

52nd
Annual Convention



**BELLEVUE-STRATFORD
HOTEL**

Philadelphia, Pennsylvania

FEBRUARY 20-23, 1956

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AMERICAN CONCRETE INSTITUTE
18263 W. McNichols Road, Detroit 19, Michigan

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52nd Annual Convention

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ACI
CONVENTION HEADQUARTERS
IRWIN ROOM
18th Floor

CONVENTION REGISTRATION

MONDAY, 9:00 a.m.-5:00 p.m.—First Floor Foyer

TUESDAY, 9:00 a.m.-5:00 p.m.—18th Floor Foyer

WEDNESDAY, 9:00 a.m.-5:00 p.m.—First Floor Foyer

THURSDAY, 9:00 a.m.-2:00 p.m.—18th Floor Foyer

Registration Fee—\$2.00

(All ladies and registered nonmember visitors are welcome at technical sessions, Awards Luncheon, and Dinner.)

Buy your tickets for the Wednesday noon AWARDS LUNCHEON at time of registration.

Tickets for Wednesday evening Cocktails, Dinner, and Dance—\$6.00.

See Bulletin Board for Special Notices.

TECHNICAL COMMITTEE MEETINGS

See page 6 and bulletin board at registration desk for time and location.

NOTES FOR PROGRAM PARTICIPANTS

8 a.m. sharp, Tuesday—Breakfast for all scheduled program participants in the general convention sessions. (By invitation.) Junior Room.

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

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

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

PROGRAM TIME TABLE

Saturday, February 18, and Sunday, February 19

Meetings of Executive Committee, Technical Activities Committee, and Board of Direction.

Monday, February 20

9:00 a.m.—Registration Begins—First Floor Foyer

9:00 a.m.—Technical Committee Meetings (see page 6)

9:45-10:00 a.m.—COFFEE

2:00 p.m.—Technical Committee Meetings (see page 6)

3:45-4:00 p.m.—COFFEE

Tuesday, February 21

8:00 a.m.—Breakfast, Program Participants, Junior Room

9:00 a.m.—Registration Continues—18th Floor Foyer

10:00 a.m.—First General Session—Rose Garden

2:00 p.m.—Building Code Revisions—Rose Garden

3:30-3:45 p.m.—COFFEE

8:00 p.m.—Motion Pictures—Burgundy Room

Wednesday, February 22

9:00 a.m.—Registration Continues—First Floor Foyer

9:00 a.m.—Shrinkage Session—Clover Room

Prestressing Session—Burgundy Room

10:30-10:45 a.m.—COFFEE

12:15 p.m.—Awards Luncheon—Rose Garden

2:30 p.m.—Design Session—Clover Room

Construction Session—Burgundy Room

3:45-4:00 p.m.—COFFEE

6:00 p.m.—Cocktails—Clover and Red Rooms

7:00 p.m.—Banquet and Dance—Ballroom

Thursday, February 23

9:00 a.m.—Registration Continues—18th Floor Foyer

9:00 a.m.—Research Session—Rose Garden

2:00 p.m.—Panel Discussion—Rose Garden

MONDAY, FEBRUARY 20

8:00-9:00 a.m.—Coffee

9:00 a.m.—Registration—First Floor Foyer

TECHNICAL COMMITTEE MEETINGS

Committee Number	Subject and Time	Meeting Place
	9:00 a.m.	
207	Mass Concrete	Room 104
209	Volume Changes and Plastic Flow	Blue Room
215	Fatigue of Concrete	Room 105
324	Precast Reinforced Concrete Structures	Junior Room
609	Compaction by Mechanical Means	Room 106
711	Precast Floor Systems	Green Room
	10:00 a.m.	
613	Proportioning Concrete Mixes Subcomm. No. 1—Lightweight Aggregate Concrete	Pink Room
	Subcomm. No. 2—No-Slump Concrete	Room 107
	11:00 a.m.	
210	Resistance to Erosion	Room 108
	1:00 p.m.	
323	Prestressed Reinforced Concrete	Junior Room
	2:00 p.m.	
Task Advisory Group	on Bibliographies	Room 104
214	Compression Test Results	Blue Room
326	Shear and Diagonal Tension	Room 105
332	Residential Concrete Work	Pink Room
613	Proportioning Concrete Mixes	Room 107
622	Formwork for Concrete	Green Room
716	High-Pressure Steam Curing	Red Room
	7:00 p.m.	
213	Lightweight Aggregate Concrete	Room 107
	8:00 p.m.	
318	Bldg. Code (Executive Session)	Junior Room

