53rd ANNUAL CONVENTION

AMERICAN CONCRETE INSTITUTE

STATLER HILTON HOTEL
DALLAS, TEXAS
FEBRUARY 25-28, 1957
# PROGRAM INDEX

## 53rd Annual Convention

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**ACI Convention Headquarters**

**EL CORRALITO ROOM**

Ballroom Floor
CONVENTION REGISTRATION

9:00 a.m. to 5:00 p.m.—West Mezzanine
Monday, Tuesday, Wednesday and Thursday

REGISTRATION FEE—$3.00

(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, Banquet
and Dance—$7.50

See Bulletin Board for Special Notices

TECHNICAL COMMITTEE MEETINGS

See pages 6-7 and bulletin board at registration desk for time and location.

NOTES FOR PROGRAM PARTICIPANTS

8:00 a.m. sharp, Tuesday—Breakfast for all
scheduled program participants in the general
convention sessions. (By invitation) Mustang
Room.

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

- Upon recognition by the Chairman, a discusser 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 23 and Sunday, February 24

Meetings of Executive Committee, Technical Activi-
ties Committee, Board of Direction, and Building
Committee.

Monday, February 25

All day and evening—Technical Committee Meetings
—See bulletin board and pages 6-7 for meeting times
and room assignments.

Tuesday, February 26

8:00 a.m.—Program Breakfast (by invitation)—
Mustang Room

9:00 a.m.—Registration Opens—West Mezzanine

10:00 a.m.—First General Session—Grand Ballroom

2:00 p.m.—Prestressed Concrete Session—Grand Ball-
room

8:00 p.m.—Motion Pictures—Junior Ballroom

Wednesday, February 27

9:00 a.m.—Construction Session—Grand Ballroom

12:15 p.m.—Awards Luncheon—Junior Ballroom

2:30 p.m.—Design Session—Grand Ballroom

Materials Session—Junior Ballroom

5:00 p.m.—Meeting of new Board of Direction—El
Corrallito Room

6:00 p.m.—Cocktail Hour

7:30 p.m.—Banquet

Thursday, February 28

9:00 a.m.—Research Session—Grand Ballroom

2:00 p.m.—Lightweight Aggregate Concrete Session—
Grand Ballroom
### TECHNICAL COMMITTEE DAY

**9:00 a.m. to 12:00 noon**

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<td>Precast Floor Systems for Houses</td>
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### 8:00 p.m.

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TUESDAY, FEBRUARY 26

FIRST GENERAL SESSION

10:00 a.m.  Grand Ballroom

PRESIDENT FRANK KEREKES, Presiding

Opening Remarks

Welcome to Dallas and Texas
   R. L. (Bob) THORNTON
   Mayor, City of Dallas
   Board Chairman, Mercantile National Bank

Appointment of tellers to canvass annual election ballots

Proposed Standards

Evaluation of Test Results of Compressive Tests of Field Concrete
   Report of Committee 214
   WILLIAM A. CORDON, Chairman

Manual of Standard Practice for Detailing Reinforced Concrete Structures
   Report of Committee 315
   RAYMOND C. REESE, Chairman

Committee Reports

Hot Weather Concreting
   Report of Committee 605
   Stanton Walker, Chairman

Coatings for Concrete
   Report of Committee 616
   G. E. Burnett, Chairman

TUESDAY, FEBRUARY 26

PRESTRESSED CONCRETE

2:00 p.m.  Grand Ballroom

THOR GERMUNDSSON, Chairman

Progress Report of Joint ACI-ASCE Committee 323
   E. L. ERICKSON

Historical Background
   C. P. SIEBES

Introduction to the Report
   M. J. HOLLEY

General Aspects of Design Chapter
   W. B. BENNETT

Details of Design Chapter
   HOWARD SIMPSON

Materials Chapter
   CURZON DOBELL

Construction Chapter

MOTION PICTURES

8:00 p. m.  Junior Ballroom

"Action of Beam to Column Connections"

"Lake Pontchartrain Bridge"

"Inside Story of Concrete"
CONSTRUCTION

9:00 a.m. Grand Ballroom

Vice-President Walter H. Price, Chairman

Design Criteria for Modern Concrete Specifications and Control

Lewis H. Tuthill and Edward A. Abdun-Nur
California Department of Water Resources, Sacramento, and Consulting Engineer, Denver, Colo., respectively

Concreting the Dallas Memorial Auditorium

Jack E. Rosenlund
George L. Dahl, Architects and Engineers, Dallas, Texas

Concrete for Sewage Works

E. C. Wenger
Portland Cement Association, Chicago, Ill.

Prestressed Concrete Hangar

David P. Billington
Roberts and Schaefer Co., New York, N. Y.

