

ANNUAL REPORTS
REPORT OF THE BOARD OF GOVERNMENT
FOR YEAR 1961-1962

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

Pursuant to the requirements of the By-Laws the Board of Government presents its report for the year ending March 22, 1962.

The following is a statement of the status of membership in the Society:

Honorary	7
Members	992
Associates	6
Juniors	49
Students	1
Total	1055
Student Chapters	2

Summary of Additions

New Members	25
New Juniors	7

Reinstatements

Members	7
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Summary of Transfers

Junior to Member	14
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Summary of Loss of Members

Deaths	13
Resignations	8
Dropped for non-payment of dues	22
Dropped for failure to transfer	10

Life Members	99
Members becoming eligible today for Life Membership	9
Applications pending on March 22, 1962	11

Honorary Membership is as follows:

Frank M. Gunby, elected, February 15, 1950
 Karl R. Kennison, elected, February 7, 1951

Frank A. Marston, elected, February 15, 1960
 Charles M. Spofford, elected, December 19, 1945
 Howard M. Turner, elected, February 18, 1952
 William F. Uhl, elected, February 7, 1955
 Karl Terzaghi, elected, March 3, 1952

The following members have been lost through death:

Wilbur S. Colby, Sept. 17, 1961
 Alfred Colletti, June 20, 1960
 Athole B. Edwards, Nov. 29, 1961
 Hugh P. Duffill, Sept. 22, 1961
 Albert E. Lochridge, Oct. 3, 1961
 John C. Moses, Oct. 26, 1961
 Charles E. Newcomb, May 1, 1961
 Arthur J. Ober, Jan. 21, 1962
 Grant H. Potter, Apr. 15, 1961
 Walter J. Reed, Apr. 21, 1961
 Frederick T. Weed, Jan. 23, 1962
 Harold C. Whitmore, Dec. 29, 1961
 John P. Wentworth, Jan. 20, 1962

Meetings of the Society

March 16, 1961. Address of the retiring President, Arthur T. Ippen. "Water Resources Development. A Vital Responsibility of the Civil Engineer."

April 12, 1961. Joint Meeting with Structural and Construction Sections. "Design and Construction of Bremerton Base Drydock, Carrier Repair Site—Puget Sound Naval Shipyard." William H. Mueser of firm Moran, Proctor, Mueser and Rutledge, and Capt. Perry Boothe, C.E.C., U.S. Navy.

May 17, 1961. Joint Meeting with Surveying & Mapping Section. "The Survey for the Cambridge Electron Accelerator." Dr. David D. Jacobus, Senior Mechanical Engineer, Harvard University.

September 27, 1961. "Investigations and Studies for the Richmond Water Tunnel under New York Harbor." Stanley M. Dore, Chief Engineer, Board of Water Supply, City of New York.

October 25, 1961. Joint Meeting with Mass. Section, ASCE. Student Night. "The Opportunity for Junior Professional Personnel in the Peace Corps." Thomas H. E. Quimby, Director of Recruitment Peace Corps, Washington, D.C.

November 15, 1961. "Trends in Engineering Education." Prof. Earle F. Littleton, Head of Department of Civil Engineering, Tufts University.

December 13, 1961. Joint Meeting with the Structural Section. "The Fox Point Flood Hurricane Carrier, Providence, R. I." John W. Leslie, Chief Engrg. Div. N.E. Corps of Engrs.; Herbert Whittemore and Eugene Groden, N.E. Corps of Engineers.

January 24, 1962. "Progress of Redevelopment Program." Richard R. Green, Project Director of Parker Hill Fenway Project.

February 21, 1962. "New England Floods and the Society's Flood Reports."
Howard M. Turner, Consulting Engineer.

Attendance at Meetings

<i>Date</i>	<i>Place</i>	<i>Meeting</i>	<i>Dinner</i>
March 16, 1961	M.I.T. Faculty Club	35	160
April 12, 1961	United Community Services Building	65	50
May 17, 1961	United Community Services Building	18	
September 27, 1961	United Community Services Building	55	70
October 25, 1961	Mass. Inst. Technology	110	110
November 15, 1961	United Community Services Building	24	
December 13, 1961	United Community Services Building	90	65
January 24, 1962	Society Rooms	30	
February 21, 1962	United Community Services Building	66	42

Average Attendance 70

Sections

Twenty-one meetings were held by the Sections of the Society during the year. These meetings of the Sections offering opportunity for more detailed discussions continue to demonstrate their value to their members and to the Society. A wide variety of subjects were presented. The Annual Report of the various Sections will be presented at the Annual Meeting and published in the April 1962 issue of the Journal.

*Funds of the Society**

Permanent Fund. The Permanent Fund of the Society has a present value of \$66,973.66. The Board of Government authorized the use of as much as necessary of the current income of this fund in payment of current expenses. By vote of the Society (as prescribed by the By-Laws) at the January 24, 1962 and February 21, 1962 meetings, the Board of Government was authorized to transfer an amount not to exceed \$2500 from the Principal of the Permanent Fund for current expenditures. No transfer from the Principal of the Permanent Fund was necessary for current expenditures this year.

John R. Freeman Fund. In 1955 the late John R. Freeman, a Past President and Honorary Member of the Society, made a gift to the Society of securities which was established as the John R. Freeman Fund. The income from this fund is to be particularly devoted to the encouragement of young engineers. Mr. Freeman suggested several uses, such as the payment of expenses for experiments and compilations to be reported before the Society; for underwriting meritorious books or publications pertaining to hydraulic science or art; or a portion to be devoted to a yearly prize for the most useful paper relating to hydraulics contributed to this Society; or establishing a traveling scholarship every third year

* Details regarding the value and income of these funds are given in the Treasurer's report.

open to members of the Society for visiting engineering works, a report of which would be presented to the Society. The expenditure from this fund during the year, approved by the Committee, was payment of preparation and publication of the Flood Committee Report amounting to \$2217.92.

