting in the expenditure of approximately \$100,000 (about \$2.50 per member). These funds were used to support such activities as career guidance, student affairs, rock mechanics, book publishing, Section affairs, and the Engineering Societies Library.

Inter-Engineering Society Cooperation

AIME continued in 1966 to occupy a strong role among the federations which serve the engineering profession. As a Founder Society AIME has great prestige and responsibility in this area.

UNITED ENGINEERING TRUSTEES, INC. -- The new United Engineering Center, constructed in 1961, continues to provide a headquarters site of prestige for the engineering profession. A number of societies are now in need of additional space, but AIME continues to handle all work possible through outside contractors and does not have a space problem. AIME operations have been compressed to consume the least space possible consistent with good working conditions. All remaining office space on the 13th and 14th floors of AIME's headquarters is subleased to six tenants, all nonprofit engineering organizations.

Appreciable progress was made during 1966 toward the establishment of a United Engineering Information System consolidating the Engineering Societies Library, Engineering Index and information services activities of Engineers Joint Council. When and if agreement by all parties is reached, a new corporation will be established to function on a self-sustaining basis in serving the growing information retrieval needs of the engineering profession.

Rising operating costs required an increase in the Engineering Societies Library assessment by about \$30,000 per year beginning with the 1966-67 fiscal year. This increases each Society's contribution from 50 cents to about 58 cents per member. Improvements in automation of serials control and in photocopy service are being effected.

ENGINEERS JOINT COUNCIL -- During 1965 a Planning Committee studied reasons why Engineers Joint Council had never fully reached its potential for service as an engineering federation. This was followed in 1966 by steps toward development of a greater degree of EJC autonomy through preparation of a new Constitution and Bylaws. Although AIME officers had agreed with the findings made in 1965 by the EJC Planning Committee, deep concern was expressed by many Institute leaders towards proposed changes in the Constitution and Bylaws which would not require the federation to be responsive to desires of its member societies. Diligent work by William J. Harris, Jr., AIME Director and EJC Vice-President, brought about a reconciliation of viewpoints to the extent that AIME representatives on the EJC Board gave approval to these documents near the end of the year. Future actions of the Council will be watched carefully to determine whether a more effective federation has been created through this drastic change in EJC governing processes or whether an unneeded additional entity has been created for the already-splintered engineering profession.

ENGINEERS' COUNCIL FOR PROFESSIONAL DEVELOPMENT -- Highlight for the year for Engineers' Council for Professional Development was its agreement with Junior Engineering Technical Society for the career guidance functions of both organizations to be merged under the direction of a single staff. Both ECPD and JETS have worked diligently in career guidance efforts for several years, but the program of each has been undermanned and underfinanced. Merger is expected to produce greater effectiveness for the engineering profession in this most important area of concern.

AIME participation in ECPD activities continued at a high level during the year. A report entitled Standards for Accredited Curricula in Petroleum Engineering was completed by SPE-AIME and furnished to ECPD for guidance in curricula accreditation work. Previously AIME had furnished ECPD with similar documents covering mining engineering, geological engineering and metallurgical engineering.

Personnel Changes

The Institute suffered a grievous loss during 1966 through the death of Activities Manager H. Newell Appleton. During his thirty-eight years on the AIME staff Mr. Appleton had become the guiding force behind AIME meeting management, the Council of Section Delegates, and new membership processing. Following Mr. Appleton's death, the Activities Department and Public Relations Department were merged, and Clyde L. Hopkins became Manager of the new Department. Claude Gruener was employed to handle public relations under the direction of Mr. Hopkins.

Another significant loss to the Institute during the year was the resignation of Robert W. Shearman, Secretary of The Metallurgical Society, who accepted the position of Administrative Secretary of the American Society for Quality Control. He was replaced by Jack V. Richard, experienced association executive and former Meetings Manager for the American Society for Metals.

Honors and Awards

The following Honors and Awards were presented by AIME at the 1966 Annual Meeting, in addition to those presented by our Constituent Societies and described elsewhere in this Annual Review:

A CERTIFICATE OF HONORARY MEMBERSHIP to Richard N. Hunt, "For his significant enrichment of the mining fraternity through his integrity and loyalty as a mining executive, his outstanding competence as a mining geologist whose astute appraisal from obscure information has resulted in the recognition of important mineral potentials, and through his peerless guidance of younger men."

A CERTIFICATE OF HONORARY MEMBERSHIP to Charles V. Millikan, "For his stimulating and outstanding leadership in the practice of petroleum engineering and his dedicated effort toward advancing petroleum technology from art to engineering; his witness to professionalism; his encouragement to young men in the profession; his unselfish service to industry, community and profession."

The JAMES DOUGLAS GOLD MEDAL to Albert John Phillips, "For major advances in copper refining technology, for pioneering in recovery of essential non-ferrous metals, and for leadership in coordination of national materials research programs."

The BENJAMIN F. FAIRLESS AWARD to Robert Durrer, "In recognition of his foresight, perseverance, and pioneering studies on the use of oxygen in iron and steel making."

The HAL WILLIAMS HARDINGE AWARD to A. B. Cummins, "For creative direction of research activities leading to major improvements in technology for the processing and use of a wide variety of important industrial minerals."

The ANTHONY F. LUCAS GOLD MEDAL to Lloyd E. Elkins, "For his dedicated service to the petroleum industry through his leadership in research, in the training of young engineers, and in the engineering profession."

The CHARLES F. RAND MEMORIAL GOLD MEDAL to Edward McL. Tittmann, "For distinguished achievement and inspired leadership in the administration and expansion of the mining, smelting and refining industry in the United States and abroad."

The ROBERT H. RICHARDS AWARD to Edwin H. Crabtree, "For his unceasing and effective work and influence in devising and using economic methods for concentrating materials."

The WILLIAM LAWRENCE SAUNDERS GOLD MEDAL to Wesley P. Goss, "For an outstanding contribution to the mineral resources of the Nation through his perception and able leadership in the successful development of the San Manuel copper deposit."

The MINERAL ECONOMICS AWARD to Edward Hodges Robie, "In recognition of exceptional contributions to the field of mineral economics through the organization and editing of 'Economics of the Mineral Industries', the first

volume broadly and completely to cover the widely varied aspects of that discipline, and through his leadership over many years in formulating programs and publishing on this subject."

The MINERAL INDUSTRY EDUCATION AWARD to Herbert R. Hanley, "Venerable and respected metallurgical engineer and educator whose career has spanned many generations and whose enthusiasm for his profession and AIME has never diminished."

The ROSSITER W. RAYMOND MEMORIAL AWARD to John F. Breedis for his paper, "Martensitic Transformations in Iron-Chromium-Nickel Alloys".

STUDENT PAPER AWARDS in the Graduate Division to: Ronald C. Kellner, University of Arizona, for a paper entitled "Theory of Comminution", entered by the Arizona Section; Rex E. Trekell, University of Oklahoma, for a paper entitled "Predicting Formation Conditions of Natural Gas Hydrate at Elevated Pressures", entered by the Oklahoma City Section.

Undergraduate Division to: George F. Merritts, Pennsylvania State University, for a paper entitled "Mining Methods, Equipment, and New Installations at Lancashire Nos. 15 and 24 Mines of Barnes and Tucker Company, Barnesboro, Pennsylvania", entered by the Pittsburgh Section; R. Winston Revie, McGill University, Montreal, Canada, for a paper entitled "Liquidus and Solidus Determination of Alcan Aluminum-Zinc-Magnesium Alloys by Differential Thermal Analysis"; John Evans, III, Montana College of Mineral Science and Technology, for a paper entitled "Evaluation of Tar Sand Deposit for Open Pit Mining", entered by the Billings Petroleum Section.

LEGION OF HONOR INSIGNIA were conferred upon the following fifty members: George Pomeroy Bartholomew, Clinton Percival Bernard, Don Carlos Billick, Robert Russell Boyd, Frank G. Breyer, Samuel Rollins Brown, Louis Julien Brunel, Allan B. Calhoun, Ronald Clark, George Bradford Corless, Harley A. Coy, Fred A. Davies, Sidney Hugh Davis, Elbridge Gerry Deane, Robert Henry Dickson, William Henry Finkeldey, G. V. Foutz, R. A. Hardy, Pierre Rossiter Hines, Charles Ross Huddle, Daniel Raymond Hull, Effingham Perot Humphrey, J. Harlan Johnson, W. M. Kelsey, John Charles Kinneer, Sr., Robert Davis Longyear, John Meston Lovejoy, Alexander William MacNichol, Robert Earl McConnell, Donald Hamilton McLaughlin, Whitney Player Mee, Walter Innes Nelson, Enoch Perkins, James McClure Platt, Walter Franklin Pond, Charles Edward Prior, Norman Hatfield Read, Ezra Byron Rider, Frank T. Augustus Smith, Elbert O. Sowerwine, Edward Steidle, John Fairfield Thompson, Karl Saben Twitchell, Paul McIntosh Tyler, Roger Lytle Wensley, Harold Edwards White, Charles Francis Willis, Philip Danforth Wilson, Felix Edgar Wormser, Davidson Charlton Wysor.

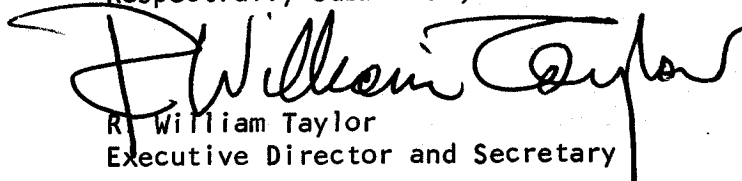
Appreciation

Giving careful attention to every facet of AIME business during 1966 was President William B. Stephenson. As President-Elect and President Mr. Stephenson visited India, Japan, The Phillipines, Mexico, and Canada in behalf of the Institute, in addition to traveling widely and accepting each invitation to address Section meetings and regional AIME meetings throughout the United States.

During one three-month period, he spent all working days but three traveling and speaking in behalf of AIME. He was an outstanding President.

Special appreciation is expressed to a dedicated staff headed by SPE Executive Secretary Joe B. Alford, SME Secretary John C. Fox, TMS Secretary Jack V. Richard, Business Manager Dominic A. Lisanti, Activities Manager Clyde L. Hopkins, Western Field Secretary Clifford J. Hicks and my Administrative Assistant, Miss Wanda Laskowski.

Respectfully submitted,



R. William Taylor
Executive Director and Secretary

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

REPORT OF THE TREASURER

FOR THE YEAR ENDED NOVEMBER 30, 1966

Respectfully submitted,

Gail F. Moulton

February 2, 1967
New York, New York

REPORT OF THE TREASURER
AMERICAN INSTITUTE OF MINING, METALLURGICAL AND PETROLEUM ENGINEERS, INC.
BALANCE SHEET
NOVEMBER 30, 1966 AND NOVEMBER 30, 1965

ASSETS**WORKING FUND**

	<u>NOVEMBER 30, 1966</u>		<u>NOVEMBER 30, 1965</u>
Cash Unappropriated.....	\$ 265,797		\$ 117,008
Cash-Interest Bearing A/C.....	-		222,915
Members Dues Receivable.....	17,425		38,767
Accounts Receivable.....	129,136		117,597

Inventories:

Publications on hand.....	\$ 33,272		\$ 27,432
Postage, Stationery & Supplies.....	10,260	43,532	8,168
Equipment, Furniture & Fixtures.....	\$ 145,296		\$ 139,886
Less: Reserve for Depreciation.....	56,585	88,711	68,393
Prepaid Expenses, Deferred Charges.....	44,772		50,333
TOTAL WORKING FUND.....	\$ 589,373		\$ 653,713

ENDOWMENT AND CUSTODIAN FUNDS

Investment at cost.....	\$3,370,648		\$2,954,863
Cash in Savings Account.....	345,073	\$3,715,721	591,882
			\$3,546,745

PROPERTY FUND

Founder's interest in real estate & other assets of United Engineering Trustees.....	265,000		265,000
	<u>\$4,570,094</u>		<u>\$4,465,458</u>