AWARDS LUNCHEON

12:15 p.m. Junior Ballroom

Presentation of Awards by President Kerekes on behalf of the Board of Directors

HENRY C. TURNER MEDAL to: Albert T. Goldbeck
"in recognition of more than forty years of quiet perseverance in the extension of our knowledge of concrete for use in highways and structures"

ALFRED E. LINDAU AWARD to: Raymond C. Reese
"in recognition of his years of effective co-ordination of practice and instruction through textbooks and technical papers on reinforced concrete"


Lewis H. Tuthill and William A. Cordon
for their paper "Properties and Uses of Initially Retarded Concrete"

LEONARD C. WASON MEDAL for "Noteworthy Research" to:

Kenneth R. Lauer and Floyd O. Slate
for work reported in their paper ACI Proceedings V. 52, (June, 1956 ACI JOURNAL) "Autogeneous Healing of Cement Paste"

CONSTRUCTION PRACTICE AWARD to:

Roy R. Clark
for his paper ACI Proceedings V. 52, (April, 1956 ACI JOURNAL) "Bonneville Stilling Basin Repaired after 17 Years' Service"

Announcement of Election to Honorary Membership: Arthur R. Lord

Acceptance of Honorary Membership Retiring President's Address

Frank Kerrkes
Michigan College of Mining and Technology

Report of Tellers and Introduction of New Officers
Recognition of Retiring Directors and Officers Presentation of Plaque to Retiring President
WEDNESDAY, FEBRUARY 27

Concurrent sessions Wednesday afternoon in Junior Ballroom and Grand Ballroom

DESIGN

2:30 p.m.  Junior Ballroom

DOUGLAS McHENRY, Chairman

APARTMENT BUILDING IN DALLAS, TEXAS

FRANK W. CHAPPELL
Consulting Engineer, Dallas, Texas

BLAST RESISTANT DESIGN OF FARMERS UNION BUILDING

S. ARTHUR AXTESS
Architect-Engineer, Denver, Colo.

STRENGTH OF SLENDER REINFORCED CONCRETE COLUMNS

IVAN M. VIEST and BENGT BROMS
University of Illinois, Urbana, Ill., and Shell Oil Development Co., Houston, Texas, respectively

DESIGN OF STATLER HILTON HOTEL—DALLAS

WAYMAN C. WING
Seelye, Stevenson, Value & Knecht, New York, N. Y.

MATERIALS

2:30 p.m.  Grand Ballroom

A. ALLAN BATES, Chairman

PORTLAND SLAG CEMENT

RYANT MATHER
Waterways Experiment Station, Jackson, Miss.

FLY ASH CONCRETE

R. H. BRECKENRIDGE
Texas Power and Light Co., Dallas, Texas

STUDY OF CONCRETE PIPE IN SERVICE

W. J. McCcOY, R. J. Sweitzer and MARTIN E. FLINTZ
Lehigh Portland Cement Co., Lock Joint Pipe Co., and American Waterworks Service Co., respectively

EFFECT OF TEMPERATURE ON CONCRETE STRENGTH

PAUL KLIEGER
Portland Cement Association, Chicago, Ill.
Tentative Topics

Tests of concrete containing portland blast furnace slag cement

A nuclear magnetic resonance moisture meter

Strength variations of cement

Properties of concrete containing high percentages of chlorides when cast and cured at extreme low temperatures

Investigations of instruments for measurement of pore pressure in concrete

A theoretical approach to the fire endurance of concrete

Effect of block patterns on structural properties of masonry walls

Some studies on prestressed concrete simple and continuous composite beams

Anchorage characteristics of strands in pretensioned prestressed concrete

Shear strength of simply-supported reinforced concrete beams under uniform load

Rectangular members of reinforced concrete in torsion
LADIES ENTERTAINMENT

There is no charge for any of these activities. They are open to all wives of registering ACI members.

HOSPITALITY COFFEE ROOM IN STATLER HILTON

Morning and Afternoon

Monday, Tuesday and Wednesday

TUESDAY, FEBRUARY 26

Coffee at 10:30 a.m.
Everts' Hospitality Room, 1615 Main Street
Featuring special F. B. I. exhibit, explained by bureau personnel.

WEDNESDAY, FEBRUARY 27

Luncheon and Neiman-Marcus Style Show
On the Terrace, Statler Hilton

LADIES' COMMITTEE

MRS. GRAY THOMAS, Chairman
MRS. E. J. DEMSON, Luncheon-Style Show
MRS. GRAYSON GILL, Coffee
MRS. CEDRIC WILLSON, Hospitality Room
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.

AMERICAN CONCRETE INSTITUTE
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