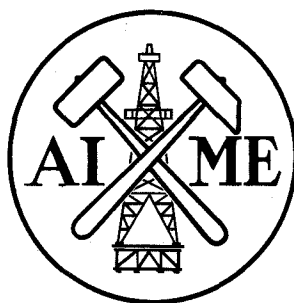


AIME 1970 OFFICIAL ANNUAL REVIEW



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

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OFFICIAL AIME ANNUAL REVIEW

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REPORT OF THE EXECUTIVE DIRECTOR, AIME

1970

The past year has been still another year in which the Institute moved in a somewhat sideways direction. As reflected in this Annual Review, total membership on January 1, 1971, was 46,958. This is an increase of only 616 members, or 1.3 percent during the past year. For the Constituent Societies, SME-AIME had a net gain of 692 members, TMS-AIME had a net loss of 242 members, and SPE-AIME had a net gain of 166 members.

Revenues increased during the year, but expenses increased also. The continual rise of inflation has been felt in all of our functions, and particularly in the operations in the Headquarters offices of the Institute and the three Constituent Societies.

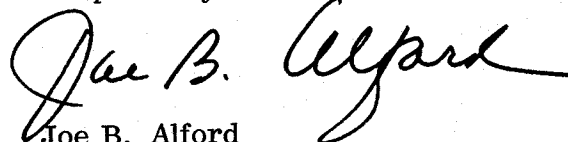
The AIME Headquarters staff has been strengthened with some reorganization and the addition of new persons to the staff. A primary staff activity throughout the year has been the continuation for the planning for the Centennial Celebration, and everyone involved on the staffs of the Constituent Societies and in the Headquarters has performed exemplary service in this effort.

A bright spot of the year was the distribution of the first surplus from the Offshore Technology Conference of \$187,393, of which AIME received totally \$102,326. This conference has become well established as the leading forum in the nation on offshore technology, and it holds considerable promise for future development.

The Institute is indebted to President John C. Kinnear, Jr., for his services during 1970. He spent a substantial amount of his time on AIME business during the year, and he and Mrs. Kinnear attended numerous Society and Section meetings. In addition, he has continued to function as the General Chairman of the Centennial Planning Committee. His dedication and efforts are appreciated by all AIME members.

On behalf of the staff, I express appreciation to all members of the Institute who have extended generous help and assistance to us in carrying on the work of the Institute during the past year. Our committees have functioned well, our Officers and Directors have devoted themselves unstintingly to the Institute in guiding our policies and activities. All of us on the staff and all of our members of the Institute join me in expressing our deep appreciation to those who have contributed so much during the past year.

Respectfully submitted,



Joe B. Alford
Executive Director

RECORD OF HONORS AND AWARDS PRESENTED IN AIME IN 1970

The following Honors and Awards were presented by AIME in 1970, in addition to those presented by our Constituent Societies and described elsewhere in this Annual Review.

A CERTIFICATE OF HONORARY MEMBERSHIP to Lloyd E. Elkins, "In recognition of his distinguished leadership in the engineering profession and the petroleum industry, and for his manifold contributions to AIME".

The JAMES DOUGLAS GOLD MEDAL to Reinhardt Schuhmann, Jr., "For his many valuable contributions in the broad field of extractive metallurgy - both as an outstanding research scientist and as an inspiring teacher".

The ENGINEERING ACHIEVEMENT AWARD to Vincent Denis Perry, "In recognition of his profound interest in furthering geological understanding of mineral deposits and of his significant contributions to the discovery of numerous important mineral deposits in several areas of the world".

The BENJAMIN F. FAIRLESS AWARD to Edmund F. Martin, "An action-minded engineer and executive who has demonstrated extraordinary competence in strengthening the steel industry through advances in production technology, research and marketing".

The HAL WILLIAMS HARDINGE AWARD to J. R. Simplot, "Finder, developer and operator of mines for industrial minerals, especially phosphate, barite, silica, clay and mica. For outstanding achievement in pioneering related industrial development".

The ANTHONY F. LUCAS GOLD MEDAL to Georges Henri Doll, "For contributing profound and revolutionary concepts to borehole logging techniques which have resulted in the economic discovery and exploitation of vast hydrocarbon reserves".

The ERSKINE RAMSAY GOLD MEDAL to Charles E. Lawall, "For a half century devoted to full and successful participation in the mining profession as educator, technical author, manager and gentleman".

The CHARLES F. RAND GOLD MEDAL to Michael L. Haider, "In recognition of more than four decades of inspired leadership, vision, know-how and dedicated service on behalf of his company and the world petroleum industry".

The ROBERT H. RICHARDS AWARD to Stuart E. Zimmerley, "Researcher, inventor and translator of basic sciences and applications thereof in mineral processing. His innovations range from crushing to biological leaching ... and all that between".

The WILLIAM LAWRENCE SAUNDERS GOLD MEDAL to Elmer A. Jones, "For recognized accomplishments as an operator and manager particularly through his pioneering efforts to adopt and to develop highly efficient and significant production methods and controls".

The MINERAL INDUSTRY EDUCATION AWARD to Donald LaVerne Katz, "Eminent educator, author and engineer; pioneering and continuing contributor to the petroleum literature; instructor and counsellor to many who have risen to leadership within the petroleum industry".

The MINERAL ECONOMICS AWARD to Elmer W. Pehrson, "For contributions over many years to the international recognition of the profession of mineral economics and for the stimulus provided students and the profession through writings and speeches on United States mineral policy matters".

The ROCK MECHANICS AWARD to John W. Handin, "As a researcher, scientist, and educator, in recognition of his profound interest in, and significant contributions to the field of Rock Mechanics over the past two decades".

The ROSSITER W. RAYMOND MEMORIAL AWARD to James H. Swisher for his paper, "Thermodynamics of Carbide Formation and Graphite Solubility in the $\text{CaO-SiO}_2\text{-Al}_2\text{O}_3$ System".

LEGION OF HONOR INSIGNIA were conferred upon the following eighty members: Robert M. Adams, Sidney F. Adams, Henry R. Aldrich, Henry I. Altshuler, Samuel E. Atkins, Edgar C. Bain, George W. Bain, Robert T. Banks, James Brander, Charles W. Brown, Vito A. Brussolo, Edgar F. Bullard, George H. Canfield, James A. Clark, Walter R. Clark, Thomas P. Clendenin, William H. Coburn, Julian D. Conover, Donald K. Crampton, James R. Cudworth, Emmet R. Cullity, Elmer F. Davis, Charles B. E. Douglas, Thomas F. Downing, Jr., Joseph V. Emmons, Rene L. H. Engel, Arthur E. Fath, Frederick W. Foote, Francis C. Frary, Ellis P. Frink, Truman S. Fuller, Oscar A. Glaeser, Benjamin F. Hake, James E. Harding, Hugh M. Henton, Robert D. Hoffman, Axel G. E. Hultgren, Richard N. Hunt, Howard G. Hymer, A. I. Johnson, John L. Kalb, Russell S. Knappen, Edward H. Kraus, Theodore A. Link, Wayne Loel, Endicott R. Lovell, Richard T. Lyons, Joseph P. McCulloch, Donald C. McKechnie, Maurice R. McKeown, Wilber B. Miller, Charles V. Millikan, Jonathan A. Noyes, John J. O'Neill, Franklin G. Pardee, Roland D. Parks, Rodgers Peale, Robert M. Peterson, James H. Pierce, Norman B. Pilling, Thomas D. Radcliffe, Colin C. Rae, Wilhelm A. Reiter, Glenn D. Robertson, J. French Robinson, Charles D. Rubert, Lewis K. Sillcox, Herbert W. Smith, Augusto Soux, Russell J. Spry, Charles H. Strange, William T. Thom, Jr., Raymond C. Trumbull, Lovell L. Turley, Frederick S. Turneure, DeWitt Van Evera, John R. Van Pelt, Jr., Paul Weir, Elgin R. Wilcox, Curtis L. Wilson.


REPORT
of the
COMPTROLLER

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

The utilization of a systematic approach to standard accounting, reporting, and self-evaluation was a factor of stability and efficiency. Implemented information systems for Institute management, accounting controls, direct and indirect costing, U. S. Internal Revenue Service regulation on taxation of advertising income, fiscal planning and cash flow forecasts are working as planned. Emphasis is being placed on the future needs of a continually growing AIME membership.

Further refinements in the programs implemented in 1970 will be necessary in 1971 with continued emphasis on fiscal assistance to the Societies and in effective utilization of the total resources of AIME.

Respectfully submitted,


A. J. Bendersky
Comptroller

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

February 12, 1971

SUMMARY OF REVENUE AND EXPENSE ESTIMATES FOR FISCAL YEAR 1971

REVENUE FROM:

Member Dues and Fees.....	\$ 836,350
Publications.....	932,800
Meetings.....	713,280
AIME Endowment Funds.....	124,750
Interest and Dividends.....	26,700
Mining & Metallurgical Society of America.....	5,000
SPE-AIME Special Programs.....	22,600

<u>TOTAL REVENUE</u>	<u>\$2,661,480</u>
----------------------	--------------------

EXPENSES OF:

AIME Corp Hdqs (\$465,600 less 64,000 mtg expense)..<	\$ 401,600
Constituent Society Headquarters.....	387,810
Membership Development.....	42,485
Section and Student Chapter Rebates.....	68,000
Federations.....	50,360
Pensions and Related.....	99,750
¹ Contingency for Capital Purchases.....	7,750
Other All-Institute.....	24,802
Other SPE-AIME (Special Programs etc).....	42,500
Publications.....	1,135,885
Meetings.....	389,370

<u>TOTAL EXPENSE</u>	<u>\$2,650,312</u>
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<u>REVENUE OVER EXPENSE</u>	<u>\$ 11,168</u>
<u>PROVISION FOR FURNITURE/FIXTURE WRITEOFF</u>	<u>\$ 71,393</u>
<u>ADJUSTED REVENUE OVER EXPENSE (DEFICIT)</u>	<u>\$ (60,225)</u>

1. Previously this line-item was DEPRECIATION (amount for FY'71 - \$15,500) which, by past practice, has incrementally been used for capital purchases. No reserve for replacement was established. The Finance Committee recommendation to write-off the remaining value of the Furniture/Fixture account will require that future capital purchases be expensed. This carries with it the need for each budgeting activity to directly plan capital expenditure programs. A contingency for capital purchases is in this budget for essential operating flexibility until such programs can be established.

REVENUE ESTIMATES FOR FISCAL YEAR 1971

	<u>SME-AIME</u>	<u>TMS-AIME</u>	<u>SPE-AIME</u>	<u>HQ AIME</u>	<u>SUB-TOTAL</u>	<u>TOTAL</u>
DUES	\$306,000	\$ 204,350	\$ 326,000	-0-	-0-	\$ 836,350
PUBLICATIONS	\$484,000	111,000	337,800	-0-	-0-	932,800
<u>MEETINGS</u>						
Centennial & 1971 Annual	\$ 12,000	10,500	1,836	171,200	195,536	
1971 SME-AIME Fall	\$ 80,000	-0-	-0-	-0-	80,000	
1971 SPE-AIME Fall	-0-	-0-	160,000	-0-	160,000	
Other 1971 SPE-AIME Meetings	-0-	-0-	2,664	-0-	2,664	
1971 Offshore Technology	\$ 9,150	4,500	120,000	5,200	138,850	
1971 Environmental Quality	-0-	-0-	-0-	54,000	54,000	
TMS-AIME Staff Service Charges	-0-	53,850	-0-	-0-	53,850	
Tech Info Exchange (NET)	-0-	6,460	-0-	-0-	6,460	
1972 Annual	-0-	-0-	-0-	3,280	3,280	
1972 Rapid Excavation	-0-	-0-	-0-	13,720	13,720	
1972 U.S. Energy	-0-	-0-	-0-	4,920	4,920	
TOTAL MEETINGS	\$101,150	75,310	284,500	252,320	713,280	713,280
AIME ENDOWMENTS	\$ 3,150	3,150	-0-	118,450	-0-	124,750
INTEREST AND DIVIDENDS	\$ 7,400	7,500	11,800	-0-	-0-	26,700
M&MSA MANAGEMENT FEE	-0-	-0-	-0-	5,000	-0-	5,000
<u>SPE-AIME SPECIAL PROGRAMS</u>						
Distinguished Lecture	-0-	-0-	7,000	-0-	-0-	
Video Tape	-0-	-0-	8,000	-0-	-0-	
Contributions	-0-	-0-	4,600	-0-	-0-	
Miscellaneous Sales	-0-	-0-	3,000	-0-	-0-	
TOTAL SPE-AIME SPECIAL PROGRAMS	-0-	-0-	22,600	-0-	-0-	22,600
TOTAL REVENUE	\$901,700	\$ 401,310	\$ 982,700	\$ 375,770		\$ 2,661,480

