

## OF GENERAL INTEREST

### PROCEEDINGS OF THE SOCIETY

#### MINUTES OF MEETING Boston Society of Civil Engineers

SEPTEMBER 25, 1957.—A regular meeting of the Boston Society of Civil Engineers was held this date at the United Community Service Building, 14 Somerset Street, Boston, Mass., and was called to order by President Arthur Casagrande, at 7:05 P.M.

President Casagrande stated that the minutes of the previous meeting May 15, 1957 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 Casagrande announced the death of the following members:—

James M. McNulty, who was elected a member September 16, 1908, and who died May 11, 1956.

Horace L. Clark, who was elected a member November 16, 1927, and who died March 3, 1957.

Robert W. Pond, who was elected a member June 18, 1902, and who died February 17, 1957.

Thomas F. Sullivan, who was elected a member March 16, 1921, and who died August 27, 1957.

Parker Holbrook, who was elected a member January 26, 1921, and who died July 3, 1957.

Henry L. Kennedy, who was elected a member December 10, 1951, and who died September 10, 1957.

George N. Watson, who was elected a member September 24, 1930, and who died September 14, 1957.

The Secretary announced the names of applicants for Membership in the BSCE.

President Casagrande then introduced the speaker of the evening, Mr. J. O. Ackerman, Chief, Engr. Div. Omaha Dist., Corps of Engineers, Omaha, Nebraska, who gave a most interesting paper on "Oahe Dam on the Missouri River—The Engineering Problems of a Shale Foundation".

A brief discussion followed after which a collation was served.

Seventy six members and guests attended the meeting.

The meeting adjourned at 8:55 P.M.

ROBERT W. MUIR, *Secretary*

OCTOBER 23, 1957.—A Joint Meeting of the Boston Society of Civil Engineers with the Massachusetts Section of the American Society of Civil Engineers was held this evening at Northeastern University, Boston, Mass. The Student Chapters of the New England Colleges were especially urged to attend.

A dinner was held in University Commons Hall, Northeastern University, from 6:30 to 7:45 P.M. Student delegations were present from Northeastern University, Harvard, Tufts University, Massachusetts Institute of Technology, Brown University, University of Rhode Island, Dartmouth College, Yale University, University of Massachusetts and Worcester Polytechnic Institute.

The meeting was held in the Alumni

Auditorium and was called to order at 8:10 P.M., by President Arthur Casagrande.

President Casagrande stated that this was the 47th Student Night meeting, the first having been held on April 5, 1911. This meeting originated with the Boston Society of Civil Engineers and in its early years included only the civil engineering students at Harvard, Tufts and Massachusetts Institute of Technology. It is now held as a Joint activity of the BSCE and the Mass. Section, ASCE with student chapters of the BSCE and ASCE of the New England Colleges invited.

President Casagrande extended a cordial welcome to the students and expressed appreciation of the cooperation of the officers of the student organizations and of the faculty members in making this event so successful. He also thanked Miss Jean Langmaid who entertained with organ selections.

President Casagrande called upon the Secretary to announce names of applications for membership in the BSCE.

The Secretary also announced that the speaker for the November 20th meeting of the Society would be Dr. Philip C. Rutledge, member of the firm of Moran, Proctor, Mueser & Rutledge. Meeting to be held at United Community Services Building, 14 Somerset Street, Boston, Mass.

President Casagrande introduced A. Russell Barnes, Jr., President of Massachusetts Section, ASCE and asked him to conduct any necessary business of ASCE at this time.

President Casagrande then introduced the speaker of the evening, Dr. Karl Terzaghi, Professor Emeritus, Practice of Civil Engineering, Harvard University, who gave a most interesting illustrated talk on "Use and Abuse of Consultants in Foundation and Earthwork Engineering".

Three hundred sixty nine members and guests attended the dinner and four

hundred thirty six attended the meeting.

The meeting adjourned at 9:25 P.M.

ROBERT W. MUIR, *Secretary*

## SANITARY SECTION

OCTOBER 2, 1957.—The meeting was called to order by Chairman John F. Flaherty at 7:15 P.M., at the Society Rooms following an informal dinner at Patten's Restaurant. Twenty-eight members and guests attended the meeting and fifteen members were at the dinner.

The speaker of the evening, Werner Stumm, Asst. Professor of Sanitary Engineering at Harvard University was introduced by Chairman Flaherty. Professor Stumm's presentation of the subject "Ozone as a Disinfectant for Water and Sewage", was most interesting and instructive. His discussion of the bactericidal and chemical properties of ozone and economical aspects of ozonization of water and sewage was based on studies conducted by the speaker in Switzerland.

The meeting adjourned at 8:45 P.M.

