

Proceedings

AMERICAN SOCIETY OF CIVIL ENGINEERS

REPORT OF THE BOARD OF GOVERNMENT, 1979-1980

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

Pursuant to the requirements of the Bylaws, the Board of Government presents its report of the year ending April 23, 1980.

The following is a statement of membership in the Section:

Honorary Members	4
Assigned ASCE members (as of 3/80):	2197
Subscribers:	
Members	1044
Associate Members	435
Student Chapters	9

Summary of Additions

New Members	19
New Associate Members	37

Summary of Loss of Members

Deaths	6
Resignations	13
Dropped	51

Life Memberships

Life Members	212
Members becoming eligible, April 23, 1980	16

Honorary Membership is as follows:

John B. Babcock 3rd.	elected	January 2, 1979
Arthur Cassagrande	elected	February 1, 1975
Ralph W. Horne	elected	February 1, 1965
John A. Volpe	elected	January 29, 1968

Members lost through death:

John C. Adams, Jr.	April 1979
Charles O. Baird	October 1979
Michael J. Caddigan	June 1979
Roger F. Gardner	July 1979
Mortimer W. Meyer	August 1979
Ferdinand Trautner	January 1979

MEETINGS OF THE SECTION

September 19, 1979	Joint Meeting with Construction Group
October 10, 1979	Joint Meeting with Hydraulics Group
November 7, 1979	Joint Meeting with Environmental Group
December 12, 1979	Joint Meeting with Structural Group
January 22, 1980	Joint Meeting with Geotechnical Group
February 13, 1980	Joint Meeting with Computer Group
March 19, 1980	Joint Meeting with Transportation Group
April 23, 1980	BSCE Section Annual Meeting

For detailed reports of the above meetings, refer to Annual Reports of the respective Technical Groups.

The Technical Groups also held many other meetings during the year. The 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 Bylaws, 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. The Treasurer's report gives details of the year's transactions.

**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 the 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.

EDMUND K. TURNER FUND. In 1916 the Society received a bequest of \$1,000 from Edmund K. Turner, a former member, the income of which is to be used for Library purposes.

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

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 from the Fund is "to be devoted to the Library of the Society."

CLEMENS HERSCHEL FUND. This Fund was established in 1931 by a bequest of \$1,000 from the late Clemens Herschel, a Past President and Honorary Member of the Society. The income from this Fund "is to be used for the presentation of prizes for papers which have been particularly useful and commendable and worthy of grateful acknowledgement."

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.

Subsequent to September 30, 1979, it was voted to accept the recommendation of the Committee at Northeastern University, that the current scholarship award of \$200 be given to Mark E. Lewis. Presentation was made at the 1980 Student Chapter Night meeting of the Society held at the University of Massachusetts at Amherst on February 26, 1980.

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 BSCE 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.

HOWE-WALKER FUND. This Fund was created by a vote of the Board of Government and combines the Edward R. Howe Fund and the Frank B. Walker Fund. Income from this joint Fund is used to help defray costs of student awards.

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 that 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 Engineer's Scholarship in memory of William P. Morse, and that it be given to a Civil Engineering student at Tufts University."

Subsequent to September 30, 1979, it was voted to accept the recommendation of the Committee at Tufts University, that the scholarship award of \$200 given to Julia Uffner. Presentation was made at the 1980 Student Chapter Night meeting of the Society held at the University of Massachusetts at Amherst, on February 26, 1980.

THOMAS R. CAMP FUND. This Fund, a bequest of \$10,000, was received January 15, 1971, from the Directors of Camp, Dresser & 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.

LECTURE FUND. The Lecture Fund was established in 1969 for the purpose of providing money for special lectures sponsored by the Society.

KARL R. KENNISON FUND. This Fund comprised two irrevocable trusts established on behalf of the Society by Karl R. Kennison. These trusts consisted of shares of the Massachusetts Fund, The Massachusetts Company, Inc., trustees. After Mr. Kennison's death net income was to be paid to the Society for a Hydraulics Lecture Fund to be used for various public lectures on this subject, or the Board could withdraw the principal on written demand or make changes in

the use of the Fund as it may determine are warranted. The Investment Committee has recommended to the Board of Government that the funds be consolidated with the principal funds in one location, and this has been done.

PRIZES

A number of prizes and awards are recommended for presentation at the Annual Meeting. For the list of awards and recipients, refer to 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 that portion of the Annual Meeting held April 22, 1980.

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.

For the Board of Government

William S. Zoino, President
Leo F. Peters, Secretary

MINUTES OF THE ANNUAL MEETING OF THE SECTION

PART I

April 22, 1980 — Part I of the 132nd Annual Meeting of the Boston Society of Civil Engineers (the sixth meeting of the Boston Society of Civil Engineers Section following the merger of the BSCE with the Massachusetts Section of the ASCE) was held at the offices of Camp, Dresser & McKee, Inc. in Boston. The meeting was called to order at 3:00 p.m. by President William S. Zoino.

Executive Director Susan Albert distributed the Annual Report of the Board of Government.

Norman W. Bennett presented the Annual Report of the Treasurer.

In the absence of Secretary Peters, President Zoino called for reports from the following Committees and Technical Groups: Action Program-Professional Practice, Advertising, Annual Meeting, Auditing, Awards, Constitution and Bylaws, Thomas R. Camp Fund, Continuing Education, Disadvantaged Youth, Employment Conditions, Energy, John R. Freeman Fund, History and Heritage, Investment, Key Man, Lecture Series, Membership, Monthly Luncheon, Nominating, Operations Manual, Program, Public Relations, Publications, Social Affairs, Student Affairs; also Technical Groups: Computer, Construction, Environmental, Geotechnical, Hydraulics, Structural, Transportation.

Vice President Frank Perkins moved that all Committee and Technical Group reports be accepted and placed on file. It was seconded and so VOTED.

Charles Ladd noted that this would be the last meeting of the Board of Government to be attended by Bertram Berger as a Past President of the BSCES, and Ladd and the Board commended Berger for his energy, wisdom and leadership.

Albert was instructed to contact Stanley Rossier, Program Chairman for 1981, and advise him that the Board suggested he begin making arrangements now with the Kennedy Library for the 1981 Annual Meeting.

President Zoino presented certificates of appreciation to the retiring Technical Group Chairmen.

President Zoino concluded the meeting's program by presenting his retiring address, which is to be printed in the *Journal*.

PART II

April 23, 1980 — Part II of the 1980 BSCE Section Annual Meeting was held at the USS Constitution Museum in Charlestown. President Zoino reconvened the meeting at 7:30 p.m. Following the introduction of the head table guests, President Zoino called upon Secretary Peters to assist in the awarding of prizes and certificates of Life Membership, which were in turn presented by the President.

An award for a technical paper was presented as follows: (this was the only award for technical papers voted this year by the Board of Government):

Clemens Herschel Award

Recipients: Howard Simpson and Rene W. Luft

Paper: "Massachusetts Earthquake Design Requirements."

The following persons were awarded Certificates of Appreciation for their services to the Section:

Leo F. Peters - Secretary
H. Hobart Holly - Chairman, History and Heritage Committee
Lee M. G. Wolman - Chairman, John R. Freeman Fund
Ronald E. Sharpin - Chairman, Continuing Education Committee

Certificates of Appreciation were also presented on behalf of ASCE National to:

Gunther H. Greulich - Member, Executive Committee, Surveying and Mapping Division of ASCE.

William F. Swiger - Member, Executive Committee, Geotechnical Engineering Division of ASCE.

Brief biographies of newly elected ASCE and BSCES Life Members were distributed and President Zoino presented certificates to those present. New ASCE Life Members were as follows: Francis G. Duclos, Ralph W. Gunwaldsen, Francis S. Harvey, Robert S. Johnson, Richard W. Keenan, William H. Mitchell. New BSCE Section Life Members were: Herbert J. Albee, Kirkwood B. Brown, Daniel J. Conlin, Leonard J. A. Fenocketti, Gordon B. Hanson, Stephen Haseltine, Wilbar M. Hoxie, Jesse J. Lamarche, Joseph W. Lavin, Francis H. Ledgard, Charles L. Murphy, Frederick C. Merrikin, Carroll T. Newton, Wilbur C. Nylander, Wesley F. Restall, Fred E. Tibbetts, Jr.

The Secretary also read the names of members who died during 1979-1980: John C. Adams, Jr., Charles O. Baird, Michael J. Caddigan, Roger F. Gardner, Mortimer W. Meyer, Ferdinand Trautner. A moment of silence was observed.

President Zoino presented to Mrs. Roger F. Gardner a plaque outlining the establishment of the Roger F. Gardner Memorial Scholarship Fund, founded this year in memory of her late husband.

President Zoino read a letter of commendation signed by the Board of Government to Northeastern University's Student Chapter recognizing their outstanding achievement in winning their fourth consecutive Robert Ridgway Student Chapter Award.

Teller Richard M. Simon reported the results of the election of the Nominating Committee Members for two-year terms. They are Richard J. Scranton, Paul A. Taurasi and David E. Thompson.

President Zoino then presented the gavel to incoming President Frank E. Perkins, who then presented a plaque and past president's pin to retiring President Zoino commemorating his year as president. President Perkins then briefly outlined his goals for his term in office.

President Perkins then turned the meeting over to the Program Chairman Edward B. Kinner, who introduced the guest speaker, Julian M. Sobin, Chairman of Sobin Chemicals, Inc., of Boston, which has had long experience in China trade. Mr. Sobin spoke on "Current Perceptions of Sino-U.S. Trade and Other Relations."