LIABILITIES AND RESERVES**WORKING FUND**

Accounts Payable General.....	\$ 109,691		\$ 106,803
Life Membership Fund.....	17,140		18,640
Annual Meeting Surplus Fund.....	10,941		5,487
Appropriation for Journal of Metals.....			10,430
Deferred Income from Members Dues.....	\$ 293,098		\$ 377,075
Other Deferred Credits.....	53,588	346,686	49,077
Surplus Beginning year.....	\$ 86,201		\$ 91,114
Unexpended Income.....	29,297		14,299
Amounts transferred to funds.....	(10,583)	104,915	(19,212)
TOTAL WORKING FUND.....	\$ 589,373		\$ 653,713

ENDOWMENT AND CUSTODIAN FUNDS

Endowment Funds.....	\$3,301,319		\$3,138,784
Custodian Funds.....	414,402	\$3,715,721	407,961
			\$3,546,745

PROPERTY FUND

AIME portion of contribution from Andrew Carnegie and others.....	\$ 265,000		\$ 265,000
	<u>\$4,570,094</u>		<u>\$4,465,458</u>

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

INCOME AND EXPENSE STATEMENT
FOR THE YEAR ENDED NOVEMBER 30, 1966

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INCOME:

<u>Membership:</u>	<u>MINING</u>	<u>METALS</u>	<u>PETROLEUM</u>	<u>TOTALS</u>
Current Dues.....	\$215,321	\$169,662	\$255,806	\$ 640,789
New Member Dues.....	12,239	10,822	11,623	34,684
Entrance Fees.....	18,514	11,676	18,791	48,981
TOTAL.....	\$246,074	\$192,160	\$286,220	\$ 724,454
<u>Publications:</u>				
Monthly Journal Advertising.....	\$254,212	\$ 80,467	\$172,549	\$ 507,228
Directory Advertising.....	38,022	-	5,775	43,797
Monthly Journal Sales.....	14,527	23,800	8,139	46,466
Non-Monthly Journal Advertising.....	-	-	646	646
Non-Monthly Journal Sales.....	10,021	48,709	3,934	62,664
Transactions Volume Sales.....	17,457	21,235	17,163	55,855
Reprint Sales.....	6,757	71,529	3,739	82,025
Preprint Sales.....	6,501	-	-	6,501
Directory Sales.....	-	2,312	-	2,312
TOTAL.....	\$347,497	\$248,052	\$211,945	\$ 807,494
<u>Other Income:</u>				
Transfer From Funds..(Sch. A).....	\$ 22,658	\$ 58,676	\$ 17,595	\$ 98,929
Interest, Dividends & Misc.....	3,858	3,900	4,589	12,347
Annual Meeting.....	3,525	4,393	877	8,795
TOTAL.....	\$ 30,041	\$ 66,969	\$ 23,061	\$ 120,071
TOTAL INCOME.....	\$623,612	\$507,181	\$521,226	\$1,652,019

EXPENSES:

<u>AIME Headquarters:</u>				
Executive Director & Secretary..(1).....	\$ 16,686	\$ 15,287	\$ 19,847	\$ 51,820
Secretary's Office - S.L.C.....(2).....	21,624	4,058	-	25,682
Business Office.....(3).....	46,832	41,062	46,296	134,190
Institute Activities.....(4).....	10,331	11,652	8,048	30,031
Public Relations.....(1).....	9,973	9,137	11,862	30,972
TOTAL.....	\$105,446	\$ 81,196	\$ 86,053	\$ 272,695
<u>Assessments by Federations:</u>				
Engineering Society Library.....(1).....	\$ 6,025	\$ 5,519	\$ 7,166	\$ 18,710
Engineering Joint Council.....(1).....	3,245	2,957	3,854	10,056
E.C.P.D.(1).....	2,125	1,947	2,528	6,600
TOTAL.....	\$ 11,395	\$ 10,423	\$ 13,548	\$ 35,366
<u>Other All Institute:</u>				
Pensions & Related.....	\$ 18,963	\$ 13,882	\$ 14,914	\$ 47,759
Allowance for Depreciation.....	3,088	2,891	5,689	11,668
Miscellaneous Expenses.....(1).....	5,435	4,978	6,464	16,877
TOTAL.....	\$ 27,486	\$ 21,751	\$ 27,067	\$ 76,304
<u>Society Direct Expense:</u>				
Sections & Student Ch Rebates & Exp.....	\$ 19,776	\$ 13,830	\$ 25,508	\$ 59,114
Membership Development.....	15,714	2,366	9,162	27,242
Society Headquarters Office.....	51,705	71,515	116,455	239,675
TOTAL.....	\$ 87,195	\$ 87,711	\$151,125	\$ 326,031
<u>Publications:</u>				
Monthly Journal Advertising.....	\$128,062	\$ 48,602	\$101,214	\$ 277,878
Monthly Journal Prod. & Edit.....	145,372	132,003	123,892	401,267
Directory.....	11,760	11,213	7,583	30,556
Non-Monthly Journal Prod. & Edit.....	24,453	87,587	12,960	125,000
Transactions Volume.....	13,489	14,673	18,975	47,137
Reprint Expenses.....	4,276	12,022	2,068	18,366
Preprint Expenses.....	12,122	-	-	12,122
TOTAL.....	\$339,534	\$306,100	\$266,692	\$ 912,326
TOTAL EXPENSES.....	\$571,056	\$507,181	\$544,485	\$1,622,722
TRANSFER TO SOCIETY ACTIVITIES FUND	\$ 52,556	\$ -	\$ (23,259)	\$ 29,297

AMERICAN INSTITUTE OF MINING, METALLURGICAL AND PETROLEUM ENGINEERS, INC.NOTES TO 1966 INCOME AND EXPENSE STATEMENTSCHEDULE A - TRANSFER FROM FUNDS

To Offset Office Services	\$11,037
To Offset Library Assessment	4,753
To Offset Public Relations	14,010
To Offset Western Field Office	6,000
To Offset Rent Expenses	<u>12,475</u>
To Offset Metallurgical Society Office	<u>24,409</u>
For Career Guidance Manual	500
For Membership Development	2,000
For Annual Meeting Services	7,703
For Metallurgical Society 1966 Deficit	<u>16,042</u>
Total Transfer From Funds	<u>\$98,929</u>

24,409
16,042
40,451

90,451
- 58,479

1. These items are pro-rated to the Societies on a membership ratio.
The membership ratio for 1966 is as follows:

MINING - 32.2% METALS - 29.5% PETROLEUM - 38.3%

2. Secretary's Office - Salt Lake City - Distributed as follows:

MINING - 84.2% METALS - 15.8%

3. Business Office - allocated on use basis:

MINING - 34.9% METALS - 30.6% PETROLEUM - 34.5%

4. Institute Activities expenses - allocated on use basis:

MINING - 34.4% METALS - 38.8% PETROLEUM - 26.8%

CHANGES IN ENDOWMENT AND CUSTODIAN FUND BALANCES
FOR THE YEAR ENDED NOVEMBER 30, 1966

Balance of fund accounts, December 1, 1965		
Endowment Funds	\$3,138,781	
Custodian Funds	<u>407,961</u>	\$3,546,745
<u>Receipts & Credits</u>		
Cash received for Coal Division - AIME Scholarship Fund	\$ 802	
Cash received for Thomas L. Joseph Fund	2,840	
Cash received for AIME Senior Member Fund	1,864	
Securities received for AIME Petroleum Research & Education Fund	14,494	
Securities received for Henry De Witt Smith Fund	22,740	
Other Cash contributions	436	
Net Income from Sale of securities	27,739	
Net Income from investment and interest on savings account	185,429	
Income from Oil royalties	5,734	
Sales of books, volumes, etc.	35,681	
Page Charges	5,530	
Income from conferences and committee meetings	96,744	
Income from Royalties - Book publishers	4,001	
A S M participation in Metallurgical Society Fall Meeting	4,048	
Repayment to AIME of loan to the Metallurgical Society	<u>32,000</u>	
		<u>440,082</u>
		<u>\$3,986,827</u>
<u>Less: Disbursements, expenses and transfers:</u>		
Scholarship awards	\$ 3,250	
Other awards, medals, plaques and related expenses	8,542	
Publication of books, volumes, etc.	73,322	
Conferences, committee meetings	35,547	
Contribution to Junior Engineers Technical Society	2,500	
Publicity for sale of Non-AIME publications	2,638	
Repayment of loan by the Metallurgical Society	24,199	
Commissions	3,700	
Sundry expenses and payments	7,692	
<u>Transfers:</u>		
For business and other services	11,962	
Of investment income to cover portion of Library assessment	4,753	
Of investment income to cover portion of rent expense	12,475	
For Metallurgical Society services	24,409	
For Metallurgical Society 1966 deficit	16,042	
For Salt Lake City Office expenses	6,000	
For Public relations	15,460	
For Management Study	3,145	
For Film Strips	3,450	
For Distinguished lecturer series	4,000	
For change of data processing service bureaus	4,500	
For honorariums, student travel, lecture series and career guidance	<u>3,520</u>	
Balance of fund accounts, November 30, 1966		<u>\$ 271,106</u>
Endowment Funds	\$3,301,319	
Custodian Funds	<u>414,402</u>	<u>\$3,715,721</u>

AMERICAN INSTITUTE OF MINING, METALLURGICAL AND PETROLEUM ENGINEERS, INC.
PRELIMINARY BUDGET - INCOME AND EXPENSE STATEMENT
FOR THE YEAR ENDED NOVEMBER 30, 1967

INCOME:

<u>Membership:</u>	<u>MINING</u>	<u>METALS</u>	<u>PETROLEUM</u>	<u>TOTALS</u>
Current Dues.....	\$220,800	\$171,500	\$250,000	\$ 642,300
New Member Dues.....	12,400	7,500	11,500	31,400
Entrance Fees.....	17,400	11,000	17,000	45,400
TOTAL.....	\$250,600	\$190,000	\$278,500	\$ 719,100
<u>Publications:</u>				
Monthly Journal Advertising.....	\$255,000	\$ 95,000	\$165,000	\$ 515,000
Directory Advertising.....	38,000	-	5,700	43,700
Monthly Journal Sales.....	14,300	22,000	8,000	44,300
Non-Monthly Journal Advertising.....	-	-	800	800
Non-Monthly Journal Sales.....	10,000	48,000	4,000	62,000
Transactions Volume Sales.....	16,700	20,000	16,500	53,200
Reprint Sales.....	4,100	65,000	4,000	73,100
Preprint Sales.....	7,000	-	-	7,000
TOTAL.....	\$345,100	\$250,000	\$204,000	\$ 799,100
<u>Other Income:</u>				
Transfer From Funds..(Sch. A).....	\$ 21,400	\$ 65,751	\$ 69,703	\$ 156,854
Interest, Dividends & Misc.....	4,000	4,000	2,000	10,000
Annual Meeting.....	2,600	5,800	1,200	9,600
TOTAL.....	\$ 28,000	\$ 75,551	\$ 72,903	\$ 176,454
TOTAL INCOME.....	\$623,700	\$515,551	\$555,403	\$1,694,654

EXPENSES:AIME Headquarters:

Executive Director & Secretary..(1).....	\$ 18,100	\$ 16,200	\$ 20,600	\$ 54,900
Secretary's Office - S.L.C.....(2).....	22,200	4,200	-	26,400
Business Office.....(3).....	46,900	46,400	48,900	142,200
Inst. Act. & Public Relations... (4).....	17,300	17,500	16,500	51,300
TOTAL.....	\$104,500	\$ 84,300	\$ 86,000	\$ 274,800

Assessments by Federations:

Engineering Society Library.....(1).....	\$ 7,186	\$ 6,465	\$ 8,191	\$ 21,842
Engineering Joint Council.....(1).....	3,652	3,286	4,162	11,100
E.C.P.D.(1).....	2,500	2,250	2,850	7,600
TOTAL.....	\$ 13,338	\$ 12,001	\$ 15,203	\$ 40,542

Other All Institute:

Pensions & Related.....	\$ 21,600	\$ 16,600	\$ 18,500	\$ 56,700
Allowance for Depreciation.....	3,200	2,800	7,800	13,800
Miscellaneous Expenses.....(1).....	5,300	4,700	6,000	16,000
TOTAL.....	\$ 30,100	\$ 24,100	\$ 32,300	\$ 86,500

Society Direct Expense:

Sections & Student Ch. Rebates & Expense.....	\$ 22,500	\$ 15,000	\$ 28,000	\$ 65,500
Membership Development.....	18,000	4,000	11,000	33,000
Society Headquarters Office.....	48,200	79,500	117,000	244,700
TOTAL.....	\$ 88,700	\$ 98,500	\$156,000	\$ 343,200

