

## ANNUAL REPORTS

### REPORT OF THE BOARD OF GOVERNMENT 1975-1976

*To the Boston Society of Civil Engineers Section,  
American Society of Civil Engineers*

Pursuant to the requirements of the By-Laws, the Board of Government presents its report of the year ending April 13, 1976.

The following is a statement of membership in the Section:

Honorary	10
Assigned ASCE members	2006 (Feb. 29, 1976)
Subscribers:	
Members	1393
Associate Members	516
Student Chapters	9

#### *Summary of Additions*

New Members	17
New Associate Members	76

#### *Summary of Loss of Members*

Deaths	8
Resignations	20
Dropped	27

#### *Life Memberships*

Life Members	214
Members becoming eligible April 13, 1976	10

#### *Honorary Membership is as follows:*

John B. Babcock 3rd	elected	January 2, 1969
Charles O. Baird, Jr.	elected	January 2, 1969
Arthur Casagrande	elected	February 1, 1975
Herman G. Dresser	elected	November 5, 1975
Ralph W. Horne	elected	February 1, 1965
Karl R. Kennison	elected	February 7, 1951
George R. Rich	elected	March 19, 1973
Frederick N. Weaver	elected	February 1, 1965
John A. Volpe	elected	January 29, 1968

#### *The following members have been lost through death:*

John Brindley	January 1976
John L. Doherty	1975
Simon Kirshen	October 1975
Alfred Lockerbie	August 1975
John Matte	1975
Ernest L. Spencer	October 1975
Howard M. Turner	May 1975
George R. Higgins	June, 1975

*MEETINGS OF THE SECTION*

October 22, 1975	Joint with Geotechnical Group - "Evaluation of Several Geotechnical Predictions", speaker, Prof. T. William Lambe
November 19, 1975	Joint with Computer Group - "Computerized Technology Today", speakers, Kenneth A. Goff and Steve G. Lyons
December 17, 1975	Joint with Structural Group - Influences of Mechanical/Electrical/Plumbing Systems on design of Structures", speaker, Marvin Mass
January 28, 1976	Joint with Transportation Group Annual Meeting - "Transportation Futures", speaker, Lt. Governor Thomas P. O'Neill
February 18, 1976	Joint with Construction Group - "Preparation of Estimates for Major Heavy Construction", speaker, David Malone
March 23, 1976	Joint with Hydraulics Group - "Electrical System Planning for Pumped Storage Hydroelectrical Power," speaker, Jack C. Howe
April 13, 1976	Annual Meeting of BSCE Section ASCE - Address of retiring BSCES President Charles A. Parthum. Guest Speaker: Leland J. Walker, President-Elect ASCE

## MEETING PLACES AND ATTENDANCE

Date	Place	Attendance
October 22, 1975	Harvard University	80
November 19, 1975	Mass. Institute of Technology	25
December 17, 1975	Mass. Institute of Technology	17
January 28, 1976	Anthony's Pier Four Restaurant	70
February 18, 1976	Red Coach Grill	28
March 23, 1976	Mass. Institute of Technology	24
April 13, 1976	New England Aquarium	200

The Technical Groups of the Section also held many other meetings during the year. Annual reports of the various groups were presented at the Annual Meeting of the Section and are published in the Journal.

## PERMANENT FUND\*

The Permanent Fund was established under the By-Laws, Article 10, and is the recipient of all money received as entrance fees. Under certain circumstances income from the Permanent Fund may be transferred to the Current Fund. However, no such transfer was made this year. The Treasurer's report gives details of the year's transactions. Book value of the fund as of September 30, 1975, was \$77,122.34.

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

**FUNDS ESTABLISHED BY GIFT OR BEQUEST  
TO THE BOSTON SOCIETY OF CIVIL ENGINEERS\***

**JOHN R. FREEMAN FUND.** In 1925 the late John R. Freeman, a Past President and Honorary Member of the Boston Society of Civil Engineers, made a gift to the Society of securities which were 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 the hydraulic science or art; or a portion to 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 report of which would be presented to the Society. Total charges against this Fund through the fiscal year ending September 30, 1975, were \$184.18.

**EDMUND K. TURNER FUND.** In 1916 the Society received a bequest of \$1000 from Edmund K. Turner, a former member, the income which is to be used for Library purposes. Charges against the Fund through the fiscal year ending September 30, 1975, were \$9.66.

**ALEXIS H. FRENCH FUND.** The Alexis H. French Fund, a bequest of \$1000 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". Charges against the Fund through the fiscal year ending September 30, 1975, were \$9.54.

**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 acknowledgement." Charges against this Fund through the fiscal year ending September 30, 1975, were \$36.51.

**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 Engineers' Scholarship in Memory of Desmond Fitzgerald, and that it be given to a student in Civil Engineering at Northeastern University. Charges against this fund through the fiscal year ending September 30, 1975, were \$95.79.

Subsequent to September 30, 1975, it was voted to accept the recommendation of the Committee at Northeastern University, that the current scholarship award of \$200 be divided equally between David J. Crispin and David E. Deans. Presentation was made at the 1976 Student Chapter Night meeting of the Society held at the University of Lowell on February 26, 1976.

**EDWARD W. HOWE FUND.** This Fund, a bequest of \$1000, 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." Charges against this fund during the fiscal year ending September 30, 1975, were \$10.54.

**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 the fund be kept intact, and the income be used for the benefit of the Society and 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 Engineers Scholarship in Memory of William P. Morse, and that it will be given to a Civil Engineering student at Tufts University." Charges against this Fund through the fiscal year ending September 30, 1975, were \$16.46.

Subsequent to September 30, 1975, it was voted to accept the recommendation of the Committee at Tufts University, that the award scholarship of \$200 be given to Cornelius P. Cronin, Jr. Presentation was made at the 1976 Student Chapter Night meeting of the Society held at the University of Lowell on February 26, 1976.

**FRANK B. WALKER FUND.** This Fund, a bequest of \$1000, 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 should be kept intact and the income be used for the benefit of the Society and its members." Charges against this fund during the fiscal year ending September 30, 1975, were \$4.76.

**RALPH W. HORNE FUND.** This Fund, a bequest of \$3,000, was received June 29, 1964, from the Directors of Fay, Spofford and 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 to have been outstanding in unpaid public service in municipal, state or federal elective or appointed posts; or in philanthropic activity in the public interest. Members of BSCES only are eligible for the Award. Charges against this Fund during the fiscal year ending September 30, 1975, were \$14.12.

**THOMAS R. CAMP FUND.** This Fund, a bequest of \$10,000, was received January 15, 1971, from the Directors of Camp, Dresser and McKee, Inc., to establish the "Thomas R. Camp Fund", the income to be used to support an annual Thomas R. Camp lecture or lectures on outstanding recent developments or proposed or completed research in the sanitary engineering field. The income from the fund, over and above that needed to support the annual lecture should be added to the fund, but could be used otherwise at the discretion of the Board of Government of the Boston Society of Civil Engineers Section of the American Society of Civil Engineers. Charges against this Fund during the fiscal year ending September 30, 1975, were \$34.84.

**LECTURE FUND.** The Lecture Fund was established in 1969 for the purpose of providing money for special lectures sponsored by the Society. The book value of this Fund at the end of the fiscal year was \$5290.93. Charges against the Fund during the fiscal year ending September 30, 1975, were \$15.84.

**KARL R. KENNISON FUND.** This fund is comprised of two irrevocable trusts established in behalf of the Society by Karl R. Kennison. These trusts consist of shares of the Massachusetts Fund, the Massachusetts Company, Inc., trustee. On April 5, 1976, these trusts included the following:

Trust#4315	Market Value - \$3,712.73
Trust#4444	Market Value - \$5,386.34

After Mr. Kennison's death the net income shall be paid to the Society for a Hydraulic Lectureship Fund to be used for various public lectures on this subject, and the Board may withdraw the principal on written demand or make such changes in the use of the Fund as it may determine are warranted.

#### PRIZES

A number of prizes and awards are recommended for presentation at the Annual Meeting. For the list of awards and recipients, refer to the minutes of the Annual Meeting.

#### COMMITTEES

The usual special committees dealing with the activities and conduct of the Society were appointed. The reports of the committees were presented at the Annual Meeting April 13, 1976.

The Board wishes to express its appreciation of the excellent work done by the officers of the Groups and by the Committees of the Section.

Charles A. Parthum  
President

**BOSTON SOCIETY OF CIVIL ENGINEERS SECTION  
AMERICAN SOCIETY OF CIVIL ENGINEERS**

**Report of the Secretary**

FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1975

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.

1. OFFICE ACCOUNT	EXPENDITURES	RECEIPTS
Rent and Services	\$ 2,684.76	
Gross Salaries	5,100.00	
Social Security, Sales and other taxes.	586.91	\$ 0.51
Stationery, Printing and Postage	3,515.97	
Committee Expenses	50.00	
Miscellaneous	153.60	606.56
Capital Costs	0.00	
<b>2. MEETINGS ACCOUNT</b>		
Annual Meeting & Dinner Dance	5,112.16	4,090.49
Technical Groups	7,166.06	1,088.00
<b>3. PUBLICATIONS ACCOUNT</b>		
Journal	5,366.60	
Forum	3,238.12	
Ads - Journal & Forum		2,150.00
Sales of Journal		967.50
Soil Mechanics		419.50
Reprints	240.60	511.25
Miscellaneous	66.43	
<b>4. OTHER</b>		
Dues		21,599.50
Reimbursement from ASCE National		0.00
Transfer 1/2 Income Continuing Education		872.50
Balance from 1974 Bills Payable Reserve		1,211.94
	<u>\$33,281.21</u>	<u>\$33,517.75</u>
Reserve for 1975 Bills Payable	236.54	
<b>Totals</b>	<u>\$33,517.75</u>	<u>\$33,517.75</u>

Entrance Fees to Permanent Fund = \$520.00

The above receipts have been paid to the Treasurer whose receipt is noted on bank statements held on file. The Secretary holds cash amounting to \$30.00 to be used as a fixed fund for cash on hand.

Respectively submitted,  
Edward B. Kinner, Secretary  
April 13, 1975

**BOSTON SOCIETY OF CIVIL ENGINEERS SECTION  
AMERICAN SOCIETY OF CIVIL ENGINEERS**

**Report of the Treasurer**

**For The Fiscal Year March 1, 1975 to September 30, 1975**

*FINANCIAL STANDING*

The financial standing of the Section is summarized in the following four tables which accompany this report. The tables represent conditions as of the close of business on September 30, 1975.

