

# OF GENERAL INTEREST

## PROCEEDINGS OF THE SOCIETY

### MINUTES OF MEETING

#### Boston Society of Civil Engineers

APRIL 30, 1962:—A Joint Meeting of the Mass. Section of American Society of Civil Engineers with the Boston Society of Civil Engineers was held this date at the Hotel Lenox, Boston, Mass., President William H. Mitchell of the ASCE presiding.

After dinner, President Mitchell called the meeting to order at 7:30 P.M. and after introducing head table guests, turned the meeting over to George G. Bogren, President of Boston Society of Civil Engineers to conduct any necessary business. President Bogren called upon the Secretary for routine announcements after which the meeting was turned back to President Mitchell of ASCE who introduced the guest speaker, Mr. Edward Roemer, Chairman of Government Center Commission.

Mr. Roemer presented an interesting paper on #1 General Plans for Government Center from State Viewpoint. #2 Procedures Used for Hiring Professional Engineer's Services.

A brief discussion period followed, with adjournment called at 9:10 P.M.

Eighty members and guests attended the dinner, and 85 attended the meeting following the dinner.

CHARLES O. BAIRD, JR., *Secretary*

MAY 16, 1962:—A Joint Meeting of the Boston Society of Civil Engineers with the Surveying & Mapping Section was held this evening at the United Community Services Building, 14 Somerset Street, Boston, Mass., and was called to order by President George G. Bogren, at 7:00 P.M.

President Bogren stated that the Minutes of the previous meeting held April 30, 1962 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 Bogren announced the death of the following member:—

Ralph B. Brasseur, who was elected a member June 15, 1927 and who died June 10, 1961.

The Secretary announced the names of applicants for membership in the Society and that the following had been elected to membership May 14, 1962.

*Grade of Member*—William A. Wahler.

President Bogren announced that this was a Joint Meeting with the Surveying and Mapping Section and called upon Richard D. Raskind, Chairman of that Section to conduct any necessary business at this time.

President Bogren introduced speaker of the evening, Richard L. Cameron, Cambridge Air Force Research Center who gave a most interesting illustrated

talk on "New England During the Ice Age."

A discussion period followed the talk.

Fifty three members and guests attended the dinner and eighty three members and guests attended the meeting. The meeting adjourned at 8:45 P.M.

CHARLES O. BAIRD, JR., *Secretary*

MAY 23, 1962:—A Joint Meeting of the Boston Society of Civil Engineers with the Sanitary and Construction Sections was held this evening at the United Community Services Building, 14 Somerset Street, Boston, Mass., and was called to order by President George G. Bogren, at 7:00 P.M.

President Bogren stated that the Minutes of the previous meeting held May 16, 1962 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 Bogren announced the death of the following member:—

LeRoy G. Brackett, who was elected a member April 21, 1915, and who died May 12, 1962.

President Bogren announced that this was a Joint Meeting with the Sanitary and Construction Sections and called upon George W. Hankinson, Chairman of the Sanitary Section to conduct any necessary business at this time, and James P. Archibald, Chairman of Construction Section to conduct any necessary business at this time.

President Bogren introduced speaker of the evening M. Hugh P. Ripman, Head, Industry Division, International Bank for Reconstruction and Development, who gave a most interesting talk on "The Challenge of Civil and Sanitary Engineering Work in Underdeveloped Countries."

A discussion period followed the talk.

Fifty three members and guests attended the dinner and eighty five members and guests attended the meeting. The meeting adjourned at 9:00 P.M.

CHARLES O. BAIRD, JR., *Secretary*

## HYDRAULICS SECTION

MAY 2, 1962.—The meeting was called to order by Lawrence C. Neale, Chairman of the Section, at 7:10 P.M. at the Society Rooms, 20 Pemberton Square.

The minutes of the previous meeting (February 21, 1962) were passed over since they were read and approved at the previous meeting of the main society. Mr. Neale announced the dates of the section meetings scheduled for November 7, 1962, February 6, 1963 and May 15, 1963.

