

**THE 55<sup>TH</sup> ANNUAL**

**ACI**

**CONVENTION**

**Los Angeles**

**Feb. 23-26, 1959**

**Statler Hilton Hotel**

## BOARD OF DIRECTION

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## TECHNICAL ACTIVITIES COMMITTEE

(In charge of convention program and of technical publications)

WALTER J. MCCOY, *Chairman*  
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### \*Address

## AMERICAN CONCRETE INSTITUTE

P. O. Box 4754, Redford Station  
Detroit 18, Michigan

## CONVENTION REGISTRATION

Monday—Thursday

February 23-26, 1959

9:00 a.m.—5:00 p.m. Daily

Registration Fee — \$5.00

All ladies and **registered** nonmember visitors are welcome to attend technical sessions, Awards Luncheon, and social activities.

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

Tickets for Wednesday evening **Cocktail Hour** must be obtained by **12:00 noon Wednesday**. Tickets for social activities and ladies events may be purchased at registration desk.

See bulletin board for special notices

## TECHNICAL COMMITTEE MEETINGS

See pages 4 and 5 and bulletin board at registration desk for time and location.

## NOTES FOR PROGRAM PARTICIPANTS

**8:00 a.m. Tuesday**—Breakfast for all scheduled program participants in general convention sessions (By Invitation) Los Angeles Room.

Upon recognition by the Chairman, a discussor will please state his name distinctly and go to the nearest microphone so that he may be heard by all.

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

ACI CONVENTION AND PRESS  
HEADQUARTERS — DALLAS ROOM

## TECHNICAL COMMITTEE MEETINGS

**Monday, February 23**

**8:30 a.m.—12:00 Noon**

Committee	Meeting Room
116 Nomenclature	Garden East
213 Subcommittee 1, Structural Lightweight Concrete	Mission
214 Evaluation of Results of Strength Tests of Concrete	Buffalo
314 Rigid Frames for Buildings and Bridges	Cleveland
318 Subcommittee 2, Materials and Tests	Detroit
318 Subcommittee 3, Concrete Quality; Mixing and Placing	Hartford
318 Subcommittee 15, Ultimate Strength Method	St. Louis
401 Specifications for Structural Concrete	Assembly
611 Inspection of Concrete	New York
712 Structural Precast Concrete	Foy
717 Practice in Low-Pressure Steam Curing	Boston

**Monday, February 23**

**2:00—5:00 p.m.**

115 Research (Executive Group)	St. Louis
209 Volume Changes and Plastic Flow in Concrete (Closed Session)	Detroit
212 Admixtures	Mission
213 Subcommittee 3, Insulating Concrete	Buffalo
215 Fatigue of Concrete	Foy
332 Recommended Practice for Residential Concrete Work	Garden East
336 Combined Footings	Hartford
339 Allowable Stresses in Reinforcement	Boston
711 Precast Floor Systems for Houses	Assembly
716 High-Pressure Steam Curing	New York

**Monday, February 23**

**7:00 p.m.—Midnight**

Committee	Meeting Room
208 Bond Stress	Detroit
213 Subcommittee 4, Lightweight Concrete Aggregates	Buffalo
318 Subcommittee 6, General Considerations: Flexural Computations	Boston
318 Subcommittee 14, Prestressed Concrete	Mission

**Tuesday, February 24**

**9-00 a.m.—12 Noon**

201 Durability of Concrete in Service	Cleveland
207 Properties of Mass Concrete	St. Louis
213 Subcommittee 2, Lightweight Concrete Masonry	Buffalo
216 Fireproofing	Boston
326 Shear and Diagonal Tension	Detroit
331 Structures of Concrete Masonry Units	Assembly
609 Compaction of Concrete by Mechanical Means	Mission
623 Cellular Concretes	Foy
Chapter Representatives	Hartford

**Tuesday, February 24**

**7:00 p.m.—Midnight**

318 Standard Building Code	Los Angeles
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## LOS ANGELES CONVENTION COMMITTEE