TABLE I	Condensed Statement of Condition (Assets, Liabilities and Funds.)
TABLE II	Condensed Statement of Income and Expenditures, Distribution of Funds.
TABLE III	Portfolio of Investments.
TABLE IV	Income and Yield from Investments.

*SOCIETY INVESTMENTS*

The Boston Safe Deposit and Trust Company continues to provide us with investment management and custodian services for the portfolio of securities owned by the Section, and has furnished us with a certified audit of the list of securities.

The Investment Division of the Boston Safe Deposit and Trust Company reviews our portfolio of securities periodically. The general policy for handling the portfolio continues to be reasonable income consistent with maintenance of principal, including reasonable growth rate. During the year an interest bearing account was opened for the deposit of cash income from securities.

*AUDIT*

The Auditing Committee has reviewed the Treasurer's account book, bills paid by the Treasurer, receipts from the Secretary, the Savings Bank Passbooks, the Checkbook, and the list of investments of the Section. The information contained in this report has been verified.

*INVESTMENT FUNDS INCOME ACCOUNT (CASH)  
(Boston Safe Deposit & Trust Co., Custodian)*

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Balance March 1, 1975			\$7,915.63
Custodian Service Charge	\$ 553.46		
Transfer to Int. Bearing Acct.	12,026.08		
Dividends from stock		\$5,115.46	
Interest from Bonds		\$1,320.30	
Total	\$12,579.54	\$6,435.76	
Balance September 30, 1975			\$1,771.85

**INVESTED INCOME ACCOUNT (INTEREST BEARING)**  
(Boston Safe Deposit & Trust Co., Custodian)

This new account is cash available for investment, but draws interest rather than being idle. Transfers are made from the cash income account by the custodian.

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Balance March 1, 1975			\$ 0.00
Transfer from Cash Account		\$12,026.08	
Interest to 9-30-75		123.34	
Total	\$ 0.00	\$12,109.42	
Balance September 30, 1975			\$12,109.42

**INVESTMENT FUNDS PRINCIPAL ACCOUNT**  
(Boston Safe Deposit & Trust Co., Custodian)

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Balance March 1, 1975			\$482.99
Balance September 30, 1975			\$482.99

**SAVINGS ACCOUNT**  
(First Fed. Savings & Loan Assn. of Boston)

This account is used for cash available for investment and for excess balance in checking account, providing income while available for operating expenses.

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Balance March 1, 1975			\$3,646.09
Interest		\$108.32	
Balance September 30, 1975			\$3,754.41

**SAVINGS ACCOUNT**  
(Union Warren Savings Bank)

This account is money available for Student Loans. (former Mass. Section)

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Balance March 1, 1975			\$2,955.63
Interest		\$92.73	
Total	\$ 0.00	\$92.73	
Balance September 30, 1975			\$3,048.36

**CURRENT FUND ACCOUNT**

This is the operating account of the Section. The account is provided with a balance of \$3,000 at the beginning of the fiscal year, to insure that operations may be carried on until regular income is received.

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Balance March 1, 1975			\$3,000.00
Office Expense	\$12,091.24*		
Meetings Expense	12,278.22*		
Publications Expense	8,911.75*		
Received from Secretary		\$31,433.31*	
Transfer ½ Income Contin. Ed. Acct.		872.50	
Credit for 1974 Bills Payable		1,211.94	
Reserve for 1975 Bills Payable	236.54		
Total	\$33,517.75	\$33,517.75	
Balance September 30, 1975			\$3,000.00

\*The membership and others interested are referred to the report of the Secretary for a detailed breakdown of the income and expense 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 to the Custodian Bank.

Receipts from entrance fees are credited to the principal of this fund.

	<i>Debit</i>	<i>Credit</i>	<i>Book Value</i>
Book Value March 1, 1975			\$74,113.85
Custodian Service Charges	\$229.32		
Interests & Dividends		\$2,762.68	
Entrance Fees		520.00	
Total	\$229.32	\$3,282.68	
Book Value September 30, 1975			\$77,167.21

The Permanent Fund share of income from interest and dividends was approximately 41% and it is anticipated that next year's share will remain the same.

*JOHN R. FREEMAN FUND*

The Freeman Fund also receives income from investments and pays its portion of service charges. The cost of the Freeman Lecture is paid from this fund.

	<i>Debit</i>	<i>Credit</i>	<i>Book Value</i>
Book Value March 1, 1975			\$59,526.48
Custodian Charges	\$184.18		
Interest & Dividends		\$2,218.93	
Total	\$184.18	\$2,218.93	
Book Value September 30, 1975			\$61,561.23

*THOMAS R. CAMP FUND*

The Camp Fund receives income from investments and pays its portion of service charges. The costs of the Camp Memorial Lecture are paid from this fund.

	<i>Debit</i>	<i>Credit</i>	<i>Book Value</i>
Book Value March 1, 1975			\$11,255.55
Custodian Charges	\$34.84		
Interest & Dividends		\$419.57	
Total	\$34.84	\$419.57	
Book Value September 30, 1975			\$11,640.28

*BORING DATA FUND*

No expenditures were made from this fund during the year.

Balance March 1, 1975	\$1,576.11
Received from Book Sales	19.70
Balance September 30, 1975	\$1,595.81



*OTHER ASSETS*

The Section owns no real estate, and rents its office space. It owns office furniture and equipment. The value of this furniture and equipment is not included in this report.

*OTHER FUNDS*

The members are referred to the Report of the Board of Government for information concerning the remaining funds, and for their purposes.

Table II gives a summary of Income, Receipts, and Expenditures of all funds.

Respectfully Submitted  
Joseph F. Willard, Treasurer

**TABLE I**  
**CONDENSED STATEMENT OF CONDITION**  
**ASSETS — LIABILITIES AND FUNDS**  
**September 30, 1975**

**ASSETS**

	BOOK VALUE		MARKET VALUE	
	9-30-75	2-28-75	9-30-75	2-28-75
First National Bank of Boston (Checking Acct.)	\$ 6,541.42	\$ 2,964.11	\$ 6,541	\$ 2,964
Suffolk-Franklin (NOW)	1,339.35	—	1,339	—
Boston Safe Dep. & Tr. Co. (Custodian Acct.)				
Bonds	52,684.69	52,684.69	37,227	37,896
Stocks	118,832.23	118,832.23	126,366	121,871
Cash.— Custodian Acct.	2,254.84	8,398.62	2,255	8,399
Invested Income Acct.	12,149.42	—	12,150	—
First Fed. Sav. and Loan				
Assn. of Boston	3,754.41	3,646.09	3,755	3,646
Union Warren Savings Bank	3,048.36	2,955.63	3,048	2,956
Cash	30.00	30.00	30	30
Total Assets	\$200,634.72	\$189,511.37	\$192,711	\$177,762

**LIABILITIES AND FUNDS**

Permanent Fund	\$ 77,167.21	\$ 74,113.85	\$ 73,860	\$ 69,246
John R. Freeman Fund	61,561.23	59,526.48	58,924	55,616
Edmund K. Turner Fund	3,225.22	3,118.63	3,087	2,914
Desmond Fitzgerald Fund	5,715.02	5,794.80	5,473	5,414
Alexis H. French Fund	3,190.07	3,084.63	3,054	2,882
Clemens Herschel Fund	2,060.44	2,021.59	1,972	1,889
Edward W. Howe Fund	3,524.81	3,408.30	3,374	3,184
William P. Morse Fund	5,300.10	5,318.81	5,073	4,969
Frank B. Walker Fund	1,591.35	1,539.65	1,523	1,438
Ralph W. Horne Fund	4,720.86	4,564.82	4,517	4,265
Lectures Fund	5,294.03	5,117.05	5,068	4,783
Thomas R. Camp Fund	11,640.28	11,255.55	11,142	10,516
SUB TOTAL Invest. Funds	\$184,990.52	\$178,864.66	\$177,067	\$167,116
Contin. Education Fund	\$ 1,158.70	\$ 286.20	\$ 1,159	\$ 286
Boring Data Fund	1,595.81	1,576.11	1,596	1,576
Current Fund	3,000.00	3,000.00	3,000	3,000
Secretary's Change Fund	30.00	30.00	30	30
Student Loan Fund	4,286.98	4,194.25	4,287	4,194
Current Fund - Res. for Bills Payable	236.54	1,211.94	236	1,212
Bills Payable - With. from wages, etc.	704.95	348.21	705	348
Group Lecture Funds Balance	4,631.22	—	4,631	—
TOTAL LIABILITIES AND FUNDS	\$200,634.72	\$189,511.37	\$192,711	\$177,762

TABLE II.  
 CONDENSED STATEMENT OF INCOME AND EXPENDITURES — DISTRIBUTIONS OF FUNDS  
 Fiscal Year March 1, 1975 through September 30, 1975

FUND	BOOK VALUE			INCOME AND RECEIPTS			EXPENDITURES		Transfers from Funds	BOOK VALUE Sept. 30, 1975
	Mar. 1, 1975	Interest Dividends	Receipts	Transfers to Funds	Custodian Service Charges	Expenditures				
Permanent Fund	\$ 74,113.85	\$2,762.68	\$ 520.00		\$229.32					\$ 77,167.21
John R. Freeman Fund	\$ 59,526.48	\$2,218.93			\$184.18					\$ 61,561.23
Edmund K. Turner Fund	3,118.63	116.25			9.66					3,225.22
Desmond Fitzgerald Fund	5,794.80	216.01			17.94	\$ 277.85				5,715.02
Alexis H. French Fund	3,084.63	114.98			9.54					3,190.07
Clemens Herschel Fund	2,021.59	75.36			6.26	30.25				2,060.44
Edward W. Howe Fund	3,408.30	127.05			10.54					3,524.81
William P. Morse Fund	5,318.31	198.25			16.46	200.00				5,300.10
Frank B. Walker Fund	1,538.65	57.36			4.76					1,591.25
Ralph W. Home Fund	4,564.82	170.16			14.12					4,720.86
Lectures Fund	5,119.05	190.82			15.84					5,294.03
Thomas R. Camp Fund	11,255.55	419.57			34.84					11,640.28
SUB TOTAL Investment Funds	\$178,864.66	\$6,657.42	\$ 520.00		\$553.46	\$ 508.10				\$184,990.52
Contin. Education Fund	286.20		1,745.00						872.50	1,158.70
Boring Data Fund	1,576.11		19.70							1,595.81
Student Loan Fund	4,194.25	92.73								4,286.98
Current Fund	{ 3,000.00		31,433.31	872.50		33,281.21				3,000.00
Current - Res. for Bills*	{ 1,211.94			*		*				236.54
Secretary's Change Fund	30.00									30.00
Bills Payable - with., etc.	348.21		704.95			348.21				704.95
Group Lectures (Untransferred)			7,350.00			2,718.78				4,631.22
Total	\$189,511.37	\$6,760.15	\$41,772.96	\$872.50	\$553.46	\$36,856.30		\$872.50	\$872.50	\$200,634.72