Committee 605, Hot Weather Concreting, will meet at 9:00 a.m., Thursday, February 23, in the Green Room.

TUESDAY, FEBRUARY 21

8:00-9:00 a.m.—Coffee

9:00 a.m.—Registration—18th Floor Foyer

FIRST GENERAL SESSION

10:00 a.m. **Rose Garden**

PRESIDENT CHARLES S. WHITNEY, *Presiding*

Opening Remarks

Appointment of tellers to canvass annual election ballots

Proposed Standards and Committee Reports

Proposed Recommended Practice for Winter Concreting

Report of Committee 604
LEWIS H. TUTHILL, *Chairman*

Erosion Resistance of Concrete in Hydraulic Structures

Report of Committee 210
WALTER H. PRICE, *Chairman*

Evaluation of Compression Test Results of Field Concrete

Report of Committee 214
WILLIAM A. CORDON, *Chairman*

BUILDING CODE REVISIONS

2:00 p.m. **Rose Garden**

PRESIDENT CHARLES S. WHITNEY, *Chairman*

Panel discussion moderated by Vice-President Frank Kerekes, chairman, ACI Committee 318, Standard Building Code. Panel, made up of sub-committee chairmen and chairmen of technical committees sponsoring code changes, will discuss proposed building code revisions and answer questions from the floor as time permits prior to the submission of the new code to convention vote.

MOTION PICTURES

8:00 p.m. **Burgundy Room**

"Casting and Placing a Precast Concrete Bridge"
"Making of Siporex" "Building with Siporex"
"Bridge Ahead"

WEDNESDAY, FEBRUARY 22

8:00-9:00 a.m.—Coffee

9:00 a.m.—Concurrent Sessions

Concurrent sessions, morning and afternoon in
Clover Room and Burgundy Room

Burgundy Room

PRESTRESSED CONCRETE

THOR GERMUNDSSON, *Chairman*

Fatigue and Static Tests of Steel Strand Prestressed Concrete Beams of Expanded Shale and Conventional Concrete

GENE M. NORDBY AND WILLIAM VENUTI

Purdue University, Lafayette, Ind., and San Jose State College,
San Jose, Calif., respectively

Ultimate Flexural Strength of Prestressed and Conventionally Reinforced Concrete Beams

JACK R. JANNEY, EIVIND HOGNESTAD,
AND DOUGLAS MCHENRY

Portland Cement Association, Chicago, Ill.

Prestressed Concrete Bridge Over the Niagara River

A. M. LOUNT JR.

T. O. Lazarides, Lount and Partners, Toronto, Ont., Canada

Auditorium with Framed Prestressed Roof Girders

ERIC C. MOLKE

Prestressing Research and Development, Inc., San Antonio, Texas

WEDNESDAY, FEBRUARY 22

8:00-9:00 a.m.—Coffee

9:00 a.m.—Concurrent Sessions

Concurrent sessions, morning and afternoon in
Clover Room and Burgundy Room

Clover Room

SHRINKAGE OF CONCRETE

J. M. RAPHAEL, *Chairman*

Shrinkage in Concrete Floors

ROBERT R. SHERIDAN AND MORGAN B. KLOCK

Eastman Kodak Co., Rochester, N. Y.

Creep Strain of Concrete

F. E. SEAMAN

Lock Joint Pipe Co., Wharton, N. J.

