

OF GENERAL INTEREST

Inspection Trip to the Massachusetts Turnpike

Fifty-one members and guests of the Boston Society of Civil Engineers met at the Maintenance Depot of the Massachusetts Department of Public Works at the intersection of Routes 9 and 129 in Wellesley on September 21, 1955. Two bus loads of people left at 9:30 A.M. and in a few minutes were traveling over about four miles of actual turnpike right of way. Though the ride was quite rough, it was worthwhile to view at first hand the preliminary construction of this part of the road. The buses crossed the turnpike in three places, and in the Rochdale-Charlton City area, traveled over three or four more miles of incompletd right of way.

The party stopped at the Publick

House, Sturbridge, at 11:45. A Social hour took place in the Cocktail Lounge until 12:45 when a buffet luncheon was served. After the luncheon, Mr. McCloskey of the Turnpike Authority spoke to the group concerning the various aspects of construction of the Turnpike. The return tour followed Route 20 to Route 9 to the point of beginning. On this trip several cuts and interchanges were viewed. At each location, Mr. J. H. Reynolds explained how far each project had progressed and enumerated the problems encountered.

Though rain fell constantly throughout the day, the spirits of the travelers were high due to the widespread interest in the huge Turnpike project.

ROGER C. COLETTE,

Chairman Hospitality Committee

PROCEEDINGS OF THE SOCIETY

MINUTES OF MEETING

Boston Society of Civil Engineers

OCTOBER 19, 1955.—A Joint Meeting of the Boston Society of Civil Engineers with the Northeastern Section of the American Society of Civil Engineers and the Structural Section, BSCE, was held this date at Massachusetts Institute of Technology, Cambridge, Mass. The Student Chapters of the New England Colleges were especially urged to attend.

A dinner was held in Walker Memorial, Mass. Institute of Technology from 6:30 P. M., to 7:30 P.M. Student delegations were present from Northeastern University, Tufts University, Mass. Institute of Technology, Univer-

sity of Rhode Island, Brown University, University of Massachusetts and Worcester Polytechnic Institute.

The meeting which was held in the new Kresge Auditorium at Mass. Institute of Technology was called to order by President Cobb at 7:35 P.M. President Cobb 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.

President Cobb called upon the Secretary to announce the names of applicants for membership in the BSCE.

President Cobb introduced Emory Ireland, President of the Northeastern Section of the American Society of

Civil Engineers and asked him to conduct the necessary business for ASCE at this time.

President Cobb called upon Mr. C. J. Kray, Chairman of the Structural Section, BSCE, to conduct any necessary business for that Section at this time.

President Cobb then introduced the speaker of the evening, Dr. John B. Wilbur, Head of Dept. of Civil and Sanitary Engineering at Mass. Institute of Technology, who gave a most interesting talk on "Esthetic Aspects of Civil Engineering".

Two hundred seventeen members and guests attended the dinner.

The meeting adjourned at 8:45 P.M.

ROBERT W. MOIR, *Secretary*

NOVEMBER 16, 1955.—A Joint Meeting of the Boston Society of Civil Engineers with the Hydraulics Section, BSCE, was held this evening at the United Community Service Building, 13 Somerset Street, Boston, Mass., and was called to order by President Edwin B. Cobb, at 7:05 P.M.

President Cobb announced that the minutes of the previous meeting would be published in a forthcoming issue of the JOURNAL and that the reading of the minutes would be waived unless there was objection.

The President announced the death of the following members:—

Calvin C. Sears, who was elected a member September 18, 1912, and who died May 3, 1955.

Porter O. Robinson, who was elected a member May 19, 1926, and who died April 28, 1955.

Otto Germanis, who was elected a member May 14, 1951, and who died July 10, 1955.

Albert E. Cummings, who was elected a member March 21, 1945, and who died July 20, 1955.

Albert E. Kleinert, who was elected a member December 23, 1925, and who died October 23, 1955.

The Secretary announced the names of applicants for Membership in the

BSCE, and that the following had been elected to membership on November 16, 1955.

Grade of Member—Rance L. Banner, Lawrence E. Maibach, Edward J. Michalski, Robert W. Mirick, Audun Ofjord, Elwood C. Richardson, William E. Sullivan.

Grade of Student—Bruce N. MacIver.

President Cobb announced that this was a Joint Meeting with the Hydraulics Section and called upon Ralph S. Archibald, Chairman of that Section to conduct any necessary business for that section at this time.

President Cobb then introduced the speaker of the evening, David R. Campbell, Engineer, New England Power Service Company, who gave a most interesting talk on "The report on Progress of Construction of Littleton Development". The talk was illustrated with slides and movies.

