

ANNUAL REPORTS

REPORT OF THE BOARD OF GOVERNMENT FOR YEAR 1969 - 1970

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 25, 1970.

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

Honorary	12
Members	1113
Associates	3
Juniors	55
Students	3
	<hr/>
Total	1186
Applications pending on March 25, 1970	12
Student Chapters	2

Summary of Additions

New Members	109
New Juniors	14

Reinstatements

Members	1
---------	---

Summary of Transfers

Juniors to Members	8
--------------------	---

Summary of Loss of Members

Deaths	10
Resignations	20
Dropped for non-payment of dues	20
Dropped for failure to transfer	2

Life Membership

Life Members	128
--------------	-----

Members becoming eligible today for Life Membership	5
--	---

Honorary Membership is as follows:-

John B. Babcock, 3rd, elected, January 2, 1969
Charles O. Baird, Jr., elected January 2, 1969
Harry P. Burden, elected, February 1, 1965
Thomas R. Camp, elected, February 3, 1964
Arthur Casagrande, elected, February 1, 1965
Frank M. Gunby, elected, February 15, 1950

Ralph W. Horne, elected, February 1, 1965
 Karl R. Kennison, elected, February 7, 1951
 Frank A. Marston, elected, February 15, 1960
 Howard M. Turner, elected, February 18, 1952
 Frederic N. Weaver, elected, February 1, 1965
 John A. Volpe, elected, January 29, 1968

The following members have been lost through death:

Charles M. Anderson, October 14, 1969
 E. Sherman Chase, July 8, 1969
 Gordon M. Fair, January 11, 1970
 Kimball R. Garland, June 28, 1969
 George E. Harkness, September, 1969
 Francis H. Kingsbury, August 11, 1969
 Robert W. Mawney, July 31, 1969
 Frank J. McCann, February 10, 1969
 Russell J. Rice, May 7, 1969
 George G. Rommer, March 26, 1969

MEETINGS OF THE SOCIETY

- | | |
|--------------------|---|
| March 24, 1969 | Address of retiring President Harl P. Aldrich, Jr. "Back Bay Boston" |
| April 16, 1969 | Joint Meeting with BSCE Transportation Section. Senator James R. McIntyre, Massachusetts Senator and Mayor of Quincy. "Proposed Massachusetts Department of Transportation". |
| May 21, 1969 | Joint Meeting with BSCE Construction Section. Mr. John B. Davis, Deputy Chief Engineer, Massachusetts Port Authority. "General Logan Airport — Past and Future". |
| June 4, 1969 | Joint Outing with BSCE Sanitary Section. Mr. Richard A. Smith, Engineer for the Boston Edison Company. "Environmental Radiation Surveillance at Pilgrim Station, Plymouth, Mass". |
| July 9, 1969 | Special Meeting. "Revision of Boston Building Code" Richard Thuma, Commissioner. |
| September 24, 1969 | Joint Meeting with BSCE Transportation Section. Mr. John Hanson, U.S. Dept. of Transportation, Federal Highway Administration for Region 1. "A Broad Overview of our Nation's Highway Transportation Program, Concepts and Goals — and a Look Ahead". |
| October 15, 1969 | Joint Meeting with Mass. Section American Society of Civil Engineers (Student Night) Dr. Ruth Terzaghi, Research Fellow in Engineering at Harvard University. "The Civil Engineer in a Troubled World". |
| November 12, 1969 | Joint Meeting with BSCE Structural Section. Mr. Leslie Robertson, Partner of Skillings, Helle, Christansen & Robertson. "The Design and Construction of High Rise Buildings including the World Trade Center at New York". |
| December 10, 1969 | Joint Meeting with BSCE Geotechnical Section. Mr. William S. Swiger, Consulting Engineer, Stone & Webster Engrg. Corp. "Pile Driving Specifications". |

- January 28, 1970 Joint Meeting with the BSCE Hydraulics Section. John R. Freeman Memorial Lecture. Klas Cederwall, Consulting Engineer. "Dispersion Phenomena in Coastal Environments".
- February 18, 1970 Joint Meeting with Mass. Section, American Society of Civil Engineers. Mr. T. Richard Guinan, Vice President, State Street Bank and Trust Company. "Financing Municipal Construction Projects".

ATTENDANCE AT MEETINGS

Date	Place	Meeting	Dinner
March 24, 1969	M.I.T. Faculty Club	52	229
April 16, 1969	Purcell's Restaurant	46	46
May 21, 1969	Nick's Restaurant	48	48
June 4, 1969	Bert's Restaurant Plymouth, Mass.	24	24
July 9, 1969	Faneuil Hall, Boston	17	
September 24, 1969	Purcell's Restaurant	55	55
October 15, 1969	Tufts University	235	235
November 12, 1969	Purcell's Restaurant	48	48
December 10, 1969	Bristol Bay Room, Kevin's Wharf, Boston	51	51
January 28, 1970	United Community Services Building, Boston	61	50
February 18, 1970	Red Coach Grill	105	105

Meetings of the Sections of the Society were held 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 Reports of the various Sections will be presented at the Annual Meeting of the Society and will be published in the Journal.

FUNDS OF THE SOCIETY*

Permanent Fund. The Permanent Fund of the Society has a present value of \$75,-533.76. The Board of Government authorized the use of as much as necessary of the current income of this fund for payment of current expenses. By vote of the Society, as prescribed by the By-Laws, at the December 10, 1969 and January 28, 1970 meetings the Board of Government was authorized to transfer an amount not to exceed \$8000 from the Principal of the Permanent Fund for current expenditures. The amount necessary to transfer from the Principal of the Permanent Fund for current expenditures was \$8,000.00.

John R. Freeman Fund. In 1925 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 be devoted to a yearly prize for the most useful paper relating to hydraulics contributed to the Society; or establishing a traveling scholarship every third year open to members of the Society for visiting engineering works, a

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

report of which would be presented to the Society. This year a John R. Freeman Memorial Lecture was given by Klas Cederwall, Consulting Engineer, on "Dispersion Phenomena in Coastal Environments". The expenditure from this fund during the year was \$3,139.14.

Edmund K. Turner Fund. In 1916 the Society received a bequest of \$1,000 from Edmund K. Turner, a former member of the Society, the income of which is to be used for Library purposes. The Board voted to use \$300 of the income of this fund for the purchase of books for the Library.

Alexis H. French Fund. The Alexis H. French Fund, a bequest of \$1,000 was received in 1931, from the late Alexis H. French, a Past President of the Society. The income of this fund is "to be devoted to the Library of the Society". The Board voted to use \$300 of the income of this fund for the purchase of books for the Library.

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 \$3,507.24 on June 30, 1969. Jay M. Pollach, a student in Civil Engineering class of 1972 was awarded this scholarship of \$250 for the year 1969-1970.

Clemens Herschel Fund. This fund was established in 1931 by a bequest of \$1000 from the late Clemens Herschel, a 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 expenditure from this fund during the year was \$26.68.

Desmond FitzGerald Fund. The Desmond FitzGerald Fund established in 1910 by a bequest of \$2,000 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 voted on April 13, 1964 to use the income of this fund to establish a Boston Society of Civil Engineer's Scholarship in Memory of Desmond FitzGerald, and that it be given to a student in Civil Engineering at Northeastern University. It was voted on January 28, 1970 to accept the recommendation of the Committee at Northeastern University, namely, that a Scholarship of \$150 be given to Dennis A. Mahony, presentation to be made at the Annual Meeting of the Society on March 25, 1970.

Edward W. Howe Fund. This Fund, a bequest of \$1,000 was received in 1933 from the late Edward W. Howe, a Past President of the Society. No restrictions were placed on the use of this bequest, 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."

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 on the use of this bequest, but the recommendation 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 the Committee appointed by the President, the Board voted on April 5, 1954 to appropriate from the income of this fund a Scholarship to be known as the "Boston Society of Civil Engineer's Scholarship in Memory of William P. Morse," and that it be given to a Civil Engineering Student at Tufts University." It was voted on January 28, 1970 to adopt the recommendation of the Committee at Tufts University, namely, that a \$150 Scholarship be given to Winslow Hawkes, presentation to be made at the Annual Meeting of the Society on March 25, 1970.