One hundred sixty members and guests attended the dinner and evening meeting.

REPORT OF THE TREASURER

October 1, 1979

For the Fiscal Year October 1, 1978 to September 30, 1979

FISCAL STANDING

The fiscal standing of the section is summarized in the four tables which accompany this report:

- Table I - Condensed Statement of Condition
- Table II - Condensed Statement of Income and Expenditures
- Table III - Detailed Statement of Income and Expenditures
- Table IV - Portfolio of Investment and Projected Yield

SECTION INVESTMENTS

The Boston Safe Deposit and Trust Company continues as a custodian of our portfolio and securities and has furnished us with an annual summary account. The Custodian continues to make portfolio changes and reports quarterly on the portfolio performance. During this year the Custodian was authorized to reinvest all income from the principal account.

SECTION BANK DEPOSITS

All non-invested cash is deposited into a Suffolk Franklin NOW Account. The NOW Account is an interest bearing checking account. The fiscal year record was:

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Balance 10/1/78			\$ 18,930.41
Deposits 10/1/78-9/30/79		\$ 75,542.47	
Interest		1,024.92	
Checks Drawn	\$ 87,487.99		
Bank Charges	5.00		
Totals	\$ 87,492.99	\$ 76,567.39	\$ 8,004.81

PERMANENT FUND

The Permanent Fund receives its prorated portion of investment income and all entrance fees for the local Section membership. A prorated portion of custodial service charge is debited.

	<i>Debit</i>	<i>Credit</i>	<i>Balance</i>
Book Value 10/1/78			\$ 92,932.81
Custodian Service	\$ 872.54		
Interest, Dividends, Transactions		\$ 8,188.70	
Entrance Fees		285.00	
Transfer to Current Fund			
Totals	\$ 872.54	\$ 8,473.70	\$100,533.97

TECHNICAL GROUP LECTURE SERIES FUNDS 1976-77-78-79

Geotechnical Group - Deep Foundations Lecture Series (1976-77)

Income	\$ 2,254
Expense	<u>\$ 1,888</u>
Surplus	\$ 366

50% Available for Approved Expenditures	\$ 183
Expended by Geotechnical Group in 1978-79	<u>1,725</u>
Negative Surplus	-\$ 1,542

REPORT OF THE TREASURER

Geotechnical Group - Soil Dynamic Lecture Series (1977-78)

Income 1977-79 \$ 16,686
 Expenses 1977-79 \$ 13,450
 Surplus \$ 3,236

50% Available for Approved Expenditures \$ 1,618
 Negative Surplus Brought Forward - 1,542
 Available for Approved Expenditures (1979-80) +\$ 76

Structural Group - Welding Lecture Series (1977-78)

Income \$ 13,842
 Expense \$ 1,999
 Surplus \$ 11,843

50% Available for Approved Expenditures \$ 5,922
 Expended by Structural Group in 1978-79 335
 Available for Approved Expenditures (1979-80) \$ 5,587

TECHNICAL GROUPS FISCAL OPERATIONS 1978-79

	<i>Income</i>	<i>Expenses</i>	<i>Surplus</i>	<i>Deficit</i>
Computer	\$ 0.00	\$ 81.07	\$ -	\$ 81.07
Construction	479.00	496.01	-	17.01
Environmental	250.22	63.00	187.22	-
Geotechnical	4,576.12	6,300.64	-	1,724.52
Hydraulics	331.74	347.00	-	15.26
Structural	36.60	371.34	-	334.74
Transportation	<u>0.00</u>	<u>45.25</u>	-	<u>45.25</u>
	\$ 5,673.68	\$ 7,704.31	\$ 187.22	\$ 2,217.85

Respectfully submitted
 Norman W. Bennett, Treasurer

TABLE I

CONDENSED STATEMENT OF CONDITION
Assets, Liabilities and Funds

ASSETS	BOOK VALUE		MARKET VALUE	
	9-30-79	10-1-78	9-30-79	10-1-78
Suffolk Franklin NOW	\$ 8,004.81	\$ 18,930.41	\$ 8,005.00	\$ 18,930.00
Boston Safe Deposit:				
Bonds	106,656.34	92,653.34	92,795.00	81,488.00
Stocks	81,627.07	65,217.30	108,226.00	90,499.00
Cash	64,530.67	61,161.46	64,531.00	61,161.00
Invested Income Cash	<u>0.00</u>	<u>10,992.88</u>	<u>0.00</u>	<u>10,993.00</u>
Boston Safe Deposit Total	\$252,814.08	\$230,024.98	\$265,552.00	\$244,141.00
 Total Assets	 \$260,818.89	 \$248,955.39	 \$273,557.00	 \$263,071.00
 LIABILITIES AND FUNDS				
Permanent Fund	\$100,533.97	\$ 92,932.81	\$105,600.00	\$ 98,636.00
Freeman Fund	78,031.68	72,336.94	81,963.00	76,776.00
Turner Fund	4,374.49	4,055.24	4,595.00	4,304.00
Fitzgerald Fund	6,830.00	6,516.95	7,174.00	6,917.00
French Fund	4,326.78	4,011.01	4,545.00	4,257.00
Herschel Fund	2,773.69	2,590.73	2,913.00	2,750.00
Howe Fund	4,754.11	4,407.16	4,994.00	4,678.00
Morse Fund	6,283.35	6,010.20	6,600.00	6,379.00
Walker Fund	2,069.52	1,975.89	2,174.00	2,097.00
Horne Fund	5,924.82	5,735.77	6,223.00	6,088.00
Lecture Fund	6,169.69	6,169.69	6,481.00	6,548.00
Camp Fund	15,388.08	14,635.87	16,163.00	15,534.00
Bracket Fund	323.61	300.00	340.00	318.00
Kennison Fund	9,965.17	4,899.16	10,467.00	5,200.00
Invested Current Funds	<u>5,065.12</u>	<u>3,447.56</u>	<u>5,320.00</u>	<u>3,659.00</u>
Total Invested Funds	\$252,814.08	\$230,024.98	\$265,552.00	\$244,141.00
Continuing Education	\$ 7,022.36	\$ 5,156.33	\$ 7,022.00	\$ 5,156.00
Boring Data Fund	1,595.81	1,595.81	1,596.00	1,596.00
Student Loan Fund	1,303.84	1,414.24	1,305.00	1,414.00
Current Fund	0	0	0	0
Group Lectures	8,644.27	9,759.32	8,644.00	9,759.00
Corpus	(10,561.47)	(3,675.61)	(10,562.00)	(3,675.00)
Uninvested Kennison Fund	<u>0</u>	<u>4,680.32</u>	<u>0</u>	<u>4,680.00</u>
Total Liabilities	\$ 8,004.81	\$ 18,930.41	\$ 8,005.00	\$ 18,930.00
Total Liabilities and Funds	\$260,818.89	\$248,955.39	\$273,557.00	\$263,071.00

TABLE II — CONDENSED STATEMENT OF INCOME AND EXPENDITURES —
DISTRIBUTION OF INVESTED FUNDS
Fiscal Year October 1, 1978 - September 30, 1979

FUND NAME	Book Value	Change in Book Value	Receipts	Transfer		Custodian Charges	Expenditures	Book Value
	10-1-78	from Transactions, Interest, Dividends		TO	FROM			9-30-79
Permanent	\$ 92,932.81	\$ 8,188.70	\$ 285.00	\$	\$ 872.54	\$	\$ 100,533.97	
Freeman	72,336.94	6,373.91			679.17		78,031.68	
Turner	4,055.24	357.32			38.07		4,374.49	
Fitzgerald	6,516.95	574.24			61.19	200.00	6,830.00	
French	4,011.01	353.43			37.66		4,326.78	
Herschel	2,590.73	228.28			24.32	21.00	2,773.69	
Howe	4,407.16	388.33			41.38		4,754.11	
Morse	6,010.20	529.58			56.43	200.00	6,283.35	
Walker	1,975.89	174.10			18.55	61.92	2,069.52	
Horne	5,735.77	505.40			53.85	262.50	5,924.82	
Lectures	6,169.69	543.64			57.93	485.71	6,169.69	
Camp	14,635.87	1,289.63			137.42	400.00	15,368.08	
Bracket	300.00	26.43			2.82		323.61	
Kennison	4,899.16	431.69			46.00		9,965.17	
Inv. Current	3,447.56	303.79			32.36		5,065.12	
Totals	\$230,024.98	\$20,268.47	\$4,965.32	\$1,346.13	\$2,159.69	\$1,631.13	\$252,814.08	

DISTRIBUTION OF MISCELLANEOUS FUNDS

FUND NAME	Book Value	Receipts	Expenditures	Book Value	Transfers	Book Value
	10-1-78	Fiscal Yr.	Fiscal Yr.	Before Transfers		9-30-79
Continuing Education Fund	\$ 5,156.33	\$ 4,894.11	\$ 3,028.08	\$ 7,022.36	\$	\$ 7,022.36
Boring Data Fund	1,395.81	2,105.00	2,215.40	1,595.81		1,595.81
Student Loan Fund	1,414.24	723.00	1,838.05	1,303.84		1,303.84
Group Lecture Series	9,759.32	982.00	1,161.15	8,644.27		8,644.27
Dinner Dance	0	3,106.00	3,222.10	(179.15)	179.15	0
Clam bake	0	5,673.68	7,704.31	(2,030.63)	2030.63	0
Technical Group Meetings	0	285.00	68,323.90	285.00	(285.00)	0
Entrance Fees	0	58,798.60		(9,525.30)	9,525.30	0
Current Fund	4,680.32			4,680.32	(4,680.32)	0
Uninvested Kennison Fund	(3,675.61)			(3,675.61)	(6,885.86)	(10,561.47)
Corpus						
Total	\$18,930.41	\$76,567.39	\$87,492.99	\$8,004.81	0	\$8,004.81

