

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

45th Annual Convention



New York, N. Y.

Hotel Statler

February 23, 24, 25, 1949

Program Time Table

Tuesday, February 22—Meetings of ACI Technical Activities Committee and of the Board of Direction. No general sessions.

Wednesday, February 23 — 9:00 a.m. Registration begins. ACI Technical Committee Meetings (see p. 8). Check bulletin board for additions and changes. Members and others not engaged in technical committee meetings have the opportunity to meet and to discuss mutual interests with old friends and acquaintances. Display your badge prominently—introduce yourself!

12:00 noon—Reception by officers and luncheon for scheduled program participants (by prior invitation).

2 p.m.—First general convention session (see p. 4).

Thursday, February 24—9:00 a.m.—Second session (see p. 5).

12:00 noon—Convention Luncheon in Georgian Room (see p. 6), (by tickets previously purchased).

2:30 p.m.—Third session—Election of officers, President's Address (see p. 10).

Friday, February 25—9:00 a.m.—Fourth session—Research (see p. 12).

2:00 p.m.—Fifth and closing session (see p. 14).

BOARD OF DIRECTION

President—ROBERT F. BLANKS

Vice-Presidents

HERBERT J. GILKEY and FRANK H. JACKSON

Secretary-Treasurer—HARVEY WHIPPLE†

Directors

H. P. BIGLER, A. J. BOASE*, R. E. COPELAND, A. T. GOLDBECK, HENRY L. KENNEDY, WILLIAM H. KLEIN, PAUL W. NORTON, CHARLES H. SCHOLER, MYRON A. SWAYZE, HARRY F. THOMSON, GEORGE W. WASHA, RODERICK B. YOUNG

Past Presidents

DOUGLAS E. PARSONS, HARRISON F. GONNERMAN, STANTON WALKER

*Deceased

TECHNICAL ACTIVITIES COMMITTEE

(In charge of convention program and of technical publications)

DOUGLAS E. PARSONS, Chairman

President ROBERT F. BLANKS (Ex-Officio)

R. E. COPELAND, FRANK H. JACKSON, FRANK KEREKES, DOUGLAS McHENRY, NATHAN M. NEWMARK, RODERICK B. YOUNG, HARVEY WHIPPLE, Secretary

NEW YORK CONVENTION COMMITTEE

(In charge of local arrangements)

M. J. McMILLAN, Chairman

E. K. ABBERLEY, WALDO G. BOWMAN, J. H. CHUBB, A. BURTON COHEN, ROGER CORBETTA, JOSEPH DI STASIO, HOMER G. FARMER, ELLIOT A. HALLER, FRANK L. KELLY, EMIL PRAEGER, M. A. SWAYZE, B. H. WAIT, C. A. WILLSON

†Address

AMERICAN CONCRETE INSTITUTE
New Center Building, Detroit 2, Michigan

CONVENTION REGISTRATION

(All registered non-member visitors are welcome at general sessions—no registration fee)

9:00 a.m. - 5:00 p.m., DAILY

WEDNESDAY, THURSDAY and FRIDAY

FEBRUARY 23, 24 and 25, 1949

in charge of

ETHEL B. WILSON, Assistant Treasurer

See Bulletin Board for special notices.

Buy your tickets for the Thursday noon LUNCHEON by 5 p.m. Wednesday. Seats are limited to 450.

12:00 noon sharp, Wednesday—Luncheon for all scheduled program participants in the general convention sessions. (by invitation)

TECHNICAL COMMITTEE MEETINGS

(see program pages 8 and 9 and bulletin board at registration desk)

INSPECTION AND SIGHTSEEING TRIPS

United Nations Tour

A specially conducted tour has been arranged for the ladies (and others not attending the Thursday luncheon) on Thursday, February 24. The buses are scheduled to leave the Hotel Statler at 11:00 a.m., returning at 5:00 p.m.—under supervision of a travel consultant accompanying the group to "tell the story" of United Nations "back stage mechanics"—how it operates. The tour price is \$2.50. Lunch at United Nations cafeteria at visitor's own expense.

Make reservations at registration desk by Wednesday noon, February 23.

Construction Projects

For those who can spend extra days in New York, there will be opportunities to visit interesting construction projects in the metropolitan area. Check at the registration desk regarding arrangements.