\*Reserves included in Current Fund

**TABLE III**  
**PORTFOLIO OF INVESTMENTS**

**BONDS**

	BOOK VALUE		MARKET VALUE	
	9-30-75	3-1-75	9-30-75	3-1-75
Assoc. Invest. Co. 5½-79, Deb.	\$ 6,000	\$ 6,000	\$ 5,062	\$ 4,868
Flintkote Co. 4½-81, Deb.	10,450	10,450	7,650	8,262
Florida Power Corp. 3½-84, 1st. Mort.	1,018	1,018	609	610
Florida Power Corp. 3½-86, 1st. Mort.	5,038	5,038	2,938	3,038
Georgia Power Corp. 3½-77, 1st. Mort.	5,154	5,154	4,331	4,087
Marine Midland Corp. 3½-77, 1st. Mort.	5,000	5,000	3,025	3,381
Montreal Quebec Imp. 6%-87, Deb.	10,075	10,075	7,500	7,425
Orange and Rockland 6½-97, 1st. Mort.	9,950	9,950	6,112	6,225
Total	\$52,685	\$52,685	\$37,227	\$37,896

**PREFERRED STOCK**

International Tel. & Tel.	\$ 1,534	\$ 1,534	\$ 5,350	\$ 5,457
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**COMMON STOCK**

American Tel. & Tel.	\$ 4,332	\$ 4,332	\$ 11,469	\$ 12,594
Clark Equipment Co.	12,287	12,287	10,550	11,000
General Motors Corp.	9,131	9,131	8,500	6,630
Boise Cascade	9,802	9,802	3,872	2,610
Illinois Power Co.	11,591	11,591	5,750	5,500
Int. Business Machines	11,803	11,803	11,860	13,577
McGraw Edison Co.	14,211	14,211	7,500	5,150
B. F. Saul Real Estate Invest. Trust	10,500	10,500	1,562	1,750
New England Electric System	7,505	7,505	6,399	6,086
Newmont Mining Corp.	12,549	12,549	12,062	10,562
Exxon	1,977	1,977	17,500	15,475
Texaco	1,516	1,516	11,092	12,331
Warner Lambert Pharm. Co.	9,937	9,937	12,800	13,050
W. R. Grace & Co.	156	156	100	99
Total	\$117,297	\$117,297	\$121,016	\$116,414

**SAVINGS ACCOUNTS**

First Fed. Sav. & Loan Assoc.	\$ 3,755	\$ 3,646	\$ 3,755	\$ 3,646
Union Warren Sav. Bank	3,048	2,956	3,048	2,956
Total	\$ 6,803	\$ 6,602	\$ 6,803	\$ 6,602

**CASH**

First Nat. Bank of Boston (Checking)	\$ 6,541	\$ 2,964	\$ 6,541	\$ 2,964
Bos. Safe Dep. & Tr. co. (Custodian Acct.)	2,255	8,399	2,255	8,399
Bos. Safe Dep. & Tr. Co. (Invested)	12,150	—	12,150	—
NOW Account (Suffolk-Franklin)	1,339	—	1,339	—
Secretary's Change Fund	30	30	30	30
Total	\$ 22,315	\$ 11,393	\$ 22,315	\$ 11,393
Grand Total	\$200,634	\$189,511	\$192,711	\$177,762

**TABLE IV**  
**INCOME AND YIELD FROM INVESTMENTS**

	<i>Estimated Income</i>	<i>Yield On Current Market Value</i>
<b>BONDS 19.7%</b>		
Assoc. Investment Co.	\$ 307.50	6.1%
Flintkote Co.	462.50	6.1
Florida Power Corp. 3½-84	31.25	5.1
Florida Power Corp. 3½-86	193.75	6.6
Georgia Power Corp.	168.75	3.9
Marine Midland Corp.	250.00	8.4
Montreal Quebec Imp.	600.00	8.0
Orange & Rockland	650.00	10.6
Total	\$2,663.75	7.2%
<b>PREFERRED STOCK 2.8%</b>		
Int. Tel. & Tel.	\$ 481.50	9.1%
<b>COMMON STOCK 64.2%</b>		
Am. Tel. & Tel.	\$ 850.00	7.4%
Clark Equip. Co.	640.00	6.1
General Motors Corp.	408.00	4.8
Boise Cascade	113.10	2.9
Illinois Power Co.	550.00	9.6
Int. Business Machines	441.00	3.7
McGraw Edison Co.	480.00	6.4
B.F. Saul Real Estate Invest. Tr.	0.00	0.0
New England Electric System	637.24	9.9
Newmont Mining Corp.	800.00	6.6
Exxon	1,060.00	6.1
Texaco	991.20	9.0
Warner Lambert Pharm Co.	368.00	2.9
W.R. Grace Co.	6.40	6.4
Total	\$7,344.94	6.1%
<b>SAVINGS ACCOUNTS 13.3%</b>		
First Fed. Sav. & Loan	220.00	5.5%
Union Warren	165.00	5.5
Suffolk-Franklin "NOW"	300.00	5.0
Bos. Safe Deposit - Invested Income Acct.	660.00	5.5
Total	\$1,345.00	5.4%

TOTAL YIELD FROM INVESTMENTS ESTIMATED 6.3%

# ANNUAL REPORTS OF COMMITTEES

## ANNUAL REPORT OF THE ACTION PROGRAM-PROFESSIONAL PRACTICE COMMITTEE, 1975-1976

The Action Program-Professional Practice Committee derives from the combination of the Action Program Committee of the Massachusetts Section ASCE and the Professional Practice Committee of BSCE. This is the first full year of operation of the combined committee. Following recommendations of our preceding committees, the committee was organized with representatives from the technical groups. Members for the year 1975-1976 were as follows:

William S. Zoino	Committee Chairman/Board of Government Representative
Frank Killilea, Jr.	Construction Group
Robert A. Wells	Computer Group
Peter Knowlton	Environmental Group
David Thompson	Geotechnical Group
Dominic D'Eramo	Structural Group
Maurice Freedman	Transportation Group
Ara Shestnian	General Membership
Howard Perkins	General Membership/Advisor Professional Practice
Rubin Zallen	General Membership/Advisor Action Program

The committee members were very active over the past year, particularly in areas requiring interprofessional contact between the engineering societies and state government. Major activities of the Committee were as follows:

1. The Committee held meetings with the Massachusetts Society of Professional Engineers (MSPE); the Consulting Engineers Council of New England (CECNE); the Massachusetts Association of Land Surveyors and Civil Engineers (MALSE); and the State Board of Registration of Professional Engineers, for the purpose of making recommendations to the Governor on qualified appointments to the Board of Registration of Professional Engineers and Land Surveyors. Response was received from the Governor's office and the Secretary of Consumer Affairs that the recommendations of BSCES were considered. To date, two of our recommendations were followed and two are pending.
2. In conjunction with the Geotechnical Group, the Committee sponsored a meeting on professional practice. This was the January 21, 1976 meeting with William Shannon of Shannon & Wilson as principal speaker, on professional liability and loss prevention programs for a consulting firm. The meeting was held at Harvard University and was attended by 120 members and guests. Mr. Shannon's talk included case histories of professional liability problems. Discussers included Charles A. Parthum, Woodrow W. Wilson, and William McTigue. The organizing committee consisted of David Thompson, Frank Killilea, and Charles Flavin; William Zoino was the moderator.
3. The Committee represented the Board of Government at a February 24, 1976 meeting of the Construction Materials Safety Board of the State Building Code Commission. Recommendations were made to the Commission on the accreditation of concrete testing laboratories as outlined by the Board of Government. Our action was taken in concert with the Massachusetts Concrete Industry Board (MCIB).
4. The Committee worked with Maurice Freedman of the Transportation Group to support the December 5, 1975 Conference on Massachusetts Growth and Development Policy held at the Parker House. Governor Dukakis was the keynote speaker.
5. The Committee corresponded with Governor Michael Dukakis concerning the retention of the office of State Geologist. Unfortunately, the Governor did not follow our strong voice of support. The office of State Geologist will not be continued.
6. The Committee made recommendations to the Commissioner of the Massachusetts Department of Commerce and Development for replacement of the professional engineer

member on the State Industrial Finance Board. This appointment is still pending.

The Committee recommends that the succeeding committee continue liaison with interprofessional groups and in particular keep abreast of proposed regulations and activities of the State Building Code Commission, and legislative activities that may affect engineers during the forthcoming year.

Respectfully submitted,  
William S. Zoino, Chairman

### **ANNUAL REPORT OF ADVERTISING COMMITTEE, 1975-1976**

The advertising committee has continued to renew advertisements in the *Journal* to a satisfactory degree. Efforts to significantly increase advertising in the Forum have not been successful to date. A revamping of the Forum rates to conform more closely to those of the *Journal* has been recommended.

Respectfully submitted  
Robert M. Fitzgerald, Chairman

### **ANNUAL REPORT OF THE ASCE/AGC LIAISON COMMITTEE, 1975-1976**

The Joint Committee held long meetings, up to three hours each, on March 18, April 15, May 15, September 18, October 16, November 20, and December 18, 1975; and on January 15 and February 19, 1976. A meeting is scheduled for March 18, 1976.

The primary matter considered in these meetings has been a review of the NSPE's Standard General Conditions of the Construction Contract (1974 Edition). Our intent is to eventually recommend this document for use by members of BSCES with certain changes as agreed upon in the Joint Committee.