Edmund K. Turner Fund. In 1916 the Society received 1,105 books from the library of the late Edmund K. Turner, a former member of the Society, and a bequest of \$1,000, "the income of which is to be used for library purposes." The Board voted to use \$80 of the income for the purchase of books for the library. The expenditure from this fund during the year was \$76.70.

Alexis H. French Fund. The Alexis H. French Fund, a bequest amounting to \$1,000 was received in 1931, from the late Alexis H. French of Brookline, a former Past President of the Society. The income of the fund is "to be devoted to the Library of the Society." The Board voted to use \$80 of the available income for the purchase of books for the Library. The expenditure from this fund during the year was \$76.70.

Tinkham Memorial Fund. The "Samuel E. Tinkham Fund," established in 1921 at Massachusetts Institute of Technology by the Society, "to assist some worthy student of high standing to continue his studies in Civil Engineering, had a value of \$2,338.16 on June 30, 1961. John R. Brach, a student in Civil Engineering, class of 1963 was awarded this Scholarship of \$200 for year 1961-62.

Desmond FitzGerald Fund. The Desmond FitzGerald Fund established in 1910 as a bequest from the late Desmond FitzGerald, a Past President and Honorary Member of the Society, provided that the income from this fund shall "be used for charitable and educational purposes." The Board vote on April 11, 1960 to appropriate from the income of this fund the sum of \$100 to be known as the Boston Society of Civil Engineers' Scholarship in Memory of Desmond FitzGerald, and be given to a Civil Engineering student at Northeastern University. It was VOTED February 13, 1961 "to adopt the recommendation of the Committee at Northeastern University, namely, a \$100 Scholarship be given to Joseph H. Metelski. Presentation was made at the Annual Meeting of the Society March 16, 1961.

Clemens Herschel Fund. This fund was established in 1931, by a bequest of \$1,000 from the late Clemens Herschel, a former Past President and Honorary Member of the Society. The income from this fund is "to be used for presentation of prizes for papers which have been particularly useful and commendable and worthy of grateful acknowledgment." The Board of Government voted on April 11, 1961 that payment of Prize Awards be appropriated from the income of this fund. The expenditure made during the year from the income of this fund was \$66.14.

Edward W. Howe Fund. This fund, a bequest of \$1,000 was received in 1933 from the late Edward W. Howe, a former Past President of the Society. No restrictions were placed upon the use of this money, but the recommendation of the Board of Government was that the fund be kept intact, and that the income be used "for the benefit of the Society or its members." The Board voted April 11, 1961 that no appropriation be made from this fund.

William P. Morse Fund. This fund, a bequest of \$2,000 was received in 1949 from the late William P. Morse, a former member of the Society. No restrictions were placed upon the use of this money, but the recommendations of the Board of Government was "that this fund be kept intact and that the income be used for the benefit of the Society or its members." Upon recommendation of a committee appointed by the President, the Board voted on April 4, 1954 "to appropriate from the income of this fund the sum of \$100 to be known as the Boston Society of Civil Engineers' Scholarship in Memory of William P. Morse, and be given to a Civil Engineering student at Tufts University." It was VOTED February 13, 1961 a \$100 Scholarship be given to John C. LeFevre. Presentation was made at the Annual Meeting of the Society March 16, 1961.

Prizes

<i>Award</i>	<i>Recipient</i>	<i>Paper</i>
Desmond Fitz-Gerald Medal	Gordon M. Fair	"Publish or Perish—The Survival of Civil Engineering as a Learned Profession."
Clemens Herschel Awards	Hon. John F. Collins	"Rebuilding an Old City."
	R. Steven Kleinschmidt	"Hydraulic Design of Detention Tank."
Sanitary Section Award	Ariel A. Thomas	"Starting New Sewage Treatment Plants."
Structural Section Award	William H. Mueser	"The Carrier Repair Site—Puget Sound Naval Shipyard."
Hydraulics Section Award	Howard M. Turner	"Report of BSCE Committee on Floods."

Library

The report of the Library Committee contains a complete account of the Library Committee activities during the past year.

Committees

The usual special committees dealing with the activities and conduct of the Society were appointed. The membership of these committees is published in the Journal and the reports of the Committees will be presented at the Annual Meeting.

Your Board in conclusion, wishes to express its appreciation of the excellent work done by the Officers of the Sections and by the Committees of the Society.

JAMES F. BRITAIN, *President*

REPORT OF THE TREASURER

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

This report is for the year beginning March 1, 1961 and terminating at the close of business on March 1, 1962.

As in recent years our investment securities are held by the Boston Safe Deposit and Trust Company which serves as custodian and as investment counsel. Any transactions of securities which have been made during the year were accomplished after a vote of approval by the Board of Government of the Society acting upon the recommendations made by the Boston Safe Deposit and Trust Company. At the close of the fiscal year the Boston Safe Deposit and Trust Company furnishes the Treasurer of the Boston Society of Civil Engineers with a certified copy of an audit of the account made by the auditors of the bank.

The financial standing of the Society as of March 1, 1962, are summarized in seven of the tables accompanying this report. These seven tables are as follows:

Table I	Comparison of Book Values and Market Values of Stocks, Bonds, Co-op Bank, and Investment Cash.
Table II	Comparison of Book and Market Value of Funds.
Table III	Distribution of Funds—Receipts and Expenditures.
Table IV	Distribution of Funds—Receipts and Expenditures.
Table V	Record of Investments—Bonds.
Table VI	Record of Investments—Stocks.
Table VII	Record of Investments—Savings Bank (Formerly Co-operative Bank Account).