EXPENSE ESTIMATES FOR FISCAL YEAR 1971

AIME HEADQUARTERS	SME-AIME \$109,153	TMS-AIME \$ 85,785	SPE-AIME \$ 94,812	HQ AIME \$111,850	SUB-TOTAL -0-	TOTAL \$ 401,600
SOCIETY HEADQUARTERS	\$ 85,000	142,810	160,000	-0-	-0-	387,810
MEMBERSHIP DEVELOPMENT	\$ 19,420	5,065	18,000	-0-	-0-	42,485
REBATES (Section and Student Chapter)	\$ 25,000	14,000	29,000	-0-	-0-	68,000
FEDERATIONS	\$ 13,203	10,815	14,742	11,600	-0-	50,360
PENSIONS AND RELATED	\$ 42,294	23,940	33,516	-0-	-0-	99,750
CONTINGENCY FOR CAPITAL PURCHASES	\$ 4,100	3,650	-0-	-0-	-0-	7,750
OTHER ALL-INSTITUTE	\$ 7,838	8,410	8,554	-0-	-0-	24,802
OTHER SPE-AIME	-0-	-0-	5,000	-0-	-0-	
Tax and Audit	-0-	-0-	12,000	-0-	-0-	
Distinguished Lecture	-0-	-0-	9,000	-0-	-0-	
Video Tape	-0-	-0-	8,000	-0-	-0-	
Monograph Stipends	-0-	-0-	8,500	-0-	-0-	
Miscellaneous	-0-	-0-	42,500	-0-	-0-	42,500
TOTALS OTHER SPE-AIME	\$500,700	181,835	453,350	-0-	-0-	1,135,885
PUBLICATIONS						
MEETINGS						
Centennial & 1971 Annual	-0-	-0-	-0-	162,450	162,450	
1971 SME-AIME Fall	\$ 65,000	-0-	-0-	-0-	65,000	
1971 SPE-AIME Fall	-0-	-0-	85,000	-0-	85,000	
Other 1971 SPE-AIME Meetings	-0-	-0-	2,000	-0-	2,000	
1971 Environmental Quality	-0-	-0-	-0-	53,000	53,000	
1972 Annual	-0-	-0-	-0-	3,280	3,280	
1972 Rapid Excavation	-0-	-0-	-0-	13,720	13,720	
1972 U.S. Energy	-0-	-0-	-0-	4,920	4,920	
TOTAL MEETINGS	\$ 65,000	-0-	87,000	237,370	389,370	
TOTAL EXPENSE	\$871,708	476,310	941,474	360,820	2,650,312	
TOTAL REVENUE	\$901,700	401,310	982,700	375,770	2,661,480	
ESTIMATED REVENUE OVER EXPENSE	\$ 29,992	(75,000) ¹	41,226	14,950	11,168	
1. Implicit in the 15 Dec. 70 decision to rebuild TMS-AIME Journal was agreement to support the Journal deficit on a 1/3 Society-2/3 Institute ratio up to Society break-even based upon the accounting policies in effect on that date.						
PROVISION FOR FURNITURE/FIXTURE WRITEOFF	\$ 15,188	15,982	40,223	-0-	-0-	71,393
ADJUSTED ESTIMATED REVENUE OVER EXPENSE (DEFICIT)	\$ 14,804	\$(90,982)	\$ 1,003	\$ 14,950		\$ (60,225)

REPORT OF THE TREASURER

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

BALANCE SHEET

NOVEMBER 30, 1970 and NOVEMBER 30, 1969

ASSETS:WORKING FUND

Cash, Principally in Interest
 Bearing Deposits
 Member Dues Receivable
 Accounts Receivable

NOVEMBER 30, 1970NOVEMBER 30, 1969

\$	53,665	\$	208,363
	7,045		18,436
	102,864		150,811

INVENTORIES

Publications on Hand
 Postage, Stationery & Supplies
 Equipment, Furniture & Fixtures
 Less: Reserve for Depreciation
 Prepaid Expenses, Deferred Charges

	45,474		44,183
	5,168		7,300
\$	193,895	\$	158,914
(77,698)	116,197	(63,745)	95,169
	120,234		78,127
\$	450,647	\$	602,389

TOTAL WORKING FUND

ENDOWMENT & CUSTODIAN FUNDS

Investment at Cost
 Investment Short Term

\$	4,102,736	\$	4,009,914
398,665	4,501,401	238,738	4,248,652

PROPERTY FUND

Founder's Interest in Real
 Estate and Other Assets of
 United Engineering Trustees

	265,000		265,000
\$	5,217,048	\$	5,116,041

TOTAL ASSETS

LIABILITIES AND RESERVES:WORKING FUND

Accounts Payable, General
 Life Membership Fund
 Annual Meeting Surplus
 Deferred Income from Members Dues
 Other Deferred Credits
 Surplus - Beginning Year
 Unexpended Income
 Amounts Transferred from Funds

\$	127,337	\$	230,002
	14,420		14,420
	10,226		14,521
\$	273,948	\$	242,590
108,040	381,988	101,239	343,829
29,628		29,628	
44,804		44,804	
(98,147)	(23,715)	(74,815)	(383)
\$	510,256	\$	602,389

TOTAL WORKING FUND

ENDOWMENT & CUSTODIAN FUNDS

Endowment Funds
 Custodian Funds

\$	3,838,051	\$	3,693,330
603,741	4,441,792	555,322	4,248,652

PROPERTY FUND

AIME Portion of Contribution
 from Andrew Carnegie and Others

	265,000		265,000
\$	5,217,048	\$	5,116,041

TOTAL LIABILITIES & RESERVES

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

REVENUE AND EXPENSE STATEMENT

FOR THE YEAR ENDED - NOVEMBER 30, 1970

REVENUE:	MINING	METALLURGICAL	PETROLEUM	TOTAL
<u>Membership:</u>				
Current Dues	\$279,292	\$194,456	\$312,938	\$ 786,686
New Member Dues	24,476	12,147	27,162	63,785
Entrance Fees	19,872	7,732	18,461	46,065
TOTAL (1)	<u>\$323,640</u>	<u>\$214,335</u>	<u>\$358,561</u>	<u>\$ 896,536</u>
<u>Publications:</u>				
Monthly Journal Advertising	309,176	46,638	189,487	545,301
Directory Advertising	33,113	-0-	6,990	40,103
Monthly Journal Sales	20,743	32,321	16,341	69,405
Non-Monthly Journal Advertising	-0-	-0-	1,309	1,309
Non-Monthly Journal Sales	13,614	8,185	7,039	28,838
Transactions Volume Sales	14,490	22,262	18,357	55,109
Reprint Sales	6,157	23,685	5,983	35,825
Preprint Sales	11,809	-0-	-0-	11,809
Directory Sales	33	35	56	124
Proceeding Sales	15	10,322	-0-	10,337
TOTAL	<u>\$409,150</u>	<u>\$143,448</u>	<u>\$245,562</u>	<u>\$ 798,160</u>
<u>Other Revenue:</u>				
Fund Appropriations (Schedule A)	65,908	90,962	108,982	265,852
Interest, Dividends & Other	7,658	15,274	8,359	31,291
Annual Meeting Revenue	7,095	1,668	1,332	10,095
TOTAL	<u>\$ 80,661</u>	<u>\$107,904</u>	<u>\$118,673</u>	<u>\$ 307,238</u>
TOTAL REVENUE	<u>\$813,451</u>	<u>\$465,687</u>	<u>\$722,796</u>	<u>\$2,001,934</u>
<u>EXPENSES:</u>				
<u>AIME Headquarters:</u>				
Executive Director (2)	33,144	28,270	36,069	97,483
Director of Administration (2)	14,472	12,344	15,750	42,566
Salt Lake City (3)	24,753	4,645	-0-	29,398
Administrative Services (4)	64,512	63,730	67,248	195,490
Gen. Activities & Pub. Relations	23,441	19,993	25,509	68,943
TOTAL	<u>\$160,322</u>	<u>\$128,982</u>	<u>\$144,576</u>	<u>\$ 433,880</u>
<u>Support of Federations:</u>				
Engineering Societies Library	8,410	7,173	9,151	24,734
Engineers Joint Council	4,289	3,659	4,667	12,615
Eng. Coun. for Prof. Development	4,957	4,228	5,394	14,579
TOTAL (2)	<u>\$ 17,656</u>	<u>\$ 15,060</u>	<u>\$ 19,212</u>	<u>\$ 51,928</u>
<u>Other All-Institute:</u>				
Pensions & Related	37,545	22,267	30,364	90,176
Depreciation	3,984	3,517	6,453	13,954
Other Expenses	12,169	10,380	13,243	35,792
TOTAL (2)	<u>\$ 53,698</u>	<u>\$ 36,164</u>	<u>\$ 50,060</u>	<u>\$ 139,922</u>
<u>Society Direct Expenses:</u>				
Sec. & Student Chapter Support	21,755	12,915	29,330	64,000
Membership Development	13,183	11,320	15,113	39,616
Society Headquarters Office	86,673	121,650	150,895	359,218
TOTAL	<u>\$121,611</u>	<u>\$145,885</u>	<u>\$195,338</u>	<u>\$ 462,834</u>
<u>Publications:</u>				
Monthly Journal Advertising	196,920	34,246	114,920	346,086
Monthly Journal Prod. & Edit.	200,594	89,727	188,853	479,174
Directory or Marketing	13,799	8,757	10,231	32,787
Non-Monthly Journal Advertising	-0-	1,070	296	1,366
Non-Monthly Journal Prod. & Edit.	24,681	11,220	20,729	56,630
Transactions Volume	17,645	20,958	15,875	54,478
Reprint Expense	2,559	11,057	5,828	19,444
Preprint Expense	21,552	-0-	-0-	21,552
TOTAL	<u>\$477,750</u>	<u>\$177,035</u>	<u>\$356,732</u>	<u>\$1,011,517</u>
TOTAL EXPENSE	<u>\$831,037</u>	<u>\$503,126</u>	<u>\$765,918</u>	<u>\$2,100,081</u>
EXCESS OF REVENUE OVER (EXPENSE)	<u>\$ (17,586)</u>	<u>\$ (37,439)</u>	<u>\$ (43,122)</u>	<u>\$ (98,147)</u>

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

REVENUE AND EXPENSE FOR 1970

EXPLANATORY NOTES

SCHEDULE A

	<u>SME</u>	<u>TMS</u>	<u>SPE</u>	<u>TOTAL</u>
<u>Fund Appropriations:</u>				
Engineering Societies Library:				
James Douglas Library Fund	\$ 1,482	\$ 1,264	\$ 1,613	\$ 4,359
Engineering Center Occupancy Cost:				
Daniel C. Jackling Fund	3,147	3,147	-0-	6,294
Daniel C. Jackling Fund	2,140	1,825	2,329	6,294
Student Development:				
Charles Hayden Memorial	680	580	740	2,000
Salt Lake City Office:				
Rocky Mountain Club Fund	6,740	1,260	-0-	8,000
Awards and Honorarium:				
Daniel C. Jackling Award Fund	695	595	760	2,050
Student Relations Prize Fund	85	70	95	250
Senior Member Fund	985	840	1,075	2,900
Administration of Funds - All Funds	4,184	3,569	4,554	12,307
Special Library Support - Krumb	1,155	985	1,260	3,400
Student Travel - Krumb	1,700	1,450	1,850	5,000
Comptroller's Office - Krumb	7,920	7,825	8,255	24,000
Krumb Lecture Series - Krumb	1,190	1,015	1,295	3,500
ECPD Support - Krumb	1,085	930	1,185	3,200
Dir. of Administration Office - Krumb	14,620	12,470	15,910	43,000
SUB-TOTAL	\$47,808	\$37,825	\$ 40,921	\$126,554
<u>Appropriations from Orgs. and Functions:</u>				
Offshore Technology Conference	14,647	8,162	63,049	85,858
<u>Appropriations from Societies:</u>				
	<u>3,453</u>	<u>44,975</u>	<u>5,012</u>	<u>53,440</u>
TOTAL TO REVENUE & EXPENSE BUDGET	<u>\$65,908</u>	<u>\$90,962</u>	<u>\$108,982</u>	<u>\$265,852</u>

RATE OF ALLOCATIONS TO SOCIETIES:

- (1) Membership dues and fees are credited to the Societies directly.
- (2) These items are pro-rated to the Societies on a membership ratio. The membership for 1970 is as follows:

MINING - 34%	METALLURGICAL - 29%	PETROLEUM - 37%
--------------	---------------------	-----------------
- (3) Secretary's Office - Salt Lake City - distributed as follows:

MINING - 84.2%	METALLURGICAL - 15.8%
----------------	-----------------------
- (4) Administrative Services - allocated on use basis:

MINING - 33%	METALLURGICAL - 32.6%	PETROLEUM - 34.4%
--------------	-----------------------	-------------------

MEMBERSHIP DATA

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

1870 TO 1970

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

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

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

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

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.
MEMBERSHIP STATISTICS January 1, 1971

NO.		SECTION	SOCIETY OF MINING ENGINEERS OF AIME										THE METALLURGICAL SOCIETY OF AIME										SOCIETY OF PETROLEUM ENGINEERS OF AIME										GRAND TOTAL	NO.
			Min. & Explor. A	M.B.D. B	Coal C	Ind. Min. H	Educ. J	Econ. K	Un-class	Total	Iron & Steel C	Extr. Met. D	Inst. of Met. E	Educ. J	Econ. K	Un-class	Total	Drilling & Well Complet. N	Educ. & Prof. O	Econ. & Eval. P	Form- Eval. R	Gas Tech. S	Geol. Eng. T	Management U	Prod. Oper. V	Reservoir & Eng. W	Fl. Mech. & Oil Rec. Proc. X	Op & Tech. Y	Educ. J	Econ. K	Un-Class	Total		
000		OUT OF SECTION	1,063	366	61	65	12	37	397	1,991	422	341	379	1	5	130	1,278	194	11	55	24	24	28	118	137	215	27	2			516	1,352	4,621	000
1		ALASKA	17	2	1	1	1	16	38									3		1										4	5	43	1	
2		ARIZONA	736	166	7	16	13	10	202	1,150	11	66	23	1	2	20	123	3		1	3									9	22	1,295	2	
3		BLACK HILLS	35	8		6		2	72				2					1												6	7	86	3	
4		BOSTON	55	17	9	10	1	2	110	29	34	218	2	3	41	327	1	2	2											10	26	463	4	
5		CARLSBAD	28	11	1	9	1	3	53									1											2	3	56	5		
6		CENTRAL APPALACHIAN	53	7	233	20	1	2	371	17	3	23	23	2		14	59	1												1	2	432	6	
7		CHICAGO	85	48	82	28	1	2	271	506	45	250	3	6	84	891														2	4	1,166	7	
8		CLEVELAND	72	52	28	8	1	1	183	215	24	170	1	1	41	451	2													2	2	636	8	
9		COLORADO	449	149	31	27	6	15	829	21	23	35	5	1	32	112			1	1				1					2	7	948	9		
10		COLUMBIA	189	24	1	5	2	4	270	2	21	5	1		8	37	2												1	1	308	10		
11		CONNECTICUT	20	4	1	3	3	8	37	32	23	188		4	29	276														4	6	319	11	
12		DELTA	15	4		2	2	4	25	5	9	3	5		5	22	162	2	2	19	19	14	5	84	1				326	850	897	12		
13		DETROIT	40	16	3	9		25	94	136	13	183	3		48	381	2	1	1	6	5	1	1	3	4	1	1			10	25	500	13	
14		EAST TEXAS	8	5	1	2	2	1	17	10	10	1	1		15	56	52			2	1	2	3	19	48	17	3			55	215	243	14	
15		EL PASO	47	19	1	2	2	14	85	2	28	10	1		15	52				1	1	2	3	3	3	12			15	39	180	15		
16		GULF COAST	5	1	1	1	2	4	12	3		7			1	2	382	12	109	98	49	32	221	279	217	70	30		922	2,421	2,435	16		
17		WICHITA PETROLEUM	4	4	3	2	2	1	16	3	28	81	1	1	31	207	22		4	4	2	3	5	13	16	14	4	1		35	120	147	17	
18		LEHIGH VALLEY	63	41	15	15		2	155	66	9	24	1		21	76	84	5	52	14	14	9	74	132	55	2	3		270	752	365	18		
19		MID CONTINENT			6	8	2	10	581	21	9	24	1		8	61			1										6	12	669	19		
20		MINNESOTA	280	179																										2	1	244	21	
21		MONTANA	110	9		10	1	2	182		43	8		2		7	1												2	3	256	22		
22		NORTHERN NEVADA	170	23		8	1	2	31	235	7	4			1	18		1											8	12	2,076	23		
23		NEW YORK	526	181	36	66	8	84	1,063	173	222	447	3	33	123	1,001	36			1			2	35	1	6	9	1		74	179	24	24	
24		NORTH TEXAS																												12	19	456	25	
25		NORTH PACIFIC	185	22	7	8	2	2	66	292	11	33	65		34	145	1			5	1	1	1	10	1	1				12	752	752	19	
26		OHIO VALLEY	38	11	28	16		3	26	122	15	183	1	3	46		368	2												3	7	497	26	
27		OKLAHOMA CITY																												2	2	497	26	
28		OREGON	57	10		10	1	3	16	97	8	27			16	81	1	2	32	10	9	7	54	121	56	12	2		200	598	600	27		
29		PENN ANTHRACITE	39	6		6		1	10	183	7	6			3	16	136	1												2	2	4	28	
30		PERMIAN BASIN	11	3	1			8	23		2				4	7			34	19	7	14	78	167	100	28	1		318	903	933	30		
31		PHILADELPHIA	66	39	19	28	2	1	30	185	15	152	2		35	383	3	1												16	39	607	31	
32		PITTSBURGH	126	62	280	18	4	4	118	612	88	392		4	109	1,282	4													4	11	1,905	32	
33		ST. LOUIS	163	43	66	22	6	6	63	369	61	65	1		32	226	1	1												4	4	599	33	
34		SAN FRANCISCO	452	229	7	42		21	121	872	2	2			2	6				2	1	1	1	1					1	4	882	34		
35		ALABAMA	78	15		10		3	30	238	46	16	16		12	90	3													6	13	341	35	
36		SO. CALIFORNIA	268	62	9	48		12	88	487	59	34	197		36	326														1	1	814	36	
37		SOUTHWEST TEXAS	4	1		1		2	2	8		1	1		6	1	98		18	10	16	6	51	83	47	7	2		158	497	506	37		
38		SOUTHWESTERN NEW MEXICO	86	20			2	2	19	129		5	1																	2	3	65	39	
39		TRI-STATE	40	3	7			1	54	218	3	4	11		3	9	1																	

