
—To provide a comradeship in finding the best ways to do concrete work of all kinds and in spreading that knowledge.

38th Annual Convention

AMERICAN CONCRETE INSTITUTE

Wednesday, Thursday, and Friday
February 18, 19, 20, 1942

PALMER HOUSE, CHICAGO

TIME TABLE

(Tuesday, February 17—Committee Meetings only)

When they have registered (for which no fee is charged) non-members as well as members will be welcome in all general sessions.

Wednesday—10:00 a. m.—See page 3

2:00 p. m.—See page 4

8:00 p. m.—See page 7

Thursday— 9:30 a. m.—See page 8

2:00 p. m.—See page 11

7:00 p. m.—The Dinner

(Tickets at Registration Desk)

Friday— 9:30 a. m.—See page 12

2:00 p. m.—See page 15

Watch the Bulletin Board at Registration Desk

Manuscript

- Participants in the program should not fail to leave with the Chairman or with the reporter, G. K. Anderson, manuscripts from which papers or discussions are presented. This should be done immediately at the conclusion of each contribution. The ACI Secretary will later provide opportunity for manuscript and proof revision before JOURNAL publication.
- Papers and reports which have already been published in the JOURNAL (and in each such instance the fact is noted in the program) are available at the ACI Registration desk for purposes of convention discussion.

Discussion

- Upon recognition by the Chairman a discussor will please state distinctly his name or the registration number as it appears on his convention badge and go forward to the rostrum so he may be heard by all—including our reporter, G. K. Anderson. Anonymous discussion is unacceptable. Those who present discussion extemporaneously will be given opportunity for revision before publication.
- The ACI convention staff will be alert to extend every possible courtesy to everyone—member or non-member who registers. (There is no registration fee.) Non-member registrants will later receive (without cost) the "ACI Convention in Review."
- Convention papers, reports and discussion are available for distribution only upon publication in the ACI JOURNAL. They are then available also in separate prints at 25 to 50c each. This announcement is made to discourage individual requests which the Institute finds impossible to meet, for prior distribution.
- If you have a question about concrete that the Quiz Session doesn't get to, send it to the ACI Secretary.

10 a.m., WEDNESDAY, FEBRUARY 18

PRESIDING—VICE PRESIDENT RAYMOND E. DAVIS

ABSORPTIVE FORM LINING

E. N. VIDAL AND R. F. BLANKS

Bureau of Reclamation, Denver, Colo.

See: ACI JOURNAL January, 1942 and for additional discussion background, "The Use of Absorptive Wall Boards for Concrete Forms," Johnson, ACI JOURNAL, June, 1941.

PROPOSED RECOMMENDED PRACTICE FOR MEASURING, MIXING AND PLACING CONCRETE

Report of ACI Committee 614, LOUIS H. TUTHILL, Chairman

See: ACI JOURNAL, November, 1941. The report will be before the convention on a motion for adoption as an ACI Standard. It may be amended only by nine-tenths of ACI members voting.

APPOINTMENT OF TELLERS

2 p.m., WEDNESDAY

PRESIDING—VICE-PRESIDENT RAYMOND E. DAVIS

CALIFORNIA EXPERIENCE WITH THE EXPANSION OF CONCRETE THROUGH REACTION BETWEEN CEMENT AND AGGREGATE

THOMAS E. STANTON, O. J. PORTER, L. C. MEDER, ALLEN NICOL

Materials and Research Dept., California Division of Highways, Sacramento.

See: ACI JOURNAL, January, 1942. See also: "Cracking in Concrete Due to Expansive Reaction between Aggregate and High Alkali Cement as Evidenced at Parker Dam," Meissner, ACI JOURNAL, April, 1941; "Investigation of Causes of Delayed Expansion of Concrete in Buck Hydroelectric Plant," Kammer and Carlson; "Evidence in Washington of Deterioration of Concrete through Reactions between Aggregate and High Alkali Cements," Trempier; "The Nature of the Processes Leading to the Disintegration of Concrete with Special Reference to Excess Alkalis," Berkeley—all three, ACI JOURNAL, June, 1941.

