

PROCEEDINGS OF THE SOCIETY

Minutes of Meetings

Boston Society of Civil Engineers

January 24, 1968:— A Joint Meeting of the Boston Society of Civil Engineers with the Hydraulics Section was held this evening in the Adams Room, United Community Services Building, 14 Somerset Street, Boston, Mass., and was called to order by President Harry L. Kinsel, at 7:00 P.M.

President Kinsel stated that the reading of the Minutes of the previous meeting held December 6, 1967, would be published in a forthcoming issue of the Journal and that the reading of those Minutes would be waived unless there was objection.

President Kinsel announced the death of the following members:—

Arthur Gordon, elected a member June 16, 1958, who died January 10, 1968.

James H. Manning, elected a member October 19, 1921, who died June 17, 1967.

Prof. Paul A. Dunkerley, Secretary Pro-tem announced the names of applicants for membership and that the following had been elected to membership January 24, 1968:—

Grade of Member - Leslie G. Bromwell, Nestor D. Disenfeld, Ernest A. Goodwin, William M. Hendrich, Henry H. Holly, Frank W. Stockwell, Jr.

Grade of Junior:— Marcia A. Root

President Kinsel requested Prof. Dunkerley to present a recommendation of the Board of Government to the Society for final action. The President stated that this matter was before the Society in accordance with the provisions of the By-Laws, and that notice of such action was published in the ESNE Journal, dated December 25, 1967.

Prof. Dunkerley 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 \$4,000 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 \$4,000 from the Principal of the Permanent Fund to the Current Fund for Current Expenditures".

President Kinsel stated that this was the final action on this matter.

President Kinsel stated that this was a joint meeting with the Hydraulics Section and called upon Allan Grieve, Chairman of the Hydraulics Section, to conduct any necessary business of that Section at this time.

President Kinsel stated that this meeting was sponsored by the John R. Freeman Fund Committee as "A John R. Freeman Memorial Lecture", and turned the meeting over to Prof. Leslie J. Hooper, Chairman of the John R. Freeman Fund Committee who introduced the guest speaker of the evening, Mr. John Parmakian, Consulting Engineer, who gave a most interesting talk on "Unusual Aspects of Hydraulic Transients in Pumping Plants".

At the conclusion of the lecture Prof. Hooper presented Mr. Parmakian with an honorarium and a certificate of appreciation, and then turned the meeting back to President Kinsel.

A discussion period followed the lecture.

Eighty-two members and guests attended the dinner preceding the meeting and ninety-four members and guests attended the meeting.

The meeting adjourned at 9:00 P.M.

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

February 14, 1968:— A joint meeting of the Mass. Section of the American Society of Civil Engineers with the Boston Society of Civil Engineers was held this date at the Red Coach Grill, 43 Stanhope Street, Boston, Mass. President Saul Namyet of the ASCE presiding.

After lunch, President Namyet called the meeting to order and turned the meeting over to Harry L. Kinsel, President of the Boston Society of Civil Engineers, to conduct any necessary business. President Kinsel called upon the Secretary for announcements after which the meeting was turned back to President Namyet of ASCE who introduced the guest speaker Mr. Samuel A. Wigan, Chief of B.E.S.T. New York State Dept. of Transportation.

Mr. Wigan presented an interesting paper on "The Concept and Status of the Bridge Engineering Subsystem for T.I.E.S.

A brief discussion period followed.

Sixty members and guests attended the dinner and meeting.

Respectfully submitted,
Charles O. Baird, Jr.
Secretary

March 19, 1968:— The 120th Annual Meeting of the Boston Society of Civil Engineers was held today at the M.I.T. Faculty Club, 50 Memorial Drive, Cambridge, Mass., and was called to order at 4:00 P.M., by President Harry L. Kinsel.

President Kinsel stated that the reading of the minutes of Society meetings had been omitted during the year. The minutes of the January and February 1968 meetings will be published in a forthcoming issue of the Journal, the minutes of the May, October and December 1967

meetings to be declared approved as published.

It was VOTED "to approve the Minutes as published".

The Secretary announced the names of applicants for membership, and that the following had been elected to membership March 18, 1968:—

Grade of Member - Anthony Chiaravelotti, Stanley S. Marshall, William B. Merry, Jr.

The Annual Reports of the Board of Government, Treasurer, Secretary and Auditors were presented. Reports were also made by the following committees:— Publication, Hospitality, Library, John R. Freeman Fund, Ralph W. Horne Fund, Subsoils of Boston, Membership, Advertising, Joint Legislative Affairs, Professional Conduct.

It was VOTED "that these reports be placed on file".

The Annual Reports of the various Sections were read and it was VOTED "that the Annual Reports of the various Sections be placed on file".

President Kinsel stated that all foregoing reports would be published in the April 1968 issue of the Journal.