Frank B. Walker Fund. This Fund, a bequest of \$1,000 was received in 1961 from Mary H. Walker, wife of Frank B. Walker, a Past President of the Society. No restrictions were placed on the use of this bequest but the recommendation 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."

Ralph W. Horne Fund. This Fund, a gift of \$3,000 was received June 29, 1964 from the Directors of Fay, Spofford & Thorndike Inc., the income from which shall be devoted to a prize or certificate to be awarded annually to a member designated by the Board of Government as having been outstanding in unpaid public service in municipal, state, or federal elective or appointive posts; or in philanthropic activity in the public interest. Members of B.S.C.E. only are eligible for the Award. The Board of Government voted unanimously January 28, 1970 to approve the recommendation of the Ralph W. Horne Fund Award Committee, namely, that Wilfred M. Hall be the recipient to receive the Ralph W. Horne Fund Award for the year 1969-1970, presentation to be made at the Annual Meeting of the Society on March 25, 1970.

PRIZES

<i>AWARD</i>	<i>RECIPIENT</i>	<i>PAPER</i>
Desmond FitzGerald Medal	Peter A. Larson	"Head Losses Caused by an Ice Cover on Open Channels"
Clemens Herschel Award	Thomas R. Camp	"Hydraulics of Mixing Tanks"
Ralph W. Horne Award	Wilfred M. Hall	
Desmond FitzGerald Scholarship	Dennis A. Mahony	
William P. Morse Scholarship	Winslow Hawkes	

LIBRARY

The Report of the Library Committee contains a complete account of the Library Committee's 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 March 25, 1970.

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.

Robert H. Culver President

REPORT OF THE SECRETARY

Boston, Mass., March 25, 1970

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 25, 1970

<i>OFFICE</i>	<i>EXPENDITURES</i>	<i>RECEIPTS</i>
Secretary's Salary & Expense	\$1,416.80	
Treasurer's Honorarium	910.80	
Stationary, Printing & Postage	1,332.72	
Incidentals & Petty Cash	127.23	
Insurance & Treasurer's Bond	51.00	
Quarters, Rent, Tel. & Light	6,251.93	
Office Secretary	6,847.60	
Soil Mechanics	2,275.71	\$981.00
Social Security	564.82	
 <i>MEETINGS</i>		
Rent of Halls	80.00	
Hospitality Committee	1,461.79	1,217.93
Reporting & Projection	16.88	
Annual Meeting March, 1969	1,266.78	984.00
Special Fund for Speakers	150.00	
 <i>SECTIONS</i>		
Sanitary Section	36.50	
Structural Section	193.90	
Transportation Section	38.22	
Hydraulics Section	41.14	
Construction Section	55.45	
Geotechnical Section	8.40	
Computer Section	60.95	
 <i>JOURNAL</i>		
Editor's Salary & Expense	985.05	
Printing & Postage	13,187.08	
Advertisements		2,566.79
Sale of Journals		2,391.90
Reprints	1,026.94	888.00
Copyright	18.00	
Newsletter	738.15	
	<hr/> \$39,143.84	<hr/> \$9,029.62
 <i>LIBRARY</i>		
Periodicals	74.00	
Binding	60.67	
 <i>MISCELLANEOUS</i>		
Binding Journals for Members	10.27	10.27
Badges	335.90	5.00
Bank Charges	1.25	
Miscellaneous	315.95	114.80
Engineering Societies Dues	1,150.25	
Public Relations Committee	100.88	
Sales Tax	.55	
Dues from B.S.C.E. Members		19,274.00
Trans. Income Perm Fund		4,596.96
Trans. Prin.		8,000.00
Current Fund		162.91
	<hr/> \$41,193.56	<hr/> \$41,193.56

109 New Members; 14 New Junior Members; 8 Junior Members 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 to be used as a fixed fund or cash on hand. \$46.75 withholding Tax is payable to State of Massachusetts in April.

Respectfully submitted,
Paul A. Dunkerley
Secretary

REPORT OF THE TREASURER

March 25, 1970

Fiscal year March 1, 1969 - February 28, 1970

FINANCIAL STANDING

The financial standing of the Society is summarized in the following four tables which accompany this report. The tables represent conditions as they existed at the close of business on February 28, 1970.

TABLE I	Condensed Statement of Condition — Assets and Liabilities
TABLE II	Condensed Statement of Income and Expenditures Distribution to Funds
TABLE III	Portfolio of Investments
TABLE IV	Income and Yield from Investments

SOCIETY INVESTMENTS

The Boston Safe Deposit and Trust Company continues to serve as financial advisor and custodian of the securities owned by the Society. The Custodian Bank has furnished us a certified audit of the Income and Principal Accounts.

Twice this year the Investments Division of the Boston Safe Deposit and Trust Company has reviewed our portfolio of securities and recommended changes to the Society. The Investment Committee of the Society considered these changes and presented its findings to the Board of Government. In each case the Board voted to authorize the recommended changes and directed the Custodian to proceed with the transactions. The general policy which dictates the handling of the portfolio is the maintenance of reasonable income consistent with a reasonable growth rate as a hedge against inflation.

The following changes were made in the Portfolio during the year.

Sold

So. Pac. Co. Series A 4½%, 77 Bonds	\$3,277.92
150 Shares General Electric Co.	12,831.10
110 Shares Monsanto Chemical Co.	5,466.58
Total	<u>\$21,575.60</u>

Bought

50 Shares Illinois Power Co.	\$1,905.06
300 Shares McGraw Edison Co.	10,421.07
260 Shares Wilson & Co., Inc.	7,865.88
3 Shares International Business Mach. Corp.	1,068.75
Total	<u>\$21,260.76</u>

Received as result of stock split
 300 Shares Newmont Mining Corp.
 236 Shares Texaco, Inc.

The percentage of common stocks in the portfolio based on current market value is now 77.4% compared to 73% a year ago. The yield from the securities in the portfolio based on current market value is approximately 4.9%.

AUDIT

The Auditing Committee has reviewed the Treasurer's account book, the bills paid by the Treasurer, the receipts from the Secretary, the savings bank passbook, the checkbook, and the certified audit of the income and principal accounts. The information contained in this report has been verified.

INVESTMENT FUNDS-INCOME ACCOUNT (Bos. Safe Dep. & Tr. Co. Custodian)

Balance in account March 1, 1969	\$ 5,006.60	
Dividends received	6,740.54	
Interest received	2,826.25	
Sub Total		\$14,573.39
Service charges	\$ 910.87	
Transfer to savings	6,500.00	
Transfer to checking	6,000.00	
Sub Total		\$13,410.87
Balance in account February 28, 1970		\$1,162.52

INVESTMENT FUNDS-PRINCIPAL ACCOUNT (Bos. Safe Dep. & Tr. Co. Custodian)

Balance in account March 1, 1969	\$ -162.69	
Bonds Sold	3,277.92	
Stocks Sold	18,297.68	
Sub Total		\$21,412.91
Stocks Bought	\$21,260.76	
Sub Total		\$21,260.76
Balance in account February 28, 1970		\$ 152.15

SAVINGS ACCOUNT (First Fed. Sav. & Loan Assoc. of Boston)

This savings account is used as a temporary investment for money available for investment and for excess balance in the check book, thus providing additional income to the funds, until there is a need to transfer it to the checkbook to meet expenditures.

Balance March 1, 1970	\$ 3,015.56	
Transfer from Income Account	6,500.00	
Transfer from Checking Account	4,000.00	
Interest Received	419.62	
Sub Total		\$13,935.18
Transfer to Checking Account		\$11,000.00
Sub Total		\$11,000.00
Balance February 28, 1970		\$ 2,935.18

CURRENT FUND ACCOUNT

This fund is set up for payment of operating expenses of the Society and for receiving income allocated for that purpose. To provide money for operation in March before regular income is received, the fund is provided with a balance of approximately \$1,500.00 on March first.

Total Expenditures	\$41,193.56
Total Income and Receipts	<u>28,433.69</u>
Excess of Income over Expenditures	(\$-12,759.87)
Transfer from Permanent Fund Income	\$ 4,596.96
Transfer from Permanent Fund Principal	8,000.00
Balance in Fund March 1, 1969	<u>1,500.00</u>
Sub Total Available to cover deficiency	\$14,096.96
Balance February 28, 1970	\$ 1,337.09

By vote of the Board of Government \$4,596.96 was transferred from the Income of the Permanent Fund to the Current Fund. By vote of the Board of Government and two votes taken at regular monthly meetings of the Society \$8,000.00 was transferred from the Principal of the Permanent Fund to the Current Fund.