Publications:

Monthly Journal Advertising.....	\$129,000	\$ 56,650	\$ 98,800	\$ 284,450
Monthly Journal Prod. & Edit.....	153,800	126,000	125,000	404,800
Directory.....	14,000	-	7,100	21,100
Non-Monthly Journal Prod. & Edit.....	19,000	88,050	14,000	121,050
Transactions Volume.....	13,000	14,650	19,000	46,650
Reprint Expenses.....	2,300	11,300	2,000	15,600
Preprint Expenses.....	14,000	-	-	14,000
TOTAL.....	\$345,100	\$296,650	\$265,900	\$ 907,650
TOTAL EXPENSES.....	\$581,738	\$515,551	\$555,403	\$1,652,692
TRANSFER TO SOCIETY ACTIVITIES FUNDS....	\$ 41,962	\$ -	\$ -	\$ 41,962

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

NOTES TO 1967 BUDGET

SCHEDULE A - TRANSFER FROM FUNDS

To Offset Office Services	\$11,000	
To Offset Library Assessment	8,100	
To Offset Public Relations	7,650	
To Offset Western Field Office	6,000	
To Offset Rent Expenses	12,000	
To Offset Metallurgical Society Office	24,409	
To Offset Annual Meeting Services	5,500	
To Offset Metallurgical Society Expense over Income	24,892	
To Offset Society of Petroleum Engineers Expense over Income	<u>57,303</u>	
Total Transfer From Funds		<u>\$156,854</u>

1. These items are pro-rated to the Societies on a membership ratio.
The membership ratio for 1967 is as follows:

MINING - 32.9% METALS - 29.6% PETROLEUM - 37.5%

2. Secretary's Office - Salt Lake City - Distributed as follows:

MINING - 84.2% METALS - 15.8%

3. Business Office - allocated on use basis:

MINING - 33.0% METALS - 32.6% PETROLEUM - 34.4%

4. Institute Activities and public relations - allocated as follows:

50% on membership ratio:

MINING - 32.9% METALS - 29.6% PETROLEUM - 37.5%

50% on use basis:

MINING - 34.4% METALS - 38.8% PETROLEUM - 26.8%

REPORT
of the
BUSINESS MANAGER

The Business Office of the AIME functions as a service organization to the Institute. It serves the other AIME departments, all the three Societies, numerous divisions and committees, the Institute's Treasurer, and the Members.

Functions of the Business Office are departmentalized as follows: Accounting, membership, change of address, order (sales and billing), purchasing, non-member subscriptions, key-punching, filing and shipping. Other functions performed are the maintenance of personnel records, buying and selling securities, maintaining records and preparing reports on the Institute's investment portfolio, and administering and preparing reports of the AIME fringe benefits such as Life Insurance, Major Medical and Pension plans. Eighteen employees comprise the Business Office staff. It is the largest single department of the Institute. Nineteen hundred sixty-six was a difficult year in many ways for the Business Office. The assigning of the membership function added considerable workload and responsibility to the Business office. Education and assistance to the new Metallurgical Society Secretary involved considerable time. The change in service bureaus entailed more work and internal education. To date, the service bureau change has proven to be very beneficial to the Institute, in that the work is very accurate when compared to the previous data processing firm.

A brief description of the functions of each department in the Business Office is presented below.

Accounting - Duties of this department include accounting for all Institute income and expense. A financial statement was presented each month. Special reports were made periodically to various divisions, committees, Endowment Funds and Conferences. During the past year 4,000 checks were made for payment of supplies and services, 75,000 checks were credited to the proper accounts and deposited in The Chemical Bank New York Trust Company. Over 100,000 entries were made in maintaining records for the Institute, Societies, Funds and WAAIME.

Membership - An important department because it is the first contact a new Member has with the Institute. Some duties of this department include checking of all applications received, acknowledging all applications, presenting these names to the Admissions Committee for election, assigning Member numbers and keeping records on the number of applications received for the membership contest. In addition, a considerable amount of correspondence is handled.

Change of Address - This department performs a vital function. Each time a Member's address is changed, it must be properly recorded and coded. It must be very accurate since this is recorded in the Institute's permanent file.

Order - This department processes all orders received for books published by the Institute, Societies and Funds as well as books published by other publishers. In nineteen hundred and sixty-six considerable efforts were made to promote sale of outside books. This was accomplished, since the number of invoices for outside books for 1966 totaled 1300 as compared to 600 in 1965. They also do all billing for advertising, reprints, page charges and various other charges that are made. During the course of the year, 7000 invoices were made, in addition to invoices for outside books. This was accomplished by one employee, with the help of a second person - the receptionist.

Keypunching - Another vital function of the Business Office since all changes, Member and Subscriber are keypunched for the Institute permanent record. Also included are keypunching of Member dues payments and accounting distribution for receipts, disbursement, billings, subscriptions and receivables. All punched cards are transmitted to the service bureau for processing.

Non-Member Subscriptions - Duties include processing all new and renewal subscriptions to the six publications of the Institute. Also handled in this department is processing of all changes of address, cancellations and correspondence. Approximately 7000 subscriber records are maintained.

Purchasing - This department includes all the buying of supplies and equipment for the Institute and Societies except for Publications. Considerable time is spent endeavouring to obtain best prices and services possible.

Filing - Duties include the filing of all Institute correspondence. Three files are maintained; Members, business and permanent file.

Shipping - This department handles all incoming and outgoing mail. In addition to the distribution of mail, the shipping department maintains a stock room for a large variety of office supplies.

In conclusion, I wish to comment that high accounting standards were maintained and each department of the Business Office operated very efficiently during the year. I wish to express my appreciation for the loyal and devoted service of the staff of the Business Office and for the helpful assistance of Mr. Gail F. Moulton as Treasurer.

Respectfully submitted,

A handwritten signature in cursive script, reading "Dominic A. Lisanti". The signature is written in dark ink and is positioned above the printed name and title.

Dominic A. Lisanti
Assistant Treasurer &
Business Manager

INSTITUTE ACTIVITIES DEPARTMENT

The Activities and Public Relations Departments of the Institute were combined in mid-October, 1966, shortly after the sudden loss of Newell Appleton.

This report covers the two departments, even though they were separate during most of the year. The projects listed here will give a good view of the organization and work of the combined department for 1967.

In combining the budgets of the two departments, a savings of some \$9,000 was realized. The 1967 budget is \$51,350, as compared to a total of \$61,350 for the proposed budgets of the two separate departments.

Meetings Management

During 1966 the Activities Department handled a cash flow of well over \$150,000 at the major meetings of the Institute and Societies. Full financial and managerial responsibility was in the hands of the department for the following meetings: AIME Annual Meeting, Open Hearth meeting, Electron and Ion Beam Conference, TMS Fall Meeting and the Operating Metallurgy Conference and Exposition.

These meetings represent an investment in time and money of several hundred thousand dollars for AIME, and the scale is growing. Good business practices (such as cash registers at the meetings, as directed by the Board) are being used to control money and to facilitate procedures.

Some 20,000 members of AIME attended Institute meetings during 1966. Because of this number, which is increasing rapidly, efficient techniques in handling registration and other aspects of the meetings are a must. The Activities Department is currently studying the management of meetings to determine if there are any methods of increasing efficiency and effectiveness.

In addition to the major meetings, the department offers advice and assistance to many smaller meetings which do not require staff participation.

Public Relations

Some 850 news stories were published about AIME in the magazines and newspapers of the United States and Canada during 1966. These news stories circulated to more than 58 million persons during the year.

Stories which received the most coverage by the press during the year were the election of AIME and Society Presidents; the shortage of minerals engineers; the relation of minerals engineers to the welfare of society as a whole; and several big stories featuring the technological achievements of minerals engineers as reported at our meetings.

Television and radio are also important parts of the over-all Public Relations Program. Usually television requires more drama in an event to provide extensive coverage than does a newspaper. However, several meetings have had very good television coverage. For instance, the Oil Shale Conference in Denver was covered by seven different shows taped for the evening news, with three of the tapes to be used in a special later in the year.

The major meetings of the Institute provide the most newsworthy events of the year, so the Public Relations Program is geared to take advantage of this fact. Press rooms are kept open throughout the meetings to provide information and aid for reporters. As many as 61 reporters and editors have covered a single meeting.

Apparently Section public relations chairmen have had a good year. The Public Relations staff wrote and mailed a brief "how to" manual to all Sections, urging them to take advantage of all newsworthy events.

The Annual Report is written, produced and distributed in the period immediately preceding the Annual Meeting. This report is the one vehicle for presenting an over-all view of AIME activities during the year.

The Honors Book, distributed at the Annual Banquet, is also written and produced by the department immediately before the Annual Meeting. This booklet features the program at the Banquet and all winners of awards.

Perhaps the most gratifying aspect of the first continuous year of operation in Public Relations is the fact that reporters are beginning now to recognize AIME as a valuable source of news. There has been a very distinct increase in the frequency with which some newspapers are now publishing news of AIME, and in how often they include AIME in the headlines of the stories.

Student Development

Full responsibility for administration of the Student Affairs Program is vested with the Activities Department. The student program has grown since late 1965 to a major effort, with a goal of increasing the student membership of AIME and acquainting students with their professional responsibilities.

Perhaps one of the most significant and popular part of the new student program is the student travel assistance. AIME will pay 2¢ per mile for students to travel to and from an AIME meeting. This is limited to \$150 per year per Chapter. More than 30 Chapters took advantage of the travel money in the first year of operation.

Recognizing the faculty sponsor as the key to a successful Student Chapter, The Student Affairs Committee provided an Honorarium for sponsors of Chapters with 15 or more students. The Honorarium consists of free dues and a free Transactions Volume, in recognition of the valuable contribution of the sponsors. Fifty-three Chapters qualified their sponsors for the Honorarium for 1966, as compared to 32 in 1965.

The Student Paper Contest is an excellent example of the strong response of the students to the over-all program. From 16 entries in the 1965 contest, 54 students entered in 1966 -- more than a 300 per cent increase.

The Activities Department writes and distributes the Student Newsletter four times a school year to all student members. The Newsletter emphasizes news of the profession and of education.

The Outstanding Student Chapter Contest held for the first time in 1966 received a strong welcome. More annual reports (which are required each year from every Student Chapter) were received this year than ever before. Some 60 reports were measurably better than those previously submitted.

Members of the Board of Directors agreed to visit all Student Chapters during 1966. A few visits remained to be completed in January.

AIME rebates \$1 to each Chapter for each member on record during the year, with a minimum of \$25 going to those Chapters with at least 15 students. This is another incentive to the Chapters to build up at least to the 15-member level, which is considered minimum effective size.

The Activities Department is charged with all correspondence, keeping records and administering the various funds and monies in support of the program. The new program devised by the Student Affairs Committee has been put into action, and is now an ongoing, effective part of AIME.

Membership Development

The Activities Department holds staff responsibility for AIME Membership Development. Statistics, records on Section membership chairmen, the membership contest and various other administrative responsibilities fall into this category.

The six membership clinics held during 1966 were perhaps the newest and most effective addition to the program. Deane Kent presented a slide show and talk to inspire and instruct the membership chairmen attending the meetings. The Activities Department worked closely with Kent to arrange and conduct the meetings. The slide show was produced by the staff, and is currently being revised and improved for wider distribution and for other applications.

1966 was a better year than 1965 in membership. The Institute jumped from an increase of 1,300 to an increase of more than 2,000 for 1966 for a final total of 41,618. This is no doubt due to the great value of AIME membership, but it could not have been achieved without effective and continuing membership development.

Career Guidance

The new Career Guidance Committee appointed by President Stephenson created an entirely new program and a new approach to the problem. With new guidance materials at the heart of the program, the key to its successful application lay in the development of these materials.

The Activities Department worked closely with the Executive Director and Secretary to help the committee select a professional film producer to write and produce two filmstrips. From the rough draft through the revisions to the now nearly finished products the department took an active hand in guiding the producer according to the committees wishes. In writing and designing the brochures, the department worked as closely to transmit the committee policies and concepts to the producer and to assure accuracy of content without loss of drama.