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.
MEMBERSHIP STATISTICS January 1, 1971

NO.	SECTION	SOCIETY OF MINING ENGINEERS OF AIME										THE METALLURGICAL SOCIETY OF AIME										SOCIETY OF PETROLEUM ENGINEERS OF AIME										GRAND TOTAL	NO.		
		Min. & Explor. A	M.B.D. B	Coal F	Ind. Min. H	Educ. J	Econ. K	Un-class	Total	Iron & Steel C	Extr. Met. D	Inst. of Met. E	Educ. J	Econ. K	Un-class	Total	Drilling & Well Complet. N	Educ. & Prof. O	Econ. & Eval. P	Form-Eval. R	Gas Tech. S	Geol. Eng. T	Management U	Prod. Oper. V	Reservoir Eng. W	Fl.Mech. & Oil Rec. Proc. X	OP & TECH. Y	Educ. J	Econ. K	Un-Class	Total				
66	BILLINGS PETROLEUM																20	3	1	4		6	4	7	6	1				23	75	75	66		
67	NEW YORK PETROLEUM							2		1							20	2	43	10	4	6	57	17	31	5	1			164	361	67	66		
68	ILLINOIS BASIN PETROLEUM									2							27	1	4		4	7	15	35	23	9				81	210	68	68		
69	LOS ANGELES BASIN		1		1			2	6	1		1					137	2	35	18	12	13	89	101	75	44	7	1		330	865	69	69		
70	E. VENEZUELA PETROLEUM	10		1	2			2	15	2	1						2		1		1		2	2	1				6	15	34	70	70		
71	EVANGELINE	3						2	10								131	5	8	14	3	2	40	69	28	5	1	1	173	481	71	71			
72	W. VENEZUELA PETROLEUM																23		8	5		4	9	18	15	3			42	127	72	72			
73	GREAT BEND																19		1	3		1	11	26	3	1			13	78	73	73			
74	UPPER MISSISSIPPI VALLEY	21	1					6	28						1	1														31	74	74	74		
75	SOUTH EASTERN UTAH	28	7		4			3	42														1							2	31	74	75	75	
76	CARACAS PETROLEUM	12	1				1	7	21	3	1	1				5	9	2	7	5		2	5	6	24	1	1		40	102	128	76	76		
77	FOUR CORNERS PETROLEUM																14		3	1	3		4	5	3	2			29	64	77	77	77		
78	CALIFORNIA COASTAL																31	1	3	7	2	4	12	24	15	6	4	1	55	165	78	78	78		
79																																	79	79	
80	SNYDER	1			1				2								9		2		1		6	10	1				14	43	45	80	80		
81	ROSWELL PETROLEUM				1				1								4		2			1	3	8	3				15	36	37	81	81		
82	WYOMING MIN & MTLs																																82	82	
83	BALCONES	99	9	9	10	2	1	39	169		1	1				2	20		10		1	9	9	29	10				1	1	172	83	83	83	
84					1			1																					70	168	170	84	84		
85	HUDSON-MOHAWK	14	7	2	5		3	6	37	20	7	118	1		35	181						1	4	1	1				7	14	232	85	85	85	
86	WILLISTON BASIN																7		1				4	7	3	1			15	38	38	86	86		
87	SAUDI ARABIA								1								7		1			2	8	5	5	3	1		24	53	54	87	87		
88	APPALACHIAN PETROLEUM	1															36		3		2	1	8	3	9	1		26	91	91	88	88			
89	NORTHERN OKLAHOMA																11	1			2		3	11	4	13	1		22	75	75	89	89		
90	UTAH COAL	1	1	22				5	29																				29	90	90	90	90		
91	NORTH W. VIRGINIA																18		1	2		2	7	3	4	3			13	55	57	91	91		
92	CAROLINAS	41	27	4	21		2	21	118	6	3	31			19	59						2							7	11	188	92	92		
93	WISCONSIN	43	44	4	7	1		15	114	27	4	42			13	86	1		2	1			2	1					1	7	207	93	93		
94	NETHERLANDS	9	4					3	16	5	8	3					26	1	5		4	2	16	13	4	4	5		34	116	149	94	94		
95	EAST TENNESSEE	76	11	8	7			23	125	11	14	47			8	80																	207	95	95
96	COASTAL BEND																																	96	96
97	VIRGINIA	23	3	9	4			6	45	4	7	31	1		5	48	1				1		1						3	6	99	97	97		
98	TEXAS COAST MIN-MET	116	18	2	18		5	33	192	30	19	35	1		18	103	3					1	2	3	1				5	15	310	99	98	98	
99	UNTAH BASIN																																	99	99
100	NORTHERN PLAINS	1							1								14			2				8		2				13	42	42	100	100	
101	BARTLESVILLE																2	1	3	1	12	1	7	3	14				15	60	61	101	101		
102	EAST KENTUCKY										1						5		7	6	5	2	5	22	16	15			35	119	120	102	102		
103	BIG HORN BASIN			2					2						1	1	14		2	4	1	1	1	3	2	1	1		12	37	40	103	103		
104	OHIO PETROLEUM		1					1	2								17		2		1	4	6	13	5	3			13	64	104	104	104		
105	CHICAGO PETROLEUM																27		3	2	1	4	14	14	6	2			6	121	123	105	105		
106	AMARILLO	2	2		1				5		7						10		3			2	11	5	5				20	56	57	106	106		
107	TEXAS PECOS PETROL																18		5			5	6	15	13	1			25	92	104	107	107		
108	MIDWEST GAS STORAGE																13		1																

CLASSIFICATION OF MEMBERS

	<u>AIME - 3 YEAR TALLY</u>			<u>SOCIETIES - 1970</u>		
	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>SME</u>	<u>TMS</u>	<u>SPE</u>
Honorary Members	18	18	21	9	5	7
Members	27,900	28,498	28,948	10,854	6,674	11,420
Associates	6,736	6,421	7,342	2,655	1,962	2,725
Juniors	<u>7,361</u>	<u>6,615</u>	<u>6,784</u>	<u>2,260</u>	<u>1,895</u>	<u>2,629</u>
Total	42,015	41,552	43,095	15,778	10,536	16,781
Student Members	<u>3,473</u>	<u>4,790</u>	<u>3,863</u>	<u>864</u>	<u>2,098</u>	<u>901</u>
GRAND TOTAL	45,488	46,342	46,958	16,642	12,634	17,682

MEMBERSHIP LOSSES 1970

	<u>SME</u>	<u>TMS</u>	<u>SPE</u>	<u>AIME</u>
Deaths	130	84	95	309
Resignations	102	120	173	395
Drops	588	795	882	2,265
Unaccepted	<u>149</u>	<u>219</u>	<u>90</u>	<u>458</u>
	969	1,218	1,240	3,427

DISTRIBUTION OF MEMBERS IN SOCIETIES
DURING LAST DECADE AS APPROXIMATE PERCENTAGE

<u>December</u>	<u>Mining</u> <u>Members</u> <u>%</u>	<u>Metallur-</u> <u>gical</u> <u>Members</u> <u>%</u>	<u>Petroleum</u> <u>Members</u> <u>%</u>
1959	36.0	23.5	40.5
1960	35.6	24.1	40.3
1961	35.3	25.4	39.3
1962	34.5	26.7	38.8
1963	33.6	28.0	38.4
1964	33.0	29.1	37.9
1965	32.2	29.5	38.3
1966	32.9	29.6	37.5
1967	33.7	29.2	37.1
1968	33.7	29.1	37.2
1969	33.7	29.1	37.2
1970	34.0	29.0	37.0

CLASSIFICATION OF APPLICATIONS RECEIVED AND
ELECTIONS MADE BY THE ADMISSIONS COMMITTEE

1970

<u>New Applications & Reinstatements:</u>	<u>1969</u>	<u>1970</u>	<u>Mining</u>	<u>Metallurgical</u>	<u>Petroleum</u>
Members	1,580	1,522	661	303	558
Associates	610	621	271	60	290
Juniors	<u>589</u>	<u>852</u>	<u>233</u>	<u>248</u>	<u>371</u>
TOTAL	2,779	2,995	1,165	611	1,219

Applications for Change of Status

Associate to Member	407	636	107	176	353
Junior to Member	43	57	41	9	7
Junior to Associate	-	1	-	-	1
Student to Member	6	4	2	1	1
Student to Associate	1	1	-	-	1
Student to Junior	6	3	1	-	2
Junior to Student	-	1	-	-	1
Junior to Joint Student	-	-	-	-	-
Student to Joint Student	-	-	-	-	-
Joint Student to Student	-	-	-	-	-
	<u>463</u>	<u>703</u>	<u>151</u>	<u>186</u>	<u>366</u>

<u>Applications for Student Members</u>	<u>1,481</u>	<u>1,131</u>	<u>531</u>	<u>111</u>	<u>489</u>
<u>GRAND TOTAL</u>	<u>4,723</u>	<u>4,829</u>	<u>1,847</u>	<u>908</u>	<u>2,074</u>

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

REPORT
of the
MEETINGS DEPARTMENT

General

The Meetings Department was established with the disbanding of the Activities Department and the creation of the three separate functions: Public Relations, Student and Section Affairs and Meetings. The Meetings Department is responsible for the organization and management of the AIME Annual Meetings and three new technical conferences.

Personnel

Mr. Alexander Scott joined the AIME Staff as Meetings Manager April 30, 1970 coming from Hilton Hotels Corporation where he held the position of Sales Manager for the New York Statler Hilton.

Miss Christina Liberta, Administrative Assistant for the Meetings Department came from National Retail Merchants Association where she had an extensive background in Meetings planning and coordination, joining AIME in June 1970.

99th Annual Meeting

The 99th Annual Meeting held in Denver proved to be one of the most successful meetings in recent years for AIME. The largest total registration of 5071 in the history of AIME attended, utilizing a total of 3405 guest rooms. The AIME member registration of 3458 was also the largest in AIME history.

The Meeting realized a total surplus of \$15,575.25 which in turn enabled AIME and the three Societies to break even or record a surplus.

Centennial Celebration and 100th Annual Meeting

The Meetings Department has devoted approximately 90% of its time to arrangements for the Centennial Celebration and 100th Annual Meeting during 1970.

Planning for the Centennial was begun some 3 years ago in 1967 and will be culminated this February in New York City.

The summer of 1970 was spent bringing into focus all the preliminary plans and suggestions for the Centennial. A Meeting was held in August, 1970 at which time reports were made by the responsible individuals for each major area of the Centennial and future assignments were delegated. The New York Section and New York Petroleum Section under the leadership of Orrin Main & Barry Bowman respectively have added valuable support and assistance in securing personnel to assist in Registration and Membership during the Annual Meeting.

Announcement Mailers were sent in August and a late November mailing contained hotel reservation forms, pre-registration material and extensive program information.

The Fall months saw increasing activity with the return and processing of pre-registration which is being returned by mail for the first time.

In view of the Centennial many special projects and arrangements are being made which include handling of special invited guests, additional Centennial social functions; and Centennial Technical Session programming.

At present plans have been finalized for the Pocket Program and Function Manuel and both publications will be printed on schedule.

New Staff assignment methods with specific instruction sheets have been designed and will be employed at the Annual Meeting for all AIME and Society Staff Members.

College students have been hired on a temporary basis to assist in several areas in preparation for the Centennial and have proven capable and willing workers.

In conclusion the Centennial and 100th Annual Meeting will mark a milestone in AIME history and all indications point to an outstanding and successful meeting.

Future Annual Meetings

1972 - San Francisco

Hotels have been selected and Society Headquarters will be assigned after an inspection of the facilities in April 1971. Mr. Robert Shoemaker heads the S. F. Section and has taken an active interest in the 101st Annual Meeting.