The membership and other interested persons are referred to the report of the Secretary published elsewhere in the Journal for a detailed breakdown of the income and expenditures of the Current Fund.

PERMANENT FUND

The Permanent Fund receives income from its prorated portion of interest and dividends from investments and pays its portion of service charges of the Custodian Bank.

Receipts from entrance fees are credited to the principal of this fund. These amount to \$1,140.00 this year.

Income from Interest and Dividends	\$ 5,059.13
Prorated portion of Custodian service charges	<u>462.17</u>
Net Income	\$ 4,596.96

As explained above, the total net income of \$4,596.96 plus \$8,000.00 from principal was transferred from the Permanent Fund to the Current Fund.

JOHN R. FREEMAN FUND

Payments from this fund were made this year for a scholarship to Mr. Michael Collins, a graduate student at M.I.T., and for expenses of the annual Freeman Lecture. The lecturer, Mr. Klas Cederwall, received an honorarium of \$300.00.

Scholarship to Mr. Michael Collins	\$ 2,120.00
Expenses of Freeman Lecture	439.64
Lecturers honorarium	300.00
Prorated portion of Custodian service charges	<u>279.50</u>
Total Expenditures	\$ 3,139.14

Received from prorated portion of income from investment	\$ 3,074.79
Excess of Income over Expenditures	(\$ -64.35)

LECTURES FUND

This fund was newly created at the beginning of this year by combining the Transportation Lectures Fund, the Structural Lectures Fund, and the Lectures Fund into a single Lectures Fund.

This fund received its prorated portion of income from investments this year and paid its portion of the Custodian service charges. No other payments were made from this fund. The balance in this fund on February 28, 1970 was \$6,853.40.

BORING DATA FUND

The Committee on Subsoils of Boston has been actively engaged in revising and adding to the Boring Data Book. Mr. Clarence Seagrave (retired) has continued his work of sifting and collating the information into a publishable form, and has been assisted by Mr. E. M. Battle and Mr. N. P. Kenis.

No solicitations of outside funds were made this year. However, at the February 1970, meeting, the Board requested the Treasurer to apply for permission from the Office of the Attorney General of Massachusetts to solicit funds in accordance with Chapter 68, Acts of 1964. This permission has been requested and received. Solicitations may now be made.

The only income to this fund this year was a donation of \$10.00. However, the fund has been augmented by transfer of \$1,000.00 from the Frank B. Walker Fund by vote of the Board of Government on May 21, 1969, in order to insure continuation of this work.

Balance in Fund March 1, 1969	\$ 3,423.28
Received donation	10.00
Transfer from Frank B. Walker Fund	<u>1,000.00</u>
Total Receipts	\$ 4,433.28
Paid for sorting and collating information for publication	\$ 3,705.57
Paid Printer	<u>6.08</u>
Total Expenses	<u>\$ 3,711.65</u>
Balance in Fund February 28, 1970	\$ 721.63

KARL R. KENNISON FUND

On March 3, 1970, Mr. Charles Flaherty of the Massachusetts Company reported to the Treasurer of the Society on the status of the irrevocable trusts established on behalf of the Society by Mr. Karl R. Kennison. As of February 28, 1970, the two trusts involving shares in the Massachusetts Fund were as follows.

	<i>No. Shares</i>	<i>Market Value</i>
Trust #4315	356,650 shares	\$ 3,791.19
Trust #4444	<u>466,464 shares</u>	<u>4,958.51</u>
Total	823,114 shares	\$ 8,749.70

A year ago there were 787,909 shares which had a market value of \$9,842.20.

OTHER FUNDS

The membership and other interested persons are referred to the Report of the Board of Government published elsewhere in this issue of the Journal for information concerning the remaining funds, the reasons for existence, and the disbursements made from each.

WITHHELD TAXES

The item of \$46.75 for taxes withheld listed under Liabilities in Table I is for unpaid Massachusetts State Income Taxes withheld. This is due and payable in April.

ACKNOWLEDGEMENTS

This is the first year your present Treasurer has served in this office. I should like to thank Prof. Paul A. Dunkerley, the former Treasurer, for his valued assistance in helping me to become acquainted with the accounting procedures and the operation of the various funds. I should like to express my appreciation for the help and indulgence of all members of the Board during the period of my indoctrination.

Respectfully submitted,
Robert T. Colburn
Treasurer

TABLE I
CONDENSED STATEMENT OF CONDITION

ASSETS AND LIABILITIES

February 28, 1970

<i>Assets</i>	<i>Book Value</i>		<i>Market Value</i>	
	<i>2-28-70</i>	<i>3-1-69</i>	<i>2-28-70</i>	<i>3-1-69</i>
1st Nat. Bank Bos. (Check. Acct.)	\$ 1,662.31	\$ 7,253.50	\$ 1,662	\$ 7,253
Boston Safe Dep. & Tr. Co. (Custodian Acct.)				
Bonds	55,628.84	59,820.14	40,151	48,531
Common Stocks	99,210.51	87,580.73	157,222	170,135
Balance in acct.	1,314.67	4,843.91	1,315	4,844
1st Fed. Sav. & Loan Assoc. (Savings)	2,935.18	3,015.56	2,935	3,016
Cash held by Secretary	30.00	30.00	30	30
TOTAL ASSETS	<u>\$160,781.51</u>	<u>\$162,543.84</u>	<u>\$203,315</u>	<u>\$233,809</u>
<i>Liabilities and Funds</i>				
Permanent Fund	\$ 75,533.76	\$ 78,555.27	\$ 95,684	\$114,079
John R. Freeman Fund	52,023.92	49,622.40	65,933	72,063
Edmund K. Turner Fund	2,463.60	2,225.71	3,136	3,232
Desmond Fitzgerald Fund	4,988.17	4,646.25	6,292	6,747
Alexis H. French Fund	2,439.68	2,203.48	3,096	3,200
Clemens Herschel Fund	1,681.16	1,543.11	2,111	2,241
Edward W. Howe Fund	2,743.41	2,478.43	3,498	3,599
William P. Morse Fund	4,729.89	4,411.00	5,990	6,406
Frank B. Walker Fund	1,239.07	2,028.35	1,568	2,946
Ralph W. Horne Fund	3,949.98	3,686.23	5,005	5,353
Lectures Fund	6,853.40	6,190.33	8,703	8,990
Sub Total Investments Funds	<u>\$158,646.04</u>	<u>\$157,590.56</u>	<u>\$201,016</u>	<u>\$228,856</u>
Boring Data Fund	721.63	3,423.28	722	3,423
Current Fund	1,337.09	1,500.00	1,500	1,500
Secretary's Change Fund	30.00	30.00	30	30
Reserve for Taxes Withheld	46.75	*	47	*
TOTAL LIABILITIES	<u>\$160,781.51</u>	<u>\$162,543.84</u>	<u>\$203,315</u>	<u>\$233,809</u>

* \$308.25 is included in the Current Fund for taxes withheld.