The career guidance projects occupied a major portion of the staff's attention during the year. All photographs used in both filmstrips were collected by the staff, and all background material necessary to the producer was furnished by the staff. Because this was the first time AIME ventured into such an area, most of the work had never been done before. The results of the effort will certainly be worth the work of the committees.

Council of Economics, Council of Education

For the first time the Council of Economics produced a Proceedings Volume of all papers presented before the Council at the AIME Annual Meeting. This volume was produced by the Activities Department. All sales promotion, book reviews, and distribution were also handled by the department.

The Economics and Education Newsletters are also produced and distributed by the department.

Krumb Lectures

The Activities Department was responsible for the entire administration of the first year of the Henry Krumb Lecture Series. All Sections were informed of the lectures and all lectures to Sections were handled through this office.

Because of a late start in 1966, the Lecturers presented their addresses to eight Sections. All indications point to a much stronger year in 1967.

Raymond and Noble Prize Committees

The staff provides aid to these committees in selecting outstanding papers published by AIME. All authors are screened by the staff to establish their qualifications for the contests, and copies of the papers are provided for the committees for their deliberations.

AIME Book List

New contracts were negotiated with major publishers during 1966 so AIME could greatly expand the number of books it offers to its members at a significant discount. With the expanded book list, sales of commercial books jumped from \$4,000 in 1965 to \$15,367 in a few months of 1966. This is another example of expanded service to members.

Miscellaneous

In addition to the major responsibilities listed above, the Activities Department has a number of routine and miscellaneous duties. Among these are maintaining all Sections records and bylaws; producing the AIME Directory Supplement of Section officers; the Joint Engineering Management Conference; producing the quarterly speakers list for Sections; etc.

The duties of the Activities Department are widely diversified and demanding. They range from simple clerical duties to significant management and financial responsibilities. Under the current arrangement, we look to another successful year of providing improved services to AIME members.

Respectfully submitted,

Clyde L. Hopkins
Activities Manager

REPORT ON ADMISSIONS
TO AIME MEMBERSHIP

Applications for new membership, reinstatements and change of status, to the number of 5645 came before the Committee during 1966.

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

CLASSIFICATION OF APPLICATIONS RECEIVED AND ELECTIONS
MADE BY THE ADMISSIONS COMMITTEE

			<u>Mining</u>	<u>Metals</u>	<u>Petr.</u>
New Applications and Reins:	1965	1966	1966	1966	1966
Members	<u>1,677</u>	<u>2,042</u>	<u>779</u>	<u>475</u>	<u>788</u>
Associates	459	518	217	82	219
Juniors	<u>589</u>	<u>653</u>	<u>133</u>	<u>147</u>	<u>373</u>
	2,725	3,313	1,129	704	1,480
Applications for C/S					
Associate to Member	406	399	62	50	287
Junior to Member	42	49	16	1	32
Junior to Associate	1	1	--	--	1
Student to Member	4	4	3	1	--
Student to Junior	15	8	2	4	2
Junior to Student	4	2	1	1	--
Junior to Joint Student	18	1	--	1	--
Student to Joint Student	11	7	--	7	--
Joint Student to Student	--	1	1	--	--
Member to Student	<u>2</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>
	503	472	85	65	322
Applications for Student Mbrs.	1,444	1,860	414	925	521
Grand Total	4,672	5,645	1,628	1,694	2,323

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

Membership Data

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American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.

1871 to 1966

<u>Year</u>	<u>Members</u>	<u>Year</u>	<u>Corporate Members</u>	<u>Student Members</u>	<u>Total</u>
	22				
1871	157	1918	7,237	619	7,856
1872	254	1919	7,385	1,041	8,426
1873	273	1920	8,388	1,920	10,308
1874	345	1921	8,879	1,326	10,205
1875	554	1922	8,085	1,328	9,413
1876	628	1923	7,813	1,315	9,128
1877	732	1924	7,555	1,263	8,818
1878	734	1925	7,569	1,157	8,726
1879	788	1926	7,385	1,131	8,516
1880	832	1927	7,434	1,004	8,438
1881	1,031	1928	7,488	1,000	8,488
1882	1,213	1929	7,823	1,033	8,856
1883	1,345	1930	7,831	1,162	8,993
1884	1,467	1931	7,843	1,131	8,974
1885	1,439	1932	7,685	975	8,660
1886	1,504	1933	7,155	672	7,827
1887	1,615	1934	6,887	628	7,515
1888	1,714	1935	6,916	1,006	7,922
1889	1,857	1936	7,326	1,620	8,946
1890	2,000	1937	8,279	2,147	10,426
1891	2,134	1938	9,005	2,898	11,903
1892	2,258	1939	9,614	3,760	13,374
1893	2,392	1940	10,828	4,171	14,999
1894	2,391	1941	11,334	4,179	15,513
1895	2,437	1942	11,675	3,489	15,164
1896	2,390	1943	12,081	2,707	14,788
1897	2,455	1944	12,334	1,497	13,831
1898	2,562	1945	12,910	1,088	13,998
1899	2,564	1946	14,119	1,737	15,856
1900	2,450	1947	15,000	3,117	18,117
1901	2,897	1948	15,580	4,069	19,649
1902	3,262	1949	16,315	4,952	21,267
1903	3,741	1950	17,082	4,534	21,616
1904	3,530	1951	17,482	2,229	19,711
1905	3,886	1952	18,643	1,964	20,607
1906	4,048	1953	19,718	2,195	21,913
1907	4,191	1954	21,816	2,179	23,995
1908	4,241	1955	23,723	2,825	26,548
1909	4,284	1956	26,298	3,415	29,713
1910	4,210	1957	28,823	3,974	32,797
1911	4,169	1958	30,553	3,757	34,310
1912	4,290	1959	33,378	2,332	35,710
1913	4,284	1960	34,852	1,893	36,745
1914	4,150	1961	34,368	1,633	36,001
1915	4,650	1962	34,437	1,857	36,294
1916	5,880	1963	34,838	2,289	37,127
1917	6,597	1964	35,740	2,370	38,110
		1965	36,878	2,561	39,439
		1966	38,912	2,706	41,618

Total AIME Membership 1964 through 1966

CLASSIFICATION OF MEMBERS

	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>SME</u>	<u>1966</u> <u>TMS</u>	<u>SPE</u>
Honorary Mbrs.	18	19	21	9	4	8
Members	23,048	24,099	25,507	9,392	6,255	9,860
Associates	5,572	5,850	6,190	2,080	1,786	2,324
Juniors	7,102	6,910	7,194	1,601	2,749	2,844
Total	<u>35,740</u>	<u>36,878</u>	<u>38,912</u>	<u>13,082</u>	<u>10,794</u>	<u>15,036</u>
Student Mbrs.	2,370	2,561	2,706	664	1,501	541
	<u>38,110</u>	<u>39,439</u>	<u>41,618</u>	<u>13,746</u>	<u>12,295</u>	<u>15,577</u>

MEMBERSHIP LOSSES 1966

	<u>SME</u>	<u>TMS</u>	<u>SPE</u>	<u>AIME</u>
Deaths	117	39	34	190
Resignations	124	140	151	415
Drops	542	865	872	2,279
Unaccepted	55	32	80	167
	<u>838</u>	<u>1,076</u>	<u>1,137</u>	<u>3,051</u>

Distribution of Members in Societies
During Last Decade as Approximate Percentage

Date	Mining Members %	Metallurgical Members %	Petroleum Members %
December 31, 1957	39.1	23.0	37.9
December 31, 1958	37.5	22.8	39.7
December 31, 1959	36.0	23.5	40.5
December 31, 1960	35.6	24.1	40.3
December 31, 1961	35.3	25.4	39.3
December 31, 1962	34.5	26.7	38.8
December 31, 1963	33.6	28.0	38.4
December 31, 1964	33.0	29.1	37.9
December 31, 1965	32.2	29.5	38.3
December 31, 1966	32.9	29.6	37.5

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 1966, visits were made to 16 Sections and Subsections, four Student Chapters and 16 major conferences, plus AIME and Society Boards of Directors meetings and three meetings of Regional Councils of Section Delegates.

Sections and Subsections Visited During 1966 by C. J. Hicks

1. Arizona Section, Ajo Subsection
2. Arizona Section, Bisbee-Douglas Subsection
3. Arizona Section, Morenci Subsection
4. Carlsbad Potash Section
5. Central New Mexico Section
6. Colorado Plateau Section
7. Columbia Section
8. Montana Section (2)
9. Nevada Section (2)
10. Nevada Section, Reno Subsection
11. San Francisco Section
12. Snake River Section
13. Southeastern Utah Section
14. Southern California Section
15. Utah Coal Section (2)
16. Utah Section (8)

Major Meetings and Conferences Attended by C. J. Hicks in 1966

1. 69th Annual National Western Mining Conference, Denver, Colo.
2. Utah Society of Professional Engineers, Salt Lake City, Utah.
3. 95th AIME Annual Meeting, including:
 Council of Regional Representatives
 AIME Board of Directors
 SME Board of Directors
4. Dedication, MolyCorp's new mine and mill, Questa, New Mexico.
5. Third Annual Oil Shale Symposium, Denver, Colorado.
6. Pacific Northwest Minerals and Metals Regional Conference,
 Seattle, Washington.
7. Eleventh Annual Minerals Symposium, Moab, Utah.
8. Annual Meeting, MBD Subsection (Colorado Section), Colorado Springs, Colo.
9. Eleventh Annual Convention of the Wyoming Mining Association, Jackson, Wyo.

10. Second Annual Intermountain Minerals Conference, Vail, Colo.
11. Rocky Mountain Minerals Conference, Denver, Colo.
12. Northwest Region Council of Section Delegates, Salt Lake City, Utah
13. Symposium on the Research/Production Coupling Problem in the Metals Industry, Los Angeles, California
14. SME Fall Meeting, Tampa, Florida, including:
SME Board of Directors
15. TMS Fall Meeting, Chicago, Illinois, including:
AIME Board of Directors
TMS Board of Directors
16. Northwest Mining Association Convention, Spokane, Wash.

Student Chapters Visited During 1966 by C. J. Hicks

1. Montana College of Mineral Science & Technology, Butte, Montana.
2. University of Nevada, Mackay School of Mines, Reno, Nevada.
3. University of Texas at El Paso, Texas Western College, El Paso, Texas.
4. University of Utah, Salt Lake City, Utah. (2)

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 eight major Western mineral conferences held during 1966 and acted in an advisory capacity for several others.

Continuing staff assistance in the planning of the following 1967 meetings is being supplied by the Western Field Office:

- | | |
|----------------|--|
| February 19-23 | - Annual Meeting of AIME, Los Angeles, Calif. |
| April 6-7 | - Oil Shale Symposium, Denver, Colorado. |
| April 19-21 | - Pacific Northwest Metals and Minerals Conference, Portland, Oregon. |
| May 7-9 | - Pacific Southwest Mineral Industry Conference, Asilomar, California. |
| May 19-20 | - Annual Meeting of MBD Subsection (Colorado Section), Colorado Springs, Colo. |
| September 6-8 | - SME Fall Meeting and RMMC, Las Vegas, Nevada. |

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 three Society Secretaries. Included in these reports were comments believed worthy

of Staff attention, gained from correspondence and conversation.

In addition, a quarterly report to members of the Rocky Mountain Income Fund Committee was sent during the year. The Western Field Secretary gratefully acknowledges the valuable support of this Committee.

News Letter

Plans for 1967 include the periodic issuance of a news letter of the Western Field Office to the western mining and metallurgical Sections, Subsections and Student Chapters. Under the title, "Field Notes," the letter will contain news and comments of interest to AIME members.

New Assignments

R. William Taylor, Executive Director and Secretary, has charged the Western Field Office with responsibility for the administration of the Student Summer Employment Program throughout the United States. Newell Appleton formerly conducted the program in the East. Also, the handling of the Official Visits Program will include the assignment of AIME, SME and TMS Officers and Directors to Student Chapters as well as Sections. Clyde Hopkins managed this phase of the program in 1966.

Manual Distribution

The looseleaf manual written by the Western Field Secretary, descriptive of the suggested responsibilities of Section officers, was distributed to each 1966 Section and Subsection Chairman and will be distributed to 1967 Section and Subsection Chairmen as they become known.

Official Section Visits

All but six of the Mining and Metallurgical Sections located in North America were visited by Institute or Society officials during the calendar year. Assignments for 1967 Section and Student Chapter visits are in the process of development.