In addition, matters of current interest to the two societies were discussed. The item of major interest and effort has been our efforts to block the attempts to require a mechanical filed sub-bid on Massachusetts Public Works jobs. The other major subject was the attempts being made by some contractors and suppliers to subvert the "or equal" clause in Massachusetts Public Work jobs, and substitute materials of construction other than those specified.

Respectfully Submitted  
W. W. Whilson  
BSCES Co-Chairman

### **ANNUAL REPORT OF ASSOCIATE MEMBER FORUM, 1975-1976**

This year, activities of the AMF were drastically curtailed due to a lack of participation. As in past years, the group has not been able to attract new members. Part of the problem has been the feeling that the group does not have a purpose. Next year, the AMF Steering Committee plans to distribute a questionnaire to all of the younger members of BSCES which will seek their comments for proposed activities and solicit their participation.

The AMF was successful this year in sponsoring its annual clambake, attended by approximately 200 people. In addition, members of the AMF Steering Committee continued to participate on other BSCES committees.

Respectively Submitted,  
David L. Freed, Chairman

### **ANNUAL REPORT OF AUDITING COMMITTEE, 1975-1976**

The Auditing Committee met with Mr. Joseph Willard on March 23, 1976.

We have reviewed the records and accounts of the Secretary and Treasurer of the Boston Society of Civil Engineers Section, American 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 found them to be in order and to account accurately for the Section's Funds.

Respectfully submitted,  
Anthony J. DiSarcina and Charles H. Flavin

### **ANNUAL REPORT OF THOMAS R. CAMP FUND COMMITTEE 1975-76**

In lieu of selecting one speaker for the annual Thomas R. Camp Lecture the committee, in cooperation with the Environmental Group, sponsored a series of twelve lectures on waste water treatment and disposal and designated them as the Thomas R. Camp Lecture Series. The lectures were held every Tuesday evening at Massachusetts Institute of Technology from January 13 to March 30, 1976. Details as to speakers and attendance are covered in the annual report of the Environmental Group.

Respectively Submitted,  
Leo F. Peters, Chairman

### **ANNUAL REPORT OF CLAMBAKE COMMITTEE, 1975-1976**

The annual clambake turned out to be a complete success this year after its cancellation the previous year. The event was held on July 31, 1975, at Middlesex Fells in Stoneham, Massachusetts. Approximately 200 people attended the bake. Woodman's Inc. of Essex, Massachusetts catered a four course meal, topped off by lobster and chicken. The bake started off with a social hour at 4:30 followed by the meal at 6:00.

Respectfully Submitted,  
David L. Freed, Chairman

### **ANNUAL REPORT OF CONSTITUTION AND BYLAWS COMMITTEE, 1975-1976**

During the past year, in response to several inquiries by the President, the committee reviewed and reported to the Board of Government on the interpretation of portions of the Constitution and Bylaws.

Respectfully submitted,  
Max D. Sorota, Chairman

### **ANNUAL REPORT OF THE CONTINUING EDUCATION COMMITTEE, 1975-1976**

The Continuing Education Committee again offered the professional engineers refresher course in the Spring and Fall of 1975. Both sessions were well received.

The committee served as host to the ASCE National Continuing Education Committee in its session on "Operating a Consulting Firm" held in Boston, April 18-19, 1975.

Continued and expanded programs are anticipated for the coming year.

Respectfully submitted,  
Ronald E. Sharpin, Chairman



## ANNUAL REPORT OF DINNER DANCE COMMITTEE, 1975-1976

The 14th Annual Dinner Dance was held at the 57 Restaurant on November 29, 1975. One hundred forty-four members and guests enjoyed the dinner and dance to the music of Baron Hugo's Orchestra.

The 15th Annual Dinner Dance has been scheduled at the same location for October 23, 1976.

Respectfully submitted,  
Frank J. Cullati, Chairman

## ANNUAL REPORT OF DISADVANTAGED YOUTH COMMITTEE, 1975-1976

### *General Information:*

The 1975-76 BSCES Disadvantaged Youth Committee was composed of the following members:

Richard J. Scranton, Chairman  
Leroy M. Cahoon  
Walter J. Hickey  
Robert F. Pelletier  
Bruce Tobiasson

### *Activities:*

The major activity of the committee during the past year has been continuation of a program begun last year by which "Disadvantaged Youth" would be employed by local civil engineering firms.

At the close of last year's activities, several job commitments had been obtained from Boston area firms. Entry level positions (but, with the promise of further development and commensurate advancement) were provided by the following firms and filled by candidates obtained by the committee:

Camp, Dresser & McKee, Inc.  
CE Maguire Inc.  
Chas. T. Main Inc.  
Parsons, Brinckerhoff, Quade & Douglas, Inc.  
Whitman & Howard Inc.

The candidates who filled these positions were located through the United States Veterans Administration and the Opportunities Industrialization Center of Boston (OIC). All five positions were obtained through the pilot program initiated last year during which our proposal was sent to ten firms.

Continuing this program during 1975-76, a modified proposal (see Enclosure #1) was sent to fifty-five additional civil engineering firms in the Boston area. Although support for our program was expressed by many firms, economic conditions prevented most from participating. The enclosure describes the history, design and rationale thoroughly. The following two firms, however, did agree to participate:

Badger Corporation  
Schoenfeld Associates, Inc.

The Disadvantaged Youth Committee is seeking to provide candidates for these positions.

### *Comments:*

The committee has recommended that BSCES attempt to establish a cooperating network of committees such as ours from the many local professional societies representing other engineering disciplines. By pooling committed job opportunities it appears possible for OIC to run a

training program in basic technical skills for candidates, thus relieving some the present training burden from participating firms.

Respectfully submitted,  
Richard J. Scranton, Chairman

(Editor's Note: the enclosures mentioned are not being published because of their volume, but copies may be obtained from the Chairman.)

### ANNUAL REPORT OF JOHN R. FREEMAN FUND COMMITTEE, 1975-1976

The Committee, at its November 13, 1975 meeting, awarded Hunter Rouse the first Freeman Hydraulics Prize, \$2,000, for his new book, *Hydraulics in the United States, 1776-1976*. Chapters of the book will be published in successive issues of the *Journal*, beginning with the April 1976 issue, and a hardcover edition of the entire book will be published by the Iowa Institute of Hydraulic Research in 1976.

Jonathan French's paper, *Flow Approaching Filter Washwater Troughs*, was given an Honorary Mention citation and is being published in the January 1976 *Journal*.

On November 18, 1975, the Society broadly distributed a Press Release announcing the award and the fact that Prizes will be considered every year for exceptional papers submitted and received by the end of June. Papers must concern hydraulic engineering. A thesis should be presented, its historic development traced, its theoretical basis explained, detailed practical examples of its application given, and pitfalls it might help to avoid cited. Originality is sought but superior presentation of the state-of-the-art is perfectly acceptable. Quality of illustration and editing is important.

The Committee is considering additional applications of the Freeman Fund revenue and seriously invites suggestions from Members and the profession at large.

Respectfully submitted,  
Lee Marc G. Wolman, Chairman

### ANNUAL REPORT OF HISTORY AND HERITAGE COMMITTEE, 1975-1976

At the start of the year, one site in our area had just been designated as a National Historic Civil Engineering Landmark, and two more were pending; the latter two have since been designated. The presentations for all three of these sites were the work of Simon Kirshen who stepped down from the chairmanship of the committee after many years of valuable service. Mr. Kirshen continued on the committee but passed away on October 23rd last.

On October 21, 1975, the Lawrence Experiment Station received the plaque marking it as a National Historic Civil Engineering Landmark at ceremonies attended by officials of the Commonwealth, ASCE and BSCES.

On April 1st, the presentation ceremonies for the Granite Railway will take place in Quincy, and on July 2nd at North Adams for the Hoosac Tunnel with ceremonies in which Canadian as well as ASCE and BSCES officials will participate. Gary S. Brierley of the Committee is in charge of arrangements relating to the Hoosac Tunnel.

For all three Landmarks, slide presentations are being prepared for ASCE to be part of its slide program on National Historic Civil Engineering Landmarks nationally.

Work has started on the nominations of additional important engineering sites in our area, in recognition of their significance in the history of civil engineering, but even more as a tribute to the eminent engineers who created these pioneering works.

Respectfully submitted,  
H. H. Holly, Chairman

### **ANNUAL REPORT OF RALPH W. HORNE FUND COMMITTEE, 1975-1976**

This is the Tenth Annual Report of the Ralph W. Horne Fund Award Committee which was formed in 1964 when the Boston Society of Civil Engineers received from Fay, Spofford & Thorndike, Inc., a grant of \$3,000 to finance recognition of an individual member of the Society having been outstanding in unpaid public service in municipal, state or federal elective or appointive posts, or in philanthropic activity in the public interest.

Although the Award was publicized in the FORUM, no nominations have been received which meet all qualifications for the Award, in the opinion of the Committee. Therefore, the Committee has no recommendations to make for a recipient this year.

We urge that members of the Society come forward with nominations during the coming year.

Respectfully submitted,  
Harl P. Aldrich, Chairman

### **ANNUAL REPORT OF INTERSOCIETY COMMITTEE ON ENGINEERING PROFESSIONALISM, 1975-1976**

This committee was active for the first part of the year. It accepted National ASCE's standard grade descriptions for engineering personnel which are compatible with those of the US Department of Labor Bureau of Labor Statistics (BLS) and the National Society of Professional Engineers (NSPE). Work toward such a standardization was initiated by our group in 1974 through the efforts of R. Lawrence Whipple, now of National ASCE, a former member of this committee.

In March 1975, a state agency issued a letter to engineering firms stating that cost-of-living salary adjustments to personnel on cost plus contracts would not be approved. In practice this denied the right of consultants to give merit increases. The policy inhibited the program of this committee to implement a schedule of improved salary levels adopted and recommended by the American Society of Civil Engineers and National Society of Professional Engineers. Both of the national organizations supported the activities of this section.

As a result, the efforts of this committee came to a complete halt and very little activity followed. Many firms and agencies formed groups to overturn the "no-raise" policy, but to no avail. The committee is planning to reorganize and try to exert proper influence so that the proposed program of engineers' compensation can be realized.

Respectfully Submitted,  
Bertram Berger, Chairman

### **ANNUAL REPORT OF THE INVESTMENT COMMITTEE, 1975-1976**

During the past year no changes in the securities owned by the Section have been made. An interest bearing account has been opened for us by the custodian for the deposit of cash income from the securities. The Boston Safe Deposit and Trust Company continues to be custodian of our account.