Shrinkage and Thermal Stresses in Concrete Masonry Construction

R. E. COPELAND

National Concrete Masonry Association, Chicago, Ill.

Effect of Carbon Dioxide on Volume Stability

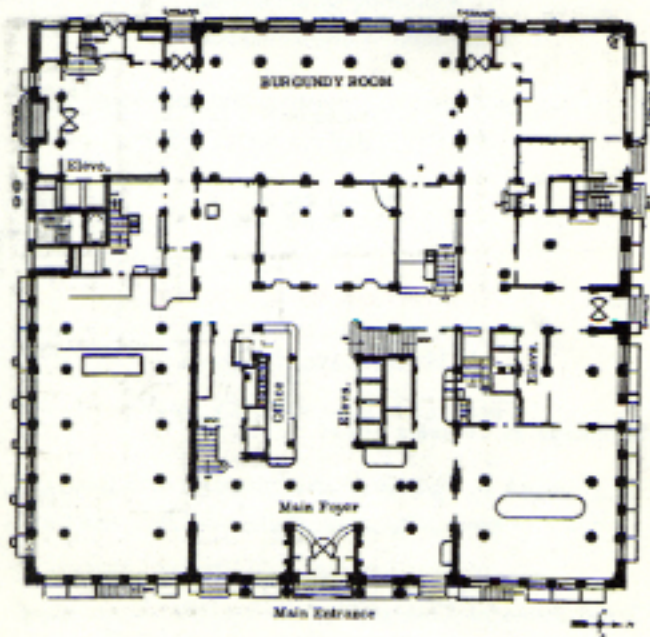
JOSEPH J. SHIDELER

Portland Cement Association, Chicago, Ill.

Plastic Shrinkage

WILLIAM LERCH

Portland Cement Association, Chicago, Ill.

