

# AMERICAN CONCRETE INSTITUTE

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## PROCEEDINGS

OF THE

## FOURTEENTH ANNUAL CONVENTION

Held at Atlantic City, N. J.,

June 27, 28 and 29, 1918

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SUMMARY OF THE PROCEEDINGS OF THE FOURTEENTH  
ANNUAL CONVENTION.

Hotel Traymore, Atlantic City, N. J.

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FIRST SESSION, THURSDAY, JUNE 27, 1918, 8 P. M.

The Convention, in joint session with the American Society for Testing Materials, was called to order by S. S. Voorhees, Vice-President of the American Society for Testing Materials.

Robert W. Lesley in the chair.

The report of the A.S.T.M. Committee C-1 on Cement was presented by its Chairman, R. S. Greenman.

The report of the A.S.T.M. Committee C-2 on Reinforced Concrete was presented by its Secretary, Richard L. Humphrey.

The report of the A.C.I. Committee on Treatment of Concrete Surfaces was presented by its Chairman, J. C. Pearson. The report was accepted and ordered printed.

The A.C.I. paper, "Tests of Stucco," was read by its author, J. C. Pearson.

The A.C.I. paper, "Fire Tests of Concrete Columns," was read by its author, W. A. Hull.

The A.S.T.M. paper, "Effect of Age on the Strength of Concrete," was read by its author, D. A. Abrams.

The A.S.T.M. paper, "Proportioning the Materials of Mortars and Concretes by Surface Areas of Aggregates," was read by its author, Capt. L. N. Edwards.

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SECOND SESSION, FRIDAY, JUNE 28, 1918, 10.30 A. M.

President W. K. Hatt in the chair.

Frank C. Wight in the chair.

The paper, "Apparatus for Testing Under Uniform Load," was read by Prof. W. K. Hatt in the absence of its author, H. H. Seofield.

President W. K. Hatt in the chair.

The report of the Committee on Building Blocks and Cement Products was presented by the Secretary of the Institute

The following papers were read and discussed:

"Ornamental and Decorative Concrete," by R. F. Havlik. Read by the Secretary of the Institute in the absence of the author.

"Problems in Devising a New Finish for Concrete," by J. J. Earley.

"Reinforced-Concrete Products for Railway Purposes," by Charles Gilman."

"Reinforced-Concrete Pressure Pipe," by Coleman Meriwether.

"Tests of Blast Furnace Slag as Concrete Aggregate," by P. J. Freeman.

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THIRD SESSION, FRIDAY, JUNE 28, 1918, 3 P. M.

President W. K. Hatt in the chair.

The report of the Committee on Reinforced-Concrete and Building Laws was read by the Secretary of the Institute. The report was laid on the table.

The following papers were read and discussed.

"Some Tests on the Effect of Age and Condition of Storage of Concrete," by H. F. Gonnerman. Read by A. N. Talbot in the absence of the author.

"Moment Coefficients in Flat-Slab Design," by W. K. Hatt

"Tests of an Eight-year Old Flat-Slab Floor of the Western Newspaper Building," by A. N. Talbot and H. F. Gonnerman. Read by A. N. Talbot.

"Theory and Test of Flat-Slab with Ring Reinforcement," by Edward Smulski.

"Design of Concrete Chimneys," by J. G. Mingle.

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FOURTH SESSION, FRIDAY, JUNE 28, 1918, 8 P. M.

President W. K. Hatt in the Chair.

The following papers were read and discussed:

"Industrial Housing and Labor Turnover," by Leslie H. Allen.

"Advantages and Disadvantages of the Concrete House," by John E. Conzelman. Read by the Secretary of the Institute in the absence of the author.

"Recent Examples of Concrete Buildings in Housing Work," by A. B. Whipple.

"Methods of Construction of Concrete Houses," by Lieut. K. H. Talbot. Read by L. H. Allen in the absence of the author.

"Architectural Design of Concrete Houses," by Emile G. Perrot. Read by title in the absence of the author.

"Interior Design of Concrete Houses," by Milton D. Morrill.



The report of the Committee on Industrial Concrete Housing was presented by its chairman, Leslie H. Allen.

The representative of the Institute on the Joint Committee on Fire-proofing, A. E. Lindau, reported that the committee had published a specification for fire tests. On motion the specification was accepted by the Institute and ordered printed in the Proceedings with the statement that it is the purpose of the Institute to make it a standard specification when it can take its usual course prescribed by the by-laws for the adoption of standards.