New Sections and Subsections

Continued efforts are being made by this office to implement the formation of new Sections and Subsections in the West so as to increase the value of the Institute to individual members. In various stages of organizational development are groups in:

Questa, New Mexico
Montana
Mojave County, Ariz. (Kingman)
Wyoming

Sacramento, California
San Francisco, California -
(Metallurgists)
Nevada

Student Summer Employment

A program designed to help students of minerals engineering obtain temporary summer employment was continued by this office. Two hundred fifty-one western companies actively engaged in mining and/or metallurgical operations were contacted and requested to consider offering summer employment to students of minerals engineering. Twenty-seven companies responded positively with over 430 job openings. Twenty-seven others answered but offered no positions. Faculty sponsors of Student Chapters at 23 western colleges of minerals engineering were simultaneously supplied with the necessary information regarding the openings so that interested students might make application directly to the employer.

In order that the effectiveness of the Student Summer Employment Program might be better evaluated, this office's advisory committee recommended that a brief questionnaire be prepared and submitted to the 27 companies who actively participated in the 1966 program. Twenty firms completed and returned the forms. The following compilation of answers resulted:

Question: How many students of minerals engineering applied for 1966 summer jobs with your company?

Answer: Total 171.

Question: How many were accepted and from what colleges?

Answer: Total 100.

The following schools were listed as supplying one or more students. The highest number from a single school came from Montana Tech. Colorado School of Mines was second.

University of Arizona	New Mexico Institute-M & T
Colorado School of Mines	South Dakota School of Mines
Louisiana State Univ.	Texas Tech
University of Michigan	Texas Western
University of Minnesota	University of Utah
Missouri School of Mines	Virginia Polytech
Montana Tech	Washington State Univ.
University of Nevada	University of Washington

Question: Do you feel the program is a service to industry as well as students?

Answer: Yes 15; questionable 3; no answer 2.

Summary:

For the most part, industry seems to be happy with the program as it stands.

Career Guidance Program

The Utah Section formed a five-man "Career Guidance Committee" whose function it is to increase student interest in the engineering and scientific professions. This was accomplished by working through the school student counselors and science teachers, with the cooperation of the Utah Department of Public Instruction and industry. The Western Field Secretary volunteered his services as Secretary of this committee. The first project of the committee was the organization of field trips for counselors and science teachers. Small parties were conducted through mines, mills and other industrial installations and given the opportunity to watch minerals engineers at work. It was recommended that the educators be escorted by engineers rather than public relations people. Hopefully, other Sections will consider implementing similar programs.

Membership

A membership desk, with accompanying promotional material and an attractive four-panel, illuminated display, was manned at six regional conferences by the Western Field Secretary.

Registration lists of regional conferences, whenever available, have been forwarded to national headquarters to be screened for non-members. These names are added to a master prospect list.

Advisory Committee

The Western Field Secretary is very grateful to his Advisory Committee for its concern, counsel, and guidance during 1966. This able committee was composed of the following men: J. M. Ehrhorn, Chairman; W. L. Dowdey, C. F. Hunkins, H. R. Spedden and M. E. Wadsworth.

Plans for 1967

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 1966 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's publications, membership development, and meetings programs all achieved new records during 1966. Significant among these were:

1. Total number of pages published in JOURNAL OF PETROLEUM TECHNOLOGY, 1,706, and SOCIETY OF PETROLEUM ENGINEERS JOURNAL, 438, were both new records.
2. The Society's membership, at year's end in 1966, totaled 15,577, marking the first time the membership has topped 15,000.
3. The 1,228 new member applications received during 1966 were the most since 1959, and the net membership growth of 681 over 1965 was the best net increase since 1958.
4. The 15 regional meetings conducted by the Society during 1966 established a new record.

PUBLICATIONS: JOURNAL OF PETROLEUM TECHNOLOGY
SOCIETY OF PETROLEUM ENGINEERS JOURNAL

The Society's present publication program was established in 1961 with the monthly JOURNAL OF PETROLEUM TECHNOLOGY and the quarterly SOCIETY OF PETROLEUM ENGINEERS JOURNAL.

The report of the 1966 SPE Editorial Committees is shown below:

Total Number of Papers Handled by 1966 Editorial Committees:

Carried over from 1965.	115
Papers received in 1966	<u>398</u>
Total	513

Disposition:

Papers published as Technical Papers in JPT.	40
Papers published as Technical Articles in JPT.	75
Papers published in SPEJ	42
Papers declined.	126
Papers withdrawn	28
Papers pending action at present	123
Papers approved for Technical Papers in 1967 JPT	24
Papers approved for Technical Articles in 1967 JPT	37
Papers approved for 1967 SPEJ.	<u>18</u>
Total	513

Following is a summary of the papers which appeared in the two publications:

TYPE OF PAPER AND PUBLICATION	1963	1964	1965	1966
<u>JOURNAL OF PETROLEUM TECHNOLOGY</u>				
Technical Article	66	84	76	75
Technical Paper	45	38	39	40
<u>SOCIETY OF PETROLEUM ENGINEERS JOURNAL</u>				
Technical Paper	41	38	39	42
TOTAL PAPERS PUBLISHED, JPT AND SPEJ	152	160	154	157

Total pages in JPT and SPEJ, including advertising and administrative pages, increased to 2,144 in 1966. Following is a summary of pages published in JPT and SPEJ for 1966 as compared to previous years:

TYPE OF CONTENT AND PUBLICATION	1963	1964	1965	1966
<u>JOURNAL OF PETROLEUM TECHNOLOGY</u>				
Editorial Pages	923	948	955	1,067
Administrative Pages	56	60	72	72
Advertising Pages (Display and Classified)	463	494	519	499
Technical Bulletin, September issue	34	90	62	68
Total Pages, JPT	1,476	1,592	1,608	1,706
<u>SOCIETY OF PETROLEUM ENGINEERS JOURNAL</u>				
Editorial Pages	366	372	371	399
Advertising and Administrative Pages	32	48	35	39
Total Pages, SPEJ	398	420	406	438
TOTAL PAGES PUBLISHED, JPT AND SPEJ	1,874	2,012	2,014	2,144

SPEJ is mailed free of charge to all SPE-AIME members who request it. Production expenses for SPEJ totaled \$12,960 during 1966, while income from sale of non-member subscriptions was about \$4,000. Since its founding in 1961, the net circulation for SPEJ has increased from 1,625 to 3,671 in 1966.

PUBLICATIONS: TRANSACTIONS

Transactions Volume 237, to be available in April of 1967, will have a record number of 720 pages, topping the previous high of 704 in 1963. The figure compares to 672 pages for the 1965 volume and 684 pages for the 1964 volume.

PUBLICATIONS: 1966-67 SPE MEMBERSHIP DIRECTORY

A record number of 192 pages appeared in the 1966-67 SPE Membership Directory. The Directory is issued free of charge to all SPE-AIME members who request it, and a copy is also made available to all SPE national committee members and local section officers. Production costs amounted to \$7,483. Advertising income amounted to \$5,775. The directory is composed by computer printout and printed by offset lithography.

PUBLICATIONS: MONOGRAPHS

The manuscript for the first of the Society's MONOGRAPH series, a program which was established in 1965, was received during late 1966 and will

be published during the first quarter of 1967. The first Monograph will be entitled "Pressure Buildup and Flow Tests in Wells" by C. S. Matthews and D. G. Russell. The Monograph program is intended to provide members with an up-to-date discussion of a subject technology in such a manner that it will allow members specializing in other fields to re-educate themselves in the subject.

The Monograph series is jointly financed by the AIME Henry L. Doherty Memorial Fund and the Society's Activities Fund. The hard bound books will be sold to members at production costs, the first to have a sale price of \$3.50 each to members and \$10.50 to non-members.

Other Monographs are now being prepared on the following subjects:

1. Hydraulic Fracturing
2. Multiphase Flow in Pipe
3. Reservoir Engineering Aspects of Waterflooding
4. Cementing

PUBLICATIONS: SPE COMPOSITE INDEX 1953-1966

The Society's Composite Index, which will cover 1953-1966 and will complement the earlier Index which covered from 1921-1952, will be published in mid-1967. The publication of the new composite Index is to be financed by the AIME Henry L. Doherty Memorial Fund.

PREPRINTS

The Society's program for providing members with preprints of papers which are presented at SPE Meetings was expanded during 1966. The cost of producing each preprint has steadily decreased during the past eight years from about 11.9 cents each in 1958 to 7.9 cents each in 1966. A summary of the growth of the preprint program is shown below: (figures indicate only preprints which were prepared by the Society headquarters staff and do not include preprints which were printed by the author and included in the preprint packets)

SPE ANNUAL FALL MEETING:	1963	1964	1965	1966
Number of Preprints	90	108	109	120
Number of Pages of Preprints	900	1,188	1,308	1,440
SPE REGIONAL MEETINGS:				
Number of Preprints	102	120	166	164
Number of Pages of Preprints	1,020	1,320	1,992	1,968
SPE PREPRINT TOTAL:				
Total Preprints Published	192	228	275	284
Total Number Pages Preprints Published	1,920	2,508	3,300	3,408

MEMBERSHIP

Society membership at year's end in 1966 totaled 15,577, the first time ever for the year-end figure to be above 15,000. A total of 1,228 new member applications were received during the year, an increase of 159 over 1965. Net membership growth in 1966 over 1965 was 681 which was the best net increase since 1958. Membership figures, including new member applications received and members lost, are shown below:

	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>
SPE Membership	14,270	14,468	14,896	15,577
New Member Applications Received	1,118	1,129	1,169	1,228
Members Lost (resignations, dropped owing dues, deaths)	930	865	988	1,137

Note: Figures do not add up because year end membership is determined by Members elected and placed on record during year which varies slightly from applications received.

MEETINGS

The Society conducted a total of 15 meetings during 1966, a new record. Total attendance at the meetings was some 8,000, with a total of 322 technical papers presented.

The 41st Annual SPE Fall Meeting held in Dallas was attended by 2,479 members. The total meeting attendance was 3,582, the second largest meeting in the Society's history. The 131 technical papers presented at the meeting also set a new record compared to 126 papers presented in 1965.

A summary of the Society's Regional Meetings conducted during 1966 is as follows:

<u>City</u>	<u>Attendance</u>	<u>Number of Papers on Program</u>
Amarillo, Texas	190	15
Columbus, Ohio	199	15
Houston, Texas	86	19
Santa Barbara, California	600	29
New Orleans, Louisiana	563	17
Farmington, New Mexico	75	8
Hobbs, New Mexico	256	10
Wichita Falls, Texas	695	12
Omaha, Nebraska	169	18
Oklahoma City, Oklahoma	125	8
Dénver, Colorado	354	13
Corpus Christi, Texas	359	7
Beaumont, Texas	190	12
Monahans, Texas	484	8

AWARDS

The AIME Anthony F. Lucas Gold Medal for 1966 was presented to Lloyd E. Elkins, Pan American Petroleum Corporation, Tulsa, Oklahoma.

The Society presented the following major awards during 1966:

DeGolyer Distinguished Service Medal	Everette Lee DeGolyer, posthumously
John Franklin Carll Award	Herman H. Kaveler, posthumously
Cedric K. Ferguson Medal	Necmettin Mungan, Sinclair Research, Tulsa
Lester C. Uren Award	Fred H. Poettmann, Marathon Oil Company
Certificates of Service	Everett G. Trostel, retired, DeGolyer and MacNaughton, Dallas
	Charles A. Warner, consulting engineer, Houston

DISTINGUISHED LECTURER PROGRAM

The Society's Distinguished Lecturer Program reached 60 SPE Sections, Subsections, and Student Chapters during the 1965-66 season. The program is financed by the participating local organizations, the AIME Henry L. Doherty Memorial Fund, and the SPE Activities Fund. The six lecturers presented 113 programs during the year, the largest number since the program was started in 1961.

Total cost for the program was \$7,356. The local organizations paid \$2,275, the Doherty Fund paid \$2,000, and the SPE Activities Fund paid \$3,081.