TABLE III
DETAILED STATEMENT OF INCOME AND EXPENDITURES
Fiscal Year 10-1-78 to 9-30-79

	<i>Expenditures</i>	<i>Income</i>
Prizes, Awards	\$ 911.46	\$
Scholarship Loans	2,215.40	2,105.00
Dues	17.00	22,750.50
Allotment		3,283.00
Bank Interest		1,024.92
Entrance Fees		285.00
Publication Sales	26.50	3,020.19
Advertising		1,910.00
CECNE Reimbursements		13,897.10
Local Societies	100.00	
ASCE Conference	15.00	
Continuing Education	3,028.08	4,894.11
Lateral Earth Pressure L.S.		60.00
Lecture Series 1979		65.00
Membership	22.86	
Miscellaneous	1,086.74	85.80
Office Services	327.30	59.51
Camp Lecture	400.00	
Renovation & Rehabilitation L.S.	973.62	
Embankment Dam L.S.	660.77	
Soil Dynamics L.S.	203.66	598.00
Office Supplies	1,231.94	
Postage	1,974.41	
Telephone	503.62	4.99
Forum Printing - Newsletter	936.00	
Journal Printing	13,664.90	
General Printing	3,561.24	
Annual Meeting & Student Night	4,195.81	2,190.00
Branch Activities	2,500.00	2,500.00
Trans. To & From Investments	4,680.32	
Student Activities	840.49	
Secretarial	1,247.40	
Reprints	408.53	273.70
Insurance	1,676.00	
Salaries, Net	14,425.48	
Taxes, State & Federal	7,074.44	
Rent	1,734.00	
Financial & Legal	200.00	
Computer Group	81.07	
Construction Group	496.01	479.00
Environmental Group	63.00	250.22
Geotechnical Group	6,300.64	4,576.12
Hydraulics Group	347.00	331.74
Structural Group	371.34	36.60
Transportation Group	45.25	
Dinner Dance	1,161.15	982.00
Freeman Lecture		
Clambake	3,222.10	3,106.00
N.U. Student Chapter Project		1,453.89
Bank Charges	5.00	
Legislative Affairs	1,680.00	
National Convention	1,767.86	5,070.00
Contingency	1,109.60	1,275.00
	<u>\$87,492.99</u>	<u>\$76,567.39</u>

TABLE IV

PORTFOLIO OF INVESTMENTS - SEPTEMBER 30, 1979

<i>Description</i>	<i>Book Value</i>	<i>Market Value</i>	<i>Estimated Income</i>
CASH			
Cash	\$ 87.78	\$ 87.78	\$ 0.00
Savings Account	15,600.00	15,600.00	1,524.12
U.S. Treasury Bills	<u>48,842.89</u>	<u>48,842.89</u>	<u>5,040.00</u>
Total Cash	\$ 64,530.67	\$ 64,530.67	\$ 6,564.12
BONDS			
U.S. Government Notes	\$ 20,037.38	\$ 19,310.00	\$ 1,562.50
Federal Agencies	45,088.87	42,509.50	3,820.00
Utility	16,005.09	11,123.07	875.00
Industrial	10,450.00	10,243.70	462.50
Financial	5,000.00	3,162.50	250.00
Foreign Bonds	<u>10,075.00</u>	<u>7,446.80</u>	<u>600.00</u>
Total Bonds	\$106,656.34	\$ 92,795.57	\$ 7,570.00
COMMON STOCKS			
Aerospace and Aircraft	\$ 3,758.00	\$ 4,075.00	\$ 220.00
Chemical	7,655.50	8,475.00	400.00
Diversified Manufacturing	7,507.50	6,937.50	300.00
Drug, Hospital, Medical, Dent. Supply	11,043.12	11,318.75	339.00
Food, Beverage, & Allied Products	9,592.00	8,062.50	396.00
Machinery & Machine Tools	8,180.00	10,625.00	220.00
Office Equipment	8,431.24	12,195.00	619.20
Oil and Gas	6,983.63	20,550.00	1,140.00
Retail Trade	4,266.00	4,775.00	128.00
Tobacco	7,240.63	8,812.50	312.50
Utilities	<u>6,969.45</u>	<u>12,400.00</u>	<u>1,166.00</u>
Total Common Stock	\$ 81,627.07	\$108,226.25	\$ 5,240.70
Grand Total	\$252,814.08	\$265,552.49	\$19,374.82

ANNUAL REPORTS OF COMMITTEES

Report of Action Program - Professional Practice Committee, 1979-1980

The membership of the committee includes:

Domenic E. D'Eramo, Chairman	At Large
Rodney P. Plourde, Vice Chairman	Transportation
Virgil A. Paulson	Environmental
Robert H. Stewart	Environmental
Howard Perkins	At Large
Ara Shrestinian	Construction
William C. Day	Geotechnical
John T. Quinn	Construction

The committee continues to be most active in the area of government regulations and legislation. Through participation in the "Design Professional Joint Government Affairs Council", we have been made aware and reacted with other societies on legislation and regulations affecting the Society. The Council has a lobbyist registered with the Massachusetts Secretary of State. The following is a listing of some of the activities on legislation and other matters.

Senate Bill S.1228: Professional registration of government employees without examination. (In opposition.)

House Bill H.1994: An Act to prevent frivolous malpractice claims against accountants, architects, attorneys, engineers and land surveyors. (In favor.)

House Bill H.2976: An Act to reduce the property tax burden and provide for fairer taxation by closing tax loopholes, increasing state revenues and increasing state assistance to cities and towns, and to limit and control levels of taxation and expenditure. Proposed a 7-1/2% excise tax on a variety of professional services. (In opposition.)

Council aided the Department of Environmental Quality Engineering in the agency's review of the permit process relating to wetlands, hazardous materials, interagency activities and manpower resources.

Opposed policy established by Secretary of Administration and Finance that requires architects, landscape architects and engineers to vie by sealed fee bids for state design contract.

Worked to develop draft legislation on procurement of A/E services in Massachusetts.

Testified at public hearing held by Special Commission Concerning State and County Buildings.

Reviewed legislation and recommendations made by the Special Commission Concerning State and County Buildings.

Initiated a series of "Second Friday Breakfast" with state officials including DEQE Commissioner Cortese, Rep. Beryl Cohen, Secretary Locke and Department of Energy.

City of Boston: Ordinance establishing an Architects and Engineers Qualifications Board; ordinance to be refiled to include selection.

Testified in supports, with comments, on Board of Registration of Professional Engineers and Land Surveyors; proposed changes to rules and regulations regarding professional conduct.

The Committee established liaison with the Boston Chapter of the American Red Cross. The Society will provide expertise in assessing structural damage and flooding potential.

The Committee will make recommendations to the Board of Government for appointments to GSA's Regional Public Advisory Panel and Boston Architectural Center's Advisory Committee on Continuing Education.

The Committee will continue to be most active as a participant on the Design Professionals Joint Government Affairs Council.

Respectively submitted,
Domenic E. D'Eramo, Chairman

Report of Advertising Committee, 1979-1980

The activities of the Advertising Committee this year were limited to reviewing and servicing ads of existing Journal advertisers; no new ads were subscribed.

Since industry advertisers (understandably) do not seem to be too interested in taking ads unless there is something in it for them, I feel that an effort should be made to enlist support of the many consulting firms in the Boston area that do not have professional listing in the *Journal* at the present time. I think the approach used for listings in the "Special Convention Issue" of the *Journal* would be appropriate for this purpose.

Respectfully submitted,
John P. Hurney, Chairman

Report of Annual Meeting Committee, 1979-1980

The Committee arranged for the Annual Meeting to be held at the USS Constitution Museum, Charlestown, Massachusetts. It was the Committee's experience this year that there is great demand in the Boston metropolitan area for quality meeting rooms having capacities suitable for the Section meeting. In order to obtain a suitable location, it is recommended that final arrangements be made by about 1 December of each year.

Respectfully submitted,
Edward B. Kinner, Chairperson

Report of Auditing Committee, 1979-1980

A special audit of the Section checking account was performed for the period 1 October 1978 through 30 April 1979 to account for the change in Section Treasurer which occurred in April 1979. The audit included the following:

1. An accounting of all checks written including voided checks.
2. Review of checks which the Section received for which there was nonpayment.
3. An accounting of all deposits, interest and bank charges.

It was noted that one unsigned check had been issued and processed by the bank.

A calculation of the closing balance commencing with the starting balance and considering the above transactions checked to \$1.00 and indicated no significant discrepancies in the recorded transactions.

Respectfully submitted,
Edward B. Kinner, Vice President
Robert L. Meserve, Director
Leo F. Peters, Secretary

Report of Awards Committee, 1979-1980

The Awards Committee recommends that the Clemens Herschel Award for 1979 - 1980 be presented to Rene W. Luft and Howard Simpson for their paper "Massachusetts Earthquake Design Requirements", published in the Summer, 1979 *Journal*, Volume 66, Number 2.