Following the recommendation of the Investment Management Review Committee, the membership of the Investment Committee has been increased to five. The other recommendations of the Review Committee should be followed during the coming year.

Respectfully submitted,  
Joseph F. Willard, Chairman

### ANNUAL REPORT OF JOURNAL EDITOR, 1975-1976

As stated in an announcement in the *Journal* issue of April 1975, there was no issue bearing the date of January 1975. Hence, Volume 62 started with the issue of April 1975 and continued with the issues of July and October 1975 and January 1976. Volume 63 will start with the issue of April 1976.

I started work as your new editor with the July 1975 issue, and still have much to learn about the business. I would appreciate suggestions about general appearance, format, type face, etc.

Solicitation, review, and acceptance of technical papers is a concern of the Technical Groups and of the Publications Committee. I think we can all take pride in the quality of papers being published, but efforts must continue to keep them coming.

We hope soon to begin installment publication of the book-length paper that won the John R. Freeman prize award in 1975. Another new idea that we are trying to work out is the publication of a membership directory.

As of the April 1976 issue we shall have had three cancellations of professional cards in the last year (out of 51) and the loss of one and one-quarter pages of other advertising (out of five) without any replacements. Subscriptions from non-members are holding even at about 300.

Respectfully submitted,  
Edward C. Keane

### ANNUAL REPORT OF KEY MAN COMMITTEE, 1975-1976

The Key Man Committee acts as a rapid line of communication between the Society and its members in local firms. Its primary purpose is to remind members of upcoming meetings or events of the Society.

At present there are 65 firms or institutions with key men tied into the committee and the effectiveness in boosting attendance at society functions appears to be quite satisfactory.

Respectfully submitted,  
Donald F. Dargie, Chairman

### REPORT OF BSCES REPRESENTATIVE TO THE MASSACHUSETTS CONSTRUCTION INDUSTRY COUNCIL

The MCIC organized a task force to study the reasons for poor economic growth of the construction industry in Massachusetts. Specifically, the funds available for projects were to be identified, along with any bottlenecks which prevented the projects from moving ahead at a reasonable rate.

The task force was broken up into a number of committees. The writer was appointed chairman of the committee to study funding of Environmental Protection Agency (EPA) projects.

Our committee identified approximately \$400 million dollars of unobligated EPA funds which would have to be obligated by September, 1977, or the state would lose the money. There are more than enough projects available to use the funds, however, plans must be devised to insure that all phases of these projects move along as rapidly as possible. The state has adopted a priority list of projects, also back-up projects. Monitors were assigned to the projects in order to track their progress.

Recommendations made by our committee relative to reducing the bottlenecks on the projects were:

1. Action must be taken to reduce the time used by state and EPA personnel to review and approve the projects.
2. The state is deficient in manpower required to carry out the necessary reviews and should increase the staff.

3. We concurred with the establishment of a priority list of projects, and monitors to keep them moving.

Respectfully submitted,  
Warren H. Ringer  
BSCES Representative to MCIC

### **ANNUAL REPORT OF MEMBERSHIP COMMITTEE, 1975-1976**

The Membership Committee focused its efforts during this year on executing the dual membership program developed by the merger of BSCE with Massachusetts Section ASCE.

The admission of applicants as affiliate members, although allowed by the BSCES Constitution, has stirred concern within the Board of Government. In order to encourage all applicants to become members of National, the membership Committee Chairman has been directed by the Board of Government of BSCES to ask each affiliate applicant if he or she has considered joining ASCE, prior to recommending an affiliate Membership Application.

No active membership drive was undertaken. Applicants were either references from National or had obtained applications on their own initiative from BSCES headquarters.

A section membership promotional program, such as an "office rep" campaign, should be developed during this coming year.

Respectfully submitted,  
Paul J. Bourque, Chairman

### **ANNUAL REPORT OF NEW QUARTERS COMMITTEE, 1975-1976**

Earlier this year the Boston Society of Civil Engineers Section combined its office staff with that of the Consulting Engineers Council of New England. This resulted in a saving of \$3,000 to \$5,000 per year on operating costs of the two organizations. Also it provides complete coverage of the offices by a full time secretary and the Executive Director.

Over the last six months BSCES-CECNE representatives have been meeting with the Mass. Society of Professional Engineers staff with a view to combining quarters. The organizations have requested from their respective building managements proposals on future rentals, cost of building services, improvements, etc., length of leases, escalation clauses, etc., for rental space almost doubling what each now occupies (approximately 2000 S. F.). Also it has made contact with other building managers within the city. The committee is hopeful that this might be the beginning of centralizing many engineering society operations in one location.

Respectfully submitted,  
Bertram Berger, Chairman  
Charlotte Dalrymple, BSCES Executive Director

### **ANNUAL REPORT OF NEWSLETTER COMMITTEE, 1975-1976**

During the past year, quarterly publication of the newsletter *The FORUM* was continued; however, one was a joint issue. Issues published since the previous annual report were as follows:

Volume	Number	Number of Pages	Date
6	2 & 3	12	April/July 1975
6	4	6	November 1975
7	1	12	February 1976

The Newsletter Editorial Board consisted of Peter J. Riordan, Editor, and David H. Treadwell, Lewis Edgers, Thomas A. Joyce, Robert M. Fitzgerald and Paul Bourque, Contributing Editors.

The complete publication of the FORUM was handled by Copley Business Service, Inc., Boston for all issues. This included typesetting, composition, printing, and mailing. These services were provided in an expeditious manner.

Messrs. Bourque, Joyce, and Fitzgerald will continue as members of the Editorial Board for the coming year and Mr. Bourque has been recommended as Editor and Chairman of the Newsletter committee. It is considered essential however that new members be appointed to the Board to assist Mr. Bourque for the coming year.

Respectfully submitted,  
Peter J. Riordan

### ANNUAL REPORT OF NOMINATING COMMITTEE, 1975-1976

The 1975 - 1976 Nominating Committee carried out its business for the year in meetings on August 8, 1975 and January 22, 1976 and through continuing telephone conferences and correspondence throughout the year. The Committee acted on endorsement of six nominees for National Committees, nominations for the 1976 - 1977 BSCES slate of officers, and preparation of papers for submittal next year of a nominee for ASCE Honorary Membership. Edward B. Kinner was nominated to replace Lee N. Worth in the position of Secretary of BSCES. Mr. Worth resigned his office because of his move to Texas.

The Committee's endorsements were as follows:

#### *National Committees*

Thomas K. Liu	Programs for Professional Sessions
Ronald C. Hirschfeld	Interchange Between Education and Practice
Richard Scranton	Student Services
Henry Poydar	Technician and Technology Education
Joseph D. Guertin	Registration of Engineers
Charles A. Parthum	Standards of Practice

#### *For BSCES 1976 - 1977 Officers*

President:	Bertram Berger
Vice-President:	Howard Simpson (2 yr)
Secretary:	Edward B. Kinner
Treasurer:	Saul Namyet
Director:	Maurice Freedman (2 yr)
Director:	Frank Perkins (2 yr)

#### *For Nominating Committee*

Peter J. Riordan  
Rubin Zallen  
John Christian  
Kenneth Leit  
Leo Peters  
Saul Cooper

The 1976 - 1977 Nominating Committee will be comprised of the following individuals:

Charles A. Parthum  
Thomas K. Liu  
Max D. Sorota  
Ronald C. Hirschfeld  
Steve J. Poulos  
R. Lee Dye  
Rodney Plourde

*(Plus three new members to be elected in the Spring of 1976)*

For the Committee,  
Joseph D. Guertin, Jr. Clerk

## ANNUAL REPORT OF THE PROGRAM COMMITTEE, 1975-1976

This was the second year the Program Committee functioned. This committee coordinates the activities of the Technical Groups and other special committees regarding meeting dates; joint meetings with technical groups, other societies and agencies; expenditures; and committee reports.

The committee is also responsible for the activities of the following:

- Key Man — Chaired by Donald F. Dargie
- Dinner Dance — Chaired by Frank J. Cullati
- Clambake Committee — Chaired by David L. Freed
- Annual Meeting Committee — Handled This Year by BSCES Office.

The Program Committee activities this past year were productive. The Technical Group meetings functioned as scheduled with little conflict with other societies and groups. Besides the regular Technical Group meetings which were scheduled meetings every Wednesday, the following additional lectures and meetings were held:

- Environmental Group: 12-Lecture Series on "Wastewater Treatment and Disposal."
- BSCES: 11-Lecture Series, "Professional Engineers Refresher Course."
- BSCES, Co-sponsor with Boston Transportation Group: May 15, 1975, "Transportation for Handicapped and Disadvantaged."
- BSCES, Co-sponsor with Others: September 22, 1975, a Course on "Cost Engineering."
- BSCES, Co-sponsor with Engineering Societies of New England and Other Societies: December 4, 1975, "Engineering Careers Night."
- BSCES: December 5, 1975. Participated in seminar on "Massachusetts Growth and Development" (Chairman Maurice Freedman).
- Geotechnical Group, Co-sponsor with Association of Engineering Geologists: February 12, 1976, "Geotechnical Group Forum."
- BSCES, Co-sponsor with MIT: February 19, 1976, "Mathis Memorial Lecture."
- BSCES, Co-sponsor with ESNE, MSPE and Other Societies: February 26, 1976, Seminar on "American Ingenuity" at Engineer's Week Luncheon.
- BSCES, Co-sponsor with BTG and American Institute of Planners: April 8, 1976, Seminar at Pier 4 on "Paratransit and Demand-Responsive Systems."

A successful clambake and a dinner dance were held, as reported elsewhere.

This year, as in the past, the Key Man Committee came to the rescue of scheduled but undersubscribed meetings. This committee has been the salvation of many meetings where the mailed notices did not generate enough response.

Respectfully Submitted,  
Bertram Berger, Chairman

## ANNUAL REPORT OF PUBLICATIONS COMMITTEE, 1975-1976

The following is the Annual Report of the Publications Committee, April 1975 to March 1976.

Papers Received	10
Papers Rejected	2
Papers Accepted, Published or in Press	5
Papers Under Review	3

Volume 62 of the *Journal* contained seven technical papers, one presidential address, a copy of the Constitution and Bylaws of the BSCES/ ASCE, two memorials, and the usual proceedings and annual reports.