Three tables have been prepared to compare the Book Value, the Market Value, and the earnings from our holdings during the past six years. These tables are as follows:

Table VIII	Comparison of Book Values During Last Six Years.
Table IX	Comparison of Market Values During Last Six Years.
Table X	Comparison of Earnings from Invested Fund During Last Six Years.

(NOTE: In Table II the funds listed Boring Data, Vol. I, and Sanitary Lectures are actually in the form of cash or publications available for sale and were considered to have the same Book Value and Market Value.)

During the fiscal year the following changes in securities were accomplished by the Boston Safe Deposit and Trust Company:

American Telephone and Telegraph Co.
Sold 207 Rights
Pacific Gas and Electric Co.
Sold 105 Rights

Received 210 shares in stock split
Total Increase 210 shares

Texaco, Inc.

Received 222 shares in stock split
Total Increase 222 shares

Southern California Edison Co.

Received 80 shares of preferred in stock split
Received 118 shares of common in stock split

Scott Paper Co.

Delivered \$1000 Convertible Debenture Bond for conversion
Received 38 shares of common in conversion
Received 150 shares of common in stock split
Total increase 188 shares

Early in the fiscal year the series of lectures sponsored by the Sanitary Section were prepared for publication. The Board of Government authorized the publication of the lectures on the basis of approval given by the Society at the April and May meetings in 1959. Cash from the Permanent Fund was employed to accomplish the desired purpose and a new fund established as indicated in Table IV. This fund is designated by a negative sum which approaches zero as the publications are sold. As has been the custom the price of these publications has been held to a minimum so that the sale price does not exceed printing and distribution costs.

The report of "Boring Data from Greater Boston" was made ready for publication during the year. In November 1958, by vote of the Board of Government, a fund of \$1000 was established to meet the publication costs of this report. When the report was ready it was published with this fund.

The Flood Committee has worked arduously since September 1955 compiling and analyzing data on the great floods of August 1955 and October 1955. Their work was completed this year. The income to the Freeman Fund was used to publish the report in the second section of the October 1961 issue of the Journal of the Boston Society of Civil Engineers. This report is an outstanding contribution to the Profession of Civil Engineering in that it provides a better basis for the design of Engineering Projects dealing with precipitation and runoff.

The income to the Permanent Fund from dividends and interest less the expenses charged to the Permanent Fund amounted to \$3,900.75. From this income it was necessary to transfer \$3,536.55 to meet current expenses. The difference in these two amounts plus the \$355.00 received in Entrance Fees increased the Book Value of the Permanent Fund by \$719.20.

In May of 1961, the Secretary received a check of \$1000 from the estate of the late Mary H. Walker given in memory of her husband, Past President Frank B. Walker. It was voted by the Board of Government at the May meeting to use the \$1000 to establish a fund to be known as the Frank B. Walker Fund. No restriction was placed on the use of the money, but that the income would be utilized for the benefit of the Society and its members.

Of the cash funds on hand as indicated by the following tables, \$316.93 is held in escrow for Federal Withholding Tax, Massachusetts Income Tax, and Social Security payments.

PAUL A. DUNKERLEY, *Treasurer*

TABLE I
COMPARISON OF BOOK VALUES AND MARKET VALUES OF STOCKS, BONDS,
CO-OP BANK, AND INVESTMENT CASH

	Book Value Mar. 1, 1962	Market Value Mar. 1, 1962
Bonds	50,818.46	45,747.51
Stocks	55,960.99	177,346.88
Co-op Bank	4,616.55	4,616.55
Available for Investment	1,998.10	1,998.10
Total 1962	113,394.10	229,709.04
Total 1961	114,670.25	205,230.31
Increase or Decrease	-1,276.15	24,478.73

TABLE II
COMPARISON OF BOOK AND MARKET VALUES OF FUNDS

	Book Values	Market Value
Permanent	66,973.66	134,965.12
John F. Freeman	35,306.64	71,149.83
Edmund K. Turner	1,328.64	2,677.47
Desmond FitzGerald	2,462.76	4,962.95
Alexis H. French	1,317.46	2,654.94
Clemens Herschel	1,167.21	2,352.16
Edward W. Howe	1,266.42	2,552.09
William P. Morse	2,517.80	5,073.86
Surveying Lectures	543.71	1,095.68
Structural Lectures	392.65	791.27
Boring Data*	90.50	90.50
Vol. I*	1,224.69	1,224.69
Transportation Lectures	249.27	502.33
Frank B. Walker	1,047.54	2,111.00
Sanitary Lectures*	-2,494.85	-2,494.85
Sub total	113,394.10	229,709.04
Current Fund	1,500.00	1,500.00
Total	114,894.10	231,209.04

* These funds are not interest earning invested funds, but are cash assets or publications representing a cash outlay.

TABLE III
 DISTRIBUTION OF FUNDS—RECEIPTS AND EXPENDITURES
 BOSTON SOCIETY OF CIVIL ENGINEERS
 REPORT OF TREASURER MAR. 1, 1962

	Distribution of Funds			Net Profit or Loss at Sale or Maturity		Receipts and Transfers
	Book Value Mar. 1, 1961 1	Interest and Cash 2	Dividends Credit 3	+	— 5	Purchases + 6
Bonds	51,942.25	1,907.50				
Co-op Bank	4,442.74		173.81			
Stocks	55,193.47	5,259.55				1,083.
Available for Investment	3,091.79					
	<u>114,670.25</u>	<u>7,167.05</u>	<u>173.81</u>			<u>1,083.</u>

Columns 1 + 3 + 6 — 7 = 8

TABLE IV
 DISTRIBUTION OF FUNDS—RECEIPTS AND EXPENDITURES
 BOSTON SOCIETY OF CIVIL ENGINEERS
 REPORT OF TREASURER—MARCH 1, 1962