Discussion will be lead by ROY W. CARLSON

Associate Professor of Civil Engineering, Massachusetts Institute of Technology, Cambridge

A CONCRETE FAILURE ATTRIBUTED TO AGGREGATE OF LOW THERMAL COEFFICIENT

J. C. PEARSON

Director of Research, Lehigh Portland Cement Co., Allentown, Penna.

See ACI JOURNAL, September, 1941.

Discussion:

F. B. Hornibrook

National Bureau of Standards, Washington, D. C.

Harmon S. Meissner

Bureau of Reclamation, Denver

Roderick B. Young

Hydro-Electric Power Commission of Ontario, Toronto

MEMORANDA

INSPECTION OF CONCRETE

Discussion will be held on the subject of "Inspection of Concrete" at the 39th Annual Convention of the American Concrete Institute, Inc., New York, N. Y., Feb. 16-19, 1943. The subject will be led by J. W. KELLY, Chairman, ACI's Committee on Inspection of Concrete.

The 39th Annual Convention of the American Concrete Institute, Inc., will be held at the Waldorf-Astoria Hotel, New York, N. Y., Feb. 16-19, 1943. The subject of "Inspection of Concrete" will be discussed by J. W. KELLY, Chairman, ACI's Committee on Inspection of Concrete.

Discussion:

J. W. Kelly

Director, Highway Research Board, Washington, D. C.

A. T. Goodland

Technical Director, Federal Quality Control Bureau, Washington, D. C.

Thomas G. Priddy, Jr., Frederick H. Park and Donald W. Hays
Federal Bureau of Investigation, Washington, D. C.

H. F. Thomas

Washington, D. C.

H. S. Pugh

Portland Cement Association, Skokie, Ill.

and others

The 39th Annual Convention, New York, Feb. 16-19, 1943

MEMORANDA

CALIFORNIA EXPERIENCE WITH THE EXPANSION OF
CONCRETE THROUGH REACTION BETWEEN CEMENT
AND AGGREGATE

THOMAS E. STANTON, C. J. REITER, & G. MEYER, ALLEN
WEST

Materials and Research Dept., California Division of Highway Engineering

See ACI JOURNAL, January 1943, "Reaction Between Cement and Aggregate Due to Unfavorable Relative Humidity Conditions and High Alkali Content in Concrete" and "High Alkali Content in Concrete" and "High Alkali Content in Concrete" in ACI JOURNAL, April 1943, "Expansion of Concrete Through Reaction of Cement with Aggregates" and "Expansion of Concrete Through Reaction of Cement with Aggregates" in ACI JOURNAL, July 1943, "Expansion of Concrete Through Reaction of Cement with Aggregates" and "Expansion of Concrete Through Reaction of Cement with Aggregates" in ACI JOURNAL, July 1943.

Discussion will be held by 7:00 P. M. CALIFORNIA DIVISION OF HIGHWAY ENGINEERING, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA

A CONCRETE FAILURE ATTRIBUTED TO AGGREGATE OF
LOW THERMAL COEFFICIENT

J. C. SAGON

Director of Research, Laboratoire Central des Ponts et Chaussées, Paris

See ACI JOURNAL, September 1942

Discussion:

F. E. Hurlbut

Materials Engineer, Portland Cement Association

Herman G. Protze, Jr.

Materials Engineer, Boston

Richard W. Taylor

Materials Engineer, Federal Bureau of Investigation

The 39th Annual Convention, New York, Feb. 16-19, 1943

8 p.m., WEDNESDAY

PRESIDING—PAST-PRESIDENT RODERICK B. YOUNG

INSPECTION OF CONCRETE

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Discussion, which with extemporaneous contributions from the floor, is invited on the need for and every phase of the practice of concrete inspection. It will be led by J. W. KELLY, Chairman ACI Committee 611, Inspection of Concrete.