It appears that the number and general quality of papers submitted for publication in the JOURNAL are not consistent with the overall excellent level of activity of the Technical Groups. If the JOURNAL is to continue to have technical merit, members of the Technical Groups will have to make a greater effort to solicit papers, especially from speakers at their meetings. However, papers do not have to be presented before the Section to be eligible for publication. Moreover, the Board of Government has agreed to publish as a Committee Report the text of reports and recommendations made by any Technical Group or task committee to a public agency so that an official record will be made of the transaction.

Respectively Submitted,  
Charles C. Ladd, Chairman

### ANNUAL REPORT OF THE STUDENT CHAPTER COMMITTEE, 1975-1976

The Student Chapter Committee, under the leadership of Chairman, Stan Rossier had a very successful year as evidenced by this report and the copies of the notes of meetings. Committee members included:

Daniel Donahue  
Lewis Edgers  
Daniel Maciborski  
Richard Scranton  
Stanley Rossier  
Paul Trudeau  
Mark Zuberek

In addition to regular business which includes Student Awards, Student Loans and correspondence with the ASCE Student Chapters in Massachusetts, the Committee sponsored a Student Chapter Caucus on November 4, 1975 at MIT, and a Student Night dinner meeting at the University of Lowell on February 26, 1976.

The Student Chapter Caucus drew together over 30 representatives from eight of the nine Student Chapters in the BSCES area. Dr. Ronald Hirschfeld, past President of the Massachusetts Section of the ASCE presented a talk entitled "Why ASCE?". Dr. Hirschfeld concluded that the main reason for ASCE Student Chapters is to provide communication between the students and the profession. His presentation touched on many items that the Student Chapter could undertake and contained much fuel for thought for the discussion period which followed.

Communication was the theme and the goal of this first Student Chapter Caucus, and communication was attained, at least in terms of introducing the students to the Student Chapter Committee, and through us, the Boston Section. The Caucus made the Student Chapters aware of the existence of the Boston Section and an easy route (i.e. the Student Chapter Committee) for tapping some of its resources for Student Chapter activities. The Student Chapters were informed that articles regarding Chapter activities could be published in the *Forum*, the newsletter of BSCES/ASCE, as a means of communicating successful Chapter activities to each other and to the profession. Northeastern University has already taken advantage of this suggestion as evidenced by the article, "Community Awareness Among Northeastern University Civil Engineers", published in the March 2, 1976 issue of the *Forum*. The Student Chapter Committee hopes to see similar articles published from the Student Chapters in the future.

The Committee also sponsored a Student Night dinner at the University of Lowell on February 26, 1976. Stan Rossier presented the *BSCES Student Awards* for 1975 to the following persons:

Kenneth M. Strzepak  
Charles N. Faulstich  
John Driscoll

Massachusetts Institute of Technology  
Merrimack College  
Northeastern University - Div. A



Arthur Franz	Northeastern University - Div. B
Lawrence A. Kaner	Southeastern Mass. University
Michael C. Loulakis	Tufts University
Richard A. Randlov	University of Lowell
Richard A. Hassett	Wentworth Institute
Robert Medeiros	Worcester Polytechnic Institute

Charles Parthum, President of BSCES, presented the 1976 *BSCES Student Loans*, consisting of \$1,000 each, to David R. Jones and Keat Soon Chew, both members of Northeastern University's Student Chapter. Mr. Parthum also presented the *BSCES Scholarship in Memory of William P. Morse* to Cornelius P. Cronin, Jr. of Tufts University, and the *BSCES Scholarship in Memory of Desmond Fitzgerald* to David J. Crispin and David E. Deans of Northeastern University. John Cusack, ASCE District Director, presented the ASCE *Daniel Mead Award* to Michael C. Loulakis of Tufts.

"Unionism and Civil Engineers" was the topic of the principal speaker at Student Night. Nearly 200 students and engineers travelled to Lowell to hear Mr. Robert L. Patterson of Stone & Webster Management Consultants, Inc. speak on this controversial subject. The essence of the speech was that civil engineers should look not toward unions, but rather to develop a stronger professional association to represent civil engineers, for example, ASCE. Mr. Patterson pointed out clearly that in a union, civil engineers would lose their individuality. Mr. Patterson answered questions from the audience, and in some instances, solicited help from ASCE members in the audience in responding. It is at the point that the Student Chapter Committee feels they should express concern over the unfavorable image of ASCE which was presented to the students at Student Night by representatives of ASCE National. In their responses to student's questions regarding ASCE policies, they appeared defensive, unbending in their views, and unwilling to accept suggestions. The Student Chapter Committee feels that a more enlightened, concerned, and responsive attitude should be fostered. It must be remembered that representatives of ASCE national are rarely encountered by students. The Student Chapter Committee is attempting to open channels of communication with the civil engineering students, and the performance of supposedly well informed ASCE personnel that those of us at Student Night witnessed can only serve to close them.

In 1976 the Student Chapter Committee hopes to sponsor another Caucus in early fall, followed by a meeting or meetings in which a panel of representatives of ASCE national would be available to answer questions about, and hopefully interest students in, ASCE.

Respectfully submitted,  
Paul Trudeau - Secretary  
Student Chapter Committee

# ANNUAL REPORTS OF TECHNICAL GROUPS

## ANNUAL REPORT OF COMPUTER GROUP, 1975-1976

The Computer Group held four meetings during the current year. All of the meetings were held at the Ralph M. Parsons Laboratory for Water Resources and Hydraulics, M.I.T., and were called to order by the Chairman, Jakob Vittands.

*October 1, 1975* — The guest speaker was Mr. Richard T. Rigby of Metcalf & Eddy, Inc. Mr. Rigby spoke of his experience on a project for the New Haven Parking Authority involving the application of a minicomputer as the central control element in a real time parking revenue system. The project involved the design of a control system to serve five separate parking facilities in downtown New Haven in which traffic would be controlled, revenues accounted for, and records on traffic and revenue generated.

*November 19, 1975* This was also an official meeting of the BSCE Section. Mr. Robert Kinner, Section Secretary, announced the designation of two new National Historical Civil Engineering Landmarks: the Middlesex County Canal and the Lawrence Experiment Station. The guest speakers were Mr. Kenneth Goff and Mr. Steve Lyons, both of the Stone & Webster Engineering Corporation. Mr. Goff spoke on the various ways in which a computer system with a centralized data base and user access through terminals is used to assist in the management of projects. The techniques used include the use of historical data, the use of "fill-in" reports, exception reporting, and both graphical and COM generated reports. Mr. Lyons discussed the use of microfilm techniques and computerized indices for the documentation of large projects, such as a checklist of required documents, retention periods, lists of documents received, and procedures for the receipt of documents. Attendance, 20.

*February 4, 1976* — The topic was the selection of computer hardware by engineering firms. The speakers were Mr. Larry Vance of Fay Spofford & Thorndike, Mr. John McCormack of Camp Dresser & McKee, and Mr. Neal Mitchell of Mitchell Systems, Inc. Mr. McCormack spoke of CDM's attempts to define the system requirements for a new computer to replace their overworked IBM 1130. Mr. Vance outlined the evolution of the IBM 1130 at FST from a minimum configuration machine to a large core, large capacity disk system involving multiple vendors. Mr. Mitchell talked of the use of WANG 2200's (5 systems) for a broad spectrum of engineering and office management functions in his organization. Attendance, 18.

*March 3, 1976* — The final meeting of the year. Officers for 1976-1977 were elected, as follows:

Chairman	Lewis H. Holzman
Vice Chairman	James N. Jackson
Clerk	Salvatore Mazzotta
Member Executive Committee	Robert A. Wells, Jr.
Member Executive Committee	Joseph F. Willard
Member Executive Committee	Jekabs P. Vittands

The speaker for the evening was Mr. Robert Wells of Multisystems, Inc. Mr. Wells spoke on the subject of computerized graphical information systems and described the GRAPHITI system developed by his firm for computer-aided drafting. It currently runs on a Digital Equipment PDP 11/70, though it has been designed to be machine independent. The system incorporates the concept of merging several independently prepared drawings, such as a floor plan, plumbing layout, and duct layout. Attendance, 15.

Respectfully submitted,  
James N. Jackson, Clerk

## ANNUAL REPORT OF THE CONSTRUCTION GROUP, 1975-1976

The Executive Committee this year consisted of the following:

Chairman	Laimonis Rieksts
Vice Chairman	Renwick Chapman
Clerk	Norman Bennett
Member	Samuel E. Rice, 3rd
Member	Joseph B. Kerrissey, Jr.
Member	Frank J. Killea, Jr.

The construction group held the following meetings during the past year:

*November 5, 1975* — A luncheon meeting was held at the Red Coach Grill, Stanhope Street, Boston, Mass. with 35 persons in attendance. Mr. James Roop of Franki Foundation Company spoke on "Slurry Wall Foundation for 60 State Street Office Building".

*January 14, 1976* — A luncheon was held at the Red Coach Grill, Stanhope Street, Boston, Mass. with 45 members and guests in attendance. Mr. Bruce Boleyn of RESCO, a joint venture of DeMatteo Construction Company and Wheel Abrator-Frye, Inc., spoke on the operation of a plant for extracting energy from solid waste.

*February 18, 1976* — This was also an official BSCES meeting. It was held at the Red Coach Grill. Mr. Edward Kinner, Secretary of BSCES, was introduced and conducted the official business portion of the meeting. The guest speaker, Mr. Dave Malone, Chief Estimator for Perini Corporation spoke on the procedures used to prepare a joint venture bid for a heavy construction project. Twenty-eight members and guests attended.

*March 10, 1976* — A joint meeting with the Geotechnical Group was held at Pierce Hall, Harvard University. There were approximately 35 members in attendance. Mr. Joseph Healey, Project Manager Perini North River Associates, spoke on the construction of the first phase of the North River Pollution Control Project.

The following officers were nominated for 1976-1977. Elections will be held at the first regular business meeting in the fall.

Chairman	Norman Bennett
Vice Chairman	John Sullivan
Clerk	Steve Walker
Member Executive Committee	Laimonis Rieksts
Member Executive Committee	Samuel E. Rice, 3rd
Member Executive Committee	Joseph B. Kerrissey, Jr.