TABLE II
 CONDENSED STATEMENT OF INCOME AND EXPENDITURES — DISTRIBUTION TO FUNDS

Fiscal Year March 1, 1969 through February 28, 1970

FUND	Book Value Mar. 1, '69	Income Interest and Dividends	Gain from sale of securities	Receipts & Transfers to funds	Expenditures and Transfers from funds	Book Value Feb. 28, '70
Permanent	\$78,555.27	\$5,059.13	\$3,838.49	\$1,140.00	\$462.17	\$75,533.76
Transfer to Current					12,596.96	
John R. Freeman	49,622.40	3,074.79	2,465.87		3,139.14	52,023.92
Edmund K. Turner	2,225.71	142.13	108.77		13.01	2,463.60
Desmond Fitzgerald	4,646.25	289.83	230.38		178.29	4,988.17
Alexis H. French	2,203.48	140.79	108.27		12.86	2,439.68
Clemens Herschel	1,543.11	97.35	76.22		35.52	1,681.16
Edward W. Howe	2,478.43	158.27	121.19		14.48	2,743.41
William P. Morse	4,411.00	275.10	218.74		174.95	4,729.89
Frank B. Walker	2,028.35	123.88	98.70		11.86	1,239.07
Transfer to Boring Data					1,000.00	
Ralph W. Horne	3,686.23	229.56	183.07		148.88	3,949.98
Lectures	6,190.33	395.58	303.62		36.13	6,853.40
SUB TOTAL Invest. Funds	\$157,590.56	\$9,986.41	\$7,753.32	\$1,140.00	\$17,824.25	\$158,646.04
Boring Data Fund	3,423.28			10.00	3,711.65)	721.63
Transfer from Walker				1,000.00)	
Current Fund	1,500.00			28,433.69	41,193.56)	1,337.09
Transfer from Permanent				12,596.96)	
Secretaries Change Fund	30.00					30.00
Reserve for taxes withheld						46.75
TOTALS	\$162,543.84	\$9,986.41	\$7,753.32	\$43,180.65	\$62,729.46	\$160,781.51

*\$308.25 is included in Current Fund for taxes withheld.

TABLE III
 BOSTON SOCIETY OF CIVIL ENGINEERS
 PORTFOLIO OF INVESTMENTS

	Book Value		Market Value	
	2-28-70	3-1-69	2-28-70	3-1-69
BONDS 19.7%				
6,000 Assoc. Invest. Co. 5 1/2 - 79. Deb.	\$ 6,000	\$ 6,000	\$ 4,320	\$ 4,800
10,000 Flintkote Co. 4 5/8 - 81. Deb.	10,450	10,450	7,300	8,000
1,000 Florida Po. Corp. 3 1/8 - 84. 1st Mort.	1,018	1,018	604	654
5,000 Florida Po. Corp. 3 7/8 - 86. 1st Mort.	5,038	5,038	3,219	3,525
5,000 Georgia Po. Co. 3 3/8 - 77. 1st Mort.	5,162	5,162	3,669	3,825
5,000 Marine Mid. Corp. 4 1/2 - 89. Deb.	5,000	5,000	3,275	3,650
10,000 Montreal Quebec Imp. 6% - 87. Deb.	10,075	10,075	6,900	8,850
10,000 Orange & Rockland 6 1/2 - 97. 1st Mort.	9,950	9,950	8,262	9,350
3,000 Ontario 3 1/4 - 72. Deb.	2,936	2,936	2,602	2,602
4,000 So. Pac. Co. 4 1/2 - 77. 1st Mort.	--	4,191	--	3,275
TOTAL BONDS	\$55,629	\$59,820	\$40,151	\$48,531

(Continued next page)

TABLE III — (Continued)

COMMON STOCKS 77.4%						
250	Amer. Tel. & Tel. Co.	\$ 4,506	\$ 4,506	\$ 4,506	\$ 12,812	\$ 12,970
400	Clark Equipment Co.	12,287	12,287	12,287	13,600	12,800
150	General Electric Co.	--	--	2,341	--	12,975
170	General Motors Corp.	9,131	9,131	9,131	11,794	13,196
214	Hartford Insurance Co.	1,534	1,534	1,534	10,700	11,609
250	Illinois Power Co.	11,591	11,591	9,686	8,500	7,375
35	Inter. Business Mach. Corp.	6,400	6,400	5,332	11,909	9,388
110	Monsanto Chemical Co.	--	--	7,290	--	5,404
200	Nat. Dairy Prod. Co.	1,155	1,155	1,155	7,800	8,150
308	New England Elec. System	6,216	6,216	6,216	6,699	8,585
500	Newmont Mining Corp.	12,548	12,548	12,548	16,000	14,950
177	So. Cal. Edison Co.	1,933	1,933	1,933	5,332	6,571
200	Std. Oil N.J.	2,013	2,013	2,013	10,868	15,575
472	Texaco Corp.	1,516	1,516	1,516	13,157	19,352
200	Warner Lambert Pharm. Co.	9,937	9,937	9,937	14,400	11,075
4	W. R. Grace & Co.	156	156	156	93	160
300	McGraw Edison Co.	10,421	10,421	--	8,813	--
260	Wilson & Co. Corp.	7,866	7,866	--	4,745	--
	TOTAL COMMON STOCKS	\$99,210	\$99,210	\$87,581	\$157,222	\$170,135
SAVINGS BANK 1.4%						
	1st Fed. Sav. & Loan Assoc.	\$ 2,935	\$ 2,935	\$ 3,016	\$ 2,935	\$ 3,016
CASH ACCOUNTS 1.5%						
	1st Nat. Bank of Bos. Check Acct.	\$ 1,662	\$ 1,662	\$ 7,253	\$ 1,662	\$ 7,253
	Bos. Safe Dep. & Tr. Co. Custodian Ac.	1,315	1,315	4,844	1,315	4,844
	Cash	30	30	30	30	30
	TOTAL SAVINGS & CASH	\$5,942	\$5,942	\$15,143	\$5,942	\$15,143
	GRAND TOTAL	\$160,781	\$160,781	\$162,544	\$203,315	\$233,809

TABLE IV

INCOME AND YIELD FROM INVESTMENTS

Fiscal Year March 1, 1969, to February 28, 1970

	Income	Yield On Current Market Value
<i>BONDS</i>		
6,000 Assoc. Invest. Co. 5 1/8 - 79. Deb.	\$ 307.50	7.1%
10,000 Flintkote Co. 4 5/8 - 81. Deb.	462.50	6.3
1,000 Florida Po. Corp. 3 1/8 - 84. 1st Mort.	31.25	4.8
5,000 Florida Po. Corp. 3 7/8 - 86. 1st Mort.	193.75	6.0
5,000 Georgia Po. Co. 3 3/8 - 77. 1st Mort.	168.75	4.6
5,000 Marine Midland 4 1/2 - 89. Deb.	225.00	6.9
10,000 Montreal Quebec Imp. 6% - 87. Deb.	600.00	8.7
10,000 Orange & Rockland 6 1/2 - 97. 1st Mort.	650.00	7.8
3,000 Ontario 3 1/4 - 72. Deb.	97.50	3.7
4,000 So. Pac. Co. 4 1/2 - 77. 1st Mort.	90.00	5.3
Total Bonds	<u>\$2,826.25</u>	<u>6.8%</u>
<i>COMMON STOCKS</i>		
250 Amer. Tel. & Tel.	\$ 612.50	4.8%
400 Clark Equipment Co.	560.00	4.1
150 General Electric Co.	97.50	3.6
170 General Motors Corp.	731.00	6.2
214 Hartford Insurance Co.	299.60	2.8
250 Illinois Power Co.	475.00	6.6
35 Inter. Business Mach. Corp.	115.20	1.0
110 Monsanto Chemical Co.	99.00	5.3
200 Nat. Dairy Products Co.	335.00	4.5
308 New England Electric Co.	455.84	6.8
500 Newmont Mining Corp.	520.00	3.2
177 So. Cal. Edison Co.	247.80	4.7
200 Std. Oil N. J.	750.00	6.9
472 Texaco Corp.	731.60	5.6
200 Warner Lambert Pharm. Co.	220.00	1.5
4 W. R. Grace & Co.	—	—
300 McGraw Edison Co.	315.00	4.7
260 Wilson & Co. Corp.	175.50	7.4
Total Common Stocks	<u>\$6,740.54</u>	<u>4.5%</u>
TOTAL	<u>\$9,566.79</u>	<u>4.9%</u>

REPORT OF THE AUDITING COMMITTEE

Boston, Mass., March 25, 1970

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.

Respectfully submitted,
James P. Archibald
Max D. Sorota

REPORT OF JOURNAL EDITOR

Boston, Mass., March 25, 1970

To the Boston Society of Civil Engineers:

During the last fiscal year, the Journal issues for January 1969, April 1969, and July-October 1969 were published. The last-mentioned was published as a double issue so that the Boring Data for the Boston Peninsula could be available under one cover.

Volume 56 for the year 1969 contained four technical papers and the Boring Data for the Boston Peninsula, plus Society reports, in 297 pages of text. This is ten more pages of text than in 1968.

