

# PROCEEDINGS OF THE SOCIETY

## Minutes of Meeting

### Boston Society of Civil Engineers

November 13, 1968.—A Joint Meeting of the Main Society with the Structural and Construction Sections was held at Nick's Restaurant, 100 Warrenton Street, Boston Mass. Following a dinner preceding the meeting President Harl P. Aldrich, Jr., called the meeting to order at 7:00 P.M.

President Aldrich stated that the Minutes of the meeting held October 16, 1968 would be published in a forthcoming issue of the Journal and that the reading of those minutes would be waived unless there was an objection. There was none.

President Aldrich announced the death of the following members:—

Thomas A. Appleton, elected a member April 21, 1916, who died in April, 1968.

Timothy F. Creedon, elected a member March 17, 1937, who died in 1967.

Elson T. Killam, elected a member June 20, 1950, who died May 27, 1968.

Lawrence G. Ropes, elected a member March 21, 1923, who died June 25, 1968.

As there was no other business from the floor President Aldrich turned the meeting over to Arthur H. Mosher, Chairman of the Construction Section to conduct any business of that Section at this time. Mr. Mosher in turn turned the meeting over to Albert B. Rich, Chairman of the Structural Section to conduct any business of that Section at this time.

Chairman Rich introduced the guest speakers of the evening Mr. Charles A. Richardson and Mr. Morse H. Klubock of Perini Corporation and Mr. Zoltan A. Stacho of Parsons, Brinckerhoff, Quade & Douglas, who presented an illustrated talk on "M.B.T.A. Tunnel — Haymarket

Square to Charlestown — Design and Construction".

A question period followed the talk.

Ninety-five members and guests attended the dinner and meeting.

Respectfully submitted,

Paul A. Dunkerley  
Secretary pro-tem

December 4, 1968.—A Joint Meeting of the Boston Society of Civil Engineers with the Sanitary Section was held in the Society Rooms, 47 Winter Street, Boston, Mass. The meeting was called to order at 7:00 P.M., by President Harl P. Aldrich following an informal dinner at the Mayflower Coffee House and Pub Plaza at One Center Plaza, Boston, Mass.

President Aldrich stated that the Minutes of the meeting held November 13, 1968 would be published in a forthcoming issue of the Journal and that the reading of those minutes would be waived unless there was an objection. There was none.

The Secretary read a list of fifty-four names of those who have applied for membership.

President Aldrich commented on the excellent efforts of the Membership Committee under the leadership of Max Sorota, Chairman.

Necrology — President Aldrich asked for a standing moment of silence in tribute to those who have been lost to us by death since our last meeting as follows:—

James M. Driscoll, who was elected a member May 20, 1914, who died November 11, 1968.

James P. Kelley, who was elected a member December 15, 1952, who died November 11, 1968.

Since there was no other business from

the floor President Aldrich turned the meeting over to Charles A. Parthum, Chairman of the Sanitary Section to conduct any section business.

Chairman Parthum introduced the guest speaker of the evening, Mr. Ariel A. Thomas, Senior Vice President, Metcalf & Eddy.

Mr. Thomas described a nine year old waste water treatment plant now serving the Pittsburgh, Penn., area. He described the features of the plant and indicated that the existing unit would become a primary treatment plant when a new secondary treatment plant is added. The addition will be required because of an upgrading of specifications for the effluent. The talk was illustrated and Mr. Thomas explained each feature of the addition, how it would function, and the expected product. It is expected that this paper will be published in a forthcoming issue of the Journal.

A question period followed the talk.

About forty members and guests attended the meeting.

Respectfully submitted,

Paul A. Dunkerley  
Secretary

January 22, 1969.—A Joint Meeting of the Main Society with the Hydraulics Section was held in the United Community Services Building, 14 Somerset Street, Boston, Mass. Following the dinner at which 75 members and guests were present, President Harl P. Aldrich, Jr., called the meeting to order at 7:00 P.M.

President Aldrich stated that the Minutes of the meeting held on December 4, 1968 would be published in a forthcoming issue of the Journal, and that the reading of those Minutes would be waived unless there was an objection. There was none.

President Aldrich called upon the Secretary who read a list of forty-seven names of those whose applications for membership had been received.

The Secretary presented a recommendation from the Board of Government for

action by the Society at this meeting, as follows:—

MOTION "to recommend to the Society that the Board of Government be authorized to transfer an amount not to exceed \$4000.00 from the Principal of the Permanent Fund to the Current Fund for Current Expenditures".