Respectfully submitted
Paul J. Trudeau, Chairman

Report of Thomas R. Camp Fund Committee, 1979-1980

The Thomas R. Camp Lecture, which has been an annual feature for several years, was changed this year to a Thomas R. Camp Lecture Series. Arrangements were made by the Executive Committee of the Environmental Group for the series of six lectures beginning January 29, 1980, as listed in the annual report of that Group.

Financial status of the Thomas R. Camp Fund is set forth in the report of the Treasurer.

Respectfully submitted,
Benjamin J. Fehan,
Chairman, Environmental Group

Report of Constitution and Bylaws Committee, 1979-1980

The purpose of the Constitution and Bylaws Committee is to interpret the Constitution and Bylaws, recommend changes and modifications, draft amendments and oversee balloting on proposed amendments.

There was no activity of the Committee this year.

Respectfully submitted,
Max D. Sorota
Saul Namyet, Chairman

Report of Continuing Education Committee, 1979-1980

The Continuing Education Committee presented a series of eleven lectures in the fall of 1979 and spring of 1980 to assist practicing engineers preparing for the state registration examination. Total enrollment was fifty five for the year. Questionnaires were distributed and evaluated on the effectiveness of the course and responses were reflected in succeeding lectures.

The Chairman continues to sit on the Continuing Education Committee of the Boston Architectural Society and to participate in its programs.

Respectfully submitted,
Ronald E. Sharpin, Chairman

Report of Disadvantaged Youth Committee, 1979-1980

This committee recommended to the Board of Government that its scope be enlarged to encompass minority affairs in general. The Board approved and voted on March 17, 1980 to change the name to Minority Affairs Committee. The members are now formulating new goals for 1980-1981.

Respectfully submitted,
Donald T. Goldberg, Chairman

Report of Employment Conditions Committee, 1979-1980

Goals & Objectives:

1. To make the general membership of the Society aware of the new committee's existence;
2. To stimulate interest in the committee by
 - (a) proffering itself as a committee established to aid in retaining and building the professional environment of civil engineers;
 - (b) stressing that it will aid both the employer and employee; and
3. To work more closely with ASCE's national Committee on Employment Conditions.

Present and future committee activities:

1. The committee arranged for Larry Whipple of ASCE National to speak at the Society's monthly luncheon on January 22, 1980.
2. The committee is working with Robert Barton, Chairman of the ASCE Employment Conditions sub-committee on supply of and demand for engineers, and with Rick Scranton and Jack Cochran of Northeastern University on their mail survey of Northeastern graduates' employment history, conditions, and problems.
3. The committee requested that the Board of Government contribute \$500 toward financing the above survey.

Respectfully submitted,
Kevin K. Egan, Chairman

Report of Ad Hoc Energy Committee, 1979-1980

As a possible first step toward organization of a technical group concerned with energy, the Board of Government, in 1979, approved formation of an ad hoc Energy Committee, with the following functions:

- (a) Formulate an energy policy for the BSCE Section.
- (b) Provide a forum to discuss energy needs and how to fill those needs.
- (c) Become an action group to originate and support proper energy legislation.

The committee's initial activity was a dinner meeting at the MIT Faculty Club on May 6, 1980, with a panel discussion on "The MBTA and Future Energy Needs; Is Nuclear Power the Answer?" The speakers were: Robert Foster, Chairman, Massachusetts Bay Transportation

Authority; Senator Michael LoPresti, Co-Chairman of the Massachusetts Senate-House Energy Committee; and Fran Weidenmann, Nuclear Information Officer, Boston Edison Company.

The panelists discussed whether use of the outmoded MBTA power plant should be continued, in view of the fact that Boston Edison can produce power at lower cost, and also discussed the future for nuclear power in this region.

Respectfully submitted,
Peter K. Taylor, Chairman

Report of John R. Freeman Fund Committee, 1979-1980

The Tenth John R. Freeman Memorial Lecture, "The Annual Water Balance" by Peter S. Eagleson, was published in the Spring 1979 *Journal* and, as Proc. Paper 14781, in the August 1979 *Journal of the Hydraulics Division* of the American Society.

The Committee made the January 23, 1980 meeting of the Hydraulics Group possible by paying the expenses of the speaker, Professor John Paul Tullis, who came from Utah State University, Logan, Utah to speak on the subject "Cavitation and Damage in Piping Systems."

The standing Freeman Hydraulics Prize, \$2,500, for an exceptionally useful paper in the field of hydraulic engineering, was announced in the Autumn 1979 *Journal*.

The Committee strongly endorses the serious efforts of the Publications Committee and the Executive Committee to improve the content of the *Journal*. Toward that objective it recommends that BSCES establish a firm policy of publishing in the *Journal* in-depth reports, including prints of slides, of all technical meetings. Various devices could be employed for reporting. Most desirably, the speaker himself (or herself) would submit a fully illustrated paper at the time of the talk or shortly thereafter. Recent experience has been most unfortunate in this respect, however. Alternatively, the Technical Group could assign someone to take good notes on the talk, aided, if desired, by a tape recorder, and prepare a writeup, including a selection of the speaker's slides, which would then be reviewed and edited by the Group's Executive Committee and/or the speaker. There being some 34 technical meetings in a typical year, the recommended reporting should result in an additional 100 or so interesting and worthwhile *Journal* pages per year, which would certainly enhance the *Journal's* value. The reporting activity in itself would provide a positive stimulus to the technical groups that would carry over to the entire Society. The Society as a whole should encourage this suggested reporting activity by giving all necessary support to the real costs of report presentation - taping, typing, retyping, mailing etc. The Freeman Fund would be a logical source of some of the needed support, and the Committee would welcome a considered proposal in this regard.

Respectfully submitted:
THE JOHN R. FREEMAN FUND COMMITTEE
David R. Campbell
Harry L. Kinsel
Lawrence C. Neale
Donald R. F. Harleman
Lee Marc G. Wolman, Chairman

Report of History and Heritage Committee, 1979-1980

While no additional National Historic Civil Engineering Landmarks were designated for Massachusetts since our last report, the year has been a particularly active one.

Nominations are now in process for two NHCEs: the Charles River Basin, and the Watertown Arsenal; the latter for the early and important materials testing that was conducted there.

Our nomination of Harvard Stadium for National designation was not accepted. If supplementary documentation on its national significance is not forthcoming, the stadium will be nominated as a Massachusetts Historic Civil Engineering Landmark. Also being processed for local designation are the Borden Base Line, the South Hadley Canal, and the Post truss bridges in Lancaster. Others are in preliminary stages.

Contact with the Museum of Transportation on the preservation of early civil engineering plans continues. It is expected that the development of their new library will start shortly.

Also of interest is contact with the American Society of Metals and the Public Works Historical Society on their historic landmarks programs.

This year the Chairman of your committee is serving as a member of the ASCE Committee on the History and Heritage of American Civil Engineering. This provides BSCE Section with a closer connection with the extensive programs of the National Society in this field of activity.

The coming year should be an active, interesting, and productive one for the Committee. Others wishing to participate would be welcome.

Richard Battles
Gary S. Brierley
Gerald C. Potamis
H. Hobart Holly, Chairman

Report of Investment Committee, 1979-1980

The Committee met in February, 1980 with the Custodian of the Section's funds, Boston Safe Deposit and Trust Company, and found its handling of the Section's holdings satisfactory.

Respectfully submitted,
Norman W. Bennett, Chairman

Report of Key Man Committee, 1979-1980

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

At present there are 51 firms or institutions with key men tied into the committee and the effectiveness in boosting attendance at society functions appears to be satisfactory.

Respectfully submitted,
Frank J. Cullati, Chairman

Report of Lecture Series Committee, 1979-1980

The Lecture Series Committee met twice during the year, once as the Program Committee to coordinate the schedule of the lecture series with that of Technical Group meetings, and a second time to review the lecture series held this year.

Lecture series were held as follows:

<i>Group</i>	<i>Dates</i>	<i>Number Sessions</i>	<i>Topic</i>
Environmental	Jan. - March	6	Water and Wastewater Engineering
Geotechnical	Oct. - Nov.	6	Embankment Dams
Structural	Oct. - Nov.	6	Structural Renovation and Rehabilitation of Buildings

In general, the lecture series were well attended and realized profits to support Section activities. Subsequent series have been scheduled as follows:

Fall 1980	Hydraulics
Fall 1981	Structural
Spring 1981	Geotechnical
Winter 1982	Environmental (tentative)

Advance planning of the Section's lecture program is imperative. It is the consensus of the Committee that at least one year is required to adequately plan and organize an individual lecture series. In addition, general planning of all Group activities is required so that two or more series are not held concurrently as happened this year. Concurrent series have the disadvantage of making it difficult for an individual to attend all sessions that he might be interested in, and of producing a non-uniform cash flow for the Section.

In order to facilitate planning of future lecture series, it is important that there be follow through and coordination between successive lecture organizers. It is the Committee's recommendation that individuals who were responsible for running the most recent series for each group interface with the planners of the following series. Only in this way would the Section benefit from past experience.

