52nd Annual Convention

Bellevue-Stratford Hotel
Philadelphia, Pennsylvania

February 20-23, 1956
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*Address
AMERICAN CONCRETE INSTITUTE
18263 W. McNichols Road, Detroit 19, Michigan

PROGRAM INDEX

52nd Annual Convention

Subject .................................. Page
Registration ................................ 4
Convention Time Table .................... 5
Floor Plans of Convention Area .......... 10, 11, 12
Technical Committee Meetings .......... 6
Ladies Program .......................... 17
Awards Luncheon ......................... 13

GENERAL SESSIONS

Proposed Standards & Committee Reports .... 7
Building Code Revisions .................. 7
Prestressed Concrete ..................... 8
Shrinkage of Concrete .................. 9
Construction ............................ 14
Design .................................. 15
Research ................................. 16
Panel Discussion ........................ 16

ACI Officers ............................ 2
Philadelphia Convention Committee ..... 19

Notes to Program Participants .......... 4

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 discussers 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 Newsletter 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

<table>
<thead>
<tr>
<th>Committee Number</th>
<th>Subject and Time</th>
<th>Meeting Place</th>
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<tbody>
<tr>
<td>207</td>
<td>Mass Concrete</td>
<td>Room 104</td>
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<tr>
<td>209</td>
<td>Volume Changes and Plastic Flow</td>
<td>Blue Room</td>
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<tr>
<td>215</td>
<td>Fatigue of Concrete</td>
<td>Room 105</td>
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<tr>
<td>324</td>
<td>Precast Reinforced Concrete Structures</td>
<td>Junior Room</td>
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<tr>
<td>609</td>
<td>Compaction by Mechanical Means</td>
<td>Room 106</td>
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<tr>
<td>711</td>
<td>Precast Floor Systems</td>
<td>Green Room</td>
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10:00 a.m.

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<tr>
<th>Committee Number</th>
<th>Subject and Time</th>
<th>Meeting Place</th>
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<tbody>
<tr>
<td>613</td>
<td>Proportioning Concrete Mixes</td>
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<td></td>
<td>Subcomm. No. 1—Lightweight Aggregate Concrete</td>
<td>Pink Room</td>
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<td>210</td>
<td>Resistance to Erosion</td>
<td>Room 108</td>
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1:00 p.m.

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<tr>
<th>Committee Number</th>
<th>Subject and Time</th>
<th>Meeting Place</th>
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<tbody>
<tr>
<td>323</td>
<td>Prestressed Reinforced Concrete</td>
<td>Junior Room</td>
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</tbody>
</table>

2:00 p.m.

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<thead>
<tr>
<th>Task Advisory Group on Bibliographies</th>
<th>Room 104</th>
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<tbody>
<tr>
<td>214 Compression Test Results</td>
<td>Blue Room</td>
</tr>
<tr>
<td>326 Shear and Diagonal Tension</td>
<td>Room 105</td>
</tr>
<tr>
<td>332 Residential Concrete Work</td>
<td>Pink Room</td>
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<tr>
<td>613 Proportioning Concrete Mixes</td>
<td>Room 107</td>
</tr>
<tr>
<td>622 Formwork for Concrete</td>
<td>Green Room</td>
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<tr>
<td>716 High-Pressure Steam Curing</td>
<td>Red Room</td>
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</tbody>
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7:00 p.m.

| 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 GERMUNDSOSSON, Chairman

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

GEOE 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 HOGNEDSTAD, 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

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
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. ELSHTIEN, AND EIVIND HOGNESTAD
for the work reported in their paper (Proceedings V. 51,
ACI Journals)
"Shear Strength of Reinforced Concrete Beams"

Announcement of Election to Honorary Membership:
MORTON O. WITHEEY

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.
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.

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 rate of diffusion of water and water containing soluble alkalis 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

MRS. MAX BAROFSKY
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MRS. SAMUEL T. CARPENTER
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Philadelphia Convention Committee

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SAMUEL BAXTER
PROF. SAMUEL T. CARPENTER
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L. C. GILBERT
PAUL GLEASON
A. GRAVES
ROBERT HUDSON
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NELSON KRIEBEL
ARTHUR W. LOOKUP
J. C. MCCLOSKEY
PROF. SIDNEY SHORE
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PROF. E. F. STOVER
FRED F. VAN ATTA
CHARLES C. ZOLLMAN
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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