It was VOTED "that the Board of Government be authorized to transfer \$4000.00 from the Principal of the Permanent Fund to the Current Fund".

President Aldrich stated that this was the first of two votes required, and that the second and final vote would be taken at the monthly meeting in February.

President Aldrich announced that this was a joint meeting with the Hydraulics Section and yielded the rostrum to Mr. A. A. Vulgaropulos to conduct the business of that Section.

President Aldrich declared a brief recess while the furniture was rearranged.

President Aldrich announced that this meeting was sponsored by the John R. Freeman Fund Committee as a John R. Freeman Memorial Lecture. Because of illness, Past President Leslie J. Hooper, Chairman of the John R. Freeman Fund Committee was unable to be present. Vice President Robert H. Culver introduced the speaker of the evening, Mr. Thomas R. Camp.

The subject of Mr. Camp's paper was "Hydraulics of Mixing Tanks". Mr. Camp used two slide projectors to explain the highlights of his very interesting paper. It is to be expected that the paper will be published in a forthcoming issue of the Journal. At the conclusion of the talk an interesting question period followed.

Eighty-eight members and guests attended the business meeting and the lecture.

The meeting adjourned at 8:30 P.M.

Respectfully submitted,

Paul A. Dunkerley  
Secretary

### SANITARY SECTION

December 4, 1968.—President Aldrich opened the joint meeting with Main Society in the Society Rooms at 7:00 P.M. After conducting certain Society Business including the reading (by Secretary Paul Dunkerley) of the names of fifty new members, the meeting was turned over to the Sanitary Section Chairman, Charles A. Parthum.

A nominating committee consisting of Mr. William Traquair, Professor Robert Meserve and Mr. Walter Newman, Chairman, was appointed to submit a slate of officers for the coming year at the March 5, 1968, Annual Section Meeting.

Chairman Parthum then introduced the speaker of the evening, Mr. Ariel A. Thomas, Senior Vice President of Metcalf & Eddy, Inc. who presented a paper on the "Design of the 150 MGD Secondary Treatment Facilities for the Allegheny County Sanitary District. The presentation was illustrated with slides and traced the development of the plant through the primary treatment units and the new secondary facilities. An interesting question and answer period followed.

Attendance was about 40 and the meeting was adjourned at 8:30 P.M.

Charles A. Parthum for  
Leland Charter, Clerk

### HYDRAULICS SECTION

November 6, 1968:—A meeting of the Hydraulics 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 at 6:40 P.M. by Mr. Athanasios A. Vulgaropulos, Chairman of the Section. Mr. Vulgaropulos reported on the general results of the Questionnaire which had been circulated to all members of the Society. Mr. Vulgaropulos also reported on the Section's field trip of October 5, 1968 to the Hurricane Barriers constructed by the U.S. Corps. of Engineers in Providence, Rhode Island and New Bedford, Massachusetts. Notices of future meetings of this Section and of other sections of the Society were read.

The Chairman then presented the format for the evening's workshop and introduced the various panel speakers and their topics, who were as follows:

*Research:* Murray B. McPherson, Director, Urban Water Resources Research Program of the American Society of Civil Engineers at Harvard University.

*Climatology and Hydrology:* Robert E. Lautzenheiser, Meteorologist in Charge, U.S. Weather Bureau Office for State Climatology, Boston, Mass.

*Administration and Financing:* Willard S. Pratt, Director, Department of Public Works, City of Newton, Mass.

*Planning and Design:* Charles Fuller, Project Engineer, Camp, Dresser & McKee, Consulting Engineers, Boston, Mass.

*Design Criteria and Design:* Robert A. Carleo, Project Manager of Water Resources, Howard, Needles, Tammen & Bergendoff, Consulting Engineers, Boston.

*Construction:* Carl Buccella, R. A. Buccella & Son, Inc., Contractors, Avon, Mass.

Many questions followed these presentations, however, due to the hour, question time was curtailed.

The meeting had an attendance of 40 and was adjourned at 9:15 P.M.