The Report of the Tellers of Election, William H. Parker and William E. Wiley, was presented and in accordance therewith the President declared the following had been elected Officers for the ensuing year:—

President	Harl P. Aldrich, Jr.
V-President	Ernest L. Spencer
Secretary	Charles O. Baird, Jr.
Treasurer	Paul A. Dunkerley
Directors	James P. Archibald
	Harold A. Thomas, Jr.
Nominating Committee	Charles C. Ladd
	Donald T. Goldberg
	Robert J. Van Epps

The retiring President Harry L. Kinsel then gave his address entitled, "Challenge of Our Heritage".

Forty members and guests attended the business meeting.

The meeting adjourned at 5:40 P.M., to re-assemble at 8:00 P.M., the Social Hour and Annual Dinner being held during the interim.

President Kinsel called the meeting to order at 8:00 P.M.

Following general remarks and the introduction of the newly elected President, Harl P. Aldrich, Jr., and other guests at the head table, President Kinsel announced that Honorary Membership in the Society has been conferred on one of the Society's distinguished members, in accordance with the vote of the Board of Government on January 29, 1968.

The Secretary announced the name of the newly elected Honorary Member and asked him to come forward.

Governor John A. Volpe

President Kinsel presented the newly elected Honorary Member with a certificate of Honorary Membership which reads as follows:—

Boston Society of Civil Engineers
 In recognition of his outstanding achievements as a Builder, as the first Federal Highway Administrator, as Governor of the Commonwealth of Massachusetts, and as a dedicated public servant whose influence has become nationwide, This scroll is awarded to

JOHN ANTHONY VOLPE
 who has been duly elected an
HONORARY MEMBER

By direction of the Board of Government
 January 29, 1968

(Seal)

Harry L. Kinsel, President
 Charles O. Baird, Jr., Secretary

The Secretary stated that the Ralph W. Horne Award established in 1964 is presented to a member as having been outstanding in unpaid public service in municipal, State or Federal elective or appointive posts; or in Philanthropic activity in Public Interest.

The Secretary asked the recipient to come forward.

Dr. Carl S. Ell

President Kinsel presented Dr. Carl S. Ell the Ralph W. Horne Award, a certificate which reads as follows:—

RALPH W. HORNE FUND AWARD
 presented by the

Boston Society of Civil Engineers
 to

CARL STEPHEN ELL

First Head of the Department of Civil Engineering at Northeastern University, architect and executor of cooperative education who has seen his endeavors brought to fruition and whose exemplary leadership has pointed the way toward fuller and more meaningful lives for generations of students.

Boston Society of Civil Engineers
 By unanimous action of its
 Board of Government

as the
 Fourth Recipient
 of the

**RALPH W. HORNE FUND
 AWARD**

and this certificate is proudly
 presented to him
 March 19, 1968

(Seal)

Harry L. Kinsel, President
 Charles O. Baird, Jr., Secretary

President Kinsel stated that a number of prizes were awarded annually for worthy papers presented at the Society and Section meetings and also Scholarship Awards. The Secretary read the names of recipients and asked them to come forward and President Kinsel presented the following awards:—

<i>Award</i>	<i>Recipient</i>	<i>Paper</i>
Desmond FitzGerald Award	Henry A. Mohr	"Pile and Caisson Foundations"
Clemens Hershel Award	John M. Biggs	"Can Engineering be Automated?"
Structural Section Award	Paul S. Crandall	"Timber Design in Waterfront Construction"
Desmond FitzGerald Scholarship	Richard Bovee	
William P. Morse Scholarship	John D. Hughes	

President Kinsel then introduced the guest speaker of the evening, Dr. Arthur T. Ippen, Ford Professor of Engineering,

Dept. of Civil Engineering, M.I.T., who gave a most interesting illustrated talk on "A Civil Engineer's Look at the World".

At the conclusion of the talk President Kinsel turned the meeting over to President Elect, Harl P. Aldrich, Jr.

President Aldrich presented the retiring President Harry L. Kinsel with a certificate of appreciation for services rendered.

One hundred and ninety members and guests attended the dinner and meeting.

The meeting adjourned at 10:00 P.M.