FIRST CONVENTION SESSION

2:00 p.m., WEDNESDAY, FEBRUARY 23

President ROBERT F. BLANKS, Presiding

Opening remarks

Appointment of tellers to canvass annual election ballots

TECHNICAL PROGRAM

PROBLEMS IN CONCRETE PAVEMENT SURFACE DURABILITY

Vice President FRANK H. JACKSON, Chairman

"Control of Scaling of Portland Cement Concrete Pavements
Resulting from the Use of Chloride Salts"

B. D. TALLAMY
Supt., State Dept. of Public Works, Albany, N. Y.

"Experience with Air-Entraining Concrete in New Jersey"

CHARLES M. NOBLE,
State Highway Engineer, Trenton, N. J.

"What Have We Learned About Air-Entraining Concrete?"

J. F. BARBEE
Engineer, Ohio Dept. of Highways, Columbus

"Practices, Experiences and Tests with Air-Entraining Agents
in Making Durable Concrete"

ROBERT F. BLANKS and W. A. CORDON
Chief, Engineering and Geological Control and Research Div., and
Engineer, Research Laboratories, respectively, U. S. Bureau of Re-
clamation, Denver, Colo.

See Feb. 1949 JOURNAL, p. 469

9:00 a.m. THURSDAY, FEBRUARY 24

STRUCTURAL DESIGN

Vice President HERBERT J. GILKEY, Chairman

"Rational Analysis and Design of Two-Way Concrete Slabs"

CHESTER P. SIESS and NATHAN M. NEWMARK
Special Research Assistant Professor of Theoretical and Applied
Mechanics, and Research Professor of Civil Engineering, respectively,
University of Illinois, Urbana

See Dec. 1948 JOURNAL, p. 273

"Reinforced Concrete Wall and Column Footings"

FRANK E. RICHART
Research Professor of Engineering Materials, University of Illinois, Urbana
See Oct. & Nov. 1948 JOURNALS, pp. 97 and 237, respectively

"Experimental Aids in Structural Concrete Design"

ROBERT E. GLOVER, O. J. OLSEN and CARL ZANGAR
Senior Engineer, Engineer, structural research section, and Head,
photoelastic laboratory, respectively, U. S. Bureau of Reclamation,
Denver, Colo.

See Feb. 1949 JOURNAL, p. 445

NOTES FOR PROGRAM PARTICIPANTS

● Participants in the program should not fail to leave with the chairman of a session or with the stenotype reporter, manuscripts from which papers or discussions are presented. The ACI Secretary will later provide opportunity for manuscript and proof revision before JOURNAL publication.

● The items on the program 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.

● Upon recognition by the Chairman a discussor will please state his name distinctly and go forward to the microphone so he may be heard by all. If presented from manuscript it should be left with the stenotype reporter.

● Convention papers, reports and discussions are available for distribution only upon publication in the ACI JOURNAL. They are then available also in separate prints at 35c each, and up.

● A "Convention Review" will be published in the News Letter section of the April ACI JOURNAL.

12 O'CLOCK NOON, THURSDAY, FEBRUARY 24

Georgian Room

GET-TOGETHER LUNCHEON for ACI Members and friends who buy their tickets before 5 o'clock Wednesday afternoon (\$3.75 including service).

At the luncheon PRESIDENT BLANKS will present the annual awards as follows:

LEONARD C. WASON Medal for the "Most Meritorious Paper" of ACI Proceedings Vol. 44 (June 1948 JOURNAL) to

FRANK H. JACKSON and HAROLD ALLEN
for their paper

"Concrete Pavements on the German Autobahnen"

LEONARD C. WASON Medal for "Noteworthy Research" to

RICHARD C. MIELENZ, KENNETH T. GREENE
and ELTON J. BENTON

for the work reported in their paper (Proceedings Vol. 44, November 1947 JOURNAL)

"Chemical Test for Reactivity of Aggregates with Cement Alkalies; Chemical Processes in Cement-Aggregate Reaction"

American Concrete Institute Construction Practice Award for a "paper of outstanding merit" on concrete construction practice to

RAYMOND E. DAVIS, E. CLINTON JANSEN
and W. T. NEELANDS

for their paper in the ACI JOURNAL (April 1948), entitled

"Restoration of Barker Dam"