1973 Chicago

1974 Dallas

Both of these Meetings have hotels selected and further planning will not be conducted until 1972.

1975 New York

1976 Las Vegas

The sites have been selected but no hotels. We are holding space at the New York Hilton and Americana for 1975 but will not sign the final agreement until after the 1971 Annual Meeting.

1977

1978

Considering St. Louis, Washington, D. C., and New Orleans. City tour and hotel investigation may be conducted in 1971 time permitting.

New Technical Conferences

Environmental Quality Conference (EQC):

The first EQC has been scheduled for June 7-9, 1971 at the Washington Hilton, Washington, D. C. An announcement Mailer has been sent to 2,500 prospective exhibitors and will be followed with a 2nd mailing in early February 1971. A general announcement to AIME Members will be sent in late March 1971 containing housing information and detailed programming. We hope for an attendance of 12/1500 persons and 50/75 exhibits.

Rapid Excavation and Tunneling Conference:

The first conference is scheduled for June 5-7, 1972 at the Palmer House, Chicago, Illinois. This meeting is in conjunction with the Society of Civil Engineers. Meetings will be held with the Society of Civil Engineers to coordinate arrangements in 1971.

Summation

The Meetings function within AIME has assumed an expanding role in service to our Membership. The scheduling of these new technical conferences will meet the emerging technology of our disciplines. The 100th Anniversary year of 1971 should prove to be a milestone for the Meetings Department as well as the Institute.

Respectfully submitted,

Alexander R. Scott
Alexander R. Scott

REPORT

of the

PUBLIC RELATIONS DEPARTMENT

Since the AIME Board of Directors voted to dissolve the Activities Department and establish Meetings, Section Affairs and Public Relations as three separate departments, the title of Publications Assistant was changed to Communications Coordinator, reporting directly to the Director of Administration.

General

The Communications Coordinator works closely with the Meetings Manager and Sections Affairs Coordinator, specifically supporting them in their areas of publicity and promotion, and provides the general public relations services for AIME.

99th Annual Meeting Publicity

The main efforts of the Public Relations Department in early 1970 were devoted to publicizing AIME's 99th Annual Meeting in Denver. News releases were prepared on the meeting itself, all-Institute Award recipients, all-Institute sessions and key meeting and luncheon speakers. Each release was sent to a total of nearly 400 on the mailing list. Later, the releases were combined into news information kits and sent to more than 100 key news media in the Denver area on a personalized basis. More than a dozen Denver radio and television stations, daily newspapers, and wire services were visited personally several days prior to the start of the meeting. These efforts resulted in the full cooperation of the Denver news media with daily newspaper and TV coverage throughout the meeting. A press conference for the 1970 President, Mr. John C. Kinnear, Jr., provided additional trade, newspaper and television coverage.

Follow-up publicity on the meeting continued for several weeks after it was over. As a good-will gesture on the part of AIME, each award recipient and several AIME members who had made special requests received complimentary photographs.

Throughout the year, news releases were sent on a regular basis for Mr. Kinnear to cover his speaking engagements in various parts of the country.

Publicity for WAAIME was also handled by the Public Relations Department during the 99th Annual Meeting, as well as throughout the year.

Centennial Celebration and 100th Annual Meeting Projects

Due to the importance of the Centennial Celebration and 100th Annual Meeting, a great deal of effort was concentrated in this area. Two major mailers were prepared by the Public Relations Department. For the first time, an announcement mailer on the Centennial and 100th Annual Meeting was sent to the AIME membership in August. Again, in late November, the membership received a second mailer containing pre-registration and hotel reservation forms, as well as a Centennial Endowment Fund Solicitation form.

The Public Relations Department also assisted in various other Centennial Projects including the preparation of a large mailing for the Centennial Solicitation Fund, an AIME Commemorative Stamp and a Centennial Solicitation Fund acknowledgement card.

Centennial Publicity

The services of the North American Precis Syndicate were utilized in the preparation of a major feature story on the history and background of AIME. So far, this feature has been placed in nearly 200 publications and it is expected that it will be used by several dozen more.

A news release announcing the Centennial Celebration and 100th Annual Meeting was sent to more than 1,000 publications in mid-November. At least one release per week has been mailed to the news media since that time, and will continue up to and throughout the Centennial Celebration and 100th Annual Meeting.

General

A major project was completed in that the existing publicity mailing list which had been in use for several years was entirely updated. The new list now contains the names of nearly 1,200 publications broken down into nine categories.

Publications

The Public Relations Department prepared the 1970 Honors and Awards Booklet, a directory of current AIME Officers and Directors, the Student Newsletter, and handled the production of the Council of Economics Newsletter, the AIME Executive Directory and a number of other mailing pieces and publications. A general speech was also prepared for use by an AIME Staff member, an AIME member or any other interested individual who might request it.

Environmental Quality Conference

An Environmental Quality Conference logo has been designed for the Conference to be held in June. It was displayed prominently in a three-color announcement mailer prepared by the Public Relations Department and was sent to a selected list of potential exhibitors in September. It was also distributed at both the SME and TMS Fall Meetings. Additional copies of the EQC mailer will be available at the AIME Centennial Celebration and 100th Annual Meeting.

In addition, the Public Relations Department has distributed two Environmental Quality Conference releases to the news media - (1) an announcement release sent to the major metropolitan daily newspapers and trade publications and (2) a release calling for potential Conference papers. Future publicity will be prepared by the Public Relations Department for the EQC, its program and speakers.

Summation

It is the opinion of the Communications Coordinator that the re-organization of these three departments has added to the over-all efficiency in all three areas of responsibility. Close cooperation has resulted in more effective application of publicity and promotion within these areas, as well as within the Institute.

Respectfully submitted,

Sheila Dobrushin
Sheila Dobrushin

REPORT
of the
SECTION AFFAIRS DEPARTMENT

General

In February of 1970 the Board of Directors voted to dissolve the Activities Office and divide its functions among the newly-created Public Relations, Meetings, and Section Affairs Departments. The Section Affairs Coordinator services the local sections and student chapters of AIME, reporting directly to the Director of Administration.

Personnel

As a result of these changes, George Moffat left the Institute after training a member of the staff to perform the services of the department. In October Miss Alice Hegarty joined the staff and assumed the responsibility of coordinating services to the local sections and student chapters.

Membership Development

The Department administers reporting and accounting for the Membership Contest and assists Section and Division Membership Chairmen in their specific programs.

During 1970 the Institute grew from 42,897 in January to 46,958 as of December 31, 1970. Credit for this growth must be given to the All-Institute Membership Committee and to the many membership chairman throughout the Institute.

The winners of the Membership Contest for 1970 are:

Group A	Eastern Nevada Section
Group B	Wyoming Mining & Metals Section
Group C	Texas Coast Mining & Metals Section
Group D	Florida Section
Group E	Minnesota Section

Student Affairs

AIME's Student Program is administered by the Section Affairs Department, under the direction of the AIME Student Affairs Committee, Nelson Severinghaus, Chairman.

The Student Program gives students an opportunity to expand their educational experience beyond the limits of the classroom by providing them with an opportunity to associate with professional engineers in their chosen field.

Student participation in the Student Paper Contest has continued to grow. This year 60 students submitted papers which were judged by the 1970 Student Paper Committee under the Chairmanship of Charles D. Cox.

The winners of the Student Paper Contest were:

SME-AIME Graduate	Lee R. Rice
SME-AIME Undergraduate	Richard Turpin
TMS-AIME Graduate	Phillip A. Parrish
TMS-AIME Undergraduate	Richard P. Gangloff
SPE-AIME Graduate	Neale F. Taylor
SPE-AIME Undergraduate	Robert R. Harrell

Participation in the Outstanding Student Chapters Contest has also grown. The winners in this contest for 1970 were:

The University of Florida
Louisiana Polytechnic Institute
University of Tulsa
Michigan Technological Institute
Virginia Polytechnic Institute

AIME Officers continued to visit the student chapters, and free registration and Student Hospitality Suites at major AIME meetings continue to encourage student participation at these meetings.

During 1970 student membership has grown to 4,538. Five new chapters were organized, making a total of 95 Student Chapters. Two additional chapters are now under consideration.

Career Guidance

In addition to the quarterly Student Newsletter, the Department also handles requests for career guidance material booklets and film strips. Publication of the availability of career information resulted in the distribution of over 2,000 copies of each of AIME's career booklets to guidance counselors. It is hoped that distribution of career information will stimulate interest in the mining, metallurgy and materials science and petroleum engineering fields. Additional publications are planned.

Mining and Metallurgical Society of America

The Mining and Metallurgical Society of America is being administered by AIME's professional staff. The Section Affairs Coordinator is Staff Secretary of M&MSA, and coordinates all activities of that organization.

Summation

It is our hope that the Section Affairs Department will provide improved services to the sections to enable them to better serve our members during 1971.

Respectfully submitted,

Alice F. Hegarty

Alice F. Hegarty

REPORT
of the
WESTERN FIELD SECRETARY

To provide a geographically appropriate agency for communication, liaison and coordination among the widespread Western Sections, Subsections and Student Chapters, the Institute maintains a Western Field Office at 808 Newhouse Building, Salt Lake City, Utah. This office is staffed by the Western Field Secretary, Clifford J. Hicks, and his secretary, Evelyn K. Burke. It is the intent of the office to offer the manifold services of AIME to western mining and metallurgical society members with a maximum of personal contact and individual attention. So that the functions of the office could be carried out in this spirit during 1970, visits--some multiple, as indicated below by number--were made to 16 different Sections and Subsections, five Student Chapters and 17 major conferences, plus AIME and Society Boards of Directors' meetings and meetings of Regional Councils of Section Delegates.

Sections and Subsections Visited During 1970 by C. J. Hicks

Bisbee-Douglas Subsection (Arizona Section), Naco, Arizona
Black Hills Section, Belle Fourche, South Dakota
Colorado Plateau Section, Grand Junction, Colorado (3)
Colorado Section, Denver, Colorado
Eastern Nevada Section, Ely, Nevada
Maricopa Subsection (Arizona Section), Phoenix, Arizona
Morenci Subsection (Arizona Section), Morenci, Arizona
Northern Nevada Section, Reno, Nevada (3)
Oregon Section, Portland, Oregon
St. Louis Section, St. Louis, Missouri (President's Night)
San Francisco Section, San Francisco, California
Snake River Section, Pocatello, Idaho
Southeastern Utah Section, Moab, Utah (2)
Utah Coal Section, Price, Utah
Utah Section, Salt Lake City, Utah (6)
Yavapai Subsection (Arizona Section), Prescott, Arizona

Major Meetings and Conferences Attended by C. J. Hicks in 1970

43rd Annual Meeting, Minnesota Section, Duluth, Minnesota
31st Annual Mining Symposium of University of Minnesota, Duluth, Minn.
Career Guidance Panel and Discussion, Price, Utah, sponsored by
"Oldtimers Club" of SME Coal Division
73rd National Western Mining Conference and Exhibition, Denver, Colo.
Annual Meeting of AIME, Denver, Colorado
Uranium Symposium, Socorro, New Mexico
Spring Meeting of TMS, Las Vegas, Nevada
Annual Meeting, MBD Subsection, Colorado Section, Colorado Springs, Colo.
Pacific Southwest Mineral Industry Conference, San Francisco, Calif.
Annual Convention, Wyoming Mining Association, Moran, Wyoming

AIME and TMS Boards of Directors Meetings, New York City, New York
 Sixth Annual Intermountain Minerals Conference, Vail, Colorado
 Southwest Region Council of Section Delegates, Denver, Colorado
 Northwest Region Council of Section Delegates, Denver, Colorado
 Convention of the American Mining Congress, Denver, Colorado
 SME Fall Meeting and AIME World Lead-Zinc Symposium, St. Louis,

Missouri, including: AIME Board of Directors Meeting
 SME Board of Directors Meeting

Annual Meeting, Arizona Section, Tucson, Arizona, including: Board
 of Directors Meeting

Student Chapters Visited During 1970 by C. J. Hicks

University of Arizona, Tucson, Arizona
 Colorado School of Mines, Golden, Colorado
 University of Nevada, Mackay School of Mines, Reno, Nevada
 New Mexico Institute of Mining & Technology, Socorro, New Mexico
 University of Utah, Salt Lake City, Utah

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

Conference Assistance

The Western Field Office directly assisted in the planning and execution of five major mineral conferences held during 1970 and acted in an advisory capacity for several others.

Staff assistance in the following 1971 meetings is being, or will be, supplied by the Western Field Office:

- February 26-March 4 - AIME Centennial Celebration and 100th Annual Meeting, New York City--registration and All-Institute Programming
- April 4-7 - Pacific Northwest Metals and Minerals Conference, Portland, Oregon
- May 5-7 - Pacific Southwest Mineral Industry Conference, Reno, Nevada
- May 20-22 - MBD Subsection (Colorado Section) Annual Meeting, Colorado Springs, Colorado
- September 22-24 - SME Fall Meeting, Seattle, Washington

Reports

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

Newsletters

Newsletters, under the title "Field Notes," containing lightly written news and comments of interest to Western Sections were distributed to approximately 230 members per issue. This total included Section and Subsection Chairmen, Vice-Chairmen and Secretaries, Faculty Sponsors of Student Chapters, and AIME, TMS and SME Boards of Directors.

Official Section Visits

The Western Field Office is responsible for the Administration of the Official Section Visits Program wherein AIME, SME and TMS officers and directors are invited to attend meetings of their assigned mining and metals Sections and Student Chapters during the Institute year. There were 39 visits to Sections and Subsections. Acceptances were received for 25 additional visits to be made. Twenty Sections and Subsections remained without a visitation or acceptance.

Sixteen Student Chapters were visited during the year. Acceptances were received for 23 assignments, and 21 Chapters remained "open" or without a scheduled visit.

Student Summer Employment

A program designed to help students of minerals engineering obtain summer employment was again administered by this office. Four hundred fifty-seven companies actively engaged in mining, metallurgical and petroleum operations were contacted and requested to consider offering summer employment to students of minerals engineering. A total of 54 companies responded positively with over 793 job openings. Eighty-two Faculty Sponsors of Student Chapters were supplied, simultaneously, with the necessary information regarding the openings so that interested students might make application directly to the employers.