Funds	Book Value March 1, 1961	Allocation of Income-Profit and Loss		Receipts
		Income Col. 2 & 3	Net Profit Ccl. 4 & 5	
Permanent	\$ 66,254.40	\$ 4,297.52		355
John R. Freeman	35,454.25	2,288.11		
Edmund K. Turner	1,327.32	85.95		
Desmond FitzGerald	2,478.74	154.29		
Alexis H. French	1,331.91	86.21		
Clemens Herschel	1,167.17	72.96		
Edward W. Howe	1,196.10	77.47		
William P. Morse	2,476.96	155.34		
Surveying Lectures	513.53	33.26		
Structural Lectures	370.85	24.02		
Boring Data	1,000.00	0.00		555
Vol. I	863.57	0.00		451
Transportation Lectures	235.45	15.23		
Frank B. Walker	0.00	50.50		1,000
Sanitary Lectures	0.00	0.00		634
Sub total	\$114,670.25	\$ 7,340.86		\$ 2,996
Current	1,500.00	3,536.55**		17,247
Totals	\$116,170.25	\$10,877.41		\$20,243
Secretary's change fund of \$30.00 should be added to show total				
Cash Balance			* \$3,536.55	Transferred
Investment Fund	\$1,998.10		** 3,536.55	Transferred
Current Fund	1,500.00		0.00	Transferred
Total Cash	\$3,498.10			

TABLE V
RECORD OF INVESTMENTS—BONDS
MARCH 1, 1961 TO MARCH 1, 1962

Bonds	Date of Maturity	Interest Rate	Interest Received	\$
Aluminum Company of America	Apr. 1, 1983	3⅞%	\$ 193.75	\$
Associates Investment Co. Deb.	Aug. 1, 1979	5⅛%	307.50	
Columbia Gas System Inc., Deb., Series D	July 1, 1979	3½%	70.00	
Consumers Power Co. 1st Mortgage	Sept. 1, 1975	2⅞%	86.25	
Florida Power Co. 1st Mortgage	July 1, 1984	3⅞%	31.25	
Florida Power Co. 1st Mortgage	July 1, 1986	3⅞%	193.75	
General Motors Acceptance Corp.	Sept. 1, 1975	3⅝%	181.25	
Georgia Power Co. 1st Mortgage	Dec. 1, 1977	3⅜%	168.75	
Province of Ontario	Sept. 1, 1972	3¼%	97.50	
Public Service Electric and Gas Co.	June 1, 1979	2⅞%	115.00	
Scott Paper Co. Conv. Deb. ¹	Mar. 1, 1971	3.0%	15.00	
So. Pacific 1st Series A Oregon Lines	Mar. 1, 1977	4½%	180.00	
Superior Oil Co., Deb.	July 1, 1981	3¾%	150.00	
Tidewater Oil Co., Deb.	Apr. 1, 1986	3½%	70.00	
U.S.A. Treasury Notes, Series A	May 15, 1964	4¾%	47.50	
Totals			\$1,907.50	\$

¹ Converted to 38 shares of Common Stock plus \$40.61 in lieu of a fractional share on D

TABLE VI
 RECORD OF INVESTMENTS—STOCKS
 MARCH 1, 1961 TO MARCH 1, 1962

Stocks	Classification	Number of Shares	Dividends Received
American Telephone and Telegraph Co.	Common	207	\$ 729.6
Consolidated Edison of New York, Inc.	Common	50	150.0
Continental Insurance Co.	Common	150	330.0
General Electric Co.	Common	150	300.0
Hartford Fire Insurance	Common	104	114.4
General Motors Corp.	Common	126	315.0
Jewel Tea Co.	Common	62	96.1
National Dairy Products Corp.	Common	100	200.0
New England Electric System	Common	198	215.8
Pacific Gas and Electric Co.	Common	315	294.0
Scott Paper Co.	Common	263	168.7
Southern California Edison Co.	Common	177	153.4
Standard Oil of New Jersey	Common	324	745.2
Texaco, Inc.	Common	444	688.2
Union Carbide Corp.	Common	100	360.0
Pacific Gas and Electric Co.	Preferred	100	150.0
Radio Corporation of America	Preferred	20	70.0
Southern California Edison Co., Ltd.	Preferred	120	104.0
Southern Railway Co.	Preferred	75	75.0
Totals			\$5,259.5

TABLE VII
 RECORD OF INVESTMENTS—SAVINGS BANK

Savings Bank	Classification	Interest Received	Bal- ance
First Federal Savings and Loan Association of Boston, Acct. No. 1S-631	Savings Account	\$173.81	\$

TABLE VIII
COMPARISON OF BOOK VALUES DURING LAST SIX YEARS

Year	1957	1958	1959	1960
Bonds	\$ 51,907.25	\$ 51,907.25	\$ 52,944.75	\$ 51,942.25
Stocks	51,465.51	51,432.25	52,026.74	52,108.32
Savings Bank Available for Investment	4,845.16	5,003.89	4,155.11	4,291.23
	4,388.24	1,212.35	1,208.18	725.74
Totals	\$112,606.16	\$109,555.74	\$110,334.78	\$109,067.54

TABLE IX
COMPARISON OF MARKET VALUES DURING LAST SIX YEARS

Year	1957	1958	1959	1960
Bonds	\$ 48,531.24	\$ 48,956.90	\$ 47,671.60	\$ 44,690.63
Stocks	109,725.00	106,907.46	135,493.75	133,957.52
Savings Bank Available for Investment	4,845.16	5,003.89	4,155.11	4,291.23
	4,388.24	1,212.35	1,208.18	725.74
Totals	\$167,489.64	\$162,080.60	\$188,528.64	\$183,665.14

TABLE X
COMPARISON OF EARNINGS FROM INVESTED FUND DURING LAST SIX YEARS

Year	1957	1958	1959	1960
Bonds	\$1,379.03	\$1,691.95	\$1,738.85	\$2,133.52
Savings Bank	162.92	158.73	151.22	136.12
Stocks	4,413.45	4,647.80	4,708.05	5,000.46
Totals	\$5,955.40	\$6,498.48	\$6,598.12	\$7,270.10

REPORT OF THE SECRETARY

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

The following is a statement of cash received by the Secretary and of the expenditures approved by the President in accordance with the Budget adopted by the Board of Government.