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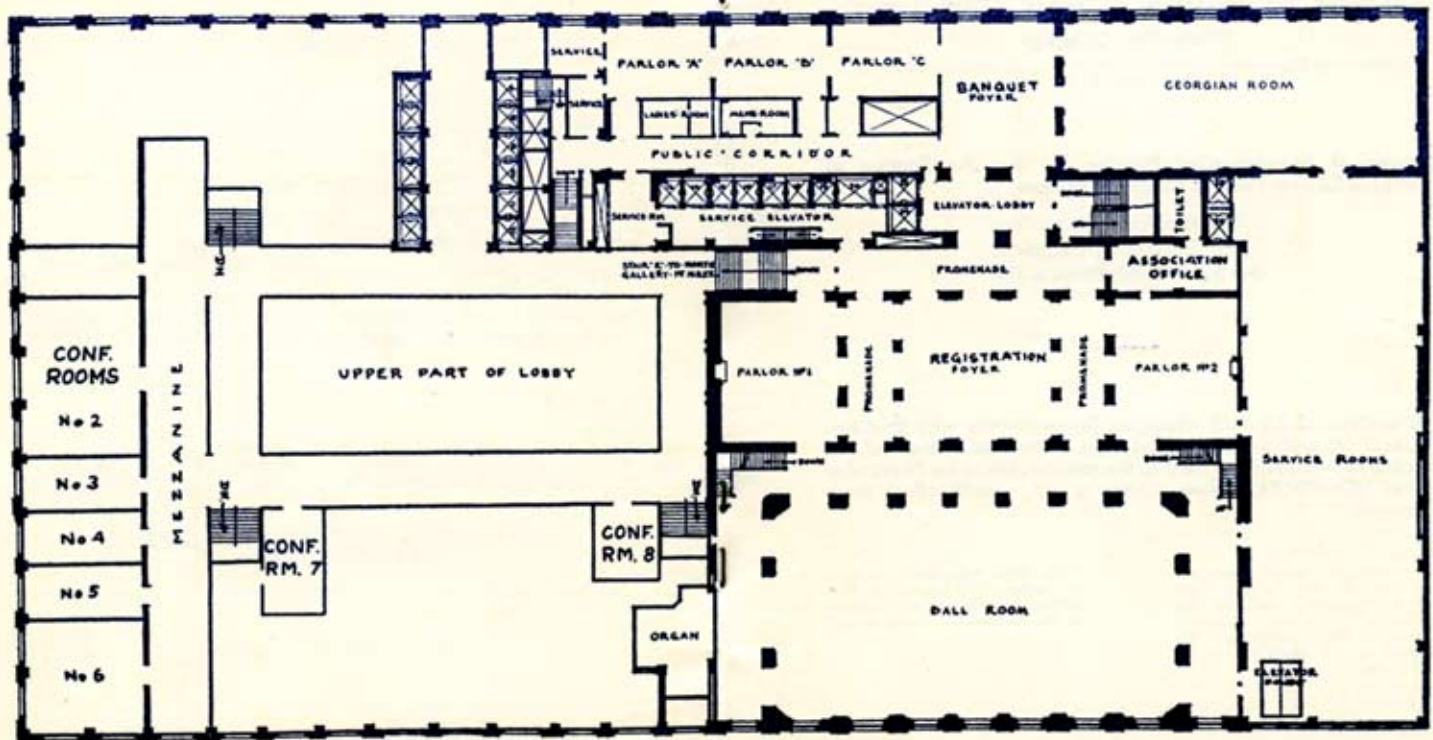
ACI CONVENTION AREA

Hotel Statler—New York

COMMITTEE MEETINGS—Wednesday and Thursday

(Consult bulletin board at registration desk for locations and later time changes)

Committee	Chairman	Hour	Day
115 Research (Executive Group)	S. J. Chamberlin	4:30 p.m.	Wednesday
208 Bond Stress	H. J. Gilkey	10:30 a.m.	Wednesday
210 Resistance to Erosion in Hydraulic Structures	W. H. Price	8:00 p.m.	Thursday
213 Properties of Lightweight Aggregate Concrete	G. W. Washa	4:30 p.m.	Thursday
314 Rigid Frame Bridges	D. H. Pletta	8:00 p.m.	Thursday
315 Detailing Reinforced Concrete Structures	R. C. Reese	7:30 p.m.	Thursday
318 Standard Building Code	C. L. Post, pro tem	7:30 p.m.	Wednesday
321 Design of Reinforced Concrete Slabs	N. M. Newmark	2:00 p.m.	Wednesday
323 Prestressed Reinforced Concrete	A. E. Cummings	10:00 a.m.	Wednesday
324 Precast Reinforced Concrete Structures	A. Amirikian	8:00 p.m.	Thursday
613 Recommended Practice for the Design of Concrete Mixes	W. H. Price	8:00 p.m.	Wednesday
621 Aggregate Selection, Preparation and Use	I. L. Tyler	10:30 a.m.	Wednesday
711 Precast Floor Systems for Houses	F. N. Menefee	10:30 a.m.	Wednesday



THIRTY-SECOND STREET

2:00 p.m. THURSDAY, FEBRUARY 24

President ROBERT F. BLANKS, Chairman

Report of tellers and recognition of new Officers and Directors

Action on a proposed amendment to the By-Laws (see News Letter, p. 18, November 1948 ACI JOURNAL and below)

Address of the Retiring President, ROBERT F. BLANKS,
Chief, Engineering and Geological Control and Research Division, U. S. Bureau of Reclamation, Denver, Colo.