Listed below are the lecturers with the number of lectures they presented:

C. R. Dodson	9
H. J. Gruy	29
G. C. Howard	26
T. V. Moore	11
J. J. O'Brien	20
C. F. Weinaug	18
Total	113

SECTION VISITATION

SPE officers and staff visited 30 sections during 1966. All of the local sections in the U.S. were visited by the regional directors. A list of the sections visited by 1966 SPE President, H. M. Krause, Jr., is as follows:

Amarillo Petroleum	Great Bend	<u>Overseas Sections</u>
Anadarko Basin	Hobbs Petroleum	Netherlands
Billings Petroleum	Northern Plains	Italian
Delta	Oklahoma City	Libyan Association of
Denver Petroleum	Spindletop	Petroleum Technologists
East Texas	Trans-Pecos	
	Wichita Petroleum	

Members of the SPE headquarters staff visited the following sections:

Amarillo Petroleum	Great Bend	Snyder
Anadarko Basin	Gulf Coast	South Louisiana
Appalachian Petroleum	Hobbs Petroleum	Southwest Texas
Billings Petroleum	Lou-Ark	Spindletop
Coastal Bend	Mid-Continent	Trans-Pecos
Dallas	Northern Plains	Wichita Petroleum
Delta	North Texas	Wyoming Petroleum
Denver Petroleum	Ohio Petroleum	
East Texas	Oklahoma City	
Fort Worth	Permian Basin	
Four Corners	Pittsburgh Petroleum	
Golden Gate	Roswell Petroleum	

FINANCE

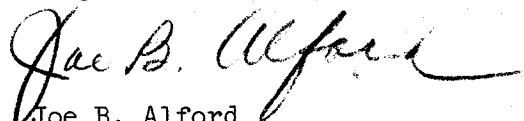
Consolidated Society income for 1966 totaled \$634,840, as compared to \$603,912 in 1965. The Society surplus for 1966 was approximately \$24,000, which goes into the Society Trust Funds as financial reserve. Total assets for the SPE Activities Fund at the end of 1966 were \$398,549

HEADQUARTERS AND STAFF

On November 30, 1966, the SPE Headquarters staff consisted of the following persons:

Joe B. Alford, Executive Secretary
Dan K. Adamson, Assistant to the Secretary
Mrs. Sally Shank, Secretary
David L. Riley, Publications Manager and Assistant Executive Secretary
Larry G. Allen, Assistant Editor
Miss Ann Gibson, Production Manager, SPE Publications
Mrs. Barbara Dray, Secretary
Mrs. Sally Wiley, Special Publications Supervisor
Maurice D. Bratt, Advertising Manager
Michael D. Corley, Assistant Advertising Manager
Miss Sharon Camp, Secretary
Richard E. Boyd, Activities Manager
Miss Catherine Johnson, Activities Secretary
Mrs. Tim Latta, Membership Secretary
David Holloman, Business Manager
Mrs. Janet Kestner, Business Secretary-Bookkeeper
M. C. Sirles, Mail Clerk-Printer

Respectfully submitted,


Joe B. Alford
Executive Secretary

JBA:ss

REPORT

of the

SECRETARY, SOCIETY OF MINING ENGINEERS OF AIME

This report covers the period February 1966 through February 1967. This is the first year that AIME has been on a fiscal year dating from December 1, 1965 through November 30, 1966. This year has been the most successful in SME history, and the outlook for 1967 and beyond is, at least, as bright.

In this and the pages that follow it is our intent to examine all phases of Society Activity and report briefly on each.

PUBLICATIONS

For the first time in SME history, certainly, and probably in AIME history, publications income exceeded publications expense. The difference was \$7,963 or \$.58 per member. Average net expense over the last five years, including this net income figure, is \$2.72.

TRANSACTIONS of SME

Quarterly and Bound Volume No. 235.

During 1966, 57 papers and 3 Technical notes were printed. This came to 463 pages in the four issues of the quarterly. This is up 65 pages over 1965. It is the intent of the Society to increase the number of pages of Transactions, as worthy material becomes available.

Total income realized from the quarterly and volume No. 235 was \$27,478. Total expense was \$37,942. This is a net expense of \$.75 per member compared to \$.44 per member in an average year. The increase was due to a promotion effort that netted a 25% growth in circulation.

MINING ENGINEERING

For the third year in a row, the monthly magazine set a new record for pages of advertising, (733) and dollars of advertising \$292,234.

The table below represents statistics on pages published in MINING ENGINEERING and in the Transactions.

The 8.6% increase in pages of display advertising are an indication of the fine selling job of Advertising Manager Bob Wilson and Don Tone and also of the continued improvement in quality of the articles, their editing and magazine format in general.

Pages Published (12 months, calendar year)

	1961	1962	1963	1964	1965	1966
ME Editorial Pages	846	745	752	827	862	825
ME Advertising Pages	431	435	418	575	662	733
TRANSACTIONS						
Volume Pages	503	512	480	450	398	463
Number of Papers						
Preprinted	106	149	111	121	126	151

MINING ENGINEERING continued the use of color in all three special issues of the magazine during 1966 as compared to its use in one, the October issue, in 1965.

PREPRINTS

As shown in the table above, 151 papers were pre-printed in 1966, as compared with 126 in 1965. Complete sets of SME Preprints were again donated to 80 university libraries throughout the world. Preprint income was \$6,501. and preprint expense was \$12,122; a net cost per member of \$.41. This is compared to income of \$6,711. in 11 months of 1965 and a cost of \$12,791 for a net cost of \$.48.

During 1966 more than 30,000 copies of preprints were distributed at meetings and by mail.

SPECIAL VOLUMES

"Failure and Breakage of Rock", subtitled Proceedings of the VIII Symposium on Rock Mechanics, edited by Charles Fairhurst, University of Minnesota, is scheduled for publication in April 1967. The Society of Mining Engineers is undertaking the publication of this volume in behalf of AIME which was a co-sponsor of the Symposium on Rock Mechanics jointly with five universities. The book will contain about 416 pages. The cost for 1,000 copies will average about \$17 per page, linotype composition, offset printing, hard cover, page size 6x9".

"Ore Deposits of the Western States", the Graton-Sales Volume will be published within budget by Maple Press. On the basis of 1500 pages of 7x10" size, 5,000 copies with hard cover, linotype composition, offset printing, will cost about \$30 per page for the two-volume work. Editor, Dr. John D. Ridge and his Editorial Board are planning on a December 31, 1967 target date for publication.

Surface Mining Volume, again with Maple Press doing the publishing, and Professor E. P. Pfleider as Chief Editor, will be issued in early 1968.

The Coal Preparation Volume edited by Joseph W. Leonard and David R. Mitchell, is in the latter stages of manuscript preparation. It, too, should be issued in 1968.

MEMBERSHIP DEVELOPMENT

In the table below, the membership of the Society of Mining Engineers on January 1, 1967 is compared with the similar figures for January 1, of the preceeding four years.

	1967	1966	1965	1964	1963
Members*	9,401	8,202	8,624	8,523	8,508
Associates	2,080	1,903	1,824	1,763	1,765
Juniors	1,601	1,500	1,571	1,627	1,880
Students	664	574	523	523	541
Total	13,746	12,899	12,542	12,436	12,694
Includes*					
Honorary	9	9	9	5	7
Rocky Mt.	4	7	16	19	19

The 757 net gain in members during 1966 is the result of 1559 applications approved by the Admissions Committee and corporate losses totaling 802. For SME the losses were sustained as follows:

	1966	1965
Death	117	149
Resignation	124	98
Dropped	506	558
Unaccepted	55	40
Total	802	745

The fine showing of the Society of Mining Engineers in the Membership area is due to the leadership of the Membership Chairman, Mr. John W. Chandler and cooperation of the All-Institute Membership Committee under Deane F. Kent plus the loyal support of divisional and Local Section Membership Committee Chairmen and Committeemen.

In addition to direct mail solicitation of an extensive prospect list, Membership Desks were set-up and manned at National and Regional Meetings all across the country as they have been in previous years. The list below includes the major meetings at which Membership Displays were employed.

Minnesota Section Annual Meeting
 95th AIME Annual Meeting
 Central Appalachian Section Meeting
 Coal Division Spring Field Meeting

SME Fall Meeting
Rocky Mountain Minerals Conference
The Central Appalachian Section Fall Meeting
Pittsburgh Off-the-Record Meeting
Illinois Mining Association Meeting

Quite as important as Membership Development is Membership retention. In 1966 the Society and Institute contacted each member in danger of being dropped for nonpayment of dues at least eight times with a final result that on December 31, only 355 SME Members were dropped for that reason, compared to 558 in 1965.

MEMBER SERVICES

Group Insurance Programs: In 1966 the Group Insurance Programs of the Society were expanded. A Double Indemnity Clause for Accidental Death was included in the Group Life Insurance Policies, an In-Hospital Cash Indemnity Plan was instituted. At the time of the SME Fall Meeting in October, there were 1400 policies in force.

SME Personnel Service which was begun in August 1965 was continued through 1966 and will be continued into 1967. During 1966, 266 Men Available notices were carried in MINING ENGINEERING and 93 Positions Open advertisements. These resulted in many inquiries by mail, telephone and in person. Employers seeking men and members seeking jobs are continuing to be brought together.

SME Exhibition In October at the SME Fall Meeting in Tampa, the first Exhibition in connection with the SME Fall Meeting was a complete success. Seventy-nine Exhibitors occupied 113 booths. Consensus of a survey of the more than 1,540 registrants at the meeting indicated that the Exhibition was a needed adjunct to the Exchange of Technological Information that takes place at the SME Fall Meeting.

MEETINGS

Of the 4,152 registrants at the 95th AIME Annual Meeting in February, 1,572 were SME Members. The Society turned over its sponsorship of the VIII Rock Mechanics Symposium held in Minneapolis in the Fall, to AIME. However, the Society is publishing the proceedings of this meeting.

As usual, the Coal Division sponsored its Annual Spring Field Meeting in May in Morgantown, West Virginia.

The SME Fall Meeting and Exhibition at Tampa, Florida was an outstanding success attracting some 1546 persons from all over the United States and ten foreign countries.

SME Members, of course, took part in a number of other Local and Regional Meetings throughout the country.

SME is very grateful for the yeoman service rendered by the Program Committee under J. R. Lucas and J. M. Neilson. They, and the Division Representatives on the Committee, William Hennessey, Coal; R. S. Shrode, Industrial Minerals; D. J. Drinkwater, Minerals Beneficiation; and R. H. Merrill, Mining & Exploration, provided outstanding programs for the SME Fall Meeting and Exhibit and the 96th AIME Annual Meeting. The SME Staff, Mrs. Donaldson and Mrs. Orologio, again bore the brunt of many details that go into the Fall or Annual Meeting. In this they were ably assisted by Mrs. Ruiz. Mr. Charles Chester, Assistant to the Secretary since July 1, 1966, was very helpful with arrangements for the Fall Meeting and is continuing to serve in this capacity. Mrs. Louise Capria still handles all correspondence involved in the review of papers for MINING ENGINEERING and the Transactions.

HONORS AND AWARDS

Honorary Membership in AIME, limited to 20 members all over the world at any one time, was granted to Richard N. Hunt, an SME Member.

At the 95th AIME Annual Meeting in New York the SME Members listed below were presented with the awards named, in recognition of significant achievement.

Wesley P. Goss	Wm. Lawrence Sanders Gold Medal
Edwin H. Crabtree	Robert H. Richards Award
Arthur B. Cummins	Hal Williams Hardinge Award
Edward H. Robie	Mineral Economics Award
Paul T. Allsman	Daniel C. Jackling Award
George W. Leney	Robert Peele Memorial Award

The AIME Legion of Honor was awarded to the 34 SME Members listed below in recognition of 50 years of continuous membership. Not all of the gentlemen listed were able to attend the Annual Meeting to receive their certificates in person, but received them with suitable ceremonies during the year at Local Section Meetings.