Respectfully submitted,
Edward B. Kinner, Chairperson

Report of Membership Committee, 1979-1980

The Membership Committee this year consisted of Judy Donnellan, George Bollier, Thomas Carabine, James Errico, and Richard Simon, Chairman. The Committee's goal for 1979-1980 was to enlist 100 new members. The following programs were organized to attain this goal:

- Sign-up lists were instituted at the technical group meetings. Non-subscribers were contacted by a membership committee member by telephone to urge them to join the Section. The "Why Join" brochure was distributed to technical group chairmen to be available at the group meetings.
- A subscriber enlistment package was distributed to about 900 ASCE members in the Massachusetts area who are not BSCES subscribers, to urge them to join the Section. The package consisted of the National Convention Issue of the BSCE Section *Journal*, the "Why Join" brochure, and a cover letter. About one-third of these packages were personally delivered by BSCES members who agreed to add a personal message to those people working with them. Two-thirds of the packages were direct-mailed. Distribution started in mid-February.

- The ASCE student chapter advisers were contacted to gain an opportunity to get a personal message to the graduating seniors about the benefits of Society membership. As the end of the school year approaches, this effort will intensify.
- The committee has encouraged the Board of Directors to clarify the Society's qualifications for Affiliate Member; this was done at the March Board meeting. The committee will begin a program to encourage technical professionals who may not be graduate engineers to join the Section as Affiliates. All Section members will be asked to enlist their coworkers.

As of mid-March, the Section has had 56 new member applications including 16 who joined as a result of the recent drive to enlist ASCE members. Since that drive is just underway, we hope the goal of 100 new members may be met by the fall.

Respectfully submitted,
Richard M. Simon, Chairman

Report of Monthly Luncheon Series Committee, 1979-1980

This year a series of luncheon meetings was initiated to provide a monthly function where the membership can meet and timely professional topics can be discussed.

The luncheon meetings were held at the Great Hall, Quincy Market and the March meeting attracted over 90 persons. The meetings held were:

1. Tuesday, November 13, 1979; Speaker: Joseph Lawler, Chairman of the Board, Camp, Dresser and McKee
2. Wednesday, December 12, 1979; Speaker: John M. McNamara, Senior Financial Analyst, Northeast Solar Energy Center
3. Tuesday, January 22, 1980; Speaker: R. Lawrence Whipple, Director, Engineering Management Service, American Society of Civil Engineers
4. Thursday, March 13, 1980; Speaker: Francis Connell, Vice President, Zone 1, American Society of Civil Engineers.

Respectfully submitted,
Donald Goldberg
Nicholas Mariani
Cranston Rogers
Brian Hogan, Chairman

Report of Nominating Committee, 1979-1980

In accordance with the Bylaws of the Boston Society of Civil Engineers Section, American Society of Civil Engineers, Article 3, Section 3, the Nominating Committee has met and completed its assignment.

The Committee had meetings on October 30, 1979, November 20, 1979, December 11, 1979 and January 3, 1980.

Members of the Committee were:

Bertram Berger, Chairman (Sr. Past President)
 Dr. Charles Ladd, Vice Chairman (Past President)
 John P. Sullivan, Clerk (elected 1978)
 Dr. Howard Simpson, (Past President)
 Paul Trudeau (elected 1978)
 Sandra Johnson-Cointreau, elected 1978, (resigned)
 Franklin B. Davis (elected 1979)
 Richard DiBuono (elected 1979)
 Warren H. Ringer (elected 1979)

The Committee selected the following members for consideration of ASCE National Professional Committees for Zone 1. Forms were sent to the nominees on December 18, 1979 with a request to complete and return to the BSCES office for filing with the American Society of Civil Engineers by February 1, 1980. The following were recommended for the positions:

Committee on Standards of Practice, Max D. Sorota
 Committee on Student Service, Michael Kupferman
 Committee on Integration of Education and Practice, John Christian
 Committee on Registration of Engineers, No Candidate

Also, the Committee carefully evaluated the members of the Section, past and present chairman of the technical groups and their performance and recommend the following slate for 1980-1981:

President
 Vice President
 Secretary
 Treasurer
 Directors (two year term)

Nominating Committee
 (three to be selected)

Dr. Frank E. Perkins
 Stanley C. Rossier
 Rubin M. Zallen
 Norman W. Bennett
 Dr. Rodney P. Plourde
 John P. Sullivan

Benjamin J. Fehan
 John R. Roma
 Prof. Richard J. Scranton
 Dr. Ronald E. Sharpin
 Paul A. Taurasi
 David E. Thompson

All nominees for national positions and section offices were contacted and their consent to serve obtained.

The Committee also resubmitted credentials of Dr. Albert G. H. Dietz, of MIT in nomination for Honorary Member of the American Society of Civil Engineers. (Approved by ASCE national.)

Records of all meetings were kept for information of the incoming chairman of the Nominating Committee.

Respectfully submitted,
 Bertram Berger, Chairman

Report of Operations Manual Committee, 1979-1980

Operational procedures of the Section continued to be monitored during the year for purposes of maintaining the Manual current. While no revisions were made during the year, several additions and changes are being planned and will be incorporated shortly.

Respectfully submitted,
Edward B. Kinner, Chairperson

Report of Program Committee, 1979-1980

The Program Committee met once to plan and coordinate the schedule of Technical Group meetings for the year. A total of 31 meetings were scheduled by the seven Technical Groups; one of the meetings was a joint meeting by two Groups. The Program Committee also arranged scheduling for the Section's Annual Meeting and Student Night.

It has generally been possible to retain the tradition of scheduling technical meetings on Wednesday evenings. However, to avoid conflicts with lecture series, special meetings and holidays, it is necessary to schedule five of the Group meetings for Tuesday evenings.

Concern continued to be voiced by several of the Group chairmen over the format being used for meeting notices. This matter was discussed by the Board of Government, and the decision was made to continue the present format of up to three notices per single sheet.

Respectfully submitted,
Edward B. Kinner, Chairperson

Report of Publications Committee

During the past year, four issues of the BSCE *Journal* were published as Volume 66, Numbers 1 through 4. There continue to be about 2100 subscribers to the *Journal*, about 300 of them being from non-members, mostly libraries. A sincere word of thanks is extended to the *Journal* editor, Ed Keane, for his continued efforts to bring the *Journal* to print each quarter in a timely and efficient manner.

We continue to experience a serious problem in obtaining technical papers for publication in the *Journal*. This past year we received only eight papers for review. Of these, seven were reviewed and accepted for publication; the eighth is currently undergoing review. This small number of submitted papers resulted in spite of repeated solicitations to the technical groups and the adoption of a policy that would permit publication of outstanding papers published previously in the form of lecture series notes. It is increasingly clear that if the *Journal* is to survive as a viable publication in which we can take pride, even more aggressive and imaginative steps must be taken in the future to produce a reservoir of worthy papers. In the absence of successful steps in this regard a serious reappraisal of our publications policies and objectives will be necessary.

Submitted by,
Frank E. Perkins, Chairman

Report of Public Relations Committee, 1979-1980

The committee was composed this year of the following members:

Robert J. Dunn, Jr.
Virgil A. Paulson
John W. France
Burt B. Jamison

This year showed great promise and enthusiasm for the committee and its activities. It was necessary however for the committee to revitalize and focus efforts on its two primary responsibilities:

- to increase awareness of the accomplishments of its members within both ASCE and the BSCE Section and
- to attempt to bridge the gap of public awareness, understanding and appreciation of civil engineering as a “people serving” profession.

The committee was successful in attempts to establish working relationships and personal contacts with the television and news media to achieve these goals.

The following is a list of committee activities:

1. Establishment of an annual BSCE Section Outstanding Civil Engineering Achievement Award (OCEA) to recognize projects that best exemplify the “people serving” aspect of the profession. On January 21, 1980, the committee submitted proposed guidelines to govern OCEA procedures; they were approved by the Board of Government on March 17, 1980.
2. Development of a Public Service Announcement program. Arrangements have been made with television station coordinators for running various ASCE “people serving” film clips on “Structures”, “Environment”, “Energy”, “Water” and “Transportation”. It is hoped that these films will be aired frequently.
3. Development of selected Television Program participation. The committee’s contacts with WBZ-TV resulted in an opportunity for participation in the station’s consumer-oriented program “Money Series”, and arranged for an appearance by Ernest Herzog, principal of Herzog-Hart Corp. and Past President of BSCE, on the segment which was aired on April 1, 1980 at 8 pm.
4. Newspaper contacts. The committee has arranged with the *Boston Globe’s* financial page coordinator to carry notices of certain Section events on the Business Calendar of the Sunday edition. Looking ahead to 1980-1981, the committee anticipates continued development of such contacts with TV, newspapers.

Respectfully submitted,
Robert J. Dunn, Jr., Chairman

Report of Social Functions Committee, 1979-1980

Committee Responsibilities. The Social Functions Committee continued its second year of operation and is responsible for social functions other than the annual dinner.

Committee Members. As in the previous year the Chairman drew help from the 19 members who had volunteered, in the 1977 survey, to work with the Committee. These members worked on the two functions held, the annual clambake and the winter dance.

Annual Clambake. The clambake was again held at the Concord Rod and Gun Club, on Wednesday, August 1. Walter Toner was in charge and was assisted by four other members.

Two hundred thirty seven members and guests were present and in spite of inclement weather it was a great success. Door prizes were donated by various firms and also supplemented by the \$200 ticket sales. There was modest interest in some participation sports (horseshoes, boccie and frisbee). A profit of \$183 was realized.

The location and general time frame seem to be well accepted and it would seem appropriate to continue on an annual basis.

St. Patrick's Day Dance. A winter dance was held on March 15, 1980 at the Great Hall of Quincy Market which had been the site of the 1979 Valentine's Dance. John Lukacz handled this affair with the assistance of five members.