Respectively submitted,  
Norman Bennett, Clerk

## ANNUAL REPORT OF THE ENVIRONMENTAL GROUP, 1975-1976

The Executive Committee this year consisted of the following members:

Chairman:	Leo F. Peters
Vice-Chairman:	Paul A. Taurasi
Clerk:	Frederic C. Blanc
Members:	Clifford W. Bowers
	Peter B. Knowlton
	Warren H. Ringer
	Benjamin J. Fehan

The Environmental Group will have held three meetings during the 1975-1976 year as follows:

*June 4, 1975* — This meeting was the annual outing which consisted of a tour of the Medfield Wastewater Treatment Plant. After the field inspection the group met at Cornetta's Iron Horse Restaurant in Norwood. Mr. Eliot F. Tucker of Weston & Sampson Engineers gave a presentation on the design and construction of the Medfield facility. Attendance, 35.

*November 12, 1975* — The Environmental Group met at the Playboy Club in Boston. Mr. Gerald Conklin of Dufresne and Henry Engineering was the speaker (substituting for Mr. M.A. Donnelly of the same firm). Mr. Conklin presented a lecture titled "Changes in Sewer System Evaluation Surveys" in which he gave the audience an overview of methods and procedures for conducting infiltration and inflow studies and sewer evaluation surveys. Attendance, 32.

*March 31, 1976* This meeting will be held at Purocell's Restaurant in Boston. Mr. William H. Parker III and Mr. James Atwell of the Edward C. Jordan Co., Inc. will be the speakers. The topic is "A Leachate Control Program for Saco, Maine".

This is the annual meeting for the Environmental Group. The Nominating Committee of the Environmental Group has placed in nomination the following names for the Executive Committee for the coming year to be voted at this meeting:

Chairman	Paul A. Taurasi
Vice-Chairman	Frederic C. Blanc
Clerk	Clifford W. Bowers
Member	Peter B. Knowlton
Member	Warren H. Ringer
Member	Benjamin J. Fehan

(Later note: Attendance was 30 at above meeting.)

During the winter of this year the Environmental Group is conducting the "Thomas R. Camp Lecture Series on Wastewater Treatment and Disposal". Some 167 registrations were received for the entire series and the attendance at individual lectures has varied from 41 to 144 persons. The following dates, topics and speakers comprised this series:

Lecture #1:	Tuesday, January 13, 1976
Subject:	Comparison of Air and Oxygen Activated Sludge Systems
Speaker:	A.A. Kalinske, Vice President Camp, Dresser, & McKee, Inc.
Lecture #2:	Tuesday, January 20, 1976
Subject:	Pretreatment of Industrial Wastes
Speaker:	Brian L. Jeans, Chief Operations & Maintenance Municipal Treatment Plants Mass. Division of Water Pollution Control
Lecture #3:	Tuesday, January 28, 1976
Subject:	Treatment of Wastes by Contact with Natural Soil Systems
Speaker:	William J. Bauer, Chairman Bauer Engineering, Inc. Chicago, Illinois
Lecture #4:	Tuesday, February 3, 1976
Subject:	Nitrogen and Phosphorous Removal
Speaker:	Dr. Richard L. Woodward, Vice President Camp, Dresser, & McKee, Inc.

- Lecture #5:** Tuesday, February 10, 1976  
**Subject:** Fundamental Principals and Mechanics of Gravity Sludge Thickening  
**Speakers:** Dr. Donald Dean Adrian  
 Department of Civil Engineering  
 University of Massachusetts  
 Peter Kos  
 Environmental Technology Specialist  
 Dorr-Oliver, Inc.
- Lecture #6:** Tuesday, February 17, 1976  
**Subject:** Heat Treatment and Incineration of Wastewater Sludge  
**Speaker:** Guerin E. Carlson  
 Whitman & Howard, Inc.
- Lecture #7:** Tuesday, February 24, 1976  
**Subject:** Disposal of Hazardous Wastes and Waste Oil  
**Speaker:** Donald L. Corey, P.E., General Manager  
 Montvale Laboratories, Inc.
- Lecture #8:** Tuesday, March 2, 1976  
**Subject:** Chemical Stabilization of Sludge  
**Speaker:** Dr. Tsuan Hau Feng  
 Department of Civil Engineering  
 University of Massachusetts
- Lecture #9:** Tuesday, March 9, 1976  
**Subject:** Utilization of Activated Carbon for Wastewater Treatment  
**Speaker:** Dr. John J. Cochrane  
 Department of Civil Engineering  
 Northeastern University
- Lecture #10:** Tuesday, March 16, 1976  
**Subject:** Filtration of Wastewater  
**Speaker:** Stephen L. Bishop, Vice President  
 Metcalf & Eddy, Inc.
- Lecture #11:** Tuesday, March 23, 1976  
**Subject:** Instrumentation and Control of Wastewater Treatment Facilities  
**Speakers:** Walter H. Brown, J. Richard Feibleman,  
 Jon M. Currie, Keith D. Pigney  
 Instrumentation Department  
 Metcalf & Eddy, Inc.
- Lecture #12:** Tuesday, March 30, 1976  
**Subject:** Control and Treatment of Combined Sewer Overflows  
**Speaker:** Richard Field  
 Chief, Storm and Combined Sewer Section  
 A.W.T. Research Laboratory  
 Environmental Protection Agency  
 Edison, N.J.

Respectfully submitted,  
 Frederic C. Blanc, Clerk

**ANNUAL REPORT OF THE GEOTECHNICAL GROUP, 1975-1976**

The following are the officers of the Geotechnical Group for the 1975-1976 year:

Stiles Stevens	Chairman
William Zoino	Vice Chairman
Peter Taylor	Clerk
David Thompson	Member
Alton Davis	Member
Allen Gass*	Member

\*Allen Gass resigned due to leaving the Boston area.

The group held the following meetings during the past year:

*May 14, 1975* — Underplanning foundations — A presentation by three speakers: Mr. James Nelson of Spencer, White and Prentis; Dr. F. A. Baris of Warren - Fondedele; and Mr. George Tamaro of ICOS. Moderator, Eric O'Neill of Franki Foundation Company.

*October 22, 1975* — Evaluation of Several Geotechnical Parameters. A lecture by Professor T. W. Lambe, Massachusetts Institute of Technology. Attendance 80. This was a joint meeting with the main society.

*December 10, 1975* — Design and Construction of Tarbela Dam in West Pakistan. A lecture by Mr. Kalman Szalay, Tippets-Abbett-McCarthy-Stratton Engineers Inc.

*January 21, 1976* — Loss Prevention Programs for Consulting Engineers — A lecture by Mr. William L. Shannon of Shannon and Wilson, followed by a panel discussion. The panel consisted of Mr. Charles Parthum, Mr. William McTigue and Mr. Woodrow Wilson. The moderator for this meeting was Mr. William Zoino. This was a joint meeting with the Action Program Committee.

*February 12, 1976* — Remote Sensing Technique for Hydrology and Site Selection — A presentation in three parts by Mr. Gerald Moore, U.S.G.S. Sioux Falls Data Center, Mr. Leo Eichen, Dames and Moore, and Dr. Stephen Alsop, Goldberg-Zoino. The meeting Chairman was Mr. J. Guertin. This was a joint meeting with the New England Chapter, Association of Engineering Geologists.

*March 10, 1976* — North River Pollution Control Project. A lecture by Mr. Joseph Healy, Project Manager, Perini North River Association. This was a joint meeting with the Construction Group.

A lecture series committee under the Chairmanship of Stanley Rossier has developed a program for the fall of 1976 on the subject of lateral earth pressures. The committee consists of the following:

Stanley Rossier, Chairman	Herbert Einstein
Robert Vallee	Lewis Edgers
William Roberds	Richard Simon
Walter Jaworski	John Sewall
Douglas Gifford	Robert D'Andrea
Alton Davis	Peter Wroth
Asaf Qazilbash	

Based on attendance at recent meetings, it has become evident that our meeting announcements are not reaching non-members in the construction industry. It is recommended that consideration be given to some method of informing this potentially large audience of coming meetings.

Respectfully,  
Peter K. Taylor  
Clerk

## ANNUAL REPORT OF THE HYDRAULICS GROUP, 1975-1976

The following meetings were held during the past year:

*November 25, 1975* — Guest speakers Mr. Richard Reardon and Mr. Stephen Parker of the U. S. Army Corps of Engineers made a joint presentation of the Dickey-Lincoln School Lakes Hydroelectric Project. The talk dealt with the origin, features and power scoping studies of the Project. The meeting was held at the Ralph M. Parsons Laboratory at MIT. Attendance: 41.

*January 29, 1976* — This scheduled meeting was not held due to severe illness in the speaker's family. Because this situation developed at the last minute, no alternate speaker could be had. The intended speaker, Mr. James T. Price of the Water Systems Development Branch of TVA, was to speak on Impact of Dam Failures on Nuclear Power Plants.

This unfortunate situation illustrated the desirability of scheduling alternate speakers for the intended talk whenever possible. Every effort will be made in the future to effect this.

*February 25, 1976* — Guest speakers Mr. Thomas Baron of the Metropolitan District Commission and Mr. William Howard of Camp, Dresser and McKee gave a presentation on the Metropolitan Boston Water Transmission and Distribution Study. The talk included a discussion on the design criteria for the system, and elaborated on the development of a computer simulation model for the entire MDC water system, and its application in evaluation of the existing system adequacy, as well as developing future needs. The meeting was held at the Ralph M. Parsons Water Resources Laboratory at MIT. Attendance: 20.

*March 24, 1976* — This meeting was the official BSCES meeting for the month of March.

Nominations and election of officers of the Hydraulics Group for the 1976-77 term were held. The results were as follows:

Chairman	Edward Dunn - CE Maguire, Inc.
Vice Chairman	William Darby - Northeastern University
Clerk	Thomas Doucette - Mass. Water Resources
Executive Committee Members	Richard DiBuono - Corps of Engineers
	Reynold Hokenson - Chas. T. Main Inc.
	Oscar Donati - Corps of Engineers

Mr. Edward Kinner, Secretary of BSCES, made announcements concerning activities and business of the Society. His announcements included mention of the ASCE public information film to be presented on TV and the scheduled dedications of Civil Engineering Landmarks.

The presentation for this evening was given by Mr. Jack C. Howe, Project Mechanical Engineer of Chas. T. Main, Inc. The subject was Electric System Planning for Pumped Storage Hydroelectric Power. The talk covered the criteria for a pumped storage site, the studies undertaken to optimize the amounts of installed power and storage capacity of a pumped storage development, and the electric system operating advantages of pumped storage over other kinds of peaking power plants. The meeting was held at the Ralph M. Parsons Water Resources Laboratory at MIT. Attendance: 24.

