

## OF GENERAL INTEREST

## PROCEEDINGS OF THE SOCIETY

## MINUTES OF MEETING

Boston Society of  
Civil Engineers

JANUARY 26, 1966:—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 Leslie J. Hooper, at 7:00 P.M.

President Hooper stated that the Minutes of the previous meeting held November 17, 1965, would be published in a forthcoming issue of the Journal and that the reading of those Minutes would be waived unless there was objection.

The Secretary announced the names of applicants for membership and that the following had been elected to membership January 26, 1966:—

*Grade of Member*—Rocco A. Blasi, Alfred A. Gass, Richard D. Moulton, Vincent J. Murphy, Paul N. Narey, Albert W. Parsons, Jr., Araken Silveria

President Hooper called upon 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 the provisions of the By-Laws, and that notice of such action

published in the ESNE Journal dated January 10, 1966.

The Secretary presented the following recommendation of the Board 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 \$6500 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 \$6500 from the Principal of the Permanent Fund to the Current Fund for Current Expenditures.”

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

President Hooper stated that this was a Joint Meeting with the Hydraulics Section and called upon Peter S. Eagleston, Chairman of that Section to conduct any necessary business for that Section at this time.

President Hooper introduced Robert L. Meserve who gave a short résumé of the activities of the ESNE.

President Hooper stated that this meeting was sponsored by the John R. Freeman Committee as “A John R. Freeman Memorial Lecture,” and intro-

duced the guest speaker Dr. Hunter Rouse, Director Iowa Institute of Hydraulic Research, who presented an illustrated talk on "Jet Diffusion and Cavitation."

At the conclusion of the Lecture President Hooper presented Dr. Rouse with an honorarium and a certificate of appreciation.

A discussion period followed the lecture.

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

The meeting adjourned at 9:30 P.M.

Respectfully submitted,  
CHARLES O. BAIRD, JR., *Secretary*

MARCH 23, 1966—The 118th Annual Meeting of the Boston Society of Civil Engineers was held today at the Hotel Vendome, 160 Commonwealth Avenue, Boston, Mass., and was called to order at 4:00 P.M., by President Leslie J. Hooper.

President Hooper announced that the reading of the Minutes of Society Meetings had been omitted during the year. The Minutes of the January and February 1966 meetings would be published in a forthcoming issue of the Journal. The Minutes of the May, Oct., Nov., Dec., 1965 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 21, 1966:—

*Grade of Member*—Carl V. Anderson, Jr., John H. Bousman, Robert D. Buckley, James P. Dunne, Joseph C. Hohmann, Jr.,\* James C. Jacobs, Edmund C. Johnson, Edwin S.

Joiner, Robert L. McWilliams, Herbert M. Priluck,\* David D. Primmer, Oscar L. Smith

*Grade of Student*—Christian Wethe

\*Trans. from Junior

The Annual Reports of the Board of Government, Treasurer, Secretary and Auditors were presented. Reports were also made by the following committees:—Hospitality, Library, John R. Freeman, Subsoils of Boston, Joint Committee on Legislative Affairs, Education Committee, Professional Conduct, Advertising Committee.

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

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

President Hooper stated that all foregoing reports would be published in the April, 1966 issue of the Journal.

The Report of the Tellers of Election, Robert L. Fuller and Charles E. Fuller was presented and in accordance therewith the President declared the following had been elected Officers for the ensuing year:—

President	John M. Biggs
V-President	Harl P. Aldrich, Jr.
Secretary	Charles O. Baird, Jr.
Treasurer	Paul A. Dunkerley
Directors	Ernest A. Herzog Frank J. Heger
Nominating Committee	Max D. Sorota Darrell A. Root Harry S. Feldman

The retiring President Leslie J. Hooper then gave his address entitled, "A Back-sight."

Thirty-seven members and guests attended the business meeting.

The meeting adjourned at 5:30 P.M., to re-assemble at 7:00 P.M. The social

<i>Award</i>	<i>Recipient</i>	<i>Paper</i>
Ralph W. Horne Fund Award	Miles N. Clair	
Desmond FitzGerald Medal	William E. Dobbins	"Diffusion and Mixing"
Clemens Herschel Award	Peter S. Eagleson	"Hydraulic Fundamentals 1 & 2"
Hydraulics Section Award	James W. Daily	"Cavitation Phenomena in Hydraulic Systems"
Desmond FitzGerald Scholarship	Craig E. Barnes	
William P. Morse Scholarship	Lewis Edgers	

hour and annual dinner being held during the interim.

President Hooper called the meeting to order at 7:00 P.M.

Following general remarks and the introduction of the newly elected President John M. Biggs, President Hooper also introduced Walter Jacobson, the Finnish Ambassador to the United Nations, who was a guest of the Society.

President Hooper 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 Hooper presented the following awards.

Honorarium and prize books were awarded also to speakers in the Soil Mechanics Lecture Series:

Harl P. Aldrich, Jr., "Selection and Performance of Foundations." Arthur Casagrande, "Foundations on Soft Ground with Emphasis on Floating Foundations." Donald T. Goldberg, "Bearing Capacity and Settlement of Footings." James F. Haley, "Shallow Foundations." Ronald C. Hirschfeld, "Introduction—Local Geology." Charles C. Ladd, "Consolidation Behavior of Soils." T. William Lambe, "Analysis of

Settlements." Henry A. Mohr, "Piles and Caisson Foundations." Steve J. Poulos, "Theory of Consolidation." Robert V. Whitman, "Strength of Soils." President Hooper then introduced the guest speaker of the evening, Honorable John F. Collins, Mayor of the City of Boston, who gave a most interesting talk on "Plight of the Cities."