JOSEPH C. KNOX, *Clerk*

## STRUCTURAL SECTION

OCTOBER 9, 1957.—The meeting was called to order at 7:08 P.M. in the Society Rooms in the Tremont Temple Building.

The minutes of the previous meeting were read.

Chairman Biggs said that the next meeting would be held in the new Rooms.

Mr. Biggs then introduced J. Roger Hayden of the Dresser-Ideco Company, who spoke on the design and construction of the new television broadcasting tower erected for WBZ in Needham. The height of the television mast, 1199 feet above ground (as determined

by air traffic considerations), places it among the highest such structures in the United States. With a 12 foot triangular section, the main tower weighs approximately 231,000 pounds and rests on an 8-inch pivot bearing to eliminate movement from the base. Four sets of guys are used to brace the mast. Near the top, a triangular platform 80 feet on a side is capable of supporting three individual antennas. The mast was designed for a lateral pressure of 60 psf at the base and 80 psf at the top, pressures being reduced for cylindrical shapes of the main members. The design was specified as to pressure and code. The use of pressure instead of wind velocity eliminated wind tunnel tests with dubious results. The main legs of the mast are U. S. Carilloy steel with a yield point of 90,000 psi. Bracing is of A-7 steel and is fastened with structural rib bolts. An elevator with all safety equipment can stop at any height for maintenance purposes. Mr. Hayden then showed a movie illustrating the erection of a television tower in Dallas, construction of which was similar to that of the WBZ tower.

After an extended question period, the meeting was adjourned at 8:30 P.M.

Attendance was 34.

WILLIAM A. HENDERSON, *Clerk*

## CONSTRUCTION SECTION

OCTOBER 30, 1957.—Meeting was opened at 8:00 P.M., at the Society Rooms, 715 Tremont Temple. Chairman Robert J. Hanson introduced the speaker, Professor Albert G. H. Dietz, who is Professor of Building Engineering at Massachusetts Institute of Technology.

Professor Dietz spoke on "The Increasing Use of Component Construction". The talk was illustrated with slides. Professor Dietz discussed component construction in wood and plastic construction. The construction in-

dustry has long realized the importance of component construction using wood. Component construction with plastics is a comparatively new phase. Professor Dietz has recently taken part in the development of a plastic house which was sponsored by the Monsanto Chemical Company. The talk was most interesting both in presentation and context.

There were sixteen members and guests attending the meeting.

ALBERT A. ADELMAN, *Clerk*

## ADDITIONS

### Members

- Royal C. Flanders, 56 Lexington Road, Concord, Mass.  
 Robert S. Larson, Cross Street, Norwell, Mass.  
 Anthony P. LaRosa, 117 Oliver Street, Malden 48, Mass.  
 Leonard J. Peterson, 14 Hillside Road, Reading, Mass.  
 Alexander Sibbald, 14 Mandalay Road, South Weymouth, Mass.  
 John W. Towers, 372 Winter Street, Weston, Mass.  
 Frederick T. Webb, Schuyler Clapp Co., 373 Washington St., Braintree, Mass.  
 Donald H. Hastie, 48 Neale Gate St., P.O. Box 194, Greenbush, Mass.  
 Ermonian Krikor, 76 Cleveland Street, Arlington, Mass.  
 Andrew C. Paton, 137 Freeman Street, Brookline, Mass.

### Juniors

- John J. Chisholm, 108 Winthrop Street, Boston 19, Mass.  
 Nicholas R. D'Allessandro, 29 Churchill Street, Newtonville, Mass.  
 Nicholas H. Fitzgerald, 250 Washington Street, Winchester, Mass.  
 Richard L. Foster, 97 Plain Dr., E. Hartford 8, Conn.  
 Arthur R. Giangrande, 93 Central Street, Somerville, Mass.  
 Richard D. Howard, 5 Florence Street, Cambridge, Mass.

John P. Hickey, Jr., 115 Wolcott Road,  
Brookline, Mass.

William Moy, 401 Norfolk Street, Dor-  
chester, Mass.

George H. Power, 78 Main Street, Con-  
cord, Mass.

Wallace G. Sanborn, 545 Cohannet  
Street, Taunton, Mass.

Peter P. Saunders, 10 Park Street, Box  
314, Norwood, Mass.

Maurice Vezina, 9 Sunset Avenue,  
Montreal 8, Canada.

## DEATHS

Arthur E. Harding, Oct. 4, 1957

Parker Holbrook, July 3, 1957

Robert Gillespie, Oct. 5, 1957

Henry L. Kennedy, Sept. 10, 1957

Edward F. Kelley, Oct. 28, 1957

Chester A. Moore, Sept. 18, 1957

Thomas F. Sullivan, Aug. 27, 1957

George N. Watson, Sept. 14, 1957

Louis A. Chase, Nov. 3, 1957

Arthur A. Shurcliff, Nov. 12, 1957