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FIFTH SESSION, SATURDAY, JUNE 29, 1918, 10 A. M.

President W. K. Hatt in the chair.

The report of the Committee on the Far Rockaway Fire was presented by its Chairman, Richard L. Humphrey. The report was accepted and ordered printed.

The report of the Committee on Concrete Roads and Pavements was presented by its Chairman, H. E. Breed. Revisions of specifications standards Nos. 5, 17, 18, 19 and 20 were sent to letter ballot for adoption as standards. Remainder of report accepted and ordered printed.

The following papers were read and discussed:

"Concrete Roadways for the Industrial Plant," by G. S. Eaton.

"Effect of Time of Mixing on the Strength and Wearing Qualities of Concrete," by D. A. Abrams.

The report of the Committee on Sidewalks and Floors was presented by its Chairman, J. E. Freeman. Report accepted and ordered printed.

The following papers were read and discussed:

"Distortions and Vertical Changes of Concrete Pavement Slabs Due to Subgrade Movements," by J. W. Lowell.

"How to Get the Best Surface on a Concrete Road," by A. H. Hunter. Read by title in the absence of the author.

"Some Experiences on the Vermilion County Concrete Roads," by P. C. McArdle. Read by title in the absence of the author.

The report of the Committee on Plain and Reinforced-Concrete Sewers was presented by Coleman Meriwether of the committee. Report with suggested specifications referred back to the committee and ordered not printed in the Proceedings.

SIXTH SESSION, SATURDAY, JUNE 29, 1918, 3 P. M.

President W. K. Hatt in the chair.

*Business Session.*

The Secretary reported that the letter ballot had resulted in the election of the following officers for the ensuing year:

*President:* William K. Hatt.

*Vice-President:* Henry C. Turner.

*Treasurer:* Robert W. Lesley.

*Directors: First District—*C. R. Gow.

*Second District—*E. D. Boyer.

*Sixth District—*J. G. Treanor.

The Treasurer read the report of the Treasurer and of the Auditors.

The Secretary read the annual report of the Board of Direction.

On motion the following resolution was adopted:

*Resolved,* That the American Concrete Institute in convention assembled learns with regret of the death of Dr. Edgar Marburg, who for so many years has so faithfully served as Secretary of the American Society for Testing Materials, and desires to extend its sympathy to the family and our sister society, and that a copy of this resolution be entered on the minutes of this Institute, sending one to the American Society for Testing Materials and one to the family."

The following papers were read and discussed:

"Reinforced-Concrete Columns under Eccentric Load," by L. J. Mensch. Read by title in the absence of the author.

"Reinforced-Concrete Cold Storage Warehouse at Boston," by G. H. Brazer. Read by title in the absence of the author.

"Core Construction for Reinforced-Concrete Floors," by A. H. Bromley, Jr.

"Relation of Costs to Design of Reinforced-Concrete Buildings," by C. W. Mayers.

"Construction of C. & N. W. Ry. Grain Elevator," by F. C. Huffman. Read by title in the absence of the author.

"Construction of Reinforced-Concrete Building for American Can Co.," by N. M. Loney. Read by W. K. Hatt in absence of the author.

"Reinforced-Concrete Flat-Slab Railway Bridges," by A. B. Cohen.

The report of the Committee on Research was presented by its Chairman, W. A. Slater. The report, which was one of progress, was accepted by the Convention.



SEVENTH SESSION, SATURDAY, JUNE 29, 1918, 8 P. M.

Leonard C. Wason in the chair.

The report of the Committee on Nomenclature was presented by its chairman, W. A. Slater. The report was accepted by the Convention.

The report of the Committee on Concrete Barges and Ships was presented by its chairman, H. C. Turner.

The following papers were read and discussed:

"Plasticity and Temperature Deformations in Concrete," by S. C. Hollister.

"Developments in Concrete Barges and Ships," by J. E. Freeman.

"Problems Arising in the Design and Construction of Reinforced-Concrete Ships," by R. J. Wig and S. C. Hollister. Read by R. J. Wig.

"The Yard for Building Concrete Ships at Wilmington, N. C.," by A. G. Monks. Read by title in the absence of the author.

"Design and Construction of a Concrete Barge," by L. L. Livingston.

President W. K. Hatt in the chair.

The President declared the Convention adjourned *sine die*.