

PROCEEDINGS OF THE SOCIETY

BOSTON SOCIETY OF CIVIL ENGINEERS

APRIL 14, 1966 - A joint meeting of the Boston Society of Civil Engineers and the Structural Section was held on this date at the Adams Room of the United Community Service Building.

President Biggs called the meeting to order at 7:10 P.M. After a short business meeting, he turned the meeting over to Chairman Fuller who introduced the speaker of the evening, Mr. Edward H. Barker of Sverdrup, Parcel and Associates, Inc., who spoke on "Techniques of Construction of the Chesapeake Bay Bridge and Tunnel Crossing."

The crossing consisted of four man-made islands, two tunnels, undership channels, causeways, trestles and bridges. The tunnel sections were prefabricated, towed to the site and sunk in dredged trenches. The talk was illustrated by movies.

The meeting adjourned at 8:30 P.M. after a short question and answer period. There were 46 members and guests present.

Respectfully submitted,
F. Hampe, Clerk

OCTOBER 19, 1966 - A joint meeting of the Boston Society of Civil Engineers and the Massachusetts Section of the American Society of Civil Engineers was held this evening at the Student Center Building, Massachusetts Institute of Technology, Cambridge, Massachusetts. The student chapters of the New England colleges were especially urged to attend.

At 6:30 P.M., a dinner was served in the Student Center Building, and delegates from Northeastern University, Tufts

University, Worcester Polytechnic Institute, Norwich University, University of Rhode Island, Merrimack College and the Massachusetts Institute of Technology were present.

President Biggs extended a cordial welcome to the students.

The secretary announced the names of applicants for membership.

President Biggs introduced John J. Cusack, President of the Massachusetts Section of the American Society of Civil Engineers and asked him to conduct any necessary business of ASCE at that time.

President Biggs then introduced the speaker of the evening, Professor Steven A. Coons, of Massachusetts Institute of Technology, who gave a most interesting talk on "Computer Graphics".

A question period followed the talk. Two hundred members and guests attended the dinner and meeting. The meeting adjourned at 8:45 P.M.

Respectfully submitted,
Charles O. Baird, Jr., Secretary

NOVEMBER 16, 1966 - A regular meeting of the Boston Society of Civil Engineers was held this evening at the United Community Service Building, 14 Somerset Street, Boston, Massachusetts, and was called to order by President John M. Biggs, at 7:00 P.M.

President Biggs stated that the minutes of the previous meeting held October 19, 1966, would be published in a forthcoming issue of the journal, and that the reading of minutes would be waived unless there was objection.

President Biggs announced the death of the following members --

Clarence A. Pethybridge, elected a member February 15, 1928, who died in May of 1965.

Frank Marcucella, elected a member May 17, 1948, who died July 11, 1966.

George L. Newman, elected a member April 14, 1949, who died September 20, 1966.

Louis I. Dexter, elected a member April 14, 1949, who died June 4, 1966.

The secretary announced that the following had been elected to membership November 16, 1966:

Grade of Member: A. M. Zahirul Alam, Robert A. Barrows, Armando P. Del Campo, Richard E. Cavanaugh, Jerome J. Conner, Jr., Carmin V. DiFilippo, David E. Heard, Frank E. Perkins, Eudell G. Whitten, Melvin W. Witham, Asaf A. Czilbash.

Grade of Junior Member: George R. Allen, Ernest R. Artus, Craig E. Barnes, Harold S. Costa, Neil K. Daykin, John M. Dewsnap, Mark T. Donohoe, Paul A. Fournier, Lawrence J. Hughes III, Thomas D. Hurley, Peter J. Majeski, Anthony J. Masse, William A. McKenzie, Paul M. O'Conner, Frederick J. Stavinski, Jr.

President Biggs requested the secretary to present a recommendation of the Board of Government to the Society for action. The President stated that this matter was before the Society in accordance with provisions of the by-laws and notice of such action published in the ESNE Journal dated November 14, 1966.

The Secretary presented the following recommendation of the Board of Government to the Society for action to be taken at this meeting:

MOTION: "To recommend to the Society that the Board of Government be authorized to transfer an amount not to exceed \$7000 from the principal of the Permanent Fund to the Current Fund for current expenditures".