1970 Henry Krumb Lecture Series

The 1970 AIME Krumb Lecturers were Evan Just, Ronald J. P. Lyon and Sam H. Schurr. The Western Field Office acted as coordinating agency between the lecturers and the AIME Sections and Subsections at which their lectures were given. Twenty lectures were presented to various Sections during the year.

New Section and Subsection

Assistance was offered and rendered to groups attempting to obtain Section or Subsection status. The Southwestern Wyoming Section, headquartered in Green River, Wyoming, received approval to form as a separate Section, and members residing in eastern Wyoming organized and petitioned for a Subsection of the Wyoming Mining and Metals Section and were accepted by the Board of Directors.

Rossiter W. Raymond Award and Alfred Noble Prize

In its administration of the Rossiter W. Raymond Award, the Western Field Office forwarded 27 papers meeting eligibility requirements to the committee for consideration in making their selection of a recipient of the award. Additional manuscripts will now be reviewed by the committee to determine which one will be entered in the Noble Prize Award competition.

All-Institute Programming

Acting in staff support of William A. Vogely's All-Institute Programming Committee, the Western Field Office aided in the compilation of data relating to the All-Institute Programming for the 1971 Annual Meeting in New York City. Periodic reports were issued to appropriate personnel.

Plans for 1971

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 1970 a successful and rewarding year.

Respectfully submitted,

CLIFFORD J. HICKS

Western Field Secretary, AIME

REPORT
of the
SECRETARY, SOCIETY OF MINING ENGINEERS OF AIME

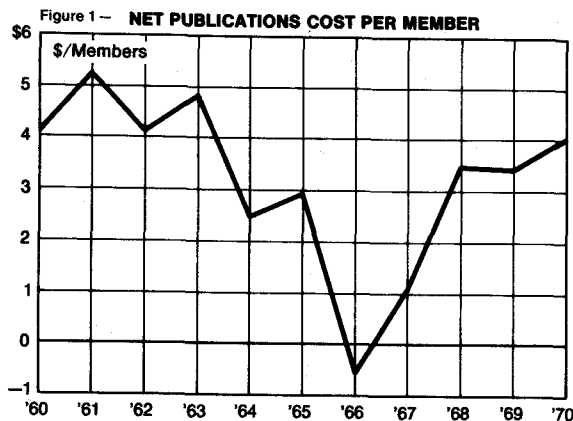
It has been mentioned often that SME is a growth organization and 1970's results bear out this point. With pride, it can be noted that membership and income have grown; but so too have expenses. As predicted earlier in the year, it will be necessary to draw upon the SME Activities Fund to meet the excess of operating expense over income. Net income from the Fall Meeting and book department operations, however, more than offset the operating deficit. Total 1970 expenses paid by SME amounted to \$48.23 per member, including student members. Average dues income per member was \$16.21.

There is every reason to believe that SME will continue to prosper through normal activities such as membership development, book and subscription sales, advertising revenue and exhibits and meeting income. Anticipated changes in financial reporting will give better control of expenses and a closer balance of income and expense in the operating budget.

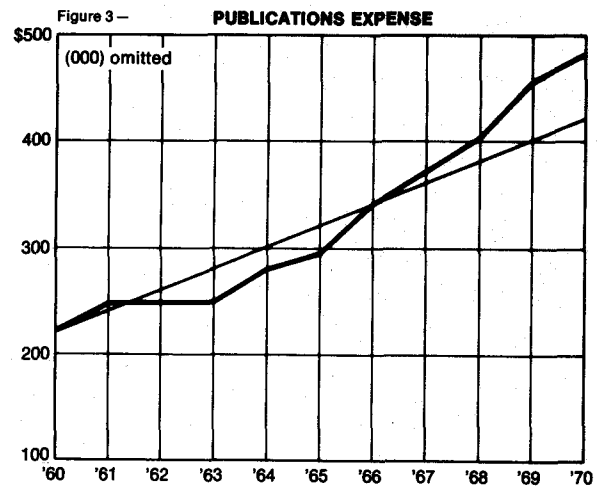
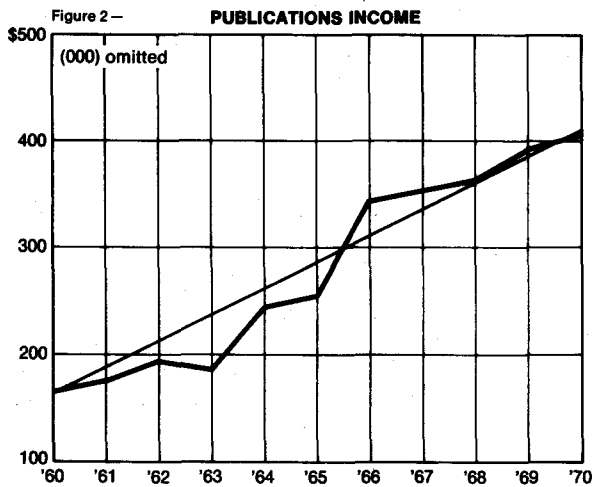
Following is a brief report on each phase of the Society's operations.

PUBLICATIONS

Publication department operations during fiscal year 1970 yielded a net cost per member of \$4.00 which compares with \$3.50 in 1969. Figure 1 illustrates the trend over the last ten years.



Figures 2 and 3 demonstrate respectively the trends of publication income and expense over the last decade.



The operations that produced these results include MINING ENGINEERING, Directory, Transactions, Preprints and Reprints.

MINING ENGINEERING: Advertising revenue increased slightly. Non-member subscriptions were up substantially. In the case of advertising, the greater income was due to increased use of color in the advertising. The number of advertising pages was actually down. Table 1 shows the trend of MINING ENGINEERING total income from advertising, subscriptions and reprints. Subscriptions are an indication of the popularity of a journal and M.E. exhibits a healthy trend as shown in Table 2.

Table 1 - MINING ENGINEERING Income
(Advertising, Directory, Subscriptions, Reprints)

<u>1950</u>	<u>1955</u>	<u>1960</u>	<u>1965</u>	<u>1970</u>
\$63,594	\$110,937	\$153,753	\$225,112	\$370,184

Table 2 - Subscriptions

<u>1950</u>	<u>1955</u>	<u>1960</u>	<u>1965</u>	<u>1970</u>
902	981	1147	1216	2074

There were three special issues;- February Annual Review, July Membership Directory and October Fall Meeting issue on Pb-Zn. The October issue was an excellent synopsis prepared by Managing Editor A. Blake Caldwell of new technology extracted from the AIME World Symposium on the Mining and Metallurgy of Lead and Zinc. Caldwell also wrote the Twin Buttes feature story in the April issue. Assistant Editor R. P. Sisselman's on-the-spot report of the Rowland Coal mine was the feature of the May issue. Thailand and Indonesia mining outlook were reported by John V. Beall in July and August, respectively. The real grist of the magazine, however, was the member-contributed technical articles.

"Careers in Mining" continues to attract considerable attention and is always close to the top of the six best-read features. Numerous requests were received for reprints of the pages and for poster-sized enlargements. The enlargements were distributed, 300 each month, to high schools and junior colleges throughout the country by WAAIME, the Sections and direct mail. It is estimated that 3200 guidance counselors displayed these posters in high schools and junior colleges all over the country.

An intensive promotion and advertising campaign for the AIME Centennial was carried on throughout the year. Directors have received copies of this literature and the advertisements as they were released.

In honor of the next 100 years in mining, re-design of M.E. artwork was executed and inaugurated with the January 1971 issue.

Transactions: The reader review committee considered 268 papers in 1970. Of these, 66 (354 pages) were published in the Transactions of the Society of Mining Engineers. In addition, 42 papers were published in M.E. There are currently 16 accepted and awaiting publication, 62 in process and 52 were turned down or withdrawn by their authors. Table 3 gives comparative figures for M.E., Transactions and Preprints.

Table 3 - SME Pages Published

Year	MINING ENGINEERING		TRANSACTIONS	PREPRINTS
	Editorial	Advertising		
1965	862	662	398	756
1966	825	733	463	906
1967	945	703	489	948
1968	937	626	562	1056
1969	1061	641	476	2894
1970	1462	572	354*	2979

* A format change in 1970 produced a substantial saving in pages published. The actual number of papers published increased.

An effort was made during 1970 to publish Transactions issues which would be specialized such as an Exploration issue and one on Beneficiation. The December issue of the Transactions quarterly was exclusively Beneficiation. However, in the opinion of the Review Committee an insufficient number of quality papers was submitted to warrant an Exploration number.

The idea of segregating Transactions papers by subject is fundamentally sound but so far has not been compatible with a regularly scheduled journal. It might be feasible on the other hand to produce journals like the former Technologies to be released when a sufficient number of papers have been approved.

BOOKS

In 1970, the book-publishing activities of SME continued at a brisk pace. The following new titles were issued:

"Rapid Excavation--Problems and Progress", edited by Donald H. Yardley, proceedings of the Tunnel & Shaft Conference held in 1968 at the University of Minnesota.

"AIME World Symposium on the Mining & Metallurgy of Lead and Zinc," Vol. I: "Mining and Concentrating", edited by B. C. Mariacher and D. O. Rausch; Vol. II: "Extractive Metallurgy", edited by Carl H. Cotterill and John M. Cigan. As a result of her excellent coordination and the efforts of the co-editors of each of the volumes, Miss Marianne Snedeker, Book Department Manager, was able to have the Lead-Zinc Proceedings delivered in time for distribution at the 1970 SME Fall Meeting in St. Louis. Each book was over 1000 pages long.

"Rock Mechanics--Theory and Practice", edited by Wilbur H. Somerton, proceedings of the 11th Symposium on Rock Mechanics held in 1969 at the University of California.

Reprint edition of "Ore Deposits in the United States, 1933-1967," 3000 copies of Vols. 1 and 2.

At the present time, SME is working on the following books:

Reprint edition of "A Decade of Digital Computing in the Mineral Industry," published in September 1969.

"Dynamic Rock Mechanics," edited by George B. Clark, proceedings of the 12th Symposium on Rock Mechanics held at the University of Missouri--Rolla, November 1970. Anticipated publication date: March 1971.

Cumulative Index of mining periodical publications published by AIME 1936-1968.

"Mining Engineering Handbook," Ivan Given, editor. Anticipated publication date: Fall 1971.

"Stability for Open Pit Mining," proceedings of the Symposium held at the University of British Columbia in November 1970.

Future rock mechanics volumes will be printed in rotation by the other societies comprising the National Committee on Rock Mechanics.

EXHIBIT

The St. Louis Fall Meeting/Technological Information Exchange was a success with 76 spaces sold to 56 exhibitors. Gross income was \$27,650. This amount is slightly off from the previous year, which is not bad considering that all trade shows and industrial advertising were off markedly in 1970.

MEMBERSHIP DEVELOPMENT

Membership grew to 16,642 during 1970. Figure 4 shows the trend in recent years and Table 4 shows the breakdown by class of membership, the total and the number dropped on December 31 of the previous year for nonpayment of dues.

SME had the largest increase in membership among the AIME Societies which reflects, in part, the energy devoted to obtaining new members by such individuals as R. S. Shoemaker, San Francisco Section, Dean Lynch, Arizona Section, and a host of others.

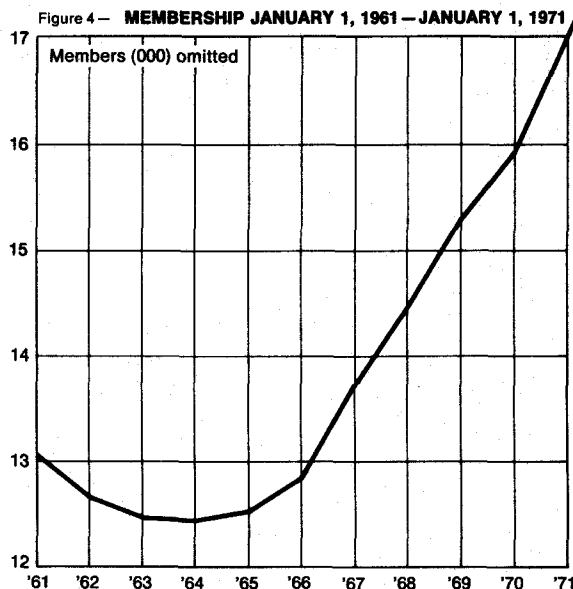


Table 4 - SME Membership

	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Members	9401	9892	10328	10548	10863
Associates	2080	2214	2372	2355	2482
Juniors	1601	1610	1722	1672	1975
Students	<u>664</u>	<u>773</u>	<u>1005</u>	<u>1375</u>	<u>1322</u>
TOTAL	13746	14489	15427	15950	16642
Unpaid Dues	542	353	383	419	588
% Dropped	3.79	2.44	2.42	2.55	3.54

MEMBER SERVICE

Insurance: The group insurance programs pioneered by SME were extended in 1971 to cover all AIME members. There are now five insurance programs in force. A new one, called the Cancer Protection program was initiated in 1970. These insurance programs are constantly bettered because improved rates and benefits are passed on to the membership as they are earned and as they become available. The number of members taking advantage of the group insurance programs increases each year.

Short Courses: The short courses presented by the Society of Mining Engineers immediately before Annual and Fall Meetings have been extremely successful. A short course on Bio-Extractive Mining was held in Denver and was attended by 201 persons. In St. Louis there were two short courses, one on Continuous Weighing for which 22 persons enrolled and another on Remote Sensing with 30 enrollees. Since the short course program was launched 1969, under the direction of Dr. Willard C. Lacy, SME has sponsored a total of five courses.

Employment Service: This service conducted through the pages of MINING ENGINEERING has been utilized extensively by the members and by mineral industry employers during the year.

MEETINGS

Attendance at meetings, Annual, Fall and Coal Division Spring Field, is shown in Table 5. At Denver SME Attendance showed a notable surge whereas at the Fall Meeting attendance was off from the previous year, presumably as the result of economic conditions.

Table 5 - SME Meetings Attendance

<u>YEAR</u>	<u>ANNUAL</u>	<u>FALL</u>	<u>Coal Div. SPRING MEETING</u>
1965	1,299	527	49
1966	1,572	1,257	220
1967	1,577	1,325	211
1968	1,923	1,181	414
1969	1,598	2,313	632
1970	3,096	1,893	183

Table 6 - SME Meetings-Sessions & Papers

<u>Year</u>	<u>F A L L</u>		<u>A N N U A L</u>	
	<u>Sessions</u>	<u>Papers</u>	<u>Sessions</u>	<u>Papers</u>
1966	18	71	30	140
1967	19	75	33	168
1968	26	93	31	159
1969	34	160	33	147
1970	38	163	38	163

SME Members not only took part in the meetings tabulated above but also in the Pacific Northwest Metals and Minerals Conference, the 12th Symposium on Rock Mechanics and the Offshore Technology Conference and many Section meetings.