The boring data published are for Section 1 of Greater Boston. Data for other sections of the Greater Boston area are in the process of preparation by the Subsoils of Boston Committee, and will be published in later Journal issues, by section, as they become available. The publication of the boring data increases the Journal expense since it involves extra composition costs. The Society should benefit, however, when all the boring data are eventually published in a single hard-cover volume, since the composed copy is being retained for future use.

The continuing purpose of the Journal is to provide the Society members and our subscribers with a publication of high standards as a medium for top quality technical papers, high grade professional advertising, and Society reports. The availability of top quality professional papers, suitable for a recognized medium of technical literature and with an international circulation, is the key to its continued success.

Respectfully submitted,
H. H. Holly, Editor

REPORT OF PUBLICATION COMMITTEE
March 25, 1970

To the Boston Society of Civil Engineers:

During the period March 1969 — February 1970 the publication committee received and distributed for review nine papers.

Of these nine, three were rejected, one was published three have been accepted for publication and two have been returned to the authors for modification and conditional acceptance.

We have been working towards developing an inventory of papers and at a subsequent date plan to submit an outline of proposed procedural improvements we consider to be feasible.

Respectfully submitted,
Ernest A. Herzog, Chairman
Publication Committee

REPORT OF THE LIBRARY COMMITTEE

March 25, 1970

To the Boston Society of Civil Engineers:

No significant change in the use of the Library has been apparent during the past year. Even reference works have been used to only a limited extent.

No expenditures have been made for new books, and no books have been donated to the Library.

Lack of sufficient shelf space and of storeroom space for Journals kept in stock for sale is a continuing and increasing problem.

After due investigation, the committee recommends that the Clemens Herschel special library be donated to Tufts University Library, which has indicated an interest in receiving it. The Herschel Library consists of very old books of only historical value, many being concerned with England.

In a similar vein, the committee recommends the disposal of the bound volumes of *The Canadian Engineer* and *The Engineering Journal*, together covering the period 1912 to 1963. Preferably these should be given to one of the Boston area educational institutions if one would like to have them, otherwise, they should be discarded. Mrs. Boudia reports that she has never seen anyone refer to any of these volumes. More recent issues of *The Engineering Journal* received by the Library are kept unbound.

The books and bound periodicals referred to above together occupy some 42 feet of shelf space, which could thus be made available for better usage.

It is further recommended that arrangements be made for the part-time employment of a student or students to work under Mrs. Boudia's supervision in rearranging the storeroom stock in more orderly fashion and in assisting her in such rearrangement of books on the library shelves as may be found desirable. This work might be done during the summer, if not convenient earlier. Such assistance should be furnished from time to time as the need arises.

Further action is needed in culling out additional library material that is no longer of sufficient value to BSCE members to warrant its retention. The assistance of officers of the appropriate sections should be enlisted in determining which books or periodicals should be offered to other libraries or discarded.

Respectfully submitted,
 John M. Biggs
 Joseph Capone
 George W. Hankinson
 William H. Parker, III
 Nathaniel N. Wentworth, Jr.
 Harry L. Kinsel, Chairman

REPORT OF THE HOSPITALITY COMMITTEE

Boston, Massachusetts, March 5, 1970

To the Boston Society of Civil Engineers:

The Hospitality Committee submits the following report for the year 1969-1970:

A total of eleven meetings of the Society were held during the past year. This was three meetings more than the previous year. Included in this total were the 121st Annual Meeting, two joint meetings with the American Society of Civil Engineers, one of which was a Student's Night Meeting, a discussion meeting of the City of Boston Building Code, and seven regular meetings of the Society.

Catered dinners were served prior to five meetings

The average attendance of members and guests for all eleven meetings or dinners (using the larger attendance figure) was 84 as compared to last year's average of 92.

<i>DATE</i>	<i>PLACE</i>	<i>MEETING</i>	<i>DINNER</i>
March 24, 1969	M.I.T. Faculty	52	229
April 16, 1969	Purcell's Restaurant	46	46
May 21, 1969	Nick's Restaurant	48	48
June 4, 1969	Bert's Restaurant Plymouth, Mass.	24	24
July 9, 1969	Faneuil Hall, Boston	17	-
September 24, 1969	Purcell's Restaurant	55	55
October 15, 1969	Tufts University	235	235
November 12, 1969	Purcell's Restaurant	48	48
December 10, 1969	Bristol Bay Room Kevin's Wharf, Boston	51	51
January 28, 1970	United Community Services Building	61	50
February 18, 1970	Red Coach Grill, Boston	105	105

Respectfully Submitted
 Conrad C. Fagone
 Chairman

REPORT OF THE MEMBERSHIP COMMITTEE

Boston, Mass., March 25, 1970

To the Boston Society of Civil Engineers:

In the past year the Committee held two formal meetings. Each member covered his own firm and some of the larger firms not represented on the Committee.

During the year, the Society elected 109 new members and 14 new Junior Members. Twelve applications are pending. Total membership as of this date — 1186.

Respectfully submitted,
Charles H. Flavin
Chairman

REPORT OF THE PUBLIC RELATIONS COMMITTEE

Boston, Mass.

To the Boston Society of Civil Engineers:

No formal meetings were held during the year by this Committee although discussions were held by telephone. Of the three members on the committee, one was transferred to Washington, and a second could not be contacted.

First, one could argue that with BSCE's considerable recent increase in membership, public relations perhaps is not needed. However, from the viewpoint of speakers, publicity is important.

Secondly, for overall Society publicity, a suitable brochure could be prepared for use in future membership drives and to acquaint prospective speakers with BSCE.

The following two suggestions are offered for consideration by the Board of Government:

1. A standard form be prepared similar to those of national societies on which speakers may indicate pertinent background information. This form could then be mailed to Boston and local newspapers from the BSCE office.
2. If an overall BSCE brochure is desired, this could be a project for a future Public Relations Committee.

Respectfully submitted,
Charles A. Parthum, Chairman

COMMITTEE ON SUBSOILS OF BOSTON

March 25, 1970

To the Boston Society of Civil Engineers:

The Committee on Subsoils of Boston met on May 8 and October 2, 1969.

The Committee completed collection and compilation of boring information for the Boston Peninsula in June 1969. The data for this first area were published in the July-October special issue of the Journal of the Boston Society of Civil Engineers.

During the last months of 1969, collection and compilation of boring data for two additional sub-areas from Greater Boston, namely Roxbury and South Boston were also completed. It is contemplated to present this information in another special issue of the Journal by mid-summer 1970.

The total receipts collected from our first fund raising campaign (\$6,390.00) proved to be insufficient to cover the expenses connected with the work in progress. The Board of Government rescued the project twice by appropriating a total sum of \$1,500.00 to complete the work connected with the last two sub-areas. We wish to take this opportunity to express our thanks to the members of the Board of Government for their generous support.

Due to lack of funds, no further work is being carried out currently. In order to finance the project, the Committee requested the Board for permission to solicit additional funds from potential users of the information. The success or failure of this second fund raising campaign will determine whether or not the project of collecting boring information from Greater Boston can be brought to completion.

Respectfully submitted,
Horst Borberky, Chairman
Subsoils of Boston Committee

REPORT OF COMMITTEE ON PROFESSIONAL CONDUCT

Boston, Mass., March 25, 1970

To the Boston Society of Civil Engineers:

During the past year the Society has received no complaints of violations of ethical practice, and the Committee has held no meetings.

Respectfully submitted,
George G. Bogren
Francis S. Harvey
George M. Reece
William L. Hyland, Chairman

REPORT OF QUARTERS COMMITTEE

Boston, Mass., March 25, 1970

To the Boston Society of Civil Engineers:

In February 1969, the Quarters Committee contacted several real estate companies with a request to locate suitable new quarters for the Society, and at the same time to find a tenant to sub-let our present quarters at 47 Winter Street until the termination of our lease on 30 June 1972. The response was not rewarding, especially to finding a sub-tenant. It now appears that we should stay in our present quarters until the lease terminates.

Accordingly, we recommend that the Society rooms be cleaned and painted between 1 June and 1 September 1970. The building owner, Mr. Hornstein, had agreed to paint the quarters at the time the new 5-year lease was negotiated. We postponed that work pending a review of possible major renovations.