See: "ACI Manual of Concrete Inspection" which was sent as a "special publication" to all Members in July, 1941, and since that time has attained a wide sale and extensive use on the job and in engineering training classes. Written discussion is invited in addition to that for which one convention session will provide time.

Discussion:

Roy W. Crum

Director, Highway Research Board, Washington, D. C.

A. T. Goldbeck

Engineering Director, National Crushed Stone Assn., Washington, D. C.

Herman G. Protze, Jr., Frederick B. Parks and Donald Ball
Engineers, The Thompson & Lichtner Co., Boston

H. F. Thomson

Vice-President, General Materials Co., St. Louis

W. R. Waugh

Materials Engineer, Hiwassee Dam, N. C.

and others

9:30 a.m., THURSDAY

PRESIDING—VICE-PRESIDENT MORTON O. WITHEY

RESEARCH

The annual open session of ACI Committee 115, Research, M. O. WITHEY, Chairman, S. J. CHAMBERLIN, Secretary

Research men will discuss their special problems and most of the very brief papers to be presented will have to do with research work not yet ready for publication, the immediate benefits are thus for those who attend, published papers are for the unpredictable future. One interesting item scheduled is a statement of the Portland Cement Association's long-time study of cement performance in concrete, by F. R. McMILLAN, Director of Research.

MEMORANDA

The 39th Annual Convention, New York, Feb. 16-19, 1943

PROPOSED REVISION OF BY-LAWS

(Words in bold face represent additions to or substitutions in the present By-Laws)

ARTICLE I—MEMBERS

Section 1. The Institute shall consist of Members, Contributing Members, **Junior Members**, Student Members and Honorary Members interested in furthering the Institute's objects as set forth in its Charter.

Section 2. A Member or a Contributing Member may be a person, firm, corporation society or other organization. (No age limit is specified for Members; however, for the benefit of the younger member applicants, two optional grades, **Junior Member and Student Member**, are provided.) **A Junior Member shall be a person not more than 28 years of age.**

A Student Member shall be a student in residence at a recognized technical or engineering school. An Honorary Member shall be a person of eminence in the field of the Institute's interest, or one who has performed extraordinarily meritorious service to the Institute.

Section 3. A Member, Contributing Member, or **Junior Member** shall be proposed by two members of the Institute and elected by a two-thirds vote of the Board of Direction. A Student Member shall be proposed by a member of the faculty of his institution and elected by a two-thirds vote of the Board of Direction. An Honorary Member shall be nominated by ten members of the Institute and elected by unanimous vote of the Board of Direction in secret ballot.

Section 4. All members shall have all rights and privileges of membership as determined by the Board of Direction, except that a **Junior** or Student member

shall not vote nor hold office. The status of a Student Member shall change automatically to that of **Junior Member** on the first anniversary of his membership succeeding the date on which he ceases to be a student in residence. **The status of a Junior Member shall be changed to that of Member on the first anniversary of his membership after he becomes 28 years of age.**

ARTICLE IV—DUES

Section 1. Dues for the several membership grades shall be payable annually in advance from the first of the month a notification of the member applicant of his election by the Board of Direction, as follows: Contributing Members, \$50.00; members, individuals, \$10.00; firms, corporations, societies or other organizations, \$20.00; **Junior Members, \$6.00; Student Members, \$3.00;** Honorary Members, none. Any individual member may be admitted to life membership upon payment of a sum determined by the Executive Committee based on 90 per cent of the membership dues as established at the time of application, credited with 3 per cent interest compounded annually for the applicant's life expectancy as arrived at from the American Experience Table of Mortality.

Section 2. A member of any grade shall be entitled to receive one copy of the JOURNAL of the AMERICAN CONCRETE INSTITUTE as issued in the period of his membership and additional or other publications as determined by the Board of Direction.

The purposes of these proposed revisions are two: (1) to reduce the dues of Student Members from \$4.00 to \$3.00; (2) to create a new membership grade of Junior Member with annual dues of \$6.00 for acceptable applicants who have not attained the age of 28 years.