A short discussion period followed after which the President announced that a collation would be served.

Forty-five members and guests attended the meeting.

The meeting adjourned at 8:30 P.M.

ROBERT W. MOIR, *Secretary*

DECEMBER 7, 1955.—A Joint Meeting of the Boston Society of Civil Engineers with the Sanitary Section, BSCE, was held this evening at the United Community Service Building, 14 Somerset Street, Boston, Mass., and was called to order by President Edwin B. Cobb, at 7:00 P.M.

President Cobb announced that the minutes of the previous meeting November 16, 1955 would be published in a forthcoming issue of the JOURNAL and that the reading of the minutes would be waived unless there was objection.

The President announced the death of the following member:—

George C. Wallace, who was elected a member November 15, 1954, and who died November 27, 1955.

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

President Cobb announced this was a Joint Meeting with the Sanitary Section and called upon Ariel A. Thomas, Chairman of that Section to conduct any necessary business for that section at this time.

President Cobb announced that the speaker for the January 25, 1956 meeting would be Prof. John T. Howard, Dept. of City and Regional Planning, of Mass. Institute of Technology, whose subject will be "Transportation Planning", and it will be a Joint Meeting with the Surveying and Mapping Section and also the Transportation Section.

President Cobb then introduced the speaker of the evening, Ross E. McKinney, Asst. Prof. Sanitary Engineering, Mass. Institute of Technology who gave a most interesting illustrated talk on "A Cooperative Approach to Stream Pollution Control in Massachusetts".

A rising vote of thanks was given the speaker.

Thirty-eight members and guests attended the dinner preceding the meeting and sixty-three attended the meeting.

The meeting adjourned at 8:20 P.M.

ROBERT W. MOIR, *Secretary*

SANITARY SECTION

OCTOBER 5, 1955.—The meeting was called to order by Acting Chairman Darrell A. Root at 7:00 p.m. at the Society Rooms after an informal dinner at Pattens Restaurant. Twenty-five members and guests attended the dinner and fifty members and guests attended the meeting.

Mr. Root announced that Ariel Thomas, Chairman of the Sanitary Section, has been transferred to New Jersey and requested Mr. Root to take over the direction of the Sanitary Section for the remainder of the year. Chairman Root then proceeded to

introduce the speakers, Charles G. Hammann, Director of Public Works of Woonsocket, Rhode Island, and John S. Bethel, Jr., Partner, Metcalf and Eddy, Engineers, who proceeded to deliver talks on the Comprehensive Sanitation Plan for Woonsocket.

Mr. Hammann gave a brief outline of the development of the City of Woonsocket from its founding up to the present and described, in general, the sanitation problems of the City. Mr. Bethel followed with a paper describing the engineering studies made of the problems and the recommendations resulting from the study, along with a program of improvements developed to meet the sanitation requirements. At the conclusion of the paper, there was an interesting discussion between the speakers and the members and guests.

The meeting was adjourned shortly after 8:30 p.m.

JOHN F. FLAHERTY, *Clerk*

STRUCTURAL SECTION

OCTOBER 19, 1955.—A joint meeting of the Boston Society of Civil Engineers, the Northeastern Section of the American Society of Civil Engineers, and the Structural Section of BSCE was held on this date at the Massachusetts Institute of Technology in Cambridge, Mass. Civil Engineering students of the New England Colleges were especially invited to attend this meeting.

Dinner was served at 6:30 P.M., in Walker Memorial, M.I.T. Delegations of students were present from Brown University, Massachusetts Institute of Technology, Northeastern University, Rhode Island University, Tufts University, University of Massachusetts, and Worcester Polytechnic Institute.

The meeting was held in M.I.T.'s new Kresge Auditorium and was called to order by President Cobb at 7:40 P.M. After the necessary business was conducted, President Cobb introduced the speaker of the evening, Dr. John B.

Wilbur, Head of Department of Civil and Sanitary Engineering, M.I.T.

Dr. Wilbur's subject was "The Aesthetic Aspects of Civil Engineering". This very stimulating talk which was illustrated by slides discussed the various factors which contribute to the beauty of a structure. He urged the young engineers present to take the lead in the development of more pleasing structures.

The talk was well received by the two hundred seventeen members and guests present. The meeting was adjourned at 8:45 P.M.

JOHN M. BIGGS, *Clerk*

NOVEMBER 9, 1955.—A regular meeting of the Structural Section was held on this date in Myers Hall, Tremont Temple. The attendance was approximately two hundred members and guests. Chairman Kray called the meeting to order at 7:15 P.M., and introduced the speaker, Dr. D. B. Steinman, Consulting Engineer, New York City.