FOR THE YEAR ENDING MARCH 22, 1962

	Expenditures	Receipts
<i>Office</i>		
Secretary, salary & expense	\$ 749.76	
Treasurer's Honorarium	399.88	
Stationery printing & postage	769.41	
Incidentals & Petty Cash	106.16	
Insurance & Treasurer's Bond	23.56	
Quarters, Rent, Tel.	3,957.99	
Office Secretary	5,083.44	
Social Security	201.02	
<i>Meetings</i>		
Rent of Halls, etc.	280.00	
Stationery, printing & postage	60.00	
Hospitality Committee	1,156.95	\$ 1,048.17
Reporting & Projection	34.00	
Annual Meeting, March 1961	638.80	567.50
<i>Sections</i>		
Sanitary Section	18.60	
Structural Section	36.00	
Transportation Section	8.00	
Hydraulics Section	8.83	
Construction Section	20.80	
Surveying & Mapping Section	46.48	
<i>Journal</i>		
Editor's salary & expense	749.76	
Printing & Postage	4,890.62	
Advertisement	—	1,997.00
Sale of Journals & Reprints	—	2,078.38
Copyright	16.00	
<i>Library</i>		
Periodicals	85.50	
Binding	112.50	
Forward	<u>\$19,454.06</u>	<u>\$ 5,691.05</u>

REPORT OF THE SECRETARY (Continued)

	Expenditures	Receipts
Brought Forward	\$19,454.06	\$ 5,691.05
<i>Miscellaneous</i>		
Binding Journals for Members	9.00	4.50
Badges	—	9.00
Bank Charges	2.32	—
Miscellaneous	224.05	9.50
Engineering Societies Dues and charge for Journal space	1,064.73	
Public Relations Committee	29.94	
Membership Committee	—	
Dues from B.S.C.E. Members		11,533.50
Trans. Income Perm Fund		3,536.55
	<u>\$20,784.10</u>	<u>\$20,784.10</u>

Entrance Fees to Permanent Fund \$355.00

25 New Members; 7 New Junior Members; 14 Juniors transferred to Member.

The above receipts have been paid to the Treasurer who's receipt the Secretary holds. The Secretary holds cash amounting to \$30 included as payment under item 25 (Petty Cash) to be used as a fixed fund or cash on hand. \$232.13 withholding tax and \$84.80 Social Security which is payable to Collector of Internal Revenue and State of Massachusetts in April, 1962 is not included in the above tabulation.

CHARLES O. BAIRD, JR., *Secretary*

REPORT OF THE AUDITING COMMITTEE

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

We have reviewed the records and accounts of the Secretary and Treasurer of the Boston Society of Civil Engineers and we have compared the bank statement of securities held by the Boston Safe Deposit and Trust Company with the enumeration submitted by the Treasurer.

We have found them to be in order and to account accurately for the Society's Funds.

WILLIAM A. HENDERSON
HARRY L. KINSEL

REPORT OF THE EDITOR

Boston, Mass., March 19, 1962

*To the Board of Government
Boston Society of Civil Engineers*

The Journal was issued quarterly, in the months of April, July and October 1961 and anuary, 1962, as authorized by the Board of Government on December 20, 1935.

During the year there have been published 16 papers and 17 discussions presented at meetings of the Society and Sections.

The four issues of the Journal contained 339 pages of papers and proceedings, 8 pages of Index and 39 pages of advertising, a total of 386 pages. An average of 1650 copies per issue were printed.

The cost of printing the Journal was as follows:

Expenditures

Composition and printing	\$3,905.25
Cuts	656.12
Wrapping, mailing & postage	329.25
Editor	749.76
Copyright	16.00
	<u>\$5,656.38</u>

Receipts

Receipts from sale of Journal and reprints	\$2,078.38
Receipts from Advertising	<u>1,997.00</u>
	\$4,075.38
Net cost of Journal to be paid from Current Fund	\$1,581.00

CHARLES E. KNOX, *Editor*

REPORT OF THE LIBRARY COMMITTEE

Boston, Mass., March 8, 1962

To the Boston Society of Civil Engineers:

The work of the Library Committee consisted of the selection of new books to be purchased for the library. To this end recommendations were solicited from the Chairmen of the various Sections, and these were reviewed at a committee meeting on December 28, 1961.

Along with these and other recommendations the Committee studied the available books recently published in the field of Civil Engineering. It was the aim of the committee to make a selection that would give a good distribution of subject matter, and place books in the library that would carry authority in their field.

Following is the list selected for purchase:

- Pile Foundations, 2nd. Ed. Robert D. Chellis
- Frame Analysis, Woodhead and Hall
- Stresses in Shells, Wilhem Flugge
- Soils and Soils Engineering, Reuben H. Karol
- Electronic Surveying and Mapping, Simo Laurila
- Manual on Industrial Water and Industrial Waste Water—STP, 2nd. Ed. Am. Society for Testing Materials
- Theory of Elastic Stability, 2nd. Ed. Timoshenko & Gere
- From Theory to Practice in Soil Mechanics, Selections from the writing of Karl Terzaghi.
- Manual of Photographic Interpretation. Robert N. Colwell, American Society of Photogrammetry.
- Professional Engineers' Examination Question and Answers, William S. LaLonde
- Design of Steel Structures, Boris Bresler and T. Y. Lin
- Design and Construction of Ports and Marine Structures, Alonzo DeF. Quinn
- Air Pollution Control, Faith.