Respectfully submitted,
Charles O. Baird, Jr.
Secretary

HYDRAULICS SECTION

January 24, 1968:— The Annual Meeting of the Hydraulics Section was held jointly with the Main Society of the Boston Society of Civil Engineers in the Adams Room of the United Community Services Building, 14 Somerset Street, Boston, Mass. The meeting was opened by President Harry L. Kinsel, of the Society, at 7:00 P.M. President Kinsel called on Treasurer Paul A. Dunkerley, substituting for Secretary Charles O. Baird, Jr., to conduct the necessary business of the Main Society. President Kinsel then turned the meeting over to Mr. Allan Grieve, Jr., Chairman of the Hydraulics Section, to conduct the business of the Section. Chairman Grieve read the report of the Nominating Committee, consisting of Nicholas Lally, Peter S. Eagleson, Chairman, and K. P. Devenis, who presented the following slate of Officers for the Hydraulics Section to serve during the year 1968-1969; who were subsequently elected by voice vote:

Chairman Athanasios A. Vulgaropoulos
Vice-Chairman Ronald T. McLaughlin
Clerk Stephen E. Dore, Jr.
Executive Committee Albert G. Ferron
Jerome Degen
Frank E. Perkins

Upon conclusion of the Section business Chairman Grieve turned the meeting back to President Kinsel, who in turn called on Prof. Leslie J. Hooper, Chairman of the John R. Freeman Fund Committee, to introduce the speaker of

the evening. Prof. Hooper presented Mr. John Parmakian, Consulting Engineer, who delivered the third John R. Freeman Memorial Lecture speaking on "Unusual Aspects of Hydraulic Transients in Pumping Plants". Mr. Parmakian reviewed briefly the state of the art in computing hydraulic transients for pumping plants and made references to available publications and charts in this field. He then proceeded to discuss a great multitude of cases and projects where discrepancies had been found between observed and computed hydraulic transients, peculiarities in the performance characteristics, problems encountered and methods of correction, and various other unusual aspects of hydraulic transients associated with pumps, turbines, pump-turbines, air chambers, one-way and conventional surge tanks, control valve operation, and the action of other water hammer control devices in pumping plants.

After a brief question and answer period, Prof. Hooper presented to Mr. Parmakian a certificate for the lecture and an honorarium in behalf of the John R. Freeman Fund Committee. The meeting was adjourned at 8:45 P.M. Attendance at the dinner preceding the meeting was 82 and attendance at the meeting was 94.

Respectfully submitted,
Athanasios A. Vulgaropoulos
Vice-Chairman
for
Ronald T. McLaughlin
Clerk

STRUCTURAL SECTION

February 14, 1968:— A regular meeting of the Structural Section was held in the Society rooms on the evening of February 14, 1968. The meeting was called to order by Vice-Chairman Fritz Hampe at 7:05 P.M.

Nominations were open for the election of three new members of the Nominating Committee. Those nominated and elected were Donald T. Goldberg, Max D. Sorota and Robert L. Fuller.

Mr. Hampe then introduced Prof. Charles C. Ladd, speaker of the evening, who spoke on "Design and Performance

of a Floating Foundation Resting on Organic Soils in Boston". Prof. Ladd pointed out the steps by which the floating foundation was selected as against other means of supporting the building. Since the poor soil conditions extended to considerable depth, the cost of supporting the structure on piles as against a floating foundation was excessive, but as long as the building itself could withstand some differential settlement the floating foundation proved to be the least costly and more practical.

Considerable emphasis was put on the pore pressure that existed in the soil before and after the construction of the foundations.

A most interesting discussion period followed, where the analysis of cost of piles versus the floating foundation was discussed in detail and the phenomenon of pore pressure, whether it was caused by the generation of gas or purely liquid, was discussed in some detail. Whether this excess pressure was due to gas or not was not entirely resolved.

The meeting adjourned at 8:40 P.M.

There were 75 members present.

Respectfully submitted,
Albert B. Rich, Clerk

March 13, 1968:— A regular meeting of the Structural Section was held in the Society rooms on the evening of March 13, 1968. The meeting was called to order by the Chairman, Prof. Charles C. Ladd, at 7:20 P.M.

The report of the Nominating Committee was made by Vice-Chairman Fritz Hampe. The nominees for officers and members of the Executive Committee for the coming year were as follows:

Chairman: Albert B. Rich
 Vice-Chairman: Richard C. Jasper
 Clerk: Howard Simpson
 Members: Horst Borberek
 Sepp Firnkas
 Roland C. Hirschfeld

Nominations from the floor were requested, and nominations closed. One ballot was cast by the Clerk and the above-named persons were elected.

Professor Ladd then introduced Professor E. H. Davis, Assoc. Professor Soil Mechanics, University of Sydney, Australia, and Visiting Professor of the Department of Civil Engineering, M.I.T., who spoke on "Use of Elastic Theory and 3-Dimensional Settlement Analysis". Prof. Davis illustrated by use of the blackboard and slides the relationship of settlement for rectangular and circular foundations for various ratios of width of foundation and radius of foundation to depth of elastic material. He also gave a short talk on the settlement of piles and the influence of one pile upon another when driven in clusters.

An interesting discussion period followed.

The meeting adjourned at 8:40 P.M.

There were 31 members present.

Respectfully submitted,
Albert B. Rich, Clerk