Dr. Steinman's subject was "The \$100,000,000 Mackinac Bridge—Conquering the Impossible". The overall design and the construction to date were described and illustrated by slides. This bridge which will have the longest total length of any suspension bridge in the world involved enormous quantities of material and many unusual methods of construction. The speaker's description of the aerodynamic design of the structure was of particular interest.

After question and answer period the meeting was adjourned at 8:45 P.M.

JOHN M. BIGGS, *Clerk*

HYDRAULIC SECTION

MAY 4, 1955.—A meeting of the Hydraulic Section was held at the Hydrodynamics Laboratory of Massachusetts Institute of Technology in Cambridge, Mass., on this date. The meeting was convened at 7:00 P.M. in the lecture

room by Chairman Archibald, and then turned over to Dr. Arthur T. Ippen, who described the various demonstrations which were set up in the laboratory. Mr. Thomas of the Sanitary Section announced that all were invited to a meeting of that section in Lawrence and Andover, where among other interesting subjects, developments for dissipation of radio-active waste were to be described and demonstrated.

The assembly of 56 members and guests was then divided into a number of small groups who were guided to the various laboratory experiments by members of the Institute staff. Other staff members, who were stationed at the experiments, described and demonstrated the various tests.

The principal demonstration which was observed consisted of a wave tank, a model dam spillway, turbulence studies in a high velocity flume, towing of ship models in a towing tank, pressure distribution around a tainter gate, a model surge tank, operation of the cavitation tunnel and the flow of density currents in a small flume.

The tour was well organized and operated on a close time schedule so that all were able to return to the lecture hall where questions on details of the demonstrations which had been observed were answered by Dr. Ippen and his staff. The meeting was adjourned at 9:10 P.M. after a rising vote of thanks by those present for a very profitable and pleasant evening.

CLYDE W. HUBBARD, *Clerk*

SURVEYING AND MAPPING SECTION

APRIL 6, 1955.—The twenty-seventh meeting of the Surveying and Mapping Section was held at the Society Rooms at 7:00 P.M. on this date.

Prior to the meeting the executive committee of the section met in the Society Rooms for the purpose of planning a program for the coming year.

The meeting was called to order by

Chairman Alexander J. Bone. The minutes of the meeting held on January 26, 1955 were read by the Clerk and approved. There was no new business to be taken up with the members.

The general topic for the evening, "Educational Methods, Formal and Practical, Producing the Best Results in Training Today's Surveyor". The topic was well discussed, analyzed and recommendations made by the guest speakers—Prof. John B. Wilbur, Prof. Charles O. Baird, Jr., Charles M. Anderson and Nelson W. Gay.

Professor Wilbur and Professor Baird of Mass. Institute of Technology and Northeastern University, respectively, discussed the place that surveying plays in education of the Civil Engineer and the teaching methods employed. Because of the ever broadening scope of the Civil Engineers field it was felt that surveying will occupy a smaller and smaller percentage of the Civil Engineering teaching hours. The suggestion was made to set up a new course with a new curriculum specifically for surveying.

Mr. Anderson, Chief Engineer, Massachusetts Land Court, and Mr. Gay, Chief Engineer, New England Survey Service, discussed problems of the employer in obtaining qualified party chiefs and the methods used in the practical training of competent men on the job.

The general discussion that followed the speakers, brought out strongly the fact that while the adventure and the interest attached to the surveyor's life attracted many good men and many were competent civil graduates, the general lack of attractive pay soon make many of them turn to other fields. It was felt that after a sustained acute shortage of competent surveyors, with which not even on the job training could cope, a marked increase in salaries would result in an easing of the search for qualified men and perhaps even a return to that breed of men whose studies of land law, mathe-

matics, and surveying techniques, raised the surveying branch of Civil Engineering to a very enviable level.

Thirty-eight members and guests were present at the meeting.

The meeting adjourned at 8:30 P.M.

ERNEST A. HERZOG, *Clerk*

OCTOBER 26, 1955.—The twenty-eighth meeting of the Surveying and Mapping Section was held at the Society Rooms at 7:00 P.M.

The meeting was called to order by the Chairman, A. J. Bone, and the minutes of the April 6, 1955 meeting were read and approved.

Upon a motion made and recorded, the section voted to authorize the Chairman to appoint a nominating committee to submit a slate of officers for the coming year. The Chairman accordingly appointed Messrs. George W. Hankinson, C. Frederick Joy and Wilbur C. Nylander to serve on this committee.