1970 STAFF TRAVEL

Jan.12-14	Minnesota Section Annual Meeting Duluth, Minn.	RPS
Feb.15-21	AIME Annual Meeting, Denver, Colo.	JCF, JVB, LED RMO, RPS, VJD, ABC, MS
Feb.18	Article Research, Tucson, Ariz.	ABC
Mar.20	Visit to Printer, Manchester, N.H.	JVB
Mar.22-23	Pb-Zn Committee Mtg., St. Louis, Mo.	JCF
Mar.30	Pollution Conference, Washington, D.C.	ABC
Apr.12	Printing Consultation, Manchester, N.H.	ABC
Apr.13-26	JIMM Executive Meeting, re. 1972 Tokyo Meeting, Tokyo, Japan	JCF
Apr.15-17	Coal Div. Spring Field Meeting, Pittsburgh, Pa.	JVB
Apr.21-24	Offshore Technology Conference, Houston, Texas	LED, RPS
June 1-7	VI International Mining Congress, Madrid, Spain	JCF
June 10	Maple Press, York, Pa.	JVB, MS
June 14-16	Caterpillar Press Conf., Peoria, Ill.	RPS
June 24-26	Ohio State Engrg. Education Meeting, Columbus, Ohio	RPS
July 7-9	Fall Meeting Committee, St. Louis, Mo.	JCF
July 16-18	IndMD Committee Meeting, State College, Pa.	JVB
July 21-23	Indoctrination-National Defense Executive Reserve Emergency Minerals Administration, Battle Creek, Mich.	JCF
July 23 Aug. 11	Lead-Zinc books, Port City Press, Baltimore, Md.	MS
Aug. 14	Visit scrap operations, New Haven, Conn.	JVB

Sept.8-10	Lead-Zinc publications, Port City Press, Baltimore, Md.	MS
Sept.10	Printing Consultation, Manchester,N.H.	RPL
Sept.15	Advisory Board, Emergency Minerals Admn., Battle Creek, Mich.	JCF
Sept.16-17	Allis Chalmers Press Conference, Canton, Ohio	RPS
Sept.17-30	ICRM Meeting, Belgrade, Yugoslavia	JVB
Sept.18	Lead-Zinc publications, Port City Press, Baltimore, Md.	MS
Sept.22	Research, Niagara Falls, N.Y.	ABC
Sept.23-24	St. Louis Host Committee Meeting St. Louis, Mo.	JCF, RKL
Sept.26-30	American Mining Congress Meeting, Denver, Colo.	RPS
Oct. 1-5	Peabody Coal story, Kayenta, Ariz.	RPS
Oct. 7	Printing Consultation, Manchester, N.H.	ABC
Oct. 15-24	SME Fall Meeting and Exhibit St. Louis, Mo.	JCF, JVB, LED, RMO, MS, PL, RKL, RPS
Oct. 21	Planning '71 SME Fall Meeting, Seattle, Wash.	RKL
Nov. 5-6	Off-the-Record Meeting, Pittsburgh, Pa.	JVB
Nov. 13-16	Rock Mechanics Meeting, Rolla, Mo.	JVB
Dec. 3-8	Visit to East Tintic District, Salt Lake City, Utah	JVB
Dec. 7	Seattle Section Committee Meeting, Seattle, Wash.	RKL
Dec. 7	Arizona Section Annual Meeting Tucson, Ariz.	JVB

HONORS AND AWARDS

The following SME Members were honored during 1970.

Charles E. Lawall
 Stuart R. Zimmerley
 J. R. Simplot *
 John W. Handin *
 Donald L. Katz
 J. David Lowell
 Robert Stefanko
 Charles B. Manula)
 Thomas J. O'Neil)
 Robert B. Smith *
 W. E. Horst)
 E. J. Freeh)
 David R. Mitchell

Erskine Ramsey Gold Medal
 Robert H. Richards Award
 Hal Williams Hardinge Award
 Rock Mechanics Award
 Mineral Industry Education Award
 D. C. Jackling Award & Lecture
 Howard N. Eavenson Award
 Robert Peele Award

 Best Presentation Award

 Best Presentation Award
 Percy Nicholls Award

*Not AIME Members

SME MEMBERS
 inducted into

AIME LEGION OF HONOR

Class of 1920

R. M. Adams
 H. R. Aldrich
 H. I. Altschuler
 S. E. Atkins
 E. C. Bain
 G. W. Bain
 J. Brander
 C. W. Brown
 V. A. Brussolo
 E. F. Bullard
 J. A. Clark
 W. R. Clark
 T. P. Clendenin
 W. H. Coburn
 J. D. Conover
 D. K. Crampton
 J. R. Cudworth

E. F. Davis
 C. B. E. Douglas
 T. F. Downing, Jr.
 J. V. Emmons
 A. E. Fath
 F. W. Foote
 E. P. Frink
 T. S. Fuller
 O. A. Glaeser
 J. E. Harding
 H. M. Henton
 R. D. Hoffman
 A. G. E. Hultgren
 H. G. Hymer
 A. I. Johnson
 J. L. Kalb
 R. S. Knappen

E. H. Kraus
 T. A. Link
 W. Loel
 E. R. Lovell
 R. T. Lyons
 D. C. McKechnie
 M. R. McKeown
 W. B. Miller
 C. Van Ormer Millikan
 J. A. Noyes
 J. J. O'Neill
 F. G. Pardee
 R. D. Parks
 R. Peale
 R. M. Peterson
 J. H. Pierce
 N. B. Pilling

T. D. Radcliffe
 C. C. Rae
 W. A. Reiter
 G. D. Robertson
 J. F. Robinson
 C. D. Rubert
 L. K. Sillcox
 A. Soux
 R. J. Spry
 C. H. Strange
 W. T. Thom, Jr.
 L. L. Turley
 F. S. Turneure
 D. Van Evera
 J. R. Van Pelt, Jr.
 P. Weir
 E. R. Wilcox
 C. L. Wilson

STAFF ORGANIZATION

Staff changes since October include the appointment of Miss Susan Schutt as Secretary to the editorial department and the resignation of Mr. R. K. Lockwood. Mrs. Lillian Donaldson was advanced to the post of Assistant to the Executive Secretary and Mrs. Ruth Orologio to Administrative Assistant.

CONCLUSION

I wish to express my appreciation to the President, Directors and more than 500 SME Officers and Committeemen for their splendid service to the Society which has rendered the work of the staff more efficient and pleasurable. We are also indebted to Mr. Joe B. Alford and his AIME Headquarters staff for their excellent assistance and cooperation.

Respectfully submitted,


 John Cameron Fox

REPORT
of the
SECRETARY OF THE METALLURGICAL SOCIETY OF AIME
for 1970

Despite limitations imposed by the general economy of 1970 on those in metallurgical fields, The Metallurgical Society's membership, meetings, publications, and other member services enjoyed moderate success. We are indebted to William J. Harris, Jr., who served as President of TMS during a year of changes, for his guidance. This report describes all phases of TMS activities in 1970, and reports briefly on each.

TECHNICAL CONFERENCES

The Metallurgical Society, through its units, sponsored or co-sponsored ten conferences during calendar year 1970:

		<u>Attendance</u>	<u>Number of Technical Sessions</u>	<u>Number of Papers Scheduled</u>
January 22 Chicago	12th Mechanical Working & Steel Processing Conference	211	6	26
February 16- 19 Denver	99th AIME Annual Meeting - TMS	1,123	36	183
April 6-8 Detroit	53rd National Open Hearth & Basic Oxygen Steel Conference	979	7	24
	29th Ironmaking Conference	445	9	34
April 22-24 Houston	2nd Annual Offshore Technology Conference & Exposition	5	3	12
May 11-14 Las Vegas	TMS Spring Meeting	697	67	331
August 30- September 2 New York	12th Annual Electronic Materials Conference	265	6	35
September 21- 23 Vail	Nuclear Metallurgy Structural Steels	75	5	26
October 5-9 Santa Fe	4th International Conference on Plutonium & Other Actinides	191	14	62
October 19- 22 Cleveland	TMS Fall Meeting	972	53	360
December 9- 11 Pittsburgh	28th Electric Furnace Conference	1,351	10	41
	TOTAL	6,314	216	1,134

NOTE: Attendance in 1970 was 755 less (combined) than in 1969 (7,069).

14 more technical sessions were scheduled in 1970 than in 1969.

62 more papers were scheduled in 1970 than in 1969.

SCHEDULE OF TMS CONFERENCES FOR 1971

January 20	13th Mechanical Working and Steel Processing Conference Pittsburgh Hilton Hotel, Pittsburgh, Pennsylvania
February 26- March 4	100th AIME Annual Meeting, New York Hilton Hotel and Americana Hotel, New York, New York
April 18-21	3rd Annual Offshore Technology Conference and Exposition Houston, Texas. (Co-sponsored by AIME, AAPG, AIChE, ASCE, ASME, IEEE, MTS, SEG, SNAME)
April 19-21	54th National Open Hearth and Basic Oxygen Steel Conference 30th Ironmaking Conference Pittsburgh Hilton Hotel, Pittsburgh, Pennsylvania
May 17-20	TMS Spring Meeting The Regency-Hyatt House, Atlanta, Georgia
June 7-9	Environmental Quality Conference The Washington Hilton Hotel, Washington, D.C.
August 29- September 1	13th Annual Electronic Materials Conference St. Francis Hotel, San Francisco, California
October 18-21	TMS Fall Meeting with ASM Materials Engineering Congress and Metal Show Statler Hilton Hotel, Detroit, Michigan
December 8-10	29th Electric Furnace Conference Royal York Hotel, Toronto, Ontario, Canada

PUBLICATIONSMETALLURGICAL TRANSACTIONS

Technical papers published during 1970:

	<u>Number of TPs</u>	<u>Pages</u>	<u>Total Pages</u>
EMD	45	280.0	
ISD	25	164.0	
IMD and ASM	<u>305</u>	<u>2246.0</u>	
TOTAL	375	2690.0	
Special Issue (March)	<u>26</u>	<u>178.0</u>	
Total TPs Published	401	2868.0	2868.0

Communications published in 1970:

	<u>Number of Comms.</u>	<u>Pages</u>	<u>Total Pages</u>
EMD	16	25.5	
ISD	10	22.5	
IMD and ASM	<u>145</u>	<u>271.0</u>	
Total Communications published	171	319.0	319.0
Metallurgical Classics			82.0
Title Pages			12.0
Table of Contents, Author Instructions, etc.			46.0
Blank Numbered Pages			<u>203.0</u>
Total Numbered Pages in 1970 METALLURGICAL TRANSACTIONS			<u>3530.0</u>

Aside from fiscal matters, the policies governing METALLURGICAL TRANSACTIONS are determined by the Joint Commission on TRANSACTIONS, of which Paul G. Shewmon is Chairman. The other TMS representatives are Robert E. Lund and Harry W. Weart. In accordance with objectives declared before the merger was approved by both Societies, the publication is intended to serve the needs of the entire metallurgical profession. Thus, Society distinctions are eliminated throughout both the review and publication process. Consequently, the divisional listings in the tabular data represent the distribution of effort in the Board of Review and not the source of papers.

JOURNAL OF METALS

From December, 1969 through November, 1970, JOURNAL OF METALS published 912 pages. This is a decrease of 80 pages over the same period in 1969. The decline of pages is due to publishing fewer pages of abstract bulletins in JOURNAL OF METALS, i.e. the Abstract Bulletin of the 1970 TMS Spring Meeting was not published in JOURNAL OF METALS, but was a separate volume.

Of the 912 published pages, 124-1/2 were devoted to advertising, 208 to editorial content, 416 to feature articles, 61 to technical programming, 24-1/2 to meeting announcements and forms, 60 to the 1970 TMS-AIME Annual Meeting Abstract Bulletin, 6 to the JOURNAL OF METALS Index to Subjects and Authors for 1969, and 12 to the front cover of the magazine.

The number of Conference Proceedings papers published in JOURNAL OF METALS during the fiscal year was 4 papers for a total of 30 pages. The breakdown is as follows:

NOH & BOSC Conference	3 papers	26 pages
Ironmaking Conference	1 paper	6 pages

Papers published in JOURNAL OF METALS which were presented at TMS meetings but not published in Proceedings Volumes totaled 23, for a total of 151 pages.

1968 Spring Meeting	1 paper	9 pages
1969 Annual Meeting	1 paper	5 pages
1969 Fall Meeting	3 papers	19 pages
1969 Offshore Technology Conf.	5 papers	36 pages
1970 Annual Meeting	12 papers	73 pages
24th New England Regional Conf.	1 paper	9 pages

Two Conference Summaries were published in the JOURNAL OF METALS for a total of 6 pages.