Respectfully submitted,

Stephen E. Dore, Jr.  
Clerk

January 22, 1969:—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 Harl Aldrich of the Society at 7:00 P.M. President Aldrich called on Treasurer Paul A. Dunkerly to read a list of new applicants for admission. President Aldrich then turned the meeting over to Mr. Athanasios A. Vulgaropulos, Chair-

man of the Hydraulics Section, to conduct the business of the Section. Chairman Vugaropulos read the report of the Nominating Committee, consisting of Nicholas Lally, Peter S. Eagleson and Allan Grieve, Jr., who presented the following slate of Officers for the Hydraulics Section to serve during the year 1969-1970; who were subsequently elected by voice vote:

*Chairman*, Ronald T. McLaughlin  
*Vice-Chairman*, Stephen E. Dore, Jr.  
*Clerk*, Albert G. Ferron  
*Executive Committee*, Jerome Degen, Frank E. Perkins, Robert S. Restall

Upon conclusion of the Section business Chairman Vugaropulos turned the meeting back to President Aldrich, who in turn called on Dr. Robert Culver, first Vice President of the Society, to introduce the speaker of the evening. Dr. Culver presented Mr. Thomas R. Camp, Consulting Engineer, who delivered the fourth John R. Freeman Memorial Lecture speaking on "Hydraulics of Mixing Tanks".

Mr. Camp discussed the mixing of liquids as widely used in chemical, pharmaceutical and food industries and in water and wastewater treatment to disperse additives, homogenize two or more liquids and for flocculation. The paper analyzes rotary mixing in terms of energy dissipation by internal shear, and introduces design procedures in terms of the drag on the rotors, stators and tank walls.

After a brief questions and answer period, President Aldrich presented to Mr. Camp a certificate for the lecture and a check in behalf of the John R. Freeman Memorial Fund. The meeting was adjourned at 8:40 P.M. Attendance at the dinner preceding the meeting was 75 and attendance at the meeting was 88.

Respectfully submitted,

Stephen E. Dore, Jr.  
 Clerk of the Hydraulics Section

#### TRANSPORTATION SECTION

November 20, 1968:—A luncheon

meeting of Boston Society of Civil Engineers, Transportation Section, was held on Wednesday, November 20, 1968. After luncheon, the meeting was opened, with 49 members present, by Chairman Maurice Freedman at 12:45 P.M.

Minutes of previous meeting were read and accepted. Mr. Freedman then introduced the guest speaker, Mr. A. S. Plotkin, Transportation Editor of the Boston Globe, who gave his concept of the 'Social Impact of Urban Highway Location'. His very informative and knowledgeable presentation was followed by a question and answer period.

The meeting was adjourned at approximately 1:25 P.M.

Respectfully submitted,

A. Paul LaRosa, Clerk

*Abstract of talk by Mr. A. S. Plotkin, Transportation Writer for The Boston Globe, before a meeting of the Transportation Section of the BSCE on November 20, 1968.*

#### THE SOCIOLOGICAL IMPACT OF URBAN HIGHWAY LOCATION

"I have seen the future and it doesn't work." This was the reaction of a New York newspaperman to the problems of the freeway system of a large western city. Urban highway problems cannot be ignored, and were the subject of a recent conference in Washington sponsored by the Highway Research Board. The message it produced is that the nation's road builders must learn how to make highways work for people, not against them.

The consideration of local community values in connection with highways is not a passing whim that will change with government administrations. Many of the complaints associated with the Embarcadero in San Francisco, the present Baltimore project, some of New York's interborough expressways, and the Inner Belt and Southwest Expressway in Metropolitan Boston, are sound and cannot be ig-

nored. Boston need not be ashamed of the efforts that have been made to minimize the adverse impact of these highways, but more may have to be done in cooperation with local neighborhood and community groups.

Broad urban highways have a profound effect on their environs. An embankment can create a "Chinese Wall" effect, while the cost of depressing a highway or rail corridor may be staggering. In Greater Boston we are relatively fortunate in that the Belt route recommended would not have as devastating an effect as would some highways proposed for other cities. In spite of some opinions to the contrary, it is felt that the difficulties can be resolved and the Belt finished by 1975 or 1976. When some sections are settled, there will be strong pressures to resolve the remaining problems.

The idea that a highway can actually improve an urban neighborhood by melding with schools and recreation facilities, model cities developments, shopping plazas and office buildings to bring new property taxes to a city, should not be discarded. However, most desirable schemes will cost money and consequently face delays in getting funds. Nevertheless, the number of automobiles will continue to increase, and this pressure will force action on highway improvements. The answers are anything but simple, and conditions may get worse before they get better.

There is currently agitation for a Massachusetts Department of Transportation which would act something like a holding company for various state agencies. This could be useful. A similar arrangement now operating in New York State could provide some guidelines.