Respectfully submitted,  
Edward P. Dunn  
Clerk

## ANNUAL REPORT OF THE STRUCTURAL GROUP, 1975-1976

The Executive Committee this year consisted of the following members:

Chairman	Hans William Hagen
Vice Chairman	Lawrence H. Ogden
Clerk	Frank J. Heger
Member, Executive Committee	Frank Davis
Member, Executive Committee	Richard Foley
Member, Executive Committee	Kentaro Tsutsumi

The following meetings were held by the Structural Group:

*April 8, 1975* — Dr. Mark Fintel, Director of Engineering Services, Portland Cement Association, spoke on Earthquake Design of High Rise Concrete Structures. He compared the performance of shear wall structures and frame structures in recent earthquakes, and briefly presented the current theories of design and research programs being sponsored by the PCA. The meeting was held at MIT's Center for Advanced Engineering Studies. Attendance 100.

*October 15, 1975* — Mr. E. Alfred Picardi, Senior Vice-President and Director of Perkins & Will in Washington, D. C., presented the 1975 T. R. Higgins lecture of AISC at MIT's Center for Earth Sciences. Mr. Picardi described a unique structural system which he conceived and implemented with his team of engineers and a support group at MIT in the design of the Standard Oil of Indiana Building. The system features new design concepts and details that resulted in economy in the weight, fabrication, and erection of the structural steel for the 89-story building. Attendance 80.

*December 17, 1975* — Mr. Marvin Mass, PE, Senior Partner, Consentini Associates, New York, Chicago, and Cambridge, spoke on the influence of mechanical, electrical and plumbing systems on structural design. He briefly presented the requirements of these systems and indicated some of the problem areas confronting the building design team. The meeting was held at MIT's Center for Advanced Engineering Studies. Attendance 17.

*February 11, 1976* — A panel discussion on Quality Control in Construction was presented at the MIT Center for Advanced Engineering Studies. The panel consisted of Panel Moderator, Mr. Frank Davis, Sales Manager, West End Iron Works; Mr. Rubin M. Zallen, Principal, Rubin M. Zallen Associates, representing the consulting engineer; Mr. Phillip R. Jackson, President and Secretary, Jackson Construction Co., representing the contractor; and Mr. Ara Shrestinian, Vice-President, Thompson & Lichtner Co., representing the inspection agency. Each panel member presented a ten minute outline of how its profession attempts to achieve quality construction. Attendance 25.

*April 7, 1976* — A "Structural Specification Critique" was held at the Spofford Room, MIT. Moderator, Richard A. Foley. Panelists, Richard Johnson of A. O. Wilson Structural Company, Herman G. Protze of Herman G. Protze, Inc., and Walter Rosenfeld, Jr. of the Architects Collaborative.

This was the annual meeting of the Group. Officers for 1976-1977 were elected, as follows:

Chairman	Kentaro F. Tsutsumi
Vice Chairman	Frank J. Heger
Clerk	Franklin B. Davis
Members, Executive Committee	Richard A. Foley
	James M. Becker
	Kenneth B. Wiesner



Besides the regularly scheduled meetings, the Structural Group, in cooperation with the Massachusetts Institute of Technology, also sponsored an Earthquake Design Lecture Series which was held at MIT. The series of seven lectures dealt with the practical nature of earthquake design with special emphasis on the application of the seismic provisions of the 1975 Massachusetts State Building Code. Approximate attendance was 300. The lectures are briefly described below.

*October 21, 1975* — Prof. Kentaro Tsutsumi, Professor of Civil Engineering, Tufts University, described the various responses of buildings to seismic forces and how to apply the Building Code provisions when analyzing a structure.

*October 28, 1975* — Dr. Frank J. Heger, Principal, Simpson Gumpertz & Heger Inc., spoke on the general behavior and response of regular reinforced and post-tensioned cast-in-place concrete systems to earthquake forces and some of the detailing necessary to achieve ductility in the structure.

*November 4, 1975* — Prof. José M. Roesset, Professor of Civil Engineering, Massachusetts Institute of Technology, lectured on the dynamic analysis of structures and gave examples of when and how to use dynamic analysis in building design.

*November 12, 1975* — Prof. Robert V. Whitman, Professor of Civil Engineering, Massachusetts Institute of Technology, discussed soil properties and how they affect the design of foundation systems and the structure as a whole.

*November 18, 1975* — Mr. Henry J. Degenkolb, President, H. J. Degenkolb & Associates, Engineers, described the general behavior and response of structural steel systems to earthquake and how to determine applicable design criteria and proceed with the design of structural steel systems.

*November 25, 1975* — Mr. James E. Amrhein, Director of Engineering, Masonry Institute of America, spoke on the various types of masonry systems, their behavior and response to earthquake forces, and the criteria required for design of masonry structures.

*December 2, 1975* — Mr. Robert F. Mast, President, ABAM Engineers, Inc., presented the effects of seismic forces on prefabricated construction systems such as precast/prestressed concrete and how to design these systems to resist those forces.

In addition to the above meetings the Executive Committee met on several occasions to discuss the Massachusetts Construction Industry Board's "Recommended Regulations for the Control of Structural Work During Construction", and to organize the above-mentioned Earthquake Design Lecture Series.

Respectfully Submitted,  
Frank J. Heger, Clerk

## **ANNUAL REPORT OF THE TRANSPORTATION GROUP, 1975-1976**

The following is a synopsis of the Transportation Section's activities over the past 15 months. In previous years, the Transportation Section's officers served from January to January as opposed to the April to April term of the other sections. Effective this year, the term of our officers will be in conformance with the other sections.

*February 19, 1975* — Annual meeting and election of officers; also an official meeting of BSCES. Chairman Rodney Plourde turned the gavel over to Bertram Berger, Vice President of

BSCES, for the purpose of conducting a vote on proposed By-law amendments. The vote was unanimous in favor of these amendments.

Mr. Plourde then took back the gavel and received nominations of officers for the 1975-1976 term. The following slate was nominated and elected unanimously:

Chairman	Maurice Freedman
Vice Chairman	Marvin W. Miller
Clerk	Robert J. McDonagh
Member	A. Russell Barnes, Jr.
Member	Leo F. DeMarsh
Member	Donald M. Graham
Member	Rodney P. Plourde

The guest speaker was Mr. Frederick R. Salvucci, Secretary of the Executive Office of Transportation and Construction. The subject of Mr. Salvucci's remarks was "The Future Transportation Policies of Massachusetts." This meeting took place at Nick's Restaurant. Attendance 92.

*March 4, 1975* — Executive Committee Luncheon held at Kevin's Wharf. Plans and policies for the coming year were discussed and prepared.

*March 19, 1975* — This was a combined meeting with the Computer Group. The Computer Group used this time to conduct its election of officers.

The subject of the meeting was "Computerized Systems - Highway Surveillance/Street Traffic Control." Chairman Maurice Freedman turned the meeting over to Stanley T. Siegel who acted as moderator of a panel discussion with Kay Krekorian, Deputy Chief Engineer, Massachusetts Department of Public Works, and Alfred Howard, Director, Transportation Planning, Boston Redevelopment Authority. This meeting was held at the Playboy Club. Attendance 90.

*May 15, 1975* — This was a combined meeting with the Boston Transportation Group. Chairman Bruce Campbell of the BTG called the meeting to order and then turned it over to Chairman Maurice Freedman. Mr. Russell Barnes, BSCES representative to the Joint Regional Transportation Committee for the Boston Region (JRTC) gave a report of activities. Mr. Freedman then introduced Mr. Thomas C. O'Brien, Special Needs Coordinator for the MBTA, who gave an address on the subject "Transportation for the Handicapped and Disadvantaged". This meeting was held at the Three B's Restaurant. Attendance 75.

*October 29, 1975* — Chairman Maurice Freedman called the meeting to order and introduced the speaker, Mr. Robert R. Kiley, Chairman, MBTA. As the new head of the MBTA, Mr. Kiley discussed the problems he expects to face and his opinion on how to handle some of them. The meeting was held at the Red Coach Grill. Attendance 111.

*December 9, 1975* — Chairman Maurice Freedman introduced Mr. Francis R. Sholock, Location and Survey Engineer, Massachusetts Department of Public Works, who was the speaker. After presenting his department's concept of a means of reconstructing the Central Artery by depressing it, Mr. Sholock opened the meeting to general discussion. This was a luncheon meeting at the Red Coach Grill. Attendance 145.

*January 28, 1976* — Annual meeting and election of officers; also an official meeting of BSCES. Chairman Maurice Freedman called the meeting to order and then conducted some BSCES business. Mr. Freedman then received nominations of officers for the 1976-1977 term.

The following slate was nominated and elected unanimously:

Chairman	Marvin W. Miller
Vice Chairman	Robert J. McDonagh
Clerk	A. Russell Barnes, Jr.
Member	Leo F. DeMarsh
Member	Donald M. Graham
Member	Maurice Freedman

The gavel was then turned over to the new Chairman, Marvin W. Miller. His first act as Chairman was to introduce the guest speaker, Lt. Governor Thomas P. O'Neill, III. The Lt. Governor discussed his views of Transportation Futures and his role in advancing them. This dinner meeting was held at the SS Peter Stuyvesant, Anthony's Pier Four Restaurant. Attendance 70.

*February 23, 1976* — Executive Committee luncheon at Kevin's Wharf. Plans and policies for the coming year were discussed. Russ Barnes, our representative to the JRTC, has requested that someone else be given the opportunity to serve. It was decided that from now on the immediate past chairman of the Transportation Group will fill this position.

At the conclusion of the meeting, representatives of the Mystic Tobin Bridge Authority addressed us on the proposed toll structure changes being considered. It was the Board's opinion that we should not be involved in management or monetary matters but rather only in concepts pertaining to our expertise.

*March 17, 1976* — Chairman Marvin W. Miller called the luncheon meeting to order and introduced the speaker, Stuart Forbes, Project Director, Boston Redevelopment Authority. Mr. Forbes outlined the past history of the Park Plaza Project and then presented the current thinking. This meeting was held at the Red Coach Grill. Attendance 30.

Respectfully submitted,  
Marvin W. Miller, P.E.  
Chairman