Abstracts for TMS portion of the 99th AIME Annual Meeting were published in the December, 1969 issue of JOURNAL OF METALS. The breakdown is:

33 TMS Sponsored Sessions	167 abstracts) TOTAL PAGES - 60
3 Joint TMS-SME Sessions	16 abstracts	

A total of 58 pages of technical programming and 19-1/2 pages of pre-registration and housing forms for the units of The Metallurgical Society were printed in JOURNAL OF METALS during Fiscal Year 1970. The breakdown is as follows:

<u>Meeting</u>	<u>Programming Pages</u>	<u>Pre-Registration Pages</u>	<u>Issue</u>
1970 Annual Meeting	-	1	December
1970 Mechanical Working & Steel Processing Conference	2-1/2	1	December
1970 Annual Meeting	8	-	January
1970 NOH & BOSC and Ironmaking	-	2	February
1970 NOH & BOSC	4	-	March
1970 Ironmaking	3	-	March
1970 NOH & BOSC and Ironmaking	-	2	March
1970 Spring Meeting	12	1	April
1970 Nuclear Metallurgy (Pressure Retaining)	2-1/2	1/2	June
1970 4th Plutonium	6	1/2	June
1970 Electronic & Magnetic Matls.	1/2	-	July
1970 Fall Meeting	-	3	July
1970 Fall Meeting	15	3	August
1970 Lead-Zinc Symposium	1-1/2	1/2	August
1970 Fall Meeting	-	3	September
1970 Electric Furnace Conference	3	2	October
	<hr/>	<hr/>	
TOTAL	58	19-1/2	
	<hr/>	<hr/>	

ABSTRACT BULLETINS

During 1970 abstract bulletins for the Annual, Spring and Fall Meetings of TMS were published as separate volumes:

	<u>Total Pages</u>	<u>Front Matter</u>	<u>Index</u>	<u>Ads.</u>	<u>Sessions</u>	<u>Abstracts</u>	<u>Avg. Papers Per Session</u>
1970 Annual	60	3	3	3	36	183	5
1970 Spring	198	2	6	5	67	492	7
1970 Fall	248	9	7			646	
TMS				6	61	429	7
ASM				1	52	217	4

JOURNAL OF METALS ADVERTISING

Advertising in JOURNAL OF METALS totaled 124-1/2 pages out of 912 printed pages, or approximately 13.7% of the total page count. Total income (less agency commission) for Fiscal 1970 was \$44,115.97. Total advertising pages in Fiscal 1969 totaled 86 out of 982 printed pages, or 8.76% of the total page count, for a dollar income of \$38,860.14.

PROCEEDINGS SALES

The sale of TMS published Proceedings has been a highly successful venture in 1970. Revenue collected from these proceedings totaled \$13,818.15. When this figure is combined with sales from other publications such as Electric Furnace, Ironmaking, and Open Hearth Proceedings, and METALLURGICAL TRANSACTIONS, the total revenue collected exceeds \$36,000. Members and non-members have taken advantage of the timely information contained in these low cost volumes, as the following figures indicate:

<u>Proceedings Title</u>	<u>Sold Copies</u>	<u>Revenue Collected</u>
Copper Metallurgy	567	\$ 4,774.80
Design of Metal Producing Processes	125	1,126.25
Electrometallurgy	185	1,698.10
Electric Furnace Steelmaking, Vols. I & II	419	2,372.00
Mechanical Working and Steel Processing Vols. VI, VII, VIII	139	1,285.80

<u>Proceedings Title</u>	<u>Sold Copies</u>	<u>Revenue Collected</u>
Nuclear Metallurgy Series Vols. 1-17	265	\$ 2,545.90
Miscellaneous	2	15.30
	<hr/>	<hr/>
TMS Proceedings Total	1,702	\$13,818.15
	<hr/>	<hr/>
<u>Other Publications</u>		
Electric Furnace Proceedings Vols. 16-28	416	\$ 5,196.50
Ironmaking Proceedings Vols. 21-29	330	4,064.80
Open Hearth Proceedings Vols. 36-53	299	3,737.00
METALLURGICAL TRANSACTIONS Vols. 209-245 and Vol. 1, 1970 (Bound Volumes)	238	8,248.28
Miscellaneous	87	1,170.68
	<hr/>	<hr/>
<u>Combined Totals</u>	3,073	\$36,240.13
	<hr/>	<hr/>

An interesting fact to note is that, out of 3,073 books sold, 1,159 were sold overseas. Based on the above statistics, we can assume that 1971 will be an even better year for TMS publications, and one in which we can continue to provide this excellent service to our members.

PROCEEDINGS VOLUMES - PRODUCTION

The following Conference Proceedings Volumes have been published by TMS:

- Volume 52 - TMS-AIME National Open Hearth and Basic Oxygen Steel Conference Proceedings, Toronto, Ontario, April 1969: 29 papers, 206 pages.
- Volume 53 - TMS-AIME National Open Hearth and Basic Oxygen Steel Conference Proceedings, Detroit, Michigan, April 1970: 26 papers, 224 pages.
- Volume 27 - TMS-AIME Electric Furnace Conference Proceedings, Detroit, Michigan, December 1969: 35 papers, 251 pages.
- Volume 29 - TMS-AIME Ironmaking Conference Proceedings, Detroit, Michigan, April 1970: 34 papers, 468 pages.

Mechanical Working and Steel Processing VIII. Proceedings of the 12th Mechanical Working and Steel Processing Conference, sponsored by the Mechanical Working and Steel Processing Committee of the Iron and Steel Division; Chicago, Illinois, January 22, 1970: 477 pages. Edited by J. H. Timmers, V. O. Ireland, P. E. Bedford-Jones and J. C. McManus.

Copper Metallurgy. Proceedings of a Symposium, sponsored by the Extractive Metallurgy Division (TMS) and the Minerals Beneficiation Division (SME); 99th AIME Annual Meeting, Denver, Colorado, February 15-19, 1970: 371 pages. Edited by R. P. Ehrlich.

The Technology of Pressure-Retaining Steel Components. (Nuclear Metallurgy, Volume 16). Proceedings of the Symposium, sponsored by the Nuclear Metallurgy and Structural Materials Committees, Institute of Metals Division (TMS) and the Metals Engineering Division of the American Society of Mechanical Engineers; Vail Village, Colorado, September 21-23, 1970: 309 pages. Edited by Monroe S. Wechsler.

Plutonium 1970 and Other Actinides. (Nuclear Metallurgy, Volume 17, Parts I and II). Proceedings of the 4th International Conference on Plutonium and Other Actinides, sponsored by the Nuclear Metallurgy Committee of the Institute of Metals Division (TMS) and Los Alamos Scientific Laboratory; Santa Fe, New Mexico, October 5-9, 1970: 1071 pages. Edited by William N. Miner.

The following book, published through the Plenum Publishing Corporation, provides royalties to The Metallurgical Society:

Corrosion by Liquid Metals. Proceedings of Sessions sponsored by the Corrosion Resistant Metals and Nuclear Metallurgy Committees of the Institute of Metals Division; TMS Fall Meeting, Philadelphia, Pennsylvania, October 13-16, 1969: 615 pages. Edited by J. E. Draley and J. R. Weeks.

The final volume published under our contractual agreement with Gordon and Breach Science Publishers, Inc., was made available in December, 1969:

Volume 51 - Electron and Ion Beam Science and Technology. Proceedings of the 2nd International Conference on Electron and Ion Beam Science and Technology, sponsored by the Institute of Metals Division (TMS) and the Electrothermics and Metallurgy Division of the Electrochemical Society, Inc.; New York, New York, April 1966: 628 pages. Edited by R. Bakish.

During Fiscal 1970, TMS published 4,620 pages of technical communications (including 628 pages under the Gordon and Breach agreement) as compared with 8,462 pages (including 4,707 pages under the Gordon and Breach agreement) in Fiscal 1969.

Currently, all volumes are made available within the 9 months following a meeting; in addition, two books were prepared for distribution at their meetings. The same timeliness is anticipated in the coming year.

PROCEEDINGS VOLUMES - ADVERTISING

Advertising income from the Electric Furnace, Open Hearth, and Ironmaking Proceedings was down approximately \$2,350 in Fiscal 1970, largely due to the loss of 13 advertisers in one book. However, it is expected that more frequent communications between TMS staff and committee chairmen will facilitate the solicitation of potential advertisers and result in increased income.

PAPER SELECTION SALES

The third year of this program has proven to be the best thus far. Sales were up, as were the number of manuscripts received for publication. In 1968, a total of 53 different papers were for sale; 54 in 1969; and 79 in 1970. Currently, we have 165 papers available and can expect to have well over 200 papers in 1971. A total of 4,891 papers were sold in 1970, which resulted in revenue of \$17,019.81 -- an amount which greatly exceeds the \$10,000 figure projected at the start of 1970. This program has thus shown itself to be a valuable benefit to members and non-members alike, enabling them to obtain important information presented at the various meetings TMS holds throughout the year promptly and at reasonable prices.

MEMBERSHIP

TMS MEMBERSHIP STATISTICS

<u>Breakdown by Division</u>	<u>December, 1970</u>	<u>December, 1969</u>
Iron and Steel Division	3,413	3,728
Extractive Metallurgy Division	1,607	1,655
Institute of Metals Division	4,085	4,444
Council of Education	27	30
Council of Economics	75	83
Unclassified	<u>1,329</u>	<u>1,536</u>
Sub-Total	<u>10,536</u>	<u>11,476</u>
Student Members	<u>2,098</u>	<u>2,233</u>
TOTAL	<u>12,634</u>	<u>13,709</u>

BREAKDOWN

Member	6,679	6,875
Associates	1,962	1,818
Junior	1,895	2,783
Students	<u>2,098</u>	<u>2,233</u>
TOTAL	<u>12,634</u>	<u>13,709</u>

HONORS AND AWARDS

Newly-elected Fellows of The Metallurgical Society installed at the 1970 TMS-AIME Annual Meeting in Denver, Colorado were:

John E. Dorn
Frank A. Forward
Bruce W. Gonser
Michael Tenenbaum

TMS Board of Directors has elected the following members to the grade of Fellow in 1971:

Mars G. Fontana
Maxwell Gensamer
Julius J. Harwood
Frederick N. Rhines
David Swan

The following awards were presented by The Metallurgical Society during 1970:

1. Robert Lansing Hardy Gold Medal

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

2. Champion H. Mathewson Gold Medal

The Champion H. Mathewson Gold Medal was bestowed upon Rodney P. Smith, "for his careful and precise measurements of both the thermodynamic properties and the diffusion coefficient of carbon in iron and iron-base alloys."

3. Robert W. Hunt Award

The Robert W. Hunt Award was presented in 1970 to Geoffrey R. Belton and Richard Fruehan for the best original paper on iron and steel, "Mass Spectrometric Determination of Activities in Iron-Aluminum Liquid Alloys", originally published in the February, 1969 TRANSACTIONS OF THE METALLURGICAL SOCIETY OF AIME, Volume 245.

4. Extractive Metallurgy Division Award

This award, given for the best paper in the field of extractive metallurgy within a two-year period, was bestowed upon Ravindra M. Nadkarni and Milton E. Wadsworth for their paper, "A Kinetic Study of Copper Precipitation on Iron: Part II", originally published in the July, 1967 TRANSACTIONS OF THE METALLURGICAL SOCIETY OF AIME.

5. J. E. Johnson, Jr. Award

The J. E. Johnson, Jr. Award is given to encourage young men in creative work in the metallurgy or manufacture of pig iron. The recipient of this award must be under forty when he completes the work that merits recognition. The 1970 recipient was Charles M. Sciulli, Jr., "for the insight he has given into the need for close size control of all materials entering the blast furnace".

6. Frank B. McKune Award

This award is given for the best paper on open hearth or basic oxygen steelmaking written by an author or authors under 40 years of age. In 1970, it was presented to Donald E. Dorney, Charles E. Houck, and Timothy W. Miller for their paper, "The Effect of BOF Steelmaking and Pit Practice on CRDQ Rimmed Steel Sheet Quality". This paper was published in the 1970 National Open Hearth and Basic Oxygen Steelmaking Conference Proceedings

7. Open Hearth Conference Award

This award is the "runner-up" to the Frank B. McKune Award and was presented in 1970 to Frederick W. Irwin and Robert J. Milbourne for their paper, "The Internal Cleanliness of Strand Cast Billets". This paper was also published in the 1970 National Open Hearth and Basic Oxygen Steelmaking Conference Proceedings.

8. Charles H. Herty, Jr. Award

For the best paper presented at the 1969 National Open Hearth and Basic Oxygen Steel Conference, and published in the 1969 Conference Proceedings, this award was presented to Darwyn I. Brown and George Harry, Jr., in recognition of their paper, "Atmosphere-Controlled Tundishes: Their Design and Operation".

9. Ironmaking Conference Award

Given for the best paper presented at the 1969 Ironmaking Conference to Richard O. Wenger and Victor A. Neubaum for their paper, "The Effect of Coke Plant Operating Variables on the Quality of Metallurgical Coke".

10. Joseph Becker Award

This award was presented in 1970 to Homer H. Lowry for his distinguished contributions in the fields of coal carbonization and coal technology.

11. Thomas L. Joseph Award

This award recognizes achievement in blast furnace technology and was presented in 1970 to Walter R. Trognitz.

12. Electric Furnace Conference Award

For the best paper presented at the 1969 Conference and published in the Proceedings, this award was presented to Rolph A. Person for his paper, "Control of Emissions from Ferroalloy Furnace Processing".

Lectures

1. 1970 Extractive Metallurgy Division Lecture

Carleton C. Long - "Industrial Research in Extractive Metallurgy"
Published in the April, 1970 METALLURGICAL TRANSACTIONS.

2. 1970 Howe Memorial Lecture (Iron and Steel Division)

James B. Austin - "Henry Marion Howe"
Published in the July, 1970 METALLURGICAL TRANSACTIONS.

3. 1970 Institute of Metals Lecture

Alfred K. Seeger - "Superconductivity and Physical Metallurgy"
Published in the November, 1970 METALLURGICAL TRANSACTIONS.

FINANCE

The Society's total operating revenue (less METALLURGICAL TRANSACTIONS), was \$436,816. in 1970, versus \$410,008. in 1969. This represents a 6.5% increase, or \$26,800. over the previous year. Expenses dropped drastically due to the method of reporting. 1969 figures included the cost of TRANSACTIONS OF AIME (now merged with ASM's TRANSACTIONS). The 1970 report reflects this expense as a separate item, thus, 1969 expenses were \$571,485., and 1970 expenses were \$467,298.

ACKNOWLEDGMENT

The year saw important changes in TMS headquarters staff. Charles F. Stewart, Jr., who served as Assistant Executive Secretary, resigned in October. Those who worked with Charlie on Division and Committee matters have felt his loss greatly. We also lost our advertising staff through resignations; this vacancy has been filled by the editorial staff members since August. A meetings manager was added to our staff in April.

As of November 30, 1970, TMS Headquarters staff consisted of the following people:

Jack V. Richard, Executive Secretary

Dorothy Ridout, Secretary

Kenneth A. Galione, Assistant to the Executive Secretary

Susan Orosz, Secretary

M. Kirt Salen, Jr., Meetings Manager

Ada Ficarra, Secretary

Otto T. Johnson, Journal of Metals Associate Editor

Susan Osberg, Editorial Assistant

Patricia Little, Secretary

Marjorie A. Musil, Proceedings Editor

REPORT

of the

EXECUTIVE SECRETARY OF THE SOCIETY OF PETROLEUM ENGINEERS OF AIME

The first year of the new decade marked the beginning of several important new programs for both the Society's members and local sections, including the introduction of a Traveling Lecture Series and the approval by the Board of Directors to form local section Technical Information Committees. During 1970, the Society also made major advances in its video-tape continuing education program with the recording of a course on "Statistics for Petroleum Engineers" and the completion of plans for taping a lengthy series of courses on "Production Operations".