Due to an extremely late mailing notice, attendance was very poor although it appeared to be a definite social success. It also was held on a night with a number of competing activities. The attendance was approximately 70 persons resulting in a loss of approximately \$1100.

Recommendations. The Committee suggests the following:

- The joint Social Functions Committee should be continued.
- The annual clambake should be continued and held at the Concord Rod and Gun Club with the same format, around early August.
- The winter dance should be continued in either February or March with the same format but better publicity.
- The new committee chairman should review the Ad Hoc Committee report and give consideration to other social functions that were suggested.

Respectfully submitted,
Robert A. Snowber

Report of Student Affairs Committee, 1979-1980

The Student Affairs Committee this year consisted of: Michael Kupferman, Chairperson, Sidney Beeman, Steven L. Bernstein, John R. Roma, Richard J. Scranton, Thomas Taddeo and Paul J. Trudeau.

Regular business included:

- sponsorship of a Leadership Workshop for ASCE Student Chapter members held at Northeastern University on October 6, 1979;

- sponsorship of Student Night held at the University of Massachusetts, Amherst on February 26, 1980;
- liaison with ASCE Student Chapters;
- solicitation of funds from area firms for student loans;
- arranging for Contact Members for schools in need of Contact Members; and
- establishment of the Roger F. Gardner Memorial Scholarship.

The Student Leadership Workshop, attended by student advisors, contact members and representatives of student chapters, was designed to enhance the operation of Student Chapters. Among the topics discussed were Planning a Project, Public Relations and Role Determinations. The 25 people in attendance thought the workshop informative and worthwhile and recommended that it become an annual event.

The Student Night Dinner Meeting was attended by 97 students and 44 professionals. Following the dinner and an introduction by Michael Kupferman, William Zoino, President of BSCE Section, presented the following awards from ASCE National:

Certificates of Commendation:

Northeastern University
Southeastern Massachusetts
University
Tufts University
University of Massachusetts

Letter of Honorable Mention:

University of Lowell

ASCE Awards for Outstanding Service:

S. Beeman (CM) SMU	M. Kupferman (FA) NU
W. Boyer (FA) UMass	F. Law (FA) SMU
R. Brown (CM) Tufts	D. Leitch (FA) ULowell
L. Edgers (FA) Tufts	J. Markiewicz (CM) ULowell
A. Hamadeh (CM) Tufts	T. Neff (CM) SMU
R. Hassett (CM) UMass	R. Scranton (FA) NU
A. Hatheway (CM) NU	R. Snowber (CM) NU
R. Joubert (CM) ULowell	L. Webster (CM) UMass

President Zoino presented the following BSCE Section awards:

Desmond Fitzgerald Scholarship (\$200)	Mark E. Lewis Northeastern University
William P. Morse Scholarship (\$200)	Julia U. Uffner Tufts University
BSCES Student Loan (\$1,000)	Patrick E. Horne University of Massachusetts
BSCES Student Loan (\$1,000)	Alan Wironen University of Lowell

Howe-Walker Student Awards:

Massachusetts Institute
of Technology
Merrimack College
Northeastern University

Pierre Montauben
Cynthia Royal
Rick L. Wade
Denise Beaumont

Southeastern Massachusetts
University
Tufts University
University of Lowell
University of Massachusetts
Wentworth Institute
Worcester Polytechnic Institute

Mitchell Winkler
Mark S. Bucknam
Christopher Hess
Mary C. Sanderson
Peter T. Greene
Michael Cheamitru

Guest speaker for the evening was Dr. Helen Caldicott, President, Physicians for Social Responsibility and physician at the Children's Hospital Medical Center. Dr. Caldicott gave a thought-provoking presentation on "Nuclear Power and Nuclear Weapons: The Medical Effects". Although a somewhat controversial speaker and topic, the vast majority of those present enjoyed the evening tremendously.

The Students Affairs Committee continued the task of soliciting funds for the interest-free student loans presented each year on Student Night. Solicitations were made to over 600 area firms. Special thanks are extended to the following firms, whose generosity makes this endeavor possible:

Camp Dresser & McKee, Inc.
Carr Dec Test Boring & Construction Corp.
Curran Associates, Inc.
Richard J. Donovan, Inc.
Fay, Spofford & Thorndike, Inc.
Franki Foundation, Inc.
Geotechnical Engineers, Inc.
Goldberg-Zoino & Associates, Inc.
Haley & Aldrich, Inc.
Keyes Associates
Francis H. Ledgard
CE Maguire, Inc.
Charles A. Perkins, Inc.
John J. Rency, P.E.
Kenneth C. Sherman
Sippican Consultants International, Inc.
Stone & Webster Engineering Corp.
Whitman & Howard, Inc.
Vollmer Associates, Inc.

The Student Affairs Committee also maintained contact with Student Chapters in Massachusetts throughout the year and made itself available to aid in their activities.

The entire Student Affairs Committee was greatly saddened this past year by the death of its chairperson, Roger Gardner. The Student Affairs Committee and the entire engineering profession lost a young engineer of tremendous potential who unselfishly gave his time and energy for the development of civil engineering students. In Roger's memory, a scholarship has been established. The Roger F. Gardner Memorial Scholarship will be presented annually to a civil-minded student chapter member for voluntary aid to the community.

In 1980, the Student Affairs Committee intends to strengthen the ties between the Student Chapter and the engineering profession and will continue to promote efforts to this end.

Respectfully submitted,
John H. Roma, Secretary
Michael Kupferman, Chairperson

ANNUAL REPORTS OF TECHNICAL GROUPS

Report of Computer Group, 1979-80

The Executive Committee this year included the following:

Robert A. Wells	Chairman
John D. Goodrich	Vice Chairman
Glenn Orenstein	Clerk
Mukti Das	Member
David Alschuler	Member
Salvatore G. Mazzotta	Member

Four regular meetings of the Computer Group were held; all were dinner meetings at the MIT Faculty Club.

October 24, 1979 — Speaker, Dr. Ziad Ramadan, Multisystems, Inc., on "The MBTA Integrated Cost and Scheduling Control System". Attendance, 12.

December 11, 1979 — Speaker, Ms. Donna Cheney, Harvard Associates, on "Word Processing in an Engineering Office". Attendance, 29.

February 13, 1980 — Speakers: Colin J. Stearman, Metcalf & Eddy and Edmund W. Stabile, The Foxboro Company, on "Distributed Computers in Process Control". This was also an official meeting of the BSCE Section. Attendance, 19.

April 30, 1980 — Speaker, John P. Murphy, Weather Services Corporation, on "Computers in Weather Forecasting". Attendance, 9.

Members of the Executive Committee for 1980-1981 will be as follows:

John D. Goodrich	Chairman
Glenn Orenstein	Vice Chairman
Mukti Das	Clerk
Dr. Ziad Ramadan	Member
Dr. Gonzalo Castro	Member
Robert A. Wells	Member

Respectfully submitted,
Robert A. Wells, Chairman

Report of Construction Group, 1979-1980

The Executive Committee this year consisted of the following:

Chairman	John R. Roma
Vice-Chairman	Charles A. Rosselli
Clerk	Robert D. Lignowski
Member	Stephen G. Walker
Member	John P. Sullivan
Member	Norman Bennett

The following meetings were held during the past year.

September 19, 1979 — Dinner meeting at the MIT Faculty Club; a panel discussion on "Wetlands Construction". The panel consisted of (1) James C. Colman, Director, Division of Wetland Protection, Department of Environmental Quality Engineering, (2) Roderick C. Gaskell, Investigator and Technical Advisor, Wetlands and Water Resources, Environmental Protection Division, Department of Attorney General, (3) Charles P. Magri, Principal, J&C Homes, Inc.,

and Vice-President, Builders Association of Greater Boston, (4) Gregor I. McGregor, Attorney specializing in Environmental Law, Land Control, Public Health Law, and Government Regulations, (5) Anton T. Moehrke, Assistant Attorney General, Environmental Protection Division, and (6) Maurice Freedman, Principal, Sasaki Associates. Attendance, 38 professionals and 30 students. This was also an official BSCE Section meeting.

November 14, 1979 — A scheduled meeting on "Industry Location: Past and Future" to have been presented by Roger Schmenner of the Harvard-MIT Joint Center for Urban Studies, was cancelled due to lack of interest.

January 16, 1979 — Dinner meeting at Northeastern University, hosted by the NU Student Chapter. Robert Lignowski, Principal, Atlantic Post-Tensioning Systems, spoke on "Architectural, Job-Cast, Tilt-Up, Bearing Walls for Industrial Buildings". Attendance, 16 professionals and 10 students.

March 12, 1980 — Dinner meeting at the Cottage Crest Restaurant, Waltham. Russell J. Kenney of R. J. Kenney Associates spoke on "Methods of Investigating Construction Defects". Attendance, 16 professionals and 16 students.

May 28, 1980 — A joint meeting with the Geotechnical Group and the BSCE's Western Branch is scheduled to be held at the Engineers Club, Boston. The subject will be the ground support systems for the MBTA subway construction at Harvard Square.

Officers of the Construction group for 1980-1981 will be: Charles A. Rosselli, Chairman and Donald W. Nickerson, Vice Chairman.

Respectfully submitted,
Charles A. Rosselli, Vice-Chairman

Editor's Note: The May 28 meeting was held as scheduled. Attendance was 118.