The following books were received as gifts:

- Design of Water-Resource Systems, from Gordon M. Fair
- Comparisons in Resource Management, from Arthur Maass

THOMAS C. COLEMAN, *Chairman*

REPORT OF ADVERTISING COMMITTEE

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

The activities of the advertising committee for this past year was limited to the consideration of positive measures to be taken to assure continued and possible increased revenue from advertising in the Society's Journal.

Accordingly the Committee recommends the following:

1. Prepare a list of prospective advertisers, such as manufacturers, distributors, special services, etc.
2. Initiate a program to attract more professional cards from all engineers in private practice whether or not they are members of BSCE.
3. A "Follow Up Program" should be planned so that each committee member would have specific assignments.
4. Records and progress reports should be prepared and maintained in the office for continuous reference and guidance for future committees, so that the transition from one committee to the next will be smooth and procedures simplified.

HARRY R. FELDMAN, *Chairman*

REPORT OF THE HOSPITALITY COMMITTEE

Boston, Mass., March 8, 1962

To the Boston Society of Civil Engineers:

The Hospitality Committee submits the following report for the year 1961-1962.

A total of nine meetings of the Society were held during the past year. Included in this total were the Annual Dinner, a Student Night Meeting, and seven regular meetings of the Society.

Catered dinners were served prior to six of the nine meetings.

The average attendance of members and guests for all nine meetings or dinners (using the large attendance figure) was 70, as compared to last year's average of 73.

Attendance at regular meetings of the Society during the past year was 52 persons per meeting, which equaled last year's average. Attendance is, however, still below the levels recorded from 1957 to 1960. It is therefore recommended that a concerted effort be made during the forthcoming year to encourage more active participation of the membership in society functions.

SUMMARY OF MEETINGS AND ATTENDANCE

Date	Place	Attendance	
		Meeting	Dinner
March 16, 1961	M.I.T. Faculty Club	35	160
April 12, 1961	United Community Services Building	65	50
May 17, 1961	United Community Services Building	18	—
September 27, 1961	United Community Services Building	70	55
October 25, 1961	Mass. Institute of Technology	110	110
November 15, 1961	United Community Services Building	24	—
December 13, 1961	United Community Services Building	90	65
January 24, 1962	Society Rooms	30	—
February 21, 1962	United Community Services Building	65	46

CLEMENT D. ZAWODNIAK, *Chairman*

REPORT OF THE MEMBERSHIP CENTRAL COMMITTEE

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

I. Status of Membership as of March 22, 1962

Total Membership	1055
New Members this year	25
New Junior Members	7
Transfers from Junior to Member	14
Reinstatements	7
Resignations	7
Deaths	8

II. Activities of Committee

There was very little productive activity of the committee this year, however, we offer the following recommendations with the hope that in the following years there will at least be some area in which the Membership Central Committee can get started.

- A. Investigation of check lists for prospective members.
 1. Mass. Board of Registration list
 2. A.S.C.E. List
 3. Blue Book Roster
 4. Firms employing Civil Engineers
- B. Appeal to the present members for active participation in getting new men interested.
 1. At the first general membership mailing include the application, flyer, extracts from the Constitution and By-Laws and a short well worded request to the member to use the enclosures on a prospective colleague.
 2. Send the same data to prospective members outlined in A 1, 2 and 3.
 3. Send appropriate number of sets of data to item A 4.
- C. Prepare a questionnaire to the membership.
 1. Requesting basic data pertaining to meetings and recommendations in general.
 2. Ask for specific answers to questions.
 - a. Are we doing all we can for the membership
 - b. What principle benefits do you desire
 - c. Why do you or do you not attend your Section Meetings
- D. Increase publicity at local levels.
 - a. For members participating in Society activities
 - b. Officers and Program Chairmen
 - c. Speakers and Programs
- E. Provide the necessary budgetary requirements to cover expense of the mailing and printing of the recommendations.

HARRY R. FELDMAN, *Chairman*

REPORT OF THE JOHN R. FREEMAN FUND COMMITTEE

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

The John R. Freeman Fund Committee during the past year paid for the cost of preparation and publication of the "Report of the Committee on Floods," a total of \$2217.92.

The Committee is offering a Scholarship this year. The requirements are the same as that offered four years ago (1958), except the stipend has been raised to a total of 5,000 for a single and \$6000 for a married man. Applications close on March 26, 1962. So far only one application has been received.

HOWARD M. TURNER, *Chairman***REPORT OF JOINT LEGISLATIVE COMMITTEE**

Boston, Mass., March 8, 1962

To the Boston Society of Civil Engineers:

No legislative bill of major interest to engineers was taken up during the 1961 Session.

A check on bills filed for the 1962 Session shows the following items of interest.

<i>Bill No.</i>	<i>Subject</i>	<i>Report</i>
H1310	Petition of Peter J. Cloherty for legislation to authorize the incorporation of professional corporations to practice specified professions.	None as of 3/7/62
H585	Petition of Francis H. Carr, Jr., and Julius Ansel relative to the issuance by the Board of Registration of Professional Engineers and Land Surveyors of certificates of registration to certain public employees holding the grade of permanent "junior civil or other engineer" or higher.	Next Annual Session House 2/26/62
H1563	Petition of Allen E. Gifford that public officials be prohibited from requiring that bidders on public construction contracts procure insurance and surety bonds from any particular insurance or security company.	None as of 3/7/62
H2367	Petition of James R. McIntyre that the seals of registered professional engineers be required to bear an identification of the field or fields of practice of said engineers.	Next Annual Session House 2/26/62

The Committee opposed H585 and were instrumental in having the sponsor ask for leave to withdraw.

We also took an active part in the preparation of a list of suitable engineers for possible appointment by the Governor to policy making positions in various State departments. This list was sponsored by Massachusetts Section ASCE, MSPE and BSCE. Excellent co-operation has been shown by the Governor's office on this matter.