AIME Legion of HonorClass of 1916

G. P. Bartholomew	C. R. Huddle	W. F. Pond
C. P. Bernard	E. P. Humphrey	C. E. Prior
D. C. Billick	J. H. Johnson	E. B. Rider
R. R. Boyd	J. C. Kinnear, Sr.	F. T. A. Smith
S. P. Brown	R. D. Longyear	E. Steidle
A. B. Calhoun	A. W. MacNichol	K. S. Twitchell
H. A. Coy	R. E. McConnell	P. M. Tyler
E. G. Deane	D. H. McLaughlin	R. L. Wensley
R. H. Dickson	W. P. Mee	C. F. Willis
R. A. Hardy	W. I. Nelson	P. D. Wilson
P. R. Hines	J. M. Platt	F. E. Wormser
		D. C. Wysor

1966 STAFF TRAVELJanuary

AIME Minnesota Section	Annual Meeting, Duluth	JVB
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February

SPE Membership Meeting	Dallas	JVB
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April

AIME Florida Section	Tampa	JCF
N. Y. Section Trip	New Jersey Zinc, Ogdensburg	JVB
Re: SME Fall Meeting & Exhibit	Minneapolis	JCF
Minnesota Section	Executive Comm. Duluth	JCF
Pacific Northwest Metals & Minerals Conference	Duluth	JCF, CJH

May

Coeur d'Alene Dist.	Idaho	JVB
Southern Idaho Phosphate	Dist, Idaho	JVB
Carlsbad New Mexico	Potash Story	PCM
Moab, Utah	Potash Story	PCM

June

	Salt Lake City	PCM
North Carolina Phosphate	Lee Creek	JVB
AIME Board Meeting	Washington, D.C.	JCF, CAC
Re: SME Fall Meeting & Exhibit	Tampa	JCF, CAC

July

Floridan Phosphate Fields	Tampa, Bartow, Etc.	JVB
	Potash Story, Saskatchewan	PCM

August

AIME Adirondack Section	Lake Placid	JCF, CAC
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September

Mine Visitations	North Creek, Tahawus, Balmat, Star Lake	CAC
AIME Membership Clinic, Denver		JVB, CAC
Rocky Mt. Minerals Conference		
AIME Membership Clinic, Salt Lake City		JVB, CAC
American Mining Congress		

October

1967 SME Fall Meeting & Exhibition, Tampa, Fla.	JCF, JVB, CAC, LED, VHS, PCM, RMO
AIME Board of Directors, Chicago	JCF

November

Appalachian Section, W. Va. Mining Institute, White Sulphur Springs	JVB
Pittsburgh Off-the-Record Meeting, Pittsburgh	JCF, CJH
Re: 1970 SME Fall Meeting, St. Louis	JCF, CAC
Re: 1967 SME Fall Meeting & Exhibition, Las Vegas	JCF, CAC
Re: 1968 SME Fall Meeting & Exhibition, Minneapolis	JCF, CAC
Re: 1969 SME Fall Meeting & Exhibition, Salt Lake	JCF, CAC, CJH
Publishers Seminar, Kingsport, Tenn.	JVB

December

Arizona Section Annual Meeting, Tucson	JVB
Plant Visitations Arizona Copper Mines	JVB
Re: Graton Sales Volume, York, Pa.	JVB

Key to initials listed in Staff Travel summary:

JCF - John Cameron Fox, SME Secretary
 JVB - John V. Beall, Editorial Dir. and Ass't. Secretary
 PCM - Paul C. Merritt, Editor of SME Publications
 CAC - Charles A. Chester, Assistant to the Secretary
 LED - Lillian E. Donaldson, Administrative Assistant to Secretary
 RMO - Ruth M. Orologio, Membership Development Secretary
 CJH - Clifford J. Hicks, Western Field Secretary
 VHS - Valrie H. Simms, Production Manager

STAFF ORGANIZATION

In addition to Mr. C. A. Chester, who joined the staff in July, 1966 there have been a number of staff changes. Miss Catherine O'Donoghue resigned to be married, Miss Sharon Brady left for a position with a leading management consultant firm, Miss Joan Dawson, left for a position at a University. Their places have been taken by Miss Susan Bradshaw and Mrs. Emily Logan and Mrs. Frances Erdman. Mr. John Heston left the staff to take a position with a public relations firm. Miss Fairley Muehleck was advanced to the Associate Editor position.

During the year Mr. Walter Sewing retired officially from the Society but is continuing to assist in the Membership Development effort on a part time basis. Mr. Sewing has served AIME and SME for more than 46 years.

CONCLUSION

In the course of this report I have mentioned a number of those who have helped to make 1966 the most successful year in the Society's history. At this point, it seems fitting to express the thanks of the Officers and the Staff to the 500 committeemen who worked so hard to make this year a success. Loyal support of the entire membership is necessary if the Officers, Directors, committees and staff are to carry out their assignments. The members certainly supplied that support in the year just past.

We have waited until the end of this report to express our thanks to the AIME Executive Director and General Secretary, R. W. Taylor, Western Field Secretary, C. J. Hicks, AIME Assistant Secretary and Convention Manager, H. N. Appleton whose untimely loss is still felt deeply, to his successor, Clyde L. Hopkins and to their respective staffs.

Respectfully submitted,

John C. Fox
John Cameron Fox, Secretary

REPORT

of the

SECRETARY OF THE METALLURGICAL SOCIETY OF AIME

for 1966

Intense investigation of the financial structure of TMS and major staff changes, in addition to carrying out the Society's stated purposes, have provided an invigorating and interesting year for The Metallurgical Society.

TRANSACTIONS OF THE METALLURGICAL SOCIETY

This year, papers submitted for publication in TRANSACTIONS OF THE METALLURGICAL SOCIETY were subjected to review by a system that included the use of key readers operating under the supervision of the editor. The number of pages of communications and technical papers, including Discussion and Authors Reply, printed in the December, 1965-November, 1966, issues was 1,748 pages. This is a decrease of 327 pages -- approximately 15.5% -- from the number of papers printed in calendar year 1965. It is approximately the number of pages printed in 1964 TRANSACTIONS, 1,730 pages.

The March issue contained papers presented at the Conference on Materials Science and Technology in Integrated Electronics (San Francisco, September 7-9, 1965) sponsored by the Electronic Materials Committee of IMD. This issue constituted the Proceedings (32 papers) of this conference.

Innovations in forthcoming TRANSACTIONS are:

1. Photomicrographs, now being reproduced by a pre-screen process, will be reproduced as halftones, adding significantly to the quality of the reproductions.
2. Color reproduction of photomicrographs on a page charge basis is under study.

Bound Volumes will, as in 1965 and 1964, be bound in two parts.

Divisions of The Metallurgical Society contributed to TRANSACTIONS as follows:

	<u>NO. PAPERS</u>	<u>NO. PAGES</u>
EMD	28	164
IMD	176	1,108
ISD	22	145
Communications	96	194
Discussions	21	-
TOTAL	343	1,611

The Metallurgical Society rightfully takes a great deal of pride in TRANSACTIONS. The success and growth of this publication can be traced directly to the efforts of the editors, Dr. Gerhard Derge and Dr. Paul G. Shewmon.

All Papers presented at the 23rd Electric Furnace Conference, the 24th Ironmaking Conference, and the 49th National Open Hearth and Basic Oxygen Steel Conference were published in JOURNAL OF METALS preparatory to publication as Proceedings Volumes:

	<u>NO. PAPERS</u>	<u>NO. PAGES</u>
Electric Furnace Committee	34	137
National Open Hearth and Basic Oxygen Steel Committee	34	194
Ironmaking Committee	<u>24</u>	<u>109</u>
TOTAL	92	440

The total number of pages printed in the December, 1965-November, 1966, issues of JOURNAL OF METALS was 1,360. This is lower than the number of pages printed during the preceding year (1,420 pages), and reflects economies that were introduced into the production from June, 1966.

A total of 99 pages of programs were printed during the 1966 fiscal year in JOURNAL OF METALS, as follows:

	<u>NO. PAGES</u>
95th AIME Annual Meeting	32
2nd International Conference on Electron and Ion Beam Science and Technology	4
49th TMS National Open Hearth and Basic Oxygen Steel Conference	7
Technical Conference on "Oxide Dispersion Strengthening"	2
20th TMS New England Regional Conference ("Effects of Structural Disorders")	2
TMS Nuclear Metallurgy Conference ("High Temperature Nuclear Fuels")	3
TMS Electronic Materials Conference ("The Preparation and Properties of Electronic Materials for the Control of Radiative Processes")	7
Operating Metallurgy Conference and Exposition	18
TMS Fall Meeting	23
Research/Production Coupling Symposium	<u>1</u>
TOTAL	99

Non-member subscriptions were 2,375 in 1966 as compared to 2,363 in 1965.

Advertising, JOURNAL OF METALS

	<u>1966</u>	<u>1965</u>	<u>1964</u>
Number of Pages of Advertising:	206	238	187
Advertising Income:	\$80,467	\$91,133	\$72,143
Advertising Expense:	\$48,488	\$52,348	\$35,381

Advertising experienced a decline in 1966, but we are pleased to report that nine companies advertised for the first time in JOURNAL OF METALS in 1966.

ABSTRACT BULLETIN OF THE INSTITUTE OF METALS DIVISION

Volume I, No. 1, issued in January, 1966, contained 136 abstracts in 56 pages from papers presented at the 95th AIME Annual Meeting in New York. Volume I, No. 2, issued in September, 1966, contained 239 abstracts in 96 pages from papers presented at the 1966 TMS Fall Meeting in Chicago.

Publications Through Gordon and Breach Science Publishers, Inc.

Ten books were published through Gordon and Breach, Science Publishers, Inc., between December, 1965, and November, 1966. The number of pages published during this period totaled 6,104:

1. Volume 19 - "Metallurgy of Advanced Electronic Materials"

(Proceedings of a Technical Conference sponsored by the Electronic Materials Committee of the Institute of Metals Division, The Metallurgical Society and Philadelphia Section, AIME, Philadelphia, Pa., August 27-29, 1962.) 355 pages. Edited by Geoffrey E. Brock.

2. "Continuous Casting" (2nd Printing)

(Proceedings of Technical Sessions of the Iron and Steel Division held in Detroit, Michigan, October 24, 1961: Continuous Casting, sponsored by Physical Chemistry of Steelmaking Committee; Working of Cast Structures, sponsored by Mechanical Working and Steel Processing Committee, ISD, TMS.) 255 pages. Edited by D. L. McBride and T. E. Dancy.

3. "Recovery and Recrystallization of Metals" (2nd Printing)

(Proceedings of a Symposium held in New York, N. Y., February 20-21, 1962, under the sponsorship of the Physical Metallurgy Committee, IMD, TMS.) 389 pages. Edited by L. Himmel.

4. Volume 18 - "High Temperature Materials II"

(Proceedings of a Technical Conference sponsored by the Refractory

Metals Committee and the High Temperature Alloys Committee, IMD, TMS, and Cleveland Section, AIME, Cleveland, Ohio, April 26-27, 1961.) 848 pages. Edited by G. M. Ault, W. F. Barclay, and H. P. Munger.

5. Volume 20 - "Fracture of Solids"

(Proceedings of an International Conference sponsored by the Institute of Metals Division, TMS, Maple Valley, Washington, August 21-24, 1962.) 708 pages. Edited by D. C. Drucker and J. J. Gilman.

6. Volume 30 - "Refractory Metals and Alloys III: Applied Aspects"

(Proceedings of the Technical Conference on Applied Aspects of Refractory Metals, sponsored by the Refractory Metals Committee, IMD, TMS, and Southern California Section, AIME, Los Angeles, December 9-10, 1963.) 996 pages. Edited by R. I. Jaffee.

7. Volume 31 - "Application of Fracture Toughness Parameters to Structural Metals"

(Proceedings of a Symposium sponsored by the Structural Materials Technical Committee, IMD, TMS, Philadelphia, Pa., October 20, 1964.) 406 pages. Edited by Herman D. Greenberg.

8. Volume 32 - "Process Simulation and Control in Iron and Steelmaking"

(Proceedings of a Symposium sponsored by the Physical Chemistry of Steelmaking Committee of the Iron and Steel Division, TMS, New York, N. Y., February 17-18, 1964.) 340 pages. Edited by J. M. Uys and H. L. Bishop.

9. Volume 33 - "Beryllium Technology" - Vol. 1 and Vol. 2

(Proceedings of the 2nd International Conference sponsored by the Nonferrous Committee, IMD, TMS, Philadelphia, Pa., October 15-17, 1964.) 690 pages Vol. 1; 590 pages Vol. 2. Edited by L. McDonald Schetky and Henry A. Johnson.

10. 1964 Ironmaking Proceedings (23rd Volume)

(Proceedings of the 23rd Annual Conference of the Ironmaking Conference, ISD, TMS, Pittsburgh, Pa., April 13-15, 1964.) 426 pages, plus directory of products, advertising sections, and registrants alphabetically and by company. Edited by D. J. Enochs and W. D. Gifford.