"Controlling the Uniformity of Ready Mixed Concrete"

STANTON WALKER

Director of Engineering, National Ready Mixed Concrete Association,
Washington, D. C.

"Proposed Recommended Practice for the Application of Portland Cement Paint to Concrete Surfaces"

Report of Committee 616

G. E. BURNETT, Chairman
(See Jan. 1949 JOURNAL p. 353)

A petition of 15 ACI Members (in conformity with By-Laws Article VI and on recommendation of the ACI Board of Direction) of which notice went to the membership in the November 1948 JOURNAL—News Letter p. 18, would effect these changes:

change

First sentence, second paragraph of Sec. 13, Art. II, from "The Vice Presidents, each in the order of his Institute membership seniority shall discharge the duties of the President, in his absence."

to

"The Vice Presidents, each in the order of his seniority in that office, shall discharge the duties of the President, in his absence."

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9:00 a.m. FRIDAY, FEBRUARY 25

The Annual Open Session of ACI Committee 115,
Research

STEPHEN J. CHAMBERLIN, Chairman

GEORGE W. WASHA, Secretary

This convention feature, inaugurated in 1937, has been increasingly popular. It differs from general sessions in the absence of recorded transcript. Request is made that proceedings be regarded as CONFIDENTIAL. The projects to be reported upon are not far enough along for publication; none of them is past the active stage and some are in only the preliminary stage. Some may be published in the near future; some perhaps not for years. Attendance at the session is the only sure way of being in on these previews of the many future developments in concrete. Subjects, each one for brief discussion, are announced by committee 115 as follows:

Bond tests with air-entraining concrete.

Effect of restraint and durability characteristics on concrete aggregates.

Distribution of bond in embedded reinforcement.

Effect of rate of loading upon stress-strain curves of concrete beyond the ultimate strength.

Investigation of prestressed spirally reinforced columns.

Protective and decorative coatings for concrete masonry structures.

Use of electric strain gages inside concrete members.

The effect of internal temperature variation, shrinkage and plastic flow in causing modification of stress distribution near the computed position of contraflexure in the interior spans of continuous reinforced concrete slab bridges.

Influence of aggregates on durability of mass concrete.

A method for determining the air content of hardened concrete.

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2:00 p.m. FRIDAY, FEBRUARY 25

For Your Convention Notes

Vice President HERBERT J. GILKEY, Chairman

"Design Details for Architectural Concrete"

JOHN J. HOGAN
Regional Structural Engineer, Portland
Cement Association, New York, N. Y.

"Construction Practices for Architectural Concrete"

E. B. OBERLY
Construction Supt., Portland Cement
Association, New York, N. Y.

"Lightweight Aggregate Concrete"

RALPH W. KLUGE, M. M. SPARKS and E. C. TUMA
Associate Professor Structural Engineering, Purdue University, Lafayette, Ind.
(formerly with the National Bureau of Standards), and Engineers, National
Bureau of Standards, Washington, D. C., respectively.

**"Developments in the Manufacture and Technology of Concrete
Masonry Units"**

JAY C. EHLE
Production Manager, Cleveland Builders Supply Co.,
Cleveland, Ohio

Name	Hotel	Room No.

Information about ACI Membership and publications can be had at Convention Registration Desk or from ACI Headquarters, address: American Concrete Institute, New Center Building, Detroit 2, Michigan.

The AMERICAN CONCRETE INSTITUTE

is a non-profit, non-partisan organization of engineers, scientists, builders, manufacturers and representatives of industries associated in their technical interest with the field of concrete, dedicated to the public service. Its primary objective is to assist its members and the engineering profession generally, by gathering and disseminating information about the properties and applications of concrete and reinforced concrete and their constituent materials.

Since 1905 that primary objective has been achieved by the combined membership effort. Individually and through committees, and with the cooperation of many public and private agencies, members have correlated the results of research, from both field and laboratory, and of practices in design, construction and manufacture.

The work of the Institute has become available to the engineering profession in annual volumes of ACI Proceedings since 1905. Beginning 1929 the Proceedings have first appeared periodically in the Journal of the American Concrete Institute and in many separate publications.

AMERICAN CONCRETE INSTITUTE

New Center Building

Detroit 2, Michigan