EDWARD WRIGHT, *Chairman*

REPORT OF THE PUBLIC RELATIONS COMMITTEE

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

No formal meetings were held during the year by the Public Relations Committee as no subject matter developed that warranted a meeting.

Copies of notices of meetings were sent to approximately fifty of the Engineering Officers for posting.

The undersigned called upon representatives of the Boston daily newspapers requesting their co-operation in publicizing the Society and Section Meetings. The resulting publicity was minimal, and it appears that the only way the Society can obtain adequate publicity is to engage the part-time services of a public relations man.

JOHN F. FLAHERTY, *Chairman*

REPORT OF COMMITTEE ON SUBSOILS OF BOSTON

Boston, Mass., March 22, 1962

To the Boston Society of Civil Engineers:

Following is the Annual Report of the Committee on Subsoils of Boston:

In continuing the work of collecting boring data in Greater Boston the Committee has prepared a questionnaire to be sent to architects, engineers, and boring contractors requesting information on borings put down since the last publication data in 1949.

The Boston Redevelopment Authority has expressed interest in this program and hopes to be able to help with the cost. As the necessary money becomes available the data will be prepared for publication.

DONALD G. BALL, *Chairman*

REPORT OF THE EXECUTIVE COMMITTEE OF THE SANITARY SECTION

Boston, Mass., February 19, 1962

To the Sanitary Section

Boston Society of Civil Engineers:

Four meetings of the Sanitary Section were held during the past year. A brief account of each meeting follows:

March 1, 1961—Annual Meeting. The following officers and members of the Executive Committee were elected:—Chairman, Robert H. Culver, Vice-Chairman, George W. Hankinson, Clerk, Charles Y. Hitchcock, Jr., Executive Committee, Francis T. Bergin, James M. Symons, William C. Traquair.

Richard M. Power, Associate Sanitary Engineer, Division of Sanitary Engineers, Massachusetts Department of Public Health presented a paper entitled "Small Sewage Treatment Plants." The number of members and guests was not recorded, but the room was well filled. Attendance was 54 members and guests.

June 3, 1961. Annual Outing and Joint Meeting with the Main Society. The Annual Outing this year consisted of a visit to the Lawrence Experiment Station where the members and guests viewed the activities of the Experiment Station. Following the visit to the Experiment Station, an informal luncheon was held at the Yankee Doodle Restaurant in Lawrence. At the luncheon, Mr. Joseph A. McCarthy, Chief of the Lawrence Engineering Experiment Station reviewed the history of the Experiment Station and described the present operation of and services offered by the Experiment Station. Eighteen members and guests were present.

October 4, 1961. At this meeting a paper on the subject of "Composting of Municipal Refuse" was presented by Mr. John S. Wiley, Sanitary Engineer Director Biophysics Section, Communicable Disease Center of the U.S. Public Health Service in Savannah, Georgia. The meeting was preceded by dinner at the Smorgasbord Restaurant. Forty-six members and guests were present at the meeting.

December 6, 1961. "The Pittsfield—Dalton Pollution Control Program," was presented by Mr. Joseph C. Lawler, Partner, Camp, Dresser & McKee. A Nominating Committee consisting of Harold A. Thomas, Jr., George M. Reece and Clair N. Sawyer was elected. The meeting was preceded by a dinner at the Smorgasbord Restaurant. About 75 members and guests were present.

The Executive Committee held three meetings during the year, at which the programs for the year were planned. Mr. John S. Bethel, Jr. was recommended to the Board of Government for appointment to represent the Sanitary Section on a Committee assembled by the Massachusetts Department of Public Health to develop a policy for the operation and maintenance of subdivision sewage treatment plants. The Executive Committee carried through the final printing and publication of the Sanitary Seminar Lectures.

The total attendance for the four meetings was about 194, for an average attendance of about 50.

The papers prepared for three of these meetings have been or will be published in the Journal.

CHARLES Y. HITCHCOCK, JR., *Clerk*

REPORT OF THE EXECUTIVE COMMITTEE OF THE STRUCTURAL SECTION

Boston, Mass., March 1962

*To the Structural Section
Boston Society of Civil Engineers*

There were seven meetings of the Structural Section which were held as follows:

April 12, 1961. Joint meeting with main Society and Construction Section. Mr. William Mueser of the firm of Moran, Proctor, Mueser and Rutledge, and Captain Perry Boothe, C.E.C., U.S.N., spoke on the "Design and Construction of Bremerton Base Drydock." Attendance was 65.

May 10, 1961. Mr. Fred U. Severud of Severud, and Dr. Hannskarl Bandel, Elstad, Krueger Associates of New York City spoke on the "Structural Design of the New Earth Sciences Building at M.I.T." There were 45 present.

October 11, 1961. Mr. James Carey, Senior Technologist, Shell Chemical Company, spoke on "Prospects for Epoxy Resins in Structural Engineering." Attendance 50.

November 8, 1961. Professor Jerre Jennings, Head of the Civil Engineering Department at the University of the Witwaterstrand, South Africa, spoke on "General Soils and Foundations Problems in South Africa." There were 50 present.

December 13, 1961. Joint dinner meeting with Main Society. The talk was on the Fox Point Barrier, Providence, R.I. The speakers were Mr. John Leslie, Mr. Herbert Whittemore, and Mr. Eugene Groden, all of the Corps of Engineers. Attendance 85.

January 10, 1962. Robert J. Hansen, Professor of Structural Engineering, Massachusetts Institute of Technology, spoke on the "Feasibility of Structural Hardening against Nuclear Weapons." Attendance 45.

February 21, 1962. Joint Dinner Meeting with Hydraulic Section and the Main Society. Professor Howard, M. Turner of Harvard spoke on "New England Floods and the Society's Flood Reports." Attendance 70.