Report of Environmental Group, 1979-1980

The Executive Committee this year consisted of the following members:

Chairman	Benjamin J. Fehan
Vice Chairman	Steven H. Corr
Clerk	Gerald C. Potamis
Member	James C. O'Shaughnessy
Member	Edward Boyajian
Member	Richard K. Smith, Jr.

The following meetings were held:

November 7, 1979 — Dinner meeting at Purcell's Restaurant. Dean R. Johnson, Research Director, Mass. Special Legislative Commission on water supply and Robert A. Weimar, Project Manager, Camp, Dresser & McKee spoke on "Well Contamination - A Solvable Problem". This was also an official meeting of the BSCE Section. Attendance, 60.

January 29, 1980 to March 18, 1980 — Thomas R. Camp Lecture Series, held at the Green Building, MIT. The following were the speakers and their topics.

- 1 - William A. Perkins - Well Development and Design
- 2 - Frank M. Gunby, Jr. - Pump and Pump Station Selection and Design
- 3 - John C. Thompson - Pilot Plant Studies for Process Selection and Design
- 4 - James C. O'Shaughnessy - Design of an RBC Unit Operation
- 5 - Peter T. Silbermann - Design of a Septage Disposal System
- 6 - Donald E. Schwinn - Sewage Treatment Plant Sludge System Design

The series was very well received. Attendance varied between 75 and 105.

May 7, 1980 — The annual outing of the Environmental Group was a field trip to the Charles River Pollution Control District WWTP in Medway, Massachusetts. James E. Leu, Vice President, Camp, Dresser & McKee Inc. and Robert McRae, Chief Operator, Charles River Pollution Control District WWTP spoke at the dinner meeting which followed the tour. Attendance, 58.

This was also the annual meeting of the Environmental Group and an official meeting of the BSCE Section. The following officers were elected for the coming year.

Chairman	Steven H. Corr
Vice Chairman	Gerald C. Potamis
Clerk	James C. O'Shaughnessy
Member, Executive Committee	Edward Boyajian
Member, Executive Committee	Richard K. Smith, Jr.
Member, Executive Committee	Stephen H. Geribo

Respectfully submitted,
Benjamin J. Fehan, Chairman

Report of Geotechnical Group, 1979 - 1980

The following were officers of the Geotechnical Group this year.

Chairman	Anthony C. Barila
Vice Chairman	Joseph D. Guertin
Clerk	Asaf Qazilbash
Member, Executive Committee	Lewis Edgers
Member, Executive Committee	Joseph J. Rixner
Member, Executive Committee	James Weaver
Member, Executive Committee	Nuri Georges
Chairman, Forum Committee	Joseph Engels

The Group held the following meetings this year:

September 12, 1979 — Dinner meeting at Blossom's Restaurant. "Geotechnical Aspects of Railroad Ballast Design", a lecture by Dr. E. T. Selig, of the University of Massachusetts, Amherst. Attendance, 45.

December 18, 1979 — Dinner meeting at Mugar Hall, Tufts University. "Underground Corrosion Consideration in Stray Currents and Chemical Waste Environment", a joint lecture by: Dennis L. Rossi of Health Consultants; Dr. David R. Cogley of GCA Technology Division; and Harold L. Gordon of Stone & Webster Engineering Corp. Attendance, 63.

January 22, 1980 — Dinner meeting at Mugar Hall, Tufts University. "Design and Construction of Ground Anchors", a lecture by Dr. G. S. Littlejohn of Colcrete, Ltd. This was also an official BSCE Section meeting. Attendance, 75.

February 20, 1980 — Dinner meeting at Mugar Hall, Tufts University. "Problems Associated with the Siting of Waste Disposal Areas", a joint lecture by: Gary Holland of IEP; William Cass of DEQE; and Art Lazarus of CE Maguire, Inc. Attendance, 48.

March 13, 1980 — Dinner meeting at the Engineers Club. "Acoustic Emissions in Soil and Rock - Overview", a lecture by Dr. Robert M. Koerner of Drexel University, presented at the Engineers' Club. This was a joint meeting with the Association of Engineering Geologists. Attendance, 15.

April 8, 1980 — Dinner meeting at MIT Faculty Club. "Groundwater Control", a Potpourri meeting with presentations by: Matt DiPilato, Goldberg, Zoino, Dunnicliff & Assoc.; Francis D. Leathers, Geotechnical Engineers, Inc.; Wayne Kilker, Stone & Webster Engineering Corp.; and Brendon Harley, Camp, Dresser & McKee. Attendance, 71.

May 28, 1980 — "Ground Support Systems at the Harvard Square Station", a lecture by James C. Roop of Franki Foundation Co. and Eldon Abbott of Parsons, Brinckerhoff, Quade and Douglas, presented at the Engineers' Club. This meeting was a joint meeting with the Construction Group of BSCES and its Western Branch. Attendance, 118.

Lecture Series — A lecture series arranged by the Geotechnical Group, on "Embankment Dams" began on October 17, 1979. Attendance was 250. The chairman for the lecture series was Alton Davis of Chas. T. Main. The subjects and lecturers were:

October 17, 1979 — "Evolution of Design, Construction and Operational Practices of Embankment Dams", by Wallace Chadwick.

October 23, 1979 — "Control of Seepage", by Dr. Arthur Casagrande.

November 13, 1979 — "Geotechnical Site Evaluation - Embankment Dams", by Dr. Ronald Hirschfeld.

November 20, 1979 — "Construction Instrumentation and Performance of Embankment Dams", by Stanley Wilson.

November 27, 1979 — "Inspection, Analysis and Evaluation of Non-Conventional Embankment Dams", by William Wahler.

December 3, 1979 — "Effects of Large Strains on Shear Strength Selection for Stability Analysis", by Dr. Steve Poulos followed by a panel discussion with Dr. Steve Poulos, Dr. T. W. Lambe, Dr. Harl Aldrich, and William Zoino.

Officers and Executive Committee members for 1980 - 1981 are as follows:

Chairman	Joseph Guertin
Vice Chairman	Asaf Qazilbash
Clerk	Lewis Edgers
Member, Executive Committee	Joseph Rixner
Member, Executive Committee	James Weaver
Member, Executive Committee	Nuri Georges
Member, Executive Committee	Joseph Engels

Respectfully submitted,
Asaf Qazilbash, Clerk

Report of Hydraulics Group, 1979-1980

The Executive Committee for this year consisted of the following members:

Chairman	Russell L. Peterson
Clerk	Robert H. Taylor, Jr.
Member	Paul F. Shiers
Member	Dean K. White
Immediate Past Chairman	Richard J. DiBuono

The following meetings were held during the year:

October 10, 1979 — Evening meeting at Ralph M. Parsons Water Resources Laboratory Room 48-316, MIT. "The Three Mile Island Incident". Mr. Frank Gilbert, Supervisor, Equipment and Systems Testing, Stone & Webster Engineering Corp., gave an overview of the circumstances leading up to the accident and the sequence of events that took place during the ensuing emergency cool-down operations and clean up. This was also an official meeting of the BSCE Section, ASCE. Attendance, 18.

December 6, 1979 — Evening meeting at MIT, Room 48-316. "Small Hydro Development in New England". Mr. B. H. Adams, Project Manager, Klienschmidt & Dutting, Inc. described recent developments in small hydro power in New England. He discussed how hydro sites are being evaluated and the use of package units. The technical and economic aspects of the Shawmut Hydroelectric Project on the Kennebec River in Maine were discussed in detail. Attendance, 42.

January 23, 1980 — Evening meeting at MIT, Room 48-316. "Cavitation and Damage in Piping Systems". Prof. J. Paul Tullis, Utah State University, described his research activities and recent publications on cavitation in piping systems; also the state of the art of research on cavitation in closed conduits, methods of predicting cavitation intensity and methods for suppressing cavitation and lessening damage potential. This meeting was made possible with the assistance and cooperation of the John R. Freeman Fund Committee. Attendance, 34.

March 26, 1980 — Dinner meeting at Purcell's Restaurant. "Solar Heating for Homeowners". Robert O. Smith, Principal, R.O. Smith & Assoc., Consulting Engineers, described a wide variety of solar heating applications, both "new" and "old", and some very new developments in reflective glass and "heating salts". Attendance, 46.

May 8, 1980 — Evening meeting at MIT, Room 48-316. "Design of a Rock Carpet Fish Reef" was the title of the paper by Dr. Cyril Galvin of Springfield, Va., a coastal engineer in private practice, formerly Chief of the Coastal Process Branch, U.S. Army Coastal Engineering Research Center. Wave dynamics and kinematics as affecting the design of stable non-silting porous rock cover for near-shore areas were discussed. Such structures will enhance the fish life in areas with naturally sandy or muddy sea beds. Attendance was 15.

Hydraulics Group officers for 1980-1981 were elected at the meeting. The Executive Committee for the coming year will include the following:

Chairman	Dean K. White
Vice Chairman	Paul F. Shiers
Clerk	Varoujan Hagopian
Member	Richard J. DiBuono
Member	Russell L. Peterson
Member	David A. Spieler

Plans are underway for a lecture series to be held during the Fall of 1980 entitled, "Hydro Power in New England".