PUBLICATIONS

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

Some 410 manuscripts were handled by the SPE Publications Department during 1970. The Society's two editorial committees (General Editorial Committee and Transactions Editorial Committee) approved approximately 45 percent of the papers submitted to them during the year for publication in either JOURNAL OF PETROLEUM TECHNOLOGY or SOCIETY OF PETROLEUM ENGINEERS JOURNAL.

Publication figures for JPT and SPEJ for 1970 are listed below.

	No. of Papers	No. of Pages
JOURNAL OF PETROLEUM TECHNOLOGY		
Forum	14	32
Technical and Professional Papers	83	612
Transactions	25	228
Further Discussion	4	15
SOCIETY OF PETROLEUM ENGINEERS JOURNAL		
Forum	5	12
Technical and Professional Papers	15	134
Transactions	27	268

JPT is mailed to all SPE members, and SPEJ is mailed free of charge to all members who request it. Net circulation for JPT in 1970 was 18,700. Circulation for SPEJ was 4,400.

TRANSACTIONS VOLUME

Transactions Volume 249 will be published in May, 1971, and will contain 528 pages. This compares with 614 pages in 1969 and 712 pages in 1968. Price for the Transactions volume will be \$7.50 (\$6.25 if paid with member's dues.)

SPE TRANSACTIONS REPRINT SERIES

Special committees spent most of 1970 working on revisions for three of the booklets in the Society's Transactions Reprint Series. Reprint Series No. 3, "Oil and Gas Property Evaluation and Reserve Estimates", and No. 5, "Well Completions", were completed near the end of the year and the revised editions were in the process of being published at the close of 1970. Work is still continuing on Reprint Series No. 1, "Well Logging", and the revised edition of this booklet is expected to be published in the spring of 1971.

MONOGRAPHS

The Society published the second volume in its Monograph Series in September, 1970. Hydraulic Fracturing by G. C. Howard and C. R. Fast is now available at a cost of \$5.50 to AIME members and \$15.00 to non-members. The third SPE Monograph --- Reservoir Engineering Aspects of Waterflooding by F. F. Craig, Jr., --- is in the production stages and is expected to be published during the summer of 1971.

Other Monographs, which are in various stages of preparation, are:

Multiphase Flow in Pipe by Kermit Brown

Profitability Criteria by Folkert Brons and Michael Silbergh

SPE MEMBERSHIP DIRECTORY

The Society's Membership Directory is published each summer and is mailed free of charge to all SPE members who request it. The 1970-71 edition of the directory contained 224 pages and included alphabetical, geographical and company listings of all SPE members. Production costs for the directory totaled \$9,800 and advertising income was \$6,900.

PETROLEUM ENGINEERING SCHOOLS BOOKLET

The annual edition of the Society's "Petroleum Engineering Schools in the U. S." booklet was published late in 1970. The 1970-71 edition of the booklet contained enrollment information and degree data on 24 colleges and universities that offer degrees or options in petroleum engineering.

PREPRINTS

The Society each year provides its members with preprints of papers presented at both the SPE Fall Meeting and the various regional meetings held throughout the year. During 1970, a total of 180 preprints containing more than 1,800 pages were published for the Society's regional meetings. The 45th Annual Fall Meeting preprint package contained 166 papers and totaled more than 2,040 pages.

Early in 1970 the Society began transferring its preprint files onto microfilm to save storage space and to insure the availability of older preprints. SPE preprints through 1966 have now been microfilmed and preparations are being made to photograph the remaining files.

MEMBERSHIP

Total membership for the Society at the end of 1970 reached 17,682, representing an increase of 166 members over the final 1969 total. Corporate membership for 1970 was 16,781, with 901 student members.

	1967	1968	1969	1970
SPE Membership	16,217	17,026	17,516	17,682
New Member/ Reinstatement Applications Received *	1,229	1,316	1,199	1,188
Members Lost (resignations, deaths, dropped owing dues)	999	1,065	1,042	1,240

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

MEETINGS

FALL MEETING, REGIONAL MEETINGS

The 45th Annual Fall Meeting in Houston, Texas, was the second largest in the Society's history, with registration reaching 4,501 persons. The technical program included 151 papers and the technical, educational exhibits display contained 177 booths.

The Society also conducted 12 regional meetings throughout the U. S. during 1970. A summary of the attendance and the number of papers presented at these meetings is given below.

<u>City</u>	<u>Attendance</u>	<u>Number of Papers on Program</u>
Dallas, Texas	265	16
Fort Worth, Texas	351	12
Monahans, Texas	345	8
Corpus Christi, Texas	200	6
Wichita Falls, Texas	294	19
Omaha, Nebraska	110	17
Casper, Wyoming	282	17
Hobbs, New Mexico	148	15
Santa Barbara, California	809	24
Pittsburgh, Pennsylvania	176	15
Lafayette, Louisiana	355	17
Amarillo, Texas	408	17

DISTINGUISHED LECTURER PROGRAM

The seven SPE Distinguished Lecturers for 1969-70 appeared before 52 of the Society's domestic sections and presented more than 120 talks. In addition, lecturers visited three colleges and universities, and two lecturers appeared before 11 foreign sections or affiliated groups in Europe and South America.

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

The 1969-70 SPE Distinguished Lecturers were:

Kermit E. Brown, The U. of Tulsa	Keith H. Coats, The U. of Texas
W. C. Goins, Gulf Research & Development Co.	Necmettin Mungan, Petroleum
Gene Roark, Husky Oil Ltd.	Recovery Research Institute
Robert Shapiro, The U. of Oklahoma	Robert L. Whiting, Texas A&M U.

CONTINUING EDUCATION PROGRAM

TRAVELING LECTURE SERIES

The major development in the Society's Continuing Education Program during 1970 was the introduction of a Traveling Lecture Series. Designed to furnish SPE local sections with expert lecturers for live, continuing education short courses, the Lecture Series initially offers 18 courses in six areas of petroleum production technology. Instructors in the Lecture Series are made available to the sections through the Society, but all arrangements for courses are made between individual lecturers and local sections. Lecturers are offered to the sections at a per-hour-instruction fee plus a small administration fee to the Society. The initial slate of Traveling Lecturers includes 16 men:

John J. Arps, Consultant
 T. C. Boberg, Esso Production Research Company
 Daniel E. Boone, The Analysts, Inc.
 Folkert Brons, The University of Texas
 Coral L. DePriester, Chevron Research Company
 Murray F. Hawkins, Jr., Louisiana State University
 Donald P. Helander, The University of Tulsa
 Roland F. Krueger, Union Oil Company of California
 W. J. Lee, Mississippi State University
 A. S. Odeh, Mobil Research and Development Corporation
 Michael Prats, Shell Development Company
 Charles L. Rabe, Shell Development Company
 Paul J. Root, The University of Oklahoma
 T. Don Stacy, Pan American Petroleum Corporation
 Gordon Thomas, The University of Tulsa
 G. W. Tracy, Pan American Petroleum Corporation

VIDEO TAPE COURSES

"Statistics for Petroleum Engineers" by Folkert Brons --- the third in a series of video-taped continuing education courses produced by the Society --- was completed during 1970. Two sections --- Los Angeles Basin and Dallas --- conducted several classes of the "Statistics" course during the fall of 1970, and by December 104 members had completed the 13-hour course. SPE local sections also are continuing to use the two courses in reservoir engineering recorded by Ben Caudle of The University of Texas. To date, more than 1,000 members in the United States and two foreign countries have completed one of the Caudle courses.

Plans were finalized during 1970 for the production of a series of courses in "Production Operations". Approximately 10 seminar-type courses of 10 to 15 hours in length will be developed and recorded for use by SPE local sections. Instructors for the first Production Operations course, to be entitled "Well Completions", were chosen in late 1970, and taping of the course is expected to be completed by May, 1971. The instructors for the first course are:

W. T. Bell, Schlumberger Well Services
 L. E. Buzarde, Jr., Gulf Oil Corporation
 Coral L. DePriester, Chevron Research Company
 R. L. Kastor, Shell Development Company

AUDIO VISUAL AIDS CATALOGUE

A "Catalogue of Audio Visual Aids in Petroleum Engineering" was completed by the Continuing Education Committee late in 1970. The catalogue lists 136 films and slide presentations that are available to groups from 16 major oil companies and service companies. The catalogue will be distributed free of charge to all SPE local sections plus colleges and universities offering petroleum engineering degrees or options.

AWARDS

H. G. Doll, retired chairman of the board of Schlumberger Well Surveying Corp. and Schlumberger Ltd., was awarded the AIME Anthony F. Lucas Gold Medal for 1970; Michael L. Haider, retired chairman of the board of Standard Oil Co. of New Jersey, was the recipient of the 1970 AIME Charles F. Rand Gold Medal; Donald L. Katz, professor of chemical engineering at The University of Michigan, received the AIME Council of Education Award for 1970; and SPE member Lloyd E. Elkins, production research director for Pan American Petroleum Corp., was elected to Honorary Membership in the Institute.

The Society presented the following awards during 1970:

DeGolyer Distinguished Service Medal	John J. Arps, Consultant
Lester C. Uren Award	A. F. van Everdingen, DeGolyer and MacNaughton
John Franklin Carll Award	Daniel N. Dietz, Royal Dutch Shell
Cedric K. Ferguson Medal	Charles A. Jordan and Thomas A. Edmondson, Standard Oil Co. of California
	M. J. Jeffries-Harris, Consultant
Certificate of Service	Ben H. Caudle, The University of Texas
	Jack M. Moore, City of Midland
	Hal M. Stanier, Sun Oil Company

For the fourth consecutive year, the Society joined with the Petroleum Equipment

Suppliers Association in awarding scholarships to outstanding undergraduate students who are studying toward degrees in petroleum engineering. Scholarship recipients in 1970 were: Stefan P. Choquette, Colorado School of Mines; G. Bruce Williams, Jr., Montana College of Mineral Science and Technology; and Glenn A. Picquet, Texas A&I.

LOCAL SECTIONS

TECHNICAL INFORMATION COMMITTEES

The Society's Board of Directors approved a plan in 1970 that will permit SPE local sections to become involved in public affairs by offering assistance on technical issues related to the petroleum and natural gas industries. The plan allows sections to form Technical Information Committees that will offer technical assistance to local civic groups, governmental agencies and to the news media on matters related to the exploration and production of petroleum and natural gas. The plan also calls for the formation of regional Technical Information Committees, with the SPE Executive Committee serving as the national coordinating body.

SECTION VISITATION

SPE President Robert H. McLemore not only visited a large number of the Society's domestic sections during 1970 including Alaska, but also spent two weeks meeting with SPE sections in South America.

Officers from 40 of the Society's domestic sections attended Regional Officers Conferences in 1970 where SPE staff members and officers and directors meet with local section officers to discuss Society operations. In addition, SPE staff members and directors attended numerous local section and regional meetings during the year. SPE sections in Europe and South America were visited by two of the Society's Distinguished Lecturers.

FINANCE

The Society's consolidated income for 1970 totaled \$1,124,537, an increase of some 19.78% over the total for 1969. Income exceeded expenses by \$156,741. Total assets for the SPE Activities Fund at the end of 1970 were \$642,555.

HEADQUARTERS STAFF

The Society's Headquarters staff consisted of the following persons as of December 31, 1970:

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

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

Douglas L. Ducate, Activities Manager
Stephen R. Davis, Advertising Manager
John W. Martin, Exhibits Supervisor
Mrs. Karen Lee, Activities Secretary
Miss Anita Lee, Membership Secretary
Mrs. Cheryl Peyton, Advertising and Exhibits Secretary

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

Richard C. Vilven, Business Msnager
Mrs. Cathy Jones, Secretary-Bookkeeper
Mrs. Sally Clark, Receptionist
M. C. Sirles, Mail Clerk and Printer

Respectfully submitted,

David L. Riley

David L. Riley
Executive Secretary

REPORT

of the

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

The WAAIME organization is comprised of forty-four sections. During the year 1970 there was a loss of two and a gain of two sections. Washington-Seattle and Missouri-Southeast were forced to disband, and two new charters were sent to Alaska-Southwest and Carolinas-Aurora. We have also received another request for a kit to form a new section in Tennessee.

As of December 30, 1970, we had a total of 3,196 members. This figure shows a gain of sixty-six members through the year, with the figures covering the month-to-month check on resignations, drop-outs and deceased members.

Most of the sections hold monthly meetings and most report average attendance. A very few sections limit their meetings to every other month due to travel difficulties in getting together. The meetings are usually combined with coffees and teas in the members' homes, or lunches in restaurants. At least half the sections report enjoying a joint meeting with the AIME sections along with picnics, boat rides, dinner-dances, etc.

There have been 52 scholarships awarded during 1970, the loans in the amount of \$67,813. Repayment programs for the most part are satisfactory, and communication with the students is very good.

Programs at the section meetings are always varied and interesting. The fund-raising events are novel and successful; almost every section increased their Scholarship Loan Fund donation this year. They almost all have library projects that involve technical books to students, schools or libraries, and a large number donate an annual prize to science fairs in their regions.

The New York Section has three girls on their Girls Activity Loan Scholarship program. (It should be noted that applicants to this program through other sections are always welcomed.) The Arizona Section and Silverbell expressed high regard for Engineers for Tomorrow Chairman, whose efforts provided summer employment for twenty-five of the forty participating Engineers for Tomorrow students by eight mining companies. A large number of students were enrolled for technical work at various universities; and film strips and mineral displays were made available to thirteen junior high schools. The Utah-Northern Section has been a sponsor for the Jets Club and assisted in starting a new Jets Club in Delta, Utah; journal subscriptions have been a contribution, also members have provided transportation for field trips. These are just a few examples of the outstanding work being done with the youth of today by the WAAIME sections.

The organization is a healthy and thriving one, with dedication quite obvious. There is a continuous membership drive, and several sections have been responsible for an increase in AIME membership due to the wish of wives to join WAAIME. Onward and upward will be the continued theme for 1971.

Respectfully submitted,

Mrs. Chester O. Ensign, Jr.
First Vice-President