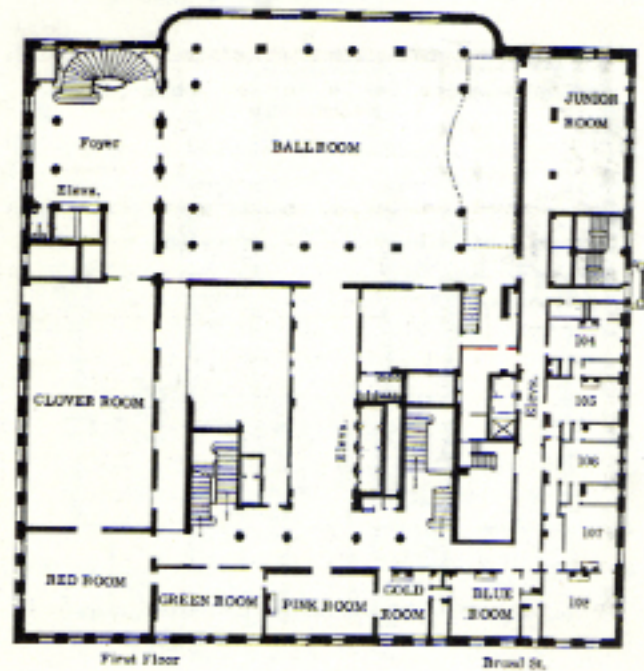


MAIN FLOOR

ACI CONVENTION AREA

**BELLEVUE-STRATFORD
HOTEL**

Philadelphia, Pennsylvania

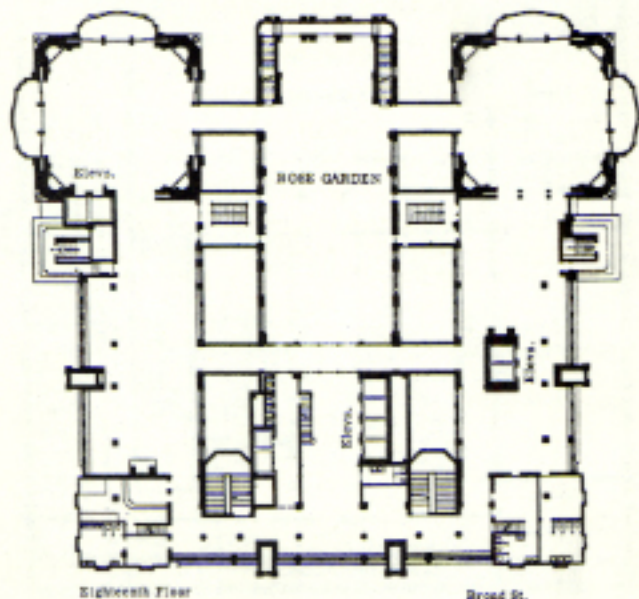


FIRST FLOOR

ACI CONVENTION AREA

**BELLEVUE-STRATFORD
HOTEL**

Philadelphia, Pennsylvania



EIGHTEENTH FLOOR

ACI CONVENTION AREA

**BELLEVUE-STRATFORD
HOTEL**

Philadelphia, Pennsylvania

12:15 p. m., **WEDNESDAY, FEBRUARY 22**

AWARDS LUNCHEON

Rose Garden

Presentation of Awards

by President Whitney on behalf of the Board of Direction
HENRY C. TURNER MEDAL to

FRANKLIN R. McMILLAN

*"for forty years of outstanding leadership in
discovering and disseminating knowledge of
the basic principles of concrete and concrete
construction"*

ALFRED E. LINDAU AWARD to

JOHN I. PARCEL

*"for inspired authorship and teaching of struc-
tural principles applicable to reinforced concrete
design"*

**LEONARD C. WASON MEDAL for "The Most Meritorious
Paper" of ACI Proceedings V. 51 (March, 1955, ACI
Journal)**

**CHARLES S. WHITNEY, BOYD G. ANDERSON,
AND EDWARD COHEN**

for their paper
**"Design of Blast Resistant Construction for
Atomic Explosions"**

LEONARD C. WASON MEDAL for "Noteworthy Research" to

**KEITH G. MOODY, IVAN M. VIEST,
RICHARD C. ELSTNER, AND EIVIND HOGNESTAD**

for the work reported in their paper (*Proceedings V. 51,
December, 1954, January, February, and March, 1955
ACI Journals*)

"Shear Strength of Reinforced Concrete Beams"

**Announcement of Election to Honorary Membership:
MORTON O. WITHEY**

Presentation of Plaque to Retiring President

Report of Tellers and Introduction of New Officers

Recognition of Retiring Directors and Officers

Retiring President's Address

CHARLES S. WHITNEY
Ammann and Whitney, New York, N. Y.

2:30 p. m., WEDNESDAY, FEBRUARY 22

Concurrent sessions, morning and afternoon in
Clover Room and Burgundy Room

Burgundy Room

CONSTRUCTION

VICE-PRESIDENT WALTER H. PRICE, *Chairman*

Large Dome Over Sports Stadium, Havana, Cuba

J. J. CLOSNER

The Preload Co., New York, N. Y.

Mackinac Bridge Pier Construction

RAYMOND E. DAVIS JR. AND C. E. HALTENHOFF

The Prepakt Concrete Co., Cleveland, Ohio, and
Merritt-Chapman & Scott, New York, N. Y., respectively

Lift-Slab Construction of Multistory Building

JAMES M. MINGES

Marchant and Minges, Hartford, Conn.

Lining the Tecolote Tunnel

E. R. CROCKER

U. S. Bureau of Reclamation, Goleta, Calif.

2:30 p. m., WEDNESDAY, FEBRUARY 22

Concurrent sessions, morning and afternoon in
Clover Room and Burgundy Room

Clover Room

DESIGN

DOUGLAS McHENRY, *Chairman*

Analysis and Testing of Translational Shells

MARIO G. SALVADORI

Columbia University, New York, N. Y.

Tensile Crack Exposure Tests of Stressed Reinforced
Concrete Beams

THOMAS B. KENNEDY

Waterways Experiment Station, Jackson, Miss.