In the meantime, the Quarters Committee will begin a search for from 600 to 900 sq. ft. of modern space suitable for an office, library and meeting room for the Board of Government, to be occupied in 1972.

Respectfully submitted,
Paul A. Dunkerley
Frank L. Heaney
Walter M. Newman
Harl P. Aldrich, Jr., Chairman

*REPORT OF THE
ORGANIZATIONAL CONTACT COMMITTEE*

March 25, 1970

To the Boston Society of Civil Engineers:

The Organizational Contact Committee reviewed the previously prepared list of contact men at various local firms and organizations in order to make corrections and to keep up to date. There are 129 individuals from 109 organizations presently on this list. The Committee recommends that the list be updated each September by sending questionnaires for confirmation or changes of the names of the contact men, firms, organizations, addresses, telephones, comments, etc.

The Committee also recommends the following:

1. The format of the bulletin board notices be changed as follows:
 - a. Use different color paper for each successive notice.
 - b. Notices should describe the details of a particular meeting with an abstract of the talk and should list the dates and titles of 2 or 3 future meetings.
 - c. Provide space on the notice for persons to indicate their intention of attending the particular meeting so that others may be moved to attend.

2. A letter be sent by the President of the Society to all the heads and principal engineers of the various firms and organizations to encourage their attendance and to suggest that they make it known within their organization whenever they plan to attend a meeting.
3. The Committee be informed of any program changes so that it may contact the various organizations by telephone whenever there is insufficient time to send notices by mail.
4. Designated contact men be encouraged to discuss with members of the Organizational Contact Committee any matters related to the function of the Society.

Respectfully submitted,
 ORGANIZATIONAL CONTACT COMMITTEE
 Athanasios A. Vulgaropoulos, Chairman
 Leland F. Carter
 Howard Simpson
 Stephen E. Dore
 Charles C. Ladd
 A. Paul LaRosa
 Peter K. Taylor

REPORT OF BSCE-ASCE RELATIONSHIP COMMITTEE

Boston, Mass., March 25, 1970

To the Boston Society of Civil Engineers:

The activities of this Committee are directed towards a more beneficial professional environment for the civil engineer in the Boston area through greater co-operative activities between the Boston Society of Civil Engineers and the Massachusetts Section of the American Society of Civil Engineers. The Committee has coordinated its work very closely with a like committee of the Massachusetts Section of the American Society of Civil Engineers chairmanned by Professor Saul Namyet. A study made by the ASCE Committee reveals the following approximate memberships in the Societies:

BSCE only	706
ASCE only	1,152
Members of Both	393
BSCE Total	1,098
ASCE Total	1,545
(943 are subscribing members)	

At the present time 21 of the 35 BSCE Technical Section officers are members of ASCE.

Cooperative activity can be separated into a long-range program and a short-range program. The Committee feels that it is advisable to make this separation in order that short-range goals may be achieved without being dependent upon the outcome of long-range goals.

Long-range goals could include the ultimate consolidation of both societies into one society. This accomplishment would involve a great deal of study in regard to legal entanglements, endowments and other considerations. During this period the Committee feels that appropriate short-range goals could be finalized to include;

- (1) Joint technical meetings. The ASCE is in accord with this proposal and would form technical sections to jointly sponsor technical meetings with BSCE. It was noted that any involvement of the expenditure of large sums of money in these activities would require the approval of both parent Societies. It was noted that joint technical section meetings might induce more papers for the Journal if it were possible for a speaker to have his papers published also in the ASCE Journals. It should also promote larger attendance at the section meetings.
- (2) All meetings of the parent societies would be joint with the exception of the annual meetings of each Society.
- (3) The newsletters of both societies would be combined to form a BSCE-ASCE newsletter. A joint newsletter should realize economies for both societies.
- (4) The BSCE Board of Government should invite the ASCE to form a Quarters Committee to work jointly with the BSCE Quarters Committee.

It is hoped that these short-range suggestions could be implemented in the fall of 1970.

The Committee members expressed their willingness to continue to serve on this Committee in the forthcoming year.

Respectfully submitted,
William A. Henderson
Edward C. Keane
Robert J. Van Epps
James P. Archibald, Chairman

REPORT OF THE JOHN R. FREEMAN FUND COMMITTEE

Boston, Mass. March 25, 1970

To the Boston Society of Civil Engineers:

On January 28th, 1970, Dr. Klas Cederwall presented the fifth John R. Freeman Memorial Lecture at a Joint Meeting of the Hydraulics Section and the Main Society. His subject was "Dispersion Phenomena in Coastal Environments".

The program is being reviewed and plans are underway for the coming year.

Respectfully submitted,
George R. Rich
Clyde W. Hubbard
Lee M. G. Wolman
David Campbell
Leslie J. Hooper, Chairman

REPORT OF THE RALPH W. HORNE FUND COMMITTEE

Boston, Mass., March 25, 1970

To the Boston Society of Civil Engineers:

This is the Fourth Annual Report of the Ralph W. Horne Fund Committee.

At its 1969 Annual Meeting, the Society, acting upon recommendation of the Committee, named Edward Wright as the recipient of the Ralph W. Horne Award and presented him a scroll in recognition of unpaid public service which he has rendered throughout his professional career.

Prior recipients of the award were Dr. Carl Stephen Ell in 1968, Llewellyn T. Schofield in 1967, Miles N. Clair in 1966, and Charles O. Baird, Jr. in 1965.

Respectfully submitted,
Miles N. Clair
George G. Bogren
William L. Hyland, Chairman

REPORT OF BSCE REPRESENTATIVE

on Ad-Hoc Committee "Joint Committee on Revisions to Massachusetts Professional Engineers and Land Surveyors Registration Laws"

To the Boston Society of Civil Engineers:

The writer was BSCE's representative on this committee, which included 20 representatives of 14 engineering societies active in the Commonwealth. Over a fourteen-month period, revisions to the Massachusetts Registration laws were formulated, unanimously endorsed by the Board of Registration of Professional Engineers and of Land Surveyors and submitted to the General Court as House No. 1341, entitled "An Act Relative to Membership of the Board of Registration of Professional Engineers and of Land Surveyors, and Regulation the Practice of Engineering and of Land Surveying".

A hearing was held on February 25, 1970, before the Committee on State Administration, and no opposition was heard.

Successful enactment of this bill will strengthen our registration laws, bring us into agreement with the majority of other states, and allow reciprocal recognition.

Respectfully submitted,
Charles A. Parthum
BSCE Representative

*SANITARY SECTION**ANNUAL REPORT OF THE EXECUTIVE COMMITTEE*

To the Boston Society of Civil Engineers:

The Sanitary Section held four meetings during the year. A brief account of these meetings follows:

1 — March 5, 1969 Annual Meeting held in the Society rooms.

The Nominating Committee presented the following proposed slate of officers and members of the Executive Committee:

David A. Duncan — Chairman
Leland F. Carter — Vice Chairman
Cornelius J. O'Leary — Clerk
William Parker — Executive Committee
Jack Cochran — Executive Committee
Paul Guertin — Executive Committee

There being no additional candidates the Chairman directed the Clerk to cast one vote for the slate.

After the election Professor Perry L. McCarty talked on Nitrogen Removal from Agricultural Wastewater in California.

2 — June 4, 1969 Annual Outing and Joint Meeting with Main Society in Plymouth, Massachusetts. Members toured the site of Pilgrim Nuclear Power Plant of Boston Edison Company under construction and scheduled for operation in 1971.

The evening meeting was held at Bert's Restaurant where Mr. Richard Smith of Boston Edison Company presented a detailed presentation of the Environmental Surveillance program set up to provide fundamental protection from the surrounding environs.

3 — October 1, 1969 meeting held in the Society rooms. About twenty-four members and guests attended.

The meeting was opened by Chairman Dave Duncan who notified the members that the Executive Committee had voted to notify the Board of Government of the inadequacy of the present quarters. The Chairman asked for discussion of the matter. It was the consensus that such a letter be sent to the Board of Government. It was voted that the Chairman forward such a letter.

Mr. David Jenkins, Associate Professor of Sanitary Engineering and Chief Chemist of the Sanitary Engineering Laboratory at the University of California presented a paper on Phosphorus Removal in Waste Treatment Processes.

Thirty-five members were in attendance.