March 14, 1962. Annual Meeting of Structural Section. The following officers for 1962-63 were elected: Chairman, Percival S. Rice, Vice Chairman Harl P. Aldrich, Clerk, Max D. Sorota, Executive Committee, Mark M. Kiley, Thomas C. Coleman, Donald T. Goldberg.

Speaker of the evening was Dr. John B. Scalzi, Industry Representative, construction-structural design, U.S. Steel Corp., spoke on "Unusual and Efficient Structures Made Possible by Welding." Attendance 55.

The total attendance for the year was 465; average 57.

P. S. RICE, *Clerk*

REPORT OF THE EXECUTIVE COMMITTEE OF THE HYDRAULICS SECTION

Boston, Mass., March 1, 1962

*To the Hydraulics Section,
Boston Society of Civil Engineers:*

The following meetings were held during the past year:

May 3, 1961—Mr. Philip A. Drinker, Research Geologist, Agricultural Research Service, Hydrodynamics Laboratory, Massachusetts Institute of Technology, discussed "Boundary Shear Stress Distribution in Trapezoidal Channel Curves." Slides were shown and a hydraulic model at the laboratory was demonstrated. Attendance: 20.

November 1, 1961—The meeting was held in the Society Rooms. Mr. Lee M. G. Wolman, Hydraulic Engineer, Charles T. Main, Inc. was speaker. Mr. Wolman's subject was "Hydraulics and Hydrology of the Niagara Power Project." Slides were shown and an interesting question period followed. Attendance: 32.

February 21, 1962—A joint meeting with the Boston Society of Civil Engineers and the Structural section was held at the Community Services Building following a roast beef dinner.

Mr. Donald R. F. Harleman called the meeting of the Hydraulic Section to order. The reading of minutes of the previous meeting was dispensed with and the report of the nominating committee was read and accepted. The nominating committee, consisting of the three previous chairmen, was as follows:

James W. Daily
Lee Marc G. Wolman
John B. McAleer

The following slate of officers for 1962 was approved:

Lawrence C. Neale, Chairman
Richard F. Dutting, Vice-Chairman
Keistutis P. Devenis, Clerk
Peter S. Eagleson, Executive Committee
Allen Grieve, Executive Committee
Nicholas Lally, Executive Committee

The speaker was Howard M. Turner who discussed "New England Floods and the Society's Flood Reports." The meeting was followed by a very interesting discussion period. The meeting was adjourned at 8:45 P.M. Attendance: 66.

R. F. DUTTING, *Clerk*

REPORT OF THE EXECUTIVE COMMITTEE OF THE SURVEYING AND MAPPING SECTION

Boston, Mass., February 14, 1962

*To the Surveying and Mapping Section,
Boston Society of Civil Engineers:*

Three meetings of the Surveying and Mapping Section were held during the past year as follows:

May 17, 1961—Joint Meeting with the Boston Society of Civil Engineers. Dr. David D. Jacobus, Senior Mechanical Engineer of Harvard University—Cambridge Electron Accelerator, spoke on "The Survey for the Cambridge Accelerator." Attendance 18.

October 18, 1961—Mr. U. M. Schiavone, Newton City Engineer, spoke on "Conversion of a Former Metropolitan Water Works Aqueduct to the Use of a Gravity Flow Sewer." Attendance 17.

January 17, 1962—Annual Meeting—The following officers were elected for the coming year:

Chairman	Richard D. Raskind
Vice-Chairman	Rudolf S. Slayter
Clerk	Joseph E. Bodio
Executive Committee	Robert E. Cameron
Executive Committee	Alexander E. Manning
Executive Committee	John P. Hurney

Following the elections, Mr. Philip H. Kitfield, Chief Engineer—Massachusetts Turnpike Authority, James A. Armstrong, Resident Engineer—Massachusetts Turnpike Authority, Edward J. Comeau, Field Engineer—New England Survey Service spoke on "The William F. Callahan, Jr. Tunnel." Attendance 50.

Total attendance for the year was 85; average attendance was 28.

Roy L. WOOLDRIDGE, *Chairman*

REPORT OF THE EXECUTIVE COMMITTEE OF THE CONSTRUCTION SECTION

Boston, Mass., March 22, 1962

*To the Construction Section
Boston Society of Civil Engineers:*

The Construction Section continued to follow the long range program as discussed in the 1961 report by Frank J. Heger. The unofficial advisory group was reconvened to aid in furthering this program.

Three meeting dates were assigned this section and meetings were held on those dates as well as a joint meeting with the Main Society and the Structural Section. Those meetings, speakers, subjects and attendance were as follows:

March 22, 1961. John J. Schuren, Metcalf & Eddy spoken on "Artic Construction." Twenty-eight members and guests attended the meeting.

April 12, 1961. Joint Meeting with Main Society and Structural Section (refer to the Secretary's Minutes).

May 24, 1961. Mr. Joseph C. Yeager, Portland Cement Association spoke on "Concrete Floor Construction—Skilled Workmanship." Thirty members and guests attended the meeting.

January 3, 1962. Mr. Lloyd Cutcliffe, Instructor, M.I.T., spoke on "Applications of Operations Research in the Construction Field." Fifteen members and guests attended the meeting.

A program planned for March 22, 1962 is a talk by Mr. David Werblin of the Griffin Wellpoint Corporation on the latest methods of dewatering construction sites.

The section has under consideration, a series of meetings covering precast and/or prestressed concrete for building construction. It appears there is a great interest in this type of meeting.

The new officers of this Section are as follows: Chairman, James P. Archibald, Vice-Chairman Leonard Tucker, Clerk, Donald G. Goldberg, Executive Committee, Frank J. Heger, Harold Gillis, Robert A. Bierweiler.

ROBERT A. BIERWEILER, *Chairman*