The Chairman the introduced the speaker, Mr. Frank E. Perkins, Research Engineer, Hydrodynamics Laboratory, Massachusetts Institute of Technology, whose subject was "A New Approach to the Study of Transients in Hydro-Power System."

Mr. Perkins discussed the limitations and approximations in the previous analytical and experimental methods of investigation of hydraulic transients, which for the most part represented isolated portions of the system independently. He then described the Hydroelectric Power Systems at Garrison Dam, consisting of the characteristics of conduits, valves, surge tanks, turbines, governors and other pertinent components, which were connected together in a digital computer study, representing the entire system. The experimental portion of the program consisted of automatic recordings of pressures at many locations accompanied by changes

in the previously described components, which were also recorded. The preliminary results of data processing show good correlation between analytical and experimental programs. An accurate analysis made possible by the comprehensive analytical and experimental program seems to indicate that surge tanks at Garrison Dam are larger than necessary. This new approach should result in increased safety and economy of design for future works.

The meeting was adjourned at 8:45 P.M. after a question and answer period. Attendance was 35.

KEISTUTIS P. DEVENIS, *Clerk*

## STRUCTURAL SECTION

APRIL 11, 1962.—A regular meeting of the Structural Section was held this evening in the Society Rooms and was called to order by Chairman Percival S. Rice at 7:05 P.M.

The Chairman announced that Mr. Roland S. Burlingame would present the announced paper instead of Mr. R. Ernest Leffel, who was unable to attend because he was seriously ill.

The Chairman introduced the speaker of the evening, Mr. Roland S. Burlingame, Partner, Camp, Dresser & McKee, who spoke on "Construction of a Novel Pre-Stressed Water Tank for Cali, Columbia."

The speaker informed the meeting that he had not been associated with the subject project and that his talk would be based on his interpretation of Mr. Leffel's notes which were recorded in French.

The tank which has a 4,000,000-gallon water storage capacity was designed and built by French engineers for Cali, Columbia, a city with a population of

approximately 250,000 people. It is 158 feet in diameter and is made up of 108 identical, 27-foot high, precast, prestressed concrete units. After the precast units were erected and the prestress wires from the individual units were connected, the joints between the units were temporarily sealed on the inside with rubber sheets and the tank was filled with water, thus putting the exposed prestress wires in tension. At the completion of this operation, the joints between units were filled with concrete, thereby forming a continuous concrete compression ring when the water table is lowered.

Slides were shown to illustrate the major design and construction features of the tank.

The Chairman on behalf of the group thanked the speaker for taking Mr. Leffel's place and congratulated him on his presentation of the subject matter.

After a brief question and answer period, the meeting was adjourned at 8:00 P. M.

The meeting was attended by 26 members and guests.

MAX D. SOROTA, *Clerk*

## ADDITIONS

### *Members*

Howard B. Bacon, 41 Barrett St., Needham 92, Mass.

Clifford S. Copithorne, 18 Bogle St., Weston 93, Mass.

Benjamin E. Eaton, Jr., Auburn, N.H.  
Sepp Firnkas, 120 Boylston St., Boston 16, Mass.

Arthur R. Giangrande, 27 Pleasant St., N. Reading, Mass.

J. Preston LeBlanc, 47 Preston St., Lynn, Mass.

Robert L. McGillicuddy, 16 Summer St., Everett 49, Mass.

Joseph M. Pecora, 12 Farmcrest Ave.,  
Lexington 73, Mass.

Lino Patti, 12 Vermont Ave., Somerville, Mass.

Seymore A. Potter, Jr., N.E. Corps of  
Engrs., 424 Trapelo Rd., Waltham 54,  
Mass.

William Simonson, 44 Revere Beach  
Pky., Revere 51, Mass.

*Juniors*

Warren D. McLea, 13 Forest Ave.,  
Natick, Mass.

*Deaths*

Ralph B. Brasseur, June 10, 1961

LeRoy G. Brackett, May 12, 1962