Respectfully submitted,
Russell L. Peterson, Chairman

Report of Structural Group, 1979-1980

The Executive Committee this year consisted of the following members:

Chairman	Richard A. Foley
Vice Chairman	James M. Becker
Clerk	Kenneth B. Wiesner
Member-at-Large	Maurice A. Reidy
Member-at-Large	Thomas Tsotsi
Student Member	Bruce Wile, Northeastern
Immediate Past Chairman	Franklin B. Davis

The scheduled meetings held by the Structural Group were as follows:

October 3, 1979 — Evening meeting at Green Building, MIT. Dr. John W. Reed, President, Jack R. Benjamin and Associates, Inc., presented the AISC T.R. Higgins Lectureship Award paper entitled "Human Response to Wind-Induced Motion of Buildings". Dr. Reed presented results of surveys of occupants of two tall buildings following wind storms. His lecture presented a method of analyzing and evaluating tall buildings in relation to wind-induced motion discomfort to occupants. Tentative criteria for acceptable motion levels, based on the occupant surveys, were proposed. Sounds recorded during wind-induced motion of several buildings were presented. Attendance, 90.

December 12, 1979 — Evening meeting at Ell Student Center, Northeastern. Four speakers presented a program entitled "New 1979 Massachusetts Building Code - Structural Aspects". The speakers and their topics were:

George S. Brattin, P.E., State Code Commission Staff; General Administrative Aspects of the Code, plus Chapter 22 on rehabilitation of existing buildings.
H. William Hagen, P.E., Loads Advisory Committee; Building Loads.
Michael W. C. Emmerson, P.E., Soils Advisory Committee; Soils and Foundations
Howard Simpson, P.E., Seismic Advisory Committee; Seismic Design

This was also an official meeting of the BSCE Section. Attendance, 80.

February 6, 1980 — Evening meeting at MIT Center for Advanced Engineering Studies. Carl C. Caskadon, U.S. Steel Corporation, presented and discussed a film program, featuring "Construction of the New River Gorge Bridge" in West Virginia, the world's longest steel arch span. Mr. Caskadon also showed the film "Getting There from Here", a documentary narrated by Lowell Thomas which outlined U.S. Transportation needs in the 1980's and beyond. Attendance, 80.

April 9, 1980 — Evening meeting at MIT Center for Advanced Engineering Studies. Mr. Jack R. Janney, Structural Consultant, formerly President, Wiss, Janney, Elstner and Associates, spoke on "Lessons from Structural Failures". Attendance, 100.

At the April 9th Meeting, an election was held for members of the Executive Committee for the year 1980-1981, with results as follows:

Chairman	James M. Becker
Vice Chairman	Kenneth B. Wiesner
Clerk	Maurice A. Reidy
Member-at-Large	Thomas Tsotsi
Member-at-Large	Emile W. J. Troup
Student Member	James Minkoff, Tufts
Immediate Past Chairman	Richard A. Foley

Lecture Series — Besides the four regularly scheduled meetings, the Structural Group, in cooperation with the Massachusetts Institute of Technology, sponsored a lecture series on the subject "Structural Renovation and Rehabilitation of Buildings". The program of six lectures was held at Room 54-100, Green Building, MIT, except the initial lecture, held at Faneuil Hall in Boston. Attendance varied from 200 to 210. The lectures are briefly described as follows:

October 9, 1979 — Carl Condit, Professor of History, Art History, and Urban Affairs, Northwestern University, gave the introductory lecture on "Evolution of Building Structures in the United States".

October 16, 1979 — Mr. Jack R. Janney, formerly President of Wiss, Janney, Elstner and Associates, discussed "Structural Evaluation of Building Structures."

October 23, 1979 — Mr. Maximilian Ferro, Managing Partner, the Preservation Partnership, presented historical and technical aspects of "Wood Structures in the United States".

October 30, 1980 — Professor Clayford Grimm, Civil Engineering Department, University of Texas, discussed historical and engineering aspects of "Masonry and Stone Structures".

November 6, 1979 — Mr. Howard Newlon, Jr., Associate Head of the Virginia Highway and Transportation Research Council, presented historical and engineering aspects of the evolution of "Concrete Structures in the United States".

November 13, 1979 — Mr. Neil FitzSimons, Principal, Engineering Counsel, Kensington, Maryland, discussed historical and engineering aspects of "Iron and Steel Structures in the United States".

All speakers presented their material in the context of renovation and rehabilitation of buildings, and used color slides.

Respectfully submitted,
Kenneth B. Wiesner, Clerk

Report of Transportation Group, 1979-1980

The Executive Committee this year consisted of the following members:

Chairman	Rocco Mancini
Vice Chairman	Edmund Condon
Clerk	Robert A. Snowber
Member	Thomas F. Humphrey
Member	Paul Levy
Member	Martin Weiss
Member, Past Chairman	A. Russell Barnes, Jr.
Representative to JRTC	Marvin W. Miller

The following meetings of the Transportation Group were held during the past year:

May 14, 1979 - National Transportation Week Seminar; morning and luncheon program at Pier 4. Co-sponsored with the Boston Transportation Group and other transportation-oriented organizations. Governor King was the luncheon speaker and during the morning a panel made up of Barry Locke, Secretary of Transportation, Robert Foster, Chairman of the MBTA and Dean Amidon, Commissioner of the MDPW, discussed "Efficiency in Transportation or the Lack of it." Restrictions and lack of coordination between the state and federal government were highlighted. The attendance was 400.

September 27, 1979 - Luncheon meeting at Nick's Restaurant. Transportation legislation in Massachusetts was discussed by Representative Louis Nickinello, Chairman of the Legislature's Transportation Committee. The speaker discussed the proposed transportation bond issue. He urged the more active participation of engineers in the transportation planning process. Attendance, 39.

November 1, 1979 - Seminar on Energy and Transportation, a morning and luncheon program. In view of a light response to advance notice, it was decided to cancel it.

January 25, 1980 - Luncheon meeting at Polcari Restaurant. Transportation at the Winter Olympics, Lake Placid. Clarence Cooke of the New York State DOT spoke on the planning and operation aspects of the 1980 Winter Olympics. Attendance, 62.

March 19, 1980 - Dinner meeting at Nick's Restaurant. A talk on Massachusetts Transportation Problems was presented by Barry Locke, Secretary of Transportation. Mr. Locke reviewed the programs of the MDPW, MBTA and Massport.

Elections were held for Executive Committee and the following were elected for 1980-1981:

Chairman	Edmund Condon
Vice Chairman	Robert Snowber
Clerk	Thomas Humphrey
Member	Paul Levy
Member	Robert Tierney
Member	Frank McCarran
Member, Past Chairman	Rocco Mancini
Representative to UTCB	Marvin Miller

This was also an official meeting of the BSCE Section. Attendance, 56.

May 12, 1980 - Seminar and luncheon at Pier 4 Restaurant, held jointly with the Boston Transportation Group and many other cooperating organizations. The morning seminar was on the subject "Transportation Strategies for the Eighties." The moderator was Donald J. White, Dean, Boston College Graduate School of Arts and Sciences. Participants were: Donald W. Carpenter, St. Johnsbury Trucking Co., Inc.; Barry M. Locke, Massachusetts Secretary of Transportation; Alan G. Dustin, Boston & Maine Railroad; and Daniel Roos, Director, Center for Transportation Studies, MIT. The keynote speaker at the luncheon was Lester T. Lamm, Executive Director, Federal Highway Administration, Washington, D.C. Attendance, 400.

Respectfully submitted,
Robert A. Snowber, Clerk

DINNER MEETINGS OF THE WESTERN BRANCH, 1979 - 1980

October 2, 1979 — Dinner meeting at Townhouse Restaurant, Holyoke. Speaker, Mr. Robert W. Pease, Consultant, Metrek Division of Mitre Research Corporation. Subject, "Cleanup of Illegally Disposed Hazardous Waste Materials - Two Case Histories: Lowell, Massachusetts and Chester, Pennsylvania". Attendance 55.

November 13, 1979 — Joint meeting with Connecticut Section ASCE. Tour of Northeast Utilities Pumped Storage Hydroelectric Facility at Northfield Mountain, Northfield, Massachusetts followed by a dinner meeting at Muchmores Restaurant, Bernardston, Massachusetts. Mr. Ronald Chevalier, Assistant Station Superintendent, conducted the tour and gave a brief presentation at the dinner meeting. Attendance 72.

February 12, 1980 — Dinner meeting at the Lord Jeffrey Inn, Amherst. Speaker, Mr. Drew Gillett, Northeast Solar Energy Center. Subject, "Engineering Applications of Alternative Energies". Attendance 47.

April 8, 1980 — Joint dinner meeting with the Student chapter, University of Massachusetts, at the Lord Jeffrey Inn. Speaker, Mr. William McGrath, Vice President, Raymond, Parrish, Pine and Weiner, Tarrytown, NY. Subject, "Should the Boston Central Artery Be Depressed." Attendance 20.

May 28, 1980 — Joint dinner meeting with the Construction and Geotechnical Groups of BSCE Section ASCE at the Engineers Club, Prudential Center, Boston. Speakers, James C. Roop, Manager Ground Support Systems, Franki Foundation Company and Alden Abbott, Senior Technical Engineer, Parsons, Brinckerhoff, Quade, and Douglas. Subject, Ground Support System for MBTA Red Line Extension at Harvard Square. Attendance 170.

The Western Massachusetts Branch BSCE in cooperation with the Extended Engineering Education Office of the School of Engineering of the University of Massachusetts, Amherst, sponsored a continuing education program entitled, "Groundwater: Development and Treatment." Series of five lectures beginning March 20, 1980. 1.2 CEU's.