At the conclusion of the talk President Hooper turned the meeting over to President elect, John M. Biggs.

President Biggs presented retiring President Leslie J. Hooper with a certificate of appreciation for services rendered.

Two hundred fifty-one members and guests attended the dinner and meeting. The meeting adjourned at 9:00 P.M.

Respectfully submitted,  
CHARLES O. BAIRD, JR., *Secretary*

## STRUCTURAL SECTION

JANUARY 12, 1966:—A regular meeting of the Structural Section was held this evening in the Society rooms and was called to order by the chairman, Donald T. Goldberg, at 7:35 P.M.

The chairman asked for nominations for the nominating committee. Nominated were Percival S. Rice, Chairman,

Harl P. Aldrich, Jr., and Max D. Sorota.

The chairman introduced the speaker of the evening, Professor Sepp Firnkas of Northeastern University, who spoke on "Prestressed-Pre-cast Concrete Applied to Urban Renewal Projects."

The Speaker wished to illustrate the advances made in this area during recent years. All bearing walls, floors, and stairs were precast as a method to reduce costs as they were mass produced. Means for assembling the units were illustrated. Projects in Boston, New London and Winchester were mentioned, pointing out problems with contractors, various building authorities, and erection procedures. Although the same structural system was used for all projects, different curtain walls and layouts led to apartments with varying appearance. The talk was well illustrated with colored slides. The speaker concluded with some pictures of future projects and a summary of some of the costs. Structural costs were about \$3 per sq. ft. and finished costs varied from \$10 to about \$14 per sq. ft.

After a very extensive question and answer period, the meeting was adjourned at 9:00 P.M.

Attendance was 47.

Respectfully submitted,  
CHARLES C. LADD, *Clerk*

## STRUCTURAL SECTION

FEBRUARY 9, 1966:—A regular meeting of the Structural Section was held this evening in the Society rooms and was called to order by the vice-chairman, Robert L. Fuller, at 7:12 P.M.

Mr. William Henderson read the report of the nominating committee and conducted the election. Elected were: Chairman, Robert L. Fuller; Vice-Chairman, Charles C. Ladd; Clerk, Fritz F. Hampe, Executive Committee, Richard

C. Jasper, Albert B. Rich and Floyd E. Brown.

The vice-chairman introduced the speaker of the evening, Professor Kentaro Tsutsumi of Tufts University, who spoke on "A Stable Test Station Foundation for Aero Space Projects."

The topic concerned the foundations of structures used to test inertial guidance equipment. These equipment require an extremely stable foundation which needs a quiet environment, although it is impossible to have complete isolation from motions. Some of the sources of disturbance are earth motions, thermal distortions and subsidence of the foundation and/or building, acoustic noise, local variations in temperature, humidity and barometric pressure, and stray electric currents.

The speaker described the test facilities and the results of investigations of foundation movements at several locations (Martin's facility in Denver, several facilities of Honeywell in Minnesota, and M.I.T.'s facility in Cambridge). Measurements of extremely small accelerations (tens of micro g's) and tilts (few arc seconds) were recorded which required the development of new instrumentation. Some of the equipment was so sensitive that it could detect persons walking outside of a building. A servo-control system for controlling motions of the order of one micro inch was described.

After a question and answer period, the meeting was adjourned at 8:35 P.M.

Attendance was 48.

Respectfully submitted,  
CHARLES C. LADD, *Clerk*

## TRANSPORTATION SECTION

FEBRUARY 24, 1966:—The Annual Meeting of the Transportation Section of the

Boston Society of Civil Engineers was held in the Society rooms, 47 Winter Street, Boston, Mass., and was called to order by Chairman Benedict J. Quirk, at 7:00 P.M.

Chairman Quirk dispensed with the reading of the Minutes and nominations for the officers for the coming year were presented from the floor. The following officers were elected for 1966-67:—

Chairman	Casimir J. Kray
V-Chairman	Warren D. McLea
Clerk	Robert J. Kiley
Executive	
Committee	Alexander J. Bone
	Charles H. Flavin, Jr.
	James F. Orpin, Jr.

Incoming Chairman Kray then introduced the speaker of the evening Robert J. Hansen, Professor of Civil Engineering, M.I.T., Deputy Director of Project Transport, who spoke on "High Speed

Ground Transportation 120 MPH and 200 to 400 MPH—Boston—New York—Washington."

The speaker described the progress to date on the Federal Government's high speed ground transportation program for the Northeast Corridor and the role that M.I.T. and other research and development agencies are playing in this program. He described many of the systems and component parts that are now being studied and developed.

After a lively question period, Chairman Kray commended last year's committee for a job well done and requested that all members actively participate in future meetings.

The meeting was adjourned at 8:00 P.M.

Attendance was 70.

Respectfully submitted,  
ROBERT J. KILEY, *Clerk*