The Chairman then introduced the speaker of the evening, Mr. Herman J. Shea, Chief Engineer, James W. Sewall Company, who spoke on the subject, "Recent Developments in Surveying Instrumentation".

Mr. Shea described the principles and application of several types of foreign and domestic surveying instruments which are being introduced and used in this country. Typical instruments contributed by section members were demonstrated.

Following the talk several members gave their experiences with some of the instruments on display.

There were 48 members and guests present.

E. A. HERZOG, *Clerk*

ADDITIONS

Members

John C. Adams, Jr., 12 Hereford Road, Marblehead, Mass.

Paul J. Berger, 13 Webb Road, Sharon, Mass.

- Rance L. Banner, Box 142, Keene, New Hampshire.
- John G. Chalas, 3 Maplewood Street, Watertown 72, Mass.
- James R. Cass, 412 Huntington Avenue, Hyde Park 36, Mass.
- William R. Duffy, 34 Dartmouth Avenue, Dedham, Mass.
- Peter S. Eagleson, Rm. 48-102 Mass. Institute of Technology, Cambridge 39, Mass.
- Richard F. Ebens, 85 High Street, Winchester, Mass.
- Arthur Hebert, 10240 Corning Oak Park 37, Michigan.
- Kenneth W. Henderson, 134 Pearsall Drive, Apt. 2F, Mt. Vernon, New York.
- Franklin E. Kasef, 125 Homes Avenue, Dorchester 22, Mass.
- Tadeusz S. Klodnicki, 45 Chambers Street, Boston 14, Mass.
- Charles F. Kennedy, 29 Moreland Street, Somerville 45, Mass.
- Robert S. Loomis, 31 Loomis Avenue, Windsor, Conn.
- Jack Manusowicz, 59 Brookledge Street, Roxbury 21, Mass.
- Edward J. Michalski, 9 Haven Lane, Cochituate, Mass.
- Robert W. Mirick, 18 Eames Street, North Reading, Mass.
- Ronald E. Nece, Hydrodynamics Laboratory, Mass. Inst. Technology, Cambridge 39, Mass.
- James E. Roberts, 314 Westgate W., Cambridge 39, Mass.
- Paul S. Ross, 19 Central Avenue, Hull, Mass.
- Elwood C. Richardson, 33 High Street, Nahant, Mass.
- Roger P. Reidy, 45 Chester Street, Newton Highlands, Mass.
- John P. Sullivan, 46 Woodbrier Road, W. Roxbury 32, Mass.
- Reuben Samuels, 85 Wyoming Road, Paramus, New Jersey.
- James Simmons, 221 East Street, Sharon, Mass.
- Francis W. Taylor, 109 Watervale Road, Medford 55, Mass.
- John F. Vance, Jr., 250 Park Street, Attleboro, Mass.

Juniors

- Joseph J. Allegro, 126 Dakota Street, Dorchester 24, Mass.
- A. Gregory Chase, 37 Prospect Street, Newburyport, Mass.
- Earl H. Christopher, 93 Nahant Street, Wakefield, Mass.
- Paul A. Eno, 780 Andover Street, Lowell, Mass.
- Robert G. Esterberg, 188 Country Way, Greenbush, Mass.
- Joseph A. Grimaldi, 48 Hichborn Street, Brighton 35, Mass.
- Norman W. Crossman, 154 Union Street, Framingham, Mass.
- Richard P. Ierardi, 257 Washington Street, Dorchester 21, Mass.
- Uldis Kirsis, 47 Custer Street, Jamaica Plain 30, Mass.
- Irving M. Kusnitz, 169-08 69th Avenue, Fresh Meadows, New York.
- Robert M. Lee, 23 Kenwood Street, Brookline 46, Mass.
- Robert A. McCracken, 34 Bennington Street, Lawrence, Mass.
- Domenic M. Palmer, 24 Curtis Avenue, Quincy 69, Mass.
- Harold J. Powderly, 36 Rosa Street, Hyde Park 36, Mass.
- Joseph P. Sasso, 33 Bartlett Street, Malden 48, Mass.
- James P. O'Sullivan, 138 Train Street, Dorchester 22, Mass.
- Carmen C. Testa, 130 Meridian Street, Boston 28, Mass.
- Norman A. Whalen, 29 Myrtle Street, Brockton, Mass.
- David B. Weiner, 52 Woodlawn Avenue, Chelsea 50, Mass.

DEATHS

- Calvin C. Sears, May 3, 1955
- Porter O. Robinson, April 28, 1955
- Otto Germanis, July 10, 1955
- Albert E. Cummings, July 20, 1955
- Albert E. Kleinert, Oct. 23, 1955
- George C. Wallace, Nov. 27, 1955