Analysis of Rigid Frame Failures

BOYD G. ANDERSON

Ammann and Whitney, New York, N. Y.

Practical Applications of Ultimate Load Design

ALFRED L. PARME

Portland Cement Association, Chicago, Ill.

THURSDAY, FEBRUARY 23

8:00-9:00 a.m.—Coffee

ANNUAL OPEN SESSION OF ACI COMMITTEE 115, RESEARCH

9:00 a.m. Rose Garden

STEPHEN J. CHAMBERLIN, *Chairman*
GEORGE W. WASHA, *Secretary*

This convention feature differs from general sessions in that the information is not released for publication. Request is made that proceedings be regarded as CONFIDENTIAL. A group of short papers will be presented on research techniques and preliminary results of investigations now in progress. Tentative topics are:

- Strength of concrete under combined stresses.
- Creep and creep recovery of plain concrete subjected to high compressive stresses.
- Field study of the effects of plastic flow and shrinkage in stress in reinforcement of prestressed concrete.
- The fundamental problem of determining the rates of diffusion of water and water containing soluble alkalies in portland cement and concrete. Test results including long-time data on concrete containing set-retarding admixtures. Carbonation of concrete masonry units. Effect of stopping bars upon bond and bending strength of a beam.
- Cracking resistance of hydraulic cements. Hydrophobic cement.

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

PANEL DISCUSSION

"Current Concrete Problems"

A. ALLEN BATES, *Chairman*

A give and take discussion by a panel of experts with the participation of the audience.

LADIES PROGRAM

Monday, February 20

9:00 a.m.-4:00 p.m.—Registration, First Floor Foyer

8:30 p.m.—Philadelphia Orchestra—Tickets by prior reservation available at Registration Desk.

Tuesday, February 21

9:00 a.m.-4:00 p.m.—Registration, 18th Floor

9:30 a.m.-10:30 a.m.—Coffee Hour, Red Room

10:30 a.m.-12:30 p.m.—Seeing Historic Philadelphia — Bus trip to Independence Hall, Betsy Ross House, Christ Church

1:00 p.m.-4:00 p.m.—Franklin Institute—Luncheon and visits to Nickelodeon and Planetarium

8:30 p.m.—Tickets available for theater and Cinerama at Registration Desk

Wednesday, February 22

9:00 a.m.-4:00 p.m.—Registration, First Floor Foyer

9:30 a.m.-11:00 a.m.—Coffee Hour, Red Room

11:00 a.m.-12:00 noon—Bus Tour of Fairmont Park

12:00 noon-2:00 p.m.—Luncheon and Visit to Strawberry Mansion in Fairmont Park

2:00 p.m.-6:00 p.m.—Free time for shopping in Philadelphia Stores

6:00 p.m.—Cocktails, Clover and Red Rooms

7:00 p.m.—Banquet and Dance, Ballroom

Thursday, February 23

8:15 a.m.—Bus Trip to Winterthur Museum (36 miles)

9:00 a.m.-4:00 p.m.—Registration, 18th Floor

9:30 a.m.-12:00 noon—Visit Period Rooms in Henry Francis DuPont Winterthur Museum

12:00 noon-1:00 p.m.—Visit Longwood Gardens

1:00 p.m.-2:30 p.m.—Return to Philadelphia, box lunch enroute

**NOTE: Please register for all activities
as soon as possible,
Monday, February 20**

PHILADELPHIA
HOSTESS COMMITTEE

ACI Convention, 1956

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MRS. JACOB J. CRESKOFF, *Acting Chairman*
MRS. JOSEPH R. FARRELL, *Co-Chairman*
MRS. A. I. MARTINDALE, *Co-Chairman*
MRS. FRED F. VAN ATTA, *Co-Chairman*
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The AMERICAN CONCRETE INSTITUTE

is a nonprofit, nonpartisan organization of engineers, architects, 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.

It is self-supported by membership dues and the sale of its publications. Since 1905 its 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.

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