### General Committee

SAMUEL HOBBS—*Chairman*

WILLIAM F. NORTON—*Treasurer*

ROSS ADAMS	LEWIS K. OSBORN
HENRY M. LAYNE	O. C. STRUTHERS
ERNST MAAG	C. TAYLOR TEST
JOHN M. MCNERNEY	GLENN C. THOMAS
BYRON P. WEINTZ	

### Special Committees

#### Entertainment & Hospitality

C. TAYLOR TEST—*Chairman*

R. H. COOLEY—*Vice-Chairman*

W. ROBERT BLAIR	MARVIN J. KUDROFF
JAMES C. BUGG	CHARLES J. PANKOW
RICHARD G. HAMES	PHILIP A. HARRIGAN
JOHN C. WISE	

#### Exhibits

G. C. THOMAS—*Chairman*

R. E. TOBIN—*Student Competition*

C. F. BROWN	JOHN G. KASNETSIS
G. C. GUBERT	JOHN L. GOETZ

#### Publicity

ROSS ADAMS

#### Reception

H. M. LAYNE—*Chairman*

HARALD OMSTED	JOSEPH SHEFFET
ERNST MAAG	G. F. WARREN
C. D. WAILES, JR.	W. T. WRIGHT

Chapter Officers and Directors

#### Hotel Arrangements

L. K. OSBORN—*Chairman*

W. C. BRYANT

#### Construction Information

J. M. MCNERNEY—*Chairman*

G. E. BATTEY, JR.	J. L. PETERSON
B. P. WEINTZ	

#### Membership

O. C. STRUTHERS—*Chairman*

C. M. DABNEY	R. C. HODSON
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### Ladies Events

MRS. C. TAYLOR TEST—*Chairman*  
MRS. R. H. COOLEY—*Vice-Chairman*

#### Tuesday Brunch

MRS. CHARLES J. PANKOW—*Chief Hostess*

#### Thursday Fashion Luncheon

MRS. MARVIN J. KUDROFF—*Chief Hostess*

### Hostesses

MRS. JOHN J. DRISKELL  
MRS. SAMUEL HOBBS  
MRS. ERNST MAAG  
MRS. HAROLD OMSTED  
MRS. JOSEPH SHEFFET  
MRS. C. D. WAILES, JR.  
MRS. BYRON P. WEINTZ  
MRS. ROSS ADAMS

### Hostesses

MRS. W. ROBERT BLAIR  
MRS. W. C. BRYANT  
MRS. FELIX KULKA  
MRS. HENRY M. LAYNE  
MRS. JOHN M. MCNERNEY  
MRS. ROBERT E. TOBIN  
MRS. J. L. PETERSON

**Tuesday, February 24**

**2:00 p.m.—5:00 p.m.**

## FIRST GENERAL SESSION

### PACIFIC BALLROOM

*President* DOUGLAS MCHENRY, *Presiding*

Welcome—COLONEL CARROLL T. NEWTON, District Engineer, Corps of Engineers, Los Angeles

Response—PRESIDENT MCHENRY

Appointment of Tellers to canvass ballots

Proposed Revisions of Institute Bylaws

Proposed Revision of Standard:

Committee 614

Measuring, Mixing, and Placing Concrete

LEWIS H. TUTHILL, *Chairman*

Proposed Standards:

Committee 605

Hot Weather Concreting

STANTON WALKER, *Chairman*

Committee 613

Proportioning of Lightweight Aggregate

Structural Concrete

J. J. SHIDLER, *Chairman*

Committee Report:

Committee 326

Shear and Diagonal Tension

E. HOGNESTAD, *Chairman*

Wednesday, February 25

9:00 a.m.—12:00 noon

PACIFIC BALLROOM

## CONCURRENT

### (1) CONSTRUCTION

LEWIS H. TUTHILL, *Chairman*

#### Erection of Precast Concrete