2 p.m., THURSDAY

PRESIDING—PRESIDENT BEN MOREELL

REPORT OF TELLERS AND PRESENTATION OF NEW OFFICERS

ADDRESS OF THE RETIRING PRESIDENT

REAR ADMIRAL BEN MOREELL

CEC, Chief, Bureau of Yards and Docks, U. S. Navy

PROPOSED REVISION OF BY-LAWS

See opposite from News Letter, ACI JOURNAL, November, 1941.

"QUIZ SESSION"

PRESIDING—DIRECTOR-AT-LARGE ROY W. CRUM

The second annual Concrete Quiz Session is designed this year to provide more general discussion from the floor, the rules on general participation having been eased since last year. Answers will not be from a formal panel of experts. Mr. Crum will combine the responsibilities of master-of-ceremonies, referee and time keeper. He will pick the questions from a long list, he will name the men to answer them; he will admit objections and discussion as time and the situation suggests.

AT 7 P.M. THIS EVENING THE 38th ANNUAL DINNER

9:30 a.m. FRIDAY

PRESIDING—PAST-PRESIDENT FRANK E. RICHART

PROPOSED RECOMMENDED PRACTICE FOR THE DESIGN OF CONCRETE MIXES

Report of ACI Committee 613, R. F. Blanks, Chairman, E. N. VIDAL, Secretary

See: ACI JOURNAL, January 1942, for the report as approved by all but one of the committee's 15 members. It is before the Institute for discussion only with a view to possible revision and probable presentation for adoption as a Standard next year.

PROPOSED RECOMMENDED PRACTICE FOR THE USE OF METAL SUPPORTS FOR REINFORCEMENT

ACI Committee 319, WILLIAM F. ZABRISKI, Chairman

See: ACI JOURNAL, November, 1941
The report will be presented for adoption as an Institute Standard.

SAVING STEEL IN REINFORCED CONCRETE DESIGN

R. L. BERTIN

Chief Engineer, White Construction Co., New York.

See: ACI JOURNAL, February, 1942. The paper proposes that the ACI Building Regulations for Reinforced Concrete (ACI 318-41) be "liberalized" as a national emergency measure. Just "how" the code might be "eased" (if at all) for steel conservation is a question full of discussion possibilities.

Discussion (received before this program went to press):

Charles S. Whitney
Dean Peabody, Jr.
and others

MEMORANDA

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MEMORANDA

2 p.m. FRIDAY

PRESIDING—DIRECTOR-AT-LARGE DOUGLAS E. PARSONS

GOOD PRACTICE IN CONCRETE MASONRY WALL CONSTRUCTION

KENNETH C. TIPPY

Cement Products Bureau, Portland Cement Association, Chicago

See: ACI JOURNAL, February, 1942, as a basis for discussion.

ARCHITECTURAL CONCRETE ON THE NEW NAVAL MEDICAL CENTER

HUGO C. FISCHER

Captain, CEC, U. S. Navy; Assistant Director of Construction, Bureau of Yards and Docks, Washington, D. C.

See: ACI JOURNAL, February, 1942. Captain Fischer will confine his convention presentation to explaining the construction details from lantern slides.

PROPOSED SPECIFICATION FOR CAST STONE

Report of ACI Committee 704, C. G. WALKER, Chairman

See: ACI JOURNAL, February, 1942 as a basis for discussion of proposed specification changes.

PAINTING CONCRETE SURFACES

R. E. COPELAND, Chairman, ACI Committee 616

The Committee is in process of balloting on a draft of a recommended practice for the application of paint to concrete surfaces. Mr. Copeland will present a preview of the subject matter for discussion.

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Information as to Institute membership and publications on
request at Convention Registration Desk or of the Secretary

AMERICAN CONCRETE INSTITUTE

408 NEW CENTER BUILDING

DETROIT, MICHIGAN