On motion duly made and seconded it was VOTED "that the Board of Government be authorized to transfer an amount not to exceed \$7000 from the principal of the permanent Fund to the Current Fund for current expenditures."

President Biggs stated that final motion on this matter would be taken at the January meeting of the Society.

President Biggs introduced the guest speakers of the evening, Mr. Cruce Graham and Mr. E.A. Picardi, of Skidmore, Owings and Merrill, Chicago, Illinois, who gave a most interesting talk on "Design and Construction of the John Hancock Center in Chicago." The talk was illustrated with slides.

A discussion period followed the talk.

Thirty-three members and guests attended the dinner preceding the meeting and seventy five members and guests attended the meeting.

Respectfully submitted,
Paul A. Dunkerley,
Secretary (Pro-tem)

STRUCTURAL SECTION

DECEMBER 14, 1966 - A regular meeting of the Structural Section of the Boston Society of Civil Engineers was held in the society rooms, 47 Winter Street, Boston, Massachusetts. The meeting was called to order by Chairman Fuller at 7:20 P.M.

Chairman Fuller announced the minutes of the last meeting would be published in a forthcoming issue of the Journal.

The chairman introduced the speaker, Mr. Mace Bell, Coordinator of Research and Development, American Institute of Steel Construction, who spoke on "Structural Connections - Their Design and Economics." He gave examples and comparative costs of various types of connections. The talk was illustrated by slides.

The meeting adjourned at 8:50 after a question and answer period.

There were 46 members and guests present.

Respectfully submitted,
F. Hampe,
Clerk

SANITARY SECTION

OCTOBER 5, 1966 - A meeting of the Sanitary Section was held in the society rooms and was called to order at 7:00

P.M. by Chairman Robert L. Meserve. Reading of the minutes of the previous meeting (the June Annual Outing) was waived.

Chairman Meserve then introduced Dr. Alvin S. Goodman, Associate Professor of Civil Engineering at Northeastern University, who presented a very interesting paper entitled, "Mathematical Model For Water Pollution Control Studies." By use of an electronic computer, Dr. Goodman has set up a program of a hypothetical stretch of a river including several communities with water supply, sewage treatment, recreational use, population densities areas, river quality standards for each. Using this program, sets of assumptions are fed into the computer and the resulting effects on river quality, degree of treatment and other data are almost instantly obtained. Two methods have been used, (1) Trial and Modification -- whereby several sets of conditions are fed into the computer and the resulting effects of each compared, and (2) Automatic Optimizing Routine -- whereby the types of water and sewage treatment processes are varied in an attempt to arrive at the required degree of treatment that would satisfy the river quality standards at minimum cost. The value of such a program utilizing an electronic computer lies in its ability to almost instantaneously solve a host of problems with varying assumptions and data that by present long hand means would require months of work.

A lively question and answer period followed Dr. Goodman's presentation. Fifty-two members attended the meeting. Adjournment was at 8:30 P.M.

Respectfully submitted,
Charles A. Parthum,
Clerk.

HYDRAULICS SECTION

NOVEMBER 2, 1966 - A meeting of the Hydraulics Section of the Boston Society of Civil Engineers was held in the society room, 47 Winter Street, Boston, Massachusetts. The meeting was called to order by Mr. Athanasios A. Vulgaropoulos,

clerk of the section, substituting for the chairman, Mr. Nicholas Lally.

Mr. Vulgaropulos introduced the speaker of the evening, Mr. Peter A. Larsen, Associate Professor of Civil Engineering at the Worcester Polytechnic Institute. Professor Larsen spoke on "Head Losses Causes by an Ice Cover in Open Channels" and showed slides of prototype investigations in Sweden. The speaker discussed field observations and measurements of head losses in certain river sections with and without ice cover, the roughness of the underside of ice cover where a ripple pattern is formed and the results of the above investigations.

The meeting had an attendance of 16 and was adjourned at 9:00 P.M.

Respectfully submitted,
Athanasios A. Vulgaropulos,
Clerk.