These were printed in hard and soft cover versions with the exception of the 1964 Ironmaking Proceedings Volume.

Other Publications

Proceedings Volumes

Three Proceedings Volumes were produced by The Metallurgical Society during the months December, 1965-November, 1966, for a total of 603 pages. These are as follows:

Proceedings Volume from the 22nd Electric Furnace Conference; sponsored by the Electric Furnace Committee of ISD, TMS, Buffalo, New York, December 2-4, 1964. 268 pages.

Proceedings Volume from the 7th Mechanical Working and Steel Processing Conference; sponsored by ISD, TMS, and the Pittsburgh Section of AIME, Pittsburgh, Pa., January 18-19, 1965. 63 pages (published in soft cover version only). Edited by John F. Griffin.

Proceedings Volume from the 48th National Open Hearth and Basic Oxygen Steel Conference; sponsored by the National Open Hearth and Basic Oxygen Steel Committee, ISD, TMS, Cleveland, Ohio, April 5-7, 1965. 272 pages.

Membership Directory

A comprehensive Membership Directory of The Metallurgical Society was published. There are 10,484 member listings in the alphabetical list, plus the same number in the Geographical Index. As requested by the AIME President, the Directory was printed in large magazine-size format ($8\frac{1}{2} \times 10\frac{1}{2}$), to be consistent in size to the Directories of SPE and SME.

Powder Metallurgy Newsletter

During the December, 1965-November, 1966, year, four issues of the Powder Metallurgy Newsletter were printed; however, five issues appeared during the calendar year, as follows:

<u>YEAR 1966</u>	<u>NO. PAGES</u>
February	13
April	18
July	18
September	<u>16</u>
TOTAL (1)	65
December	<u>13</u>
TOTAL (2)	78

Subscriptions to this Newsletter are 250. A new format and increased subscription rates were announced in the last issue.

Awards

The following awards were made by The Metallurgical Society during 1966:

1. Robert Lansing Hardy Gold Medal

Recognizes exceptional promise, rather than accomplishment. To be given to a metallurgist who has not reached his 30th birthday before the end of the calendar year during which the selection of the recipient is made. Presented to A. S. Tetelman.

2. Extractive Metallurgy Division Award

There was no recipient selected to receive the 1966 Extractive Metallurgy Division Award given for the best paper in the field of extractive metallurgy within a two-year period.

3. Mathewson Gold Medal

The medal is bestowed on an author or authors of a paper, or a series of closely related papers, with at least one common author, and considered the most notable contribution to metallurgical science during a three-year period. Presented to Richard S. Wagner and William C. Ellis for their paper "Vapor-Liquid-Solid Mechanism of Crystal Growth."

4. Robert W. Hunt Award

Given for the best original paper or papers on iron and steel contributed to AIME during the period under review. Presented to A. E. Jenkins, N. A. Warner, and L. A. Baker for their paper "Kinetics of Decarburization of Liquid Iron in an Oxidizing Atmosphere Using the Levitation Technique."

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

There was no recipient selected to receive the 1966 Johnson Award given to encourage young men in creative work in the metallurgy or manufacture of pig iron. The recipient of this award must be under 40 when he completes the work that merits recognition.

6. Frank B. McKune Award

Given for the best paper on open hearth or basic oxygen steelmaking written by authors under 40 years of age. Presented to D. K. Kitzel for his paper "Principles of Ingot Capping."

7. Open Hearth Conference Award

"Runner-up" paper to the McKune Award. Presented to R. G. Green for his paper "Scrap Preheating in the Basic Oxygen Furnace at Wisconsin Steel Works."

8. Charles H. Herty, Jr., Award

Given for the best paper presented at the Annual National Open Hearth and Basic Oxygen Steel Conference, and

published in the Conference Proceedings. At the 1966 Conference the award was presented to Jerry Silver for his paper "Influence of Certain Operating Factors in Metallic Yield and Slag FeO Levels in Basic Oxygen Steelmaking" (presented at the 1964 Conference), and K. F. Behrens, J. Koenitzer, and T. H. Kootz for their paper "The Effect of Lime Properties on Basic Oxygen Steelmaking" (presented at the 1965 Conference).

9. Ironmaking Conference Award

Given for the best paper at the 1965 Conference. Presented to J. A. Peart and F. J. Pearce for their paper "Operation of a Commercial Blast Furnace With a Prerduced Burden."

10. Joseph Becker Award

Given for distinguished achievements in coal carbonization. There was no recipient for the year 1966.

11. T. L. Joseph Award

Given to recognize achievement in blast furnace technology. Presented to S. P. Kinney.

12. Electric Furnace Conference Award

Given for the best paper of the 1965 Conference. Presented to Alexander Simkovich for his paper "Variables Affecting Nitrogen Removal in the Vacuum Induction Melting of Iron- and Nickel-Base Alloys."

Fellows of The Metallurgical Society

Five Fellows of The Metallurgical Society were installed at the 1966 AIME Annual Meeting in New York. They were:

Pol Duwez
Werner Koster

Earl R. Parker
William G. Pfann

Jack H. Scaff

The following men were elected to the grade of Fellow in December, and will be installed at the 1967 AIME Annual Meeting:

Harold B. Emerick
Sir Charles F. Goodeve

Paul Queneau
George A. Roberts

J. S. Smart, Jr.

Scholarships

The National Open Hearth and Basic Oxygen Steel Committee's Leo F. Reinartz Scholarship at Carnegie Institute of Technology was presented to

Frank V. Gricus for 1965-66.

Lectures

1. Extractive Metallurgy Division Lecture

Herbert H. Kellogg - "Vaporization of Oxides and Sulfides in Metallurgical Processes."

2. Howe Memorial Lecture

George A. Roberts - "Vanadium in High Speed Steel."

3. Institute of Metals Division Lecture

Peter B. Hirsch - "Transmission Electron Microscopy in Metallurgy."

Meetings and Technical Conferences

The Metallurgical Society sponsored ten conferences and meetings during the year. . . At these meetings a total of 914 technical papers were presented at 166 sessions with an overall attendance of 8,346.

		<u>Attendance</u>	<u>Number Technical Sessions</u>	<u>Number Papers Scheduled</u>	
1.	February 27- March 3 New York	95th AIME Annual Meeting The Metallurgical Society	1,667	59	312
2.	April 12-13 Indiana	Conference on Metallurgical Education (AIME)	36		
3.	April 17-20 New York	2nd International Conf. on Electron & Ion Beam Science & Technology (Electrochemical)	171	11	65
4.	April 18-20 Chicago	49th TMS National Open Hearth & Basic Oxygen Steel Conference	1,601	9	36
5.	May 12-13 Boston	20th TMS New England Regional Conference	117	2	6
6.	June 27-29 New York	Tech. Conf. on "Oxide Dispersion Strengthening" (High Temperature Alloys)	197	7	29
7.	August 29-31 Boston	TMS Electronic Materials Conference	270	5	36
8.	October 3-5 Wisconsin	TMS Nuclear Metallurgy Conference	50	5	29

			<u>Attendance</u>	<u>Number Technical Sessions</u>	<u>Number Papers Scheduled</u>
9.	October 30- November 3 Chicago	The Metallurgical Society Annual Fall Meeting	1,734	39	292
10.	December 5-9 Philadelphia	Operating Metallurgy Conference and Exposition	2,503	29	109
Total			8,346	166	914

A review of the four major 1966 conferences showed the AIME Annual Meeting with an increase in attendance, technical sessions and papers over the 1965 meeting. Both the National Open Hearth & Basic Oxygen Steel Conference and TMS Fall Meeting reached all-time attendance highs with 1,601 and 1,734 registrants respectively.

The Operating Metallurgy Conference experienced a decline in attendance. The technical conference was very successful, but unfortunately the exposition was disappointing both in exhibitor participation and attendance. The future of this exposition is being considered early in 1967.

In addition, the National Open Hearth and Basic Oxygen Steel Committee conducted a comprehensive series of technical meetings through its nine Local Sections.

In 1967, The Metallurgical Society will sponsor the following major conferences and meetings:

1. February 19-23 96th AIME Annual Meeting, Statler Hilton Hotel, Los Angeles, California
2. April 10-12 50th TMS National Open Hearth and Basic Oxygen Steel Conference, Chase-Park Plaza Hotel, St. Louis, Missouri
3. April 18-19 Biomedical Engineering Materials Institute (Jointly sponsored by the Dental and Medical Committee of IMD), University of Wisconsin, Madison, Wisconsin
4. May 11-12 21st TMS New England Regional Conference, Van Curler Hotel, Schenectady, New York
5. June 13-16 International Conference on Vacuum Metallurgy (Jointly sponsored with the American Vacuum Society), Barbizon Plaza Hotel, New York, N. Y.
6. August 27-30 TMS Electronic Materials Conference, Statler Hilton Hotel, New York, N. Y.

7. September 12-13 Chemical Vapor Deposition Conference (Jointly sponsored with the American Nuclear Society, Gatlinburg, Tennessee)
8. October 4-6 TMS Nuclear Metallurgy Conference ("Symposium on Plutonium Fuel Technology"), Camelback Inn, Phoenix, Arizona
9. October 16-20 Annual Fall Meeting of The Metallurgical Society, Statler Hilton Hotel, Cleveland, Ohio
10. December 11-15 Operating Metallurgy Conference, Palmer House, Chicago, Illinois

Membership

Membership in The Metallurgical Society continued its steady gain.

Membership statistics for 1966 in comparison with 1965 are shown in the following tabulation:

<u>Breakdown by Division</u>	<u>As of December 1, 1966</u>	<u>As of December 31, 1965</u>
Iron and Steel Division	3,538	3,251
Extractive Metallurgy Division	1,385	1,261
Institute of Metals Division	4,096	3,816
Council of Education	28	24
Council of Economics	64	57
Unclassified	<u>1,111</u>	<u>1,640</u>
Total Corporate	10,222	10,049
Student Members	<u>2,296</u>	<u>1,595</u>
Grand Total	<u>12,518</u>	<u>11,644</u>
<u>Breakdown by Grade</u>		
Members	6,349	5,933
Associate Members	1,635	1,660
Junior Members	2,238	2,456
Students	<u>2,296</u>	<u>1,595</u>
Total	<u>12,518</u>	<u>11,644</u>

Merger Talks With American Society for Metals

The Task Committees of both TMS and ASM charged with studying and developing recommendations of how consolidation of the two societies should be handled if eventually approved were completed. It was the finding of The Metallurgical Society Board of Directors and the ASM Board of Trustees that after careful consideration it was the judgment of both Society Boards that although the study indicated the advantages of merger in a number of areas, other problems, not fully understood earlier, came into focus. Perhaps the

most significant was the inability to develop a really satisfactory plan for the basic organization of the merged society, one which would preserve all the significant functions and activities of both of these strong Societies, yet recognize the fundamental incorporation of TMS within AIME. After careful consideration, it was the judgment of both Society Boards that these problems could not be reconciled at this time. For the time being, no further negotiations will take place, although both governing bodies have indicated a willingness to undertake additional studies in the future.

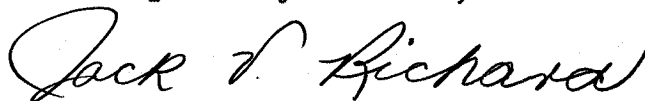
Finances

The \$52,000 of expense over income for fiscal 1966, projected in March, was effectively reduced to \$16,042 actual operating expense over income. The deficit amount was borrowed, by Board action, from the Metals Research Publications Fund, to be repaid from operating surpluses in future years. The total assets of The Metallurgical Society as of November 30, 1966, were \$397,222.96.

Acknowledgments

The tremendous input by the Divisions and Committees of The Metallurgical Society and the leadership and guidance provided by the Officers and the Board of Directors and the continuous effort of the staff have made possible the 1966 continuation of metallurgical communication by the Society. Their dedication and service are gratefully acknowledged. I could not end this report without special tribute to the inspiration, enthusiasm, counsel, and the great amount of hours given by President Albert E. Lee, Jr., the background and good support provided by AIME Secretary R. William Taylor and the invaluable help provided by my Administrative Assistant, Miss Irene S. Carey.

Respectfully submitted,



Jack V. Richard
Secretary

JVR:as