4 — December 3, 1969 meeting held in the Society rooms.

Chairman David Duncan opened the meeting and notified the members that a nominating committee consisting of Mr. Charles Parthum, Chairman, Mr. Walter Newman and Professor Robert L. Meserve was appointed to submit a slate of officers for the coming year.

Mr. Duncan introduced Mr. Robert Culver, President of the Society who spoke briefly to the Section on the increased desire of young people to protect and enhance the environment. He stressed that he welcomed this interest because it will require professional engineers to be more astute in their endeavors.

Mr. Duncan introduced Mr. Joseph C. Lawler, Partner — Camp, Dresser, and McKee who presented a very interesting talk on "The 840 mgd Water Treatment Plant for Sydney, Australia".

About forty members were in attendance.

The Executive Committee met on August 4, 1969, October 1, 1969, and December 3, 1969.

Major subjects discussed included:

1. The Section's dissatisfaction with the present quarters and that action be taken to notify the Board of Government.
2. Expansion of the Section's programs to include topics on air pollution control, solid waste disposal and other environmental problem areas.
3. Having a least one luncheon meeting during the year.

The committee took the following action on these subjects:

1. Notified the Board of Government of the inadequacy of the quarters on October 10, 1969.
2. The March 4, 1970 meeting was on air pollution control.
3. No action was taken relative to the luncheon meeting since scheduled speakers were not available. The possibility of such a meeting during next year, will be considered further.

Respectfully Submitted
Cornelius J. O'Leary
Clerk

REPORT OF THE EXECUTIVE COMMITTEE OF THE STRUCTURAL SECTION

March 16, 1970

To the Boston Society of Civil Engineers:

The following meetings were held during the past year:

March 12, 1969 — Mr. Grady J. Taylor of Howard, Needles, Tammen and Bergendoff, spoke on the "Rio de Janeiro-Niterol Bridge". Attendance was 26.

April 1, 1969 — Mr. Lanier C. Greer of the Boston Redevelopment Authority spoke on "Boston's Plan for the 1976 World Exposition". Attendance was 22.

May 14, 1969 — Mr. Edward Cohen, Partner, Amman and Whitney, spoke on "Forthcoming Revisions to the A.C.E. Code (318-63)". Attendance was 38.

October 8, 1969 — Mr. Frank W. Stockwell, Jr., of the American Institute of Steel Construction, spoke on the 1969 A.I.S.C. Specification. Attendance was 44.

November 12, 1969 — Mr. Leslie Robertson, Partner, Skilling, Helle, Christiansen and Robertson, spoke on the "Design and Construction of High Rise Buildings". This was a joint meeting with the Main Society. Attendance was 48.

January 14, 1970 — Dr. Eliahu E. Traum, Professor of Construction, Graduate School of Design, Harvard University and Visiting Professor of Structure at M.I.T., with Dr. Waclaw P. Zalewski, Professor of Structures, Department of Architecture, M.I.T. spoke on "A Conceptual Model for Shear Wall-Frame Systems". Attendance was 28.

February 11, 1970 — Mr. Logan L. Donnel of Simpson, Gumpertz & Heger spoke on how "A Structural Engineer Looks at Brick Masonry Problems" and Mr. Hans William Hagen of William LeMessurier Associates spoke on "The Phillips Exeter Academy Space Trusses". Attendance was 36.

Respectfully submitted,
Sepp Firnkas
Clerk

TRANSPORTATION SECTION

March 25, 1970

To the Boston Society of Civil Engineers:

The Executive Committee for the year 1969 — 1970 consisted of the following:

Charles D. Shaker — Chairman
A. Paul La Rosa — Vice Chairman
A. Russell Barnes — Clerk
Charles H. Flavin
Maurice Freedman
Robert T. Tierney

The Transportation Section held three meetings during the past year, as follows:

September 24, 1969 — Joint Meeting with Main Society

John A. Hanson, Federal Highway Administrator of Region 1 of the United States Department of Transportation, spoke on "A Broad Overview of Our Nation's Proposed Highway Transportation Program — Concepts and Goals and a Look Ahead". Attending the meeting with Mr. Hanson was John G. Bestgen, Acting Division Engineer of the Boston office of the Federal Highway Division.

Attendance — 55

This dinner meeting was held in the Harvard Room of Purcell's Restaurant, School Street, Boston.

November 19, 1969 — Joint Meeting with Computer Section, B.S.C.E.

David Carter, Engineer-Programmer for the State of New Hampshire Department of Public Works and Highways, delivered an interesting and informative talk on the subject of "Computer Applications in the Highway Engineering Field".

Attendance — 55

This dinner meeting was held in the Harvard Room of Purcell's Restaurant, School Street, Boston.

February 25, 1970

Mr. H. Alfred Pontier, Partner in the consulting engineering firm of Edwards and Kelcey, Inc., presented an illustrated lecture on "Interstate Route 93 through Franconia Notch State Park". He presented three solutions for a highly complex and controversial project which has attracted nationwide attention. The study weighs the traditional use of this mountain pass for the efficient and safe movement of people and goods versus the equally important values of recreation, conservation and aesthetics.

The following were nominated and elected to the Executive Committee of the Transportation Section for the year 1970 — 1971:

A. Paul La Rosa — Chairman
 A. Russell Barnes — Vice Chairman
 Robert Tierney — Clerk
 Maurice Freedman
 Richard K. Guzowski
 Charles D. Shaker

Attendance — 78

This dinner meeting was held in the Harvard Room of Purcell's Restaurant, School Street, Boston.

Plans are well along for the first meeting of the Transportation Section for the 1970 — 1971 season. It will be a joint meeting with the Boston Chapter of the Institute of Traffic Engineers and will be held on Wednesday evening, May 20, 1970, at Purcell's Restaurant. The subject will be "The Federal Aid TOPICS Program".

"TOPICS" stands for "Traffic Operations Program for the Improvement of Capacity and Safety". This program is a federally aided action type which is designed to encourage short-range improvements in capacity and safety on urban arterial streets. These improvements include traffic control devices, traffic signal systems, channelizations, etc. All aspects of the program will be discussed, including its impact on cities and towns in Massachusetts.

The Transportation Section has been designated by the Board of Government to handle all arrangements on its behalf for B.S.C.E.'s participation in the A.S.C.E. 1970 National Transportation Engineering Convention. The convention will be held in Boston at the Statler Hilton Hotel between July 13 — 17, 1970. B.S.C.E.'s participation will be in the form of sponsoring a dinner meeting on Monday evening, July 13. It is expected that a nationally known speaker will be booked for this meeting.

Respectfully submitted,
 Charles D. Shaker
 Chairman

EXECUTIVE COMMITTEE REPORT HYDRAULICS SECTION

March 10, 1970

To the Boston Society of Civil Engineers:

The following meetings were held during the past year:

April 23, 1969 — Professor Henry M. Paynter of MIT and Professor Lawrence C. Neale of the Alden Research Laboratories spoke on the "Surge Tank for the Northfield Pumped Storage Project".

Design, model tests and interpretations of model results were presented.

Attendance: 28

November 5, 1969 — Mr. Nicholas Lally of the Water Resources Division, Metropolitan Development HUD gave an illustrated talk on the non-structural aspects of "Flood Plain Management".

Attendance: 19

January 28, 1970 — The Annual Meeting was held jointly with the Main Society of the Boston Society of Civil Engineers in the Adams Room of the United Community Services Building, 14 Somerset Street, Boston, Massachusetts. In the absence of President Robert H. Culver, Mr. Ernest L. Spencer presided.

Mr. Spencer called upon Professor Leslie J. Hooper, Chairman of the John R. Freeman Memorial Fund Committee to introduce the speaker, Dr. Klas Cederwall, Consulting Engineer, who gave the Fifth Annual John R. Freeman Memorial Lecture on "Dispersion Phenomena in Coastal Environments". Dr. Cederwall was presented with a framed certificate for the lecture and an honorarium on behalf of the John R. Freeman Memorial Fund.

Attendance: 50 at dinner and 61 at the meeting.

March 9, 1970 — Chairman Ronald T. McLaughlin presented the report of the Nominating Committee of the Hydraulic Section consisting of Mr. Athanasios A. Vulgaropoulos, Chairman, Mr. Peter S. Eagleson and Mr. Allan Grieve, Jr.

The following slate of officers of the Hydraulic Section for the year 1970-1971 was elected unanimously by voice vote:

Chairman	Stephen E. Dore, Jr.
Vice Chairman	Albert G. Ferron
Clerk	Jerome Degen
Executive Committee	Frank E. Perkins
	Robert S. Restall
	Saul Cooper

The chairman then called upon Mr. Robert S. Restall, Senior Staff Associate, New England River Basin Commission, who spoke on "Environmental Considerations of Electric Power Plant Siting".

Attendance: 16

Respectfully submitted
Albert G. Ferron
Clerk

CONSTRUCTION SECTION

To the Boston Society of Civil Engineers:

The following meetings have been held during the year:

May 15, 1969 — Executive Committee Meeting, attended by F. J. Killilea, Chairman; H. M. Priluck, Vice Chairman; A. H. Mosher; W. E. Wiley. Discussed program for year and developed tentative list of speakers.

May 21, 1969 — Joint Meeting of Construction Section and Main Society. John R. Davis, Deputy Chief Engineer, Mass. Port Authority presented a talk entitled "General Airport Construction — Past and Future". Forty-eight members and guests were present.

Sept. 17, 1969 — Joint Meeting of Construction and Computer Sections, presenting a panel discussion entitled "Computer Applications for Construction Management". The panel comprised:

Benjamin Clark, President, Clark & Slater, Inc.

Leonard Walsh, Program Controller, Construction Department, MBTA

Robert Daniels, President, Project Software and Development, Inc.

Herbert M. Priluck, Consulting Engineer, acted as moderator. Fifty members and guests were present.

January 21, 1970 — Section meeting, on the subject: Construction Specifications Institute, Boston Architectural Center, BSCE, and Producers' Council: Who, What and Why are these organizations, and How are they inter-related? Each of our guest speakers presented information on his organization, as follows:

Emil Hervol, President, Boston Chapter, C.S.I.

Sanford R. Greenfield, AIA, Director of Education, BAC

Prof. Ernest L. Spencer, Vice President, BSCE

Allen R. Davis, President, Boston Chapter, P.C.

Preceding this presentation, A. H. Mosher, Chairman of the Nominating Committee, presented the following slate of officers to serve for the coming year:

Chairman:	Charles F. Sullivan
V.C.:	James A. Fife
Clerk:	Morse H. Klubock

At-Large:	William E. Wiley
	Arthur H. Mosher
	Frank J. Killilea, Jr.

Thirty-three members and guests were present.

Respectfully submitted,
J. A. Fife
Clerk

REPORT OF THE EXECUTIVE COMMITTEE OF THE GEOTECHNICAL SECTION

Boston, Mass., March 23, 1970

To the Boston Society of Civil Engineers:

The Geotechnical Section held the following meetings during the past year:

March 20, 1969 — Organizational Meeting. The following officers and members of the Executive Committee were elected:

Donald T. Goldberg	Chairman
Charles C. Ladd	Vice-Chairman
Philip A. Wild	Clerk
Edmund G. Johnson	Executive Committee
Vincent J. Murphy	Executive Committee
Steve J. Poulos	Executive Committee

The meeting was held at the MIT Faculty Club with 70 attending.

October 29, 1969 — Dr. Arthur Casagrande, Gordon McKay Professor of Soil Mechanics and Foundation Engineering, Harvard University, spoke on Liquefaction of Sands. The meeting was held at the Harvard Faculty Club with 78 attending.

November 20, 1969 — Joint meeting with the American Society of Civil Engineers. Dr. Leopold Muller, Professor of Rock Mechanics, University of Karlsruhe, West Germany, spoke on Rock Mechanics and Tunneling. The meeting was held at the Charter House Motor Hotel in Cambridge with 51 attending.

December 10, 1969 — Joint meeting with the Main Society. Mr. William F. Swiger, Consulting Engineer, Stone & Webster Engineering Corporation spoke on Pile Specifications. The meeting was held at Kevin's Wharf in Boston with 51 attending.

March 18, 1970 — Annual Meeting of the Section. The following were nominated and elected to the Executive Committee of the Geotechnical Section for the year 1970-1971:

Charles C. Ladd	Chairman
Philip A. Wild	Vice-Chairman
Edmund G. Johnson	Clerk
Vincent J. Murphy	Executive Committee
Steve J. Poulos	Executive Committee
Stiles F. Stevens	Executive Committee

Mr. J. Barry Cooke, Consulting Engineer, Kentfield, California, spoke on Rockfill Dams. The meeting was held at the Red Coach Grill, Boston, with 63 attending.

January 13, 1970 — Geotechnical Section Forum. Special meetings held separately from the regular Section meetings, the Forum is intended to provide a means for discussion of geotechnical topics and problems on an informal basis. The topic for this first meeting was Problems with Pier Foundations in the Cambridge Formation. Mr. Allen Gass of Golder, Gass Associates made the presentation. The meeting was held at the Tech Square House Restaurant with 71 attending.

Respectfully submitted,
Philip A. Wild, Clerk

**REPORT OF THE EXECUTIVE COMMITTEE OF
THE COMPUTER SECTION
Boston, Mass., March 13, 1970**

To the Boston Society of Civil Engineers:

During its first year of operation the Computer Section conducted or participated jointly with other sections in six meetings. These are summarized as follows:

April 22, 1969 — Meeting at the Society Rooms; Attendance 30.

This was the first meeting of the newly formed section. Its purpose was to organize the Section, elect officers, establish objectives, and discuss topics for future meetings. The following officers of the Section were elected:

Frank E. Perkins	Chairman
Gerald L. Woodland	Vice Chairman
Alan E. Rimer	Clerk
Richard F. Dutting	Executive Committee
David I. Hellstrom	" "
Saul Namyet	" "

May 27, 1969 — Meeting at Purcell's Restaurant: Attendance 28.

The film, "Computer Generated Movies" was shown in order to illustrate the extent to which computer graphics has progressed in some fields, and to show how such techniques can compress and clarify voluminous computer outputs. However, the principal function of this meeting was social, providing the members of the new section with an opportunity to meet informally.

September 17, 1969 — Meeting at Purcell's Restaurant; Attendance 50.

This meeting was held jointly with the Construction Section and consisted of a panel discussion on computer use in project management. See Construction Section report for details.

October 22, 1969 — Meeting at Purcell's Restaurant. Attendance 40.

The Computer and Structural Sections met jointly to hear Fr. John T. Christian, Assistant Professor of Civil Engineering at M.I.T. speak on "Finite Element Methods in Civil Engineering". Dr. Christian gave a clear, physical picture of the nature of finite element methods and then described a number of interesting applications which covered several branches of civil engineering.

November 19, 1969 — Meeting at Prucell's Restaurant. Attendance 55.

This meeting was held jointly with the Transportation Section. Mr. David Carter spoke on Computer Applications in the New Hampshire Highway Department. See Transportation Section report for details.

January 7, 1970 — Meeting at Purcell's Restaurant. Attendance 70.

A panel discussion on the topic, "Who Pays for the Computer". highlighted the annual meeting of the Section. The panel was comprised of:

Mr. Charles D. Shaker;	Fay, Spofford & Thorndike, Inc.
Prof. Daniel Roos:	M.I.T.
Mr. James P. Collins:	Collins & Associates, Inc.

Moderator for the panel was Mr. Alan E. Rimer of Camp, Dresser and McKee. Each of the panelists described various methods of accounting and charging for computer use, and the pros and cons of each. A very lively and informative discussion period followed:

Elected as Officers for the year 1970-71 were:

Gerald L. Woodland	Chairman
Alan E. Rimer	Vice Chairman
David I. Hellstrom	Clerk
Saul Namyet	} Executive Committee
Robert D. Logcher	
Frank E. Perkins	

This first year of its existence has demonstrated that the Computer Section does have an important role to play in the Society. To date we have concentrated on working with other sections to stimulate programs related to computer applications. In addition, the meeting of January 7, 1970 was of general interest and apparently was of considerable value to those in attendance. In order to fulfill our role of service to the Society the record of that meeting is being edited and will be published in the BSCE Journal.

Respectfully submitted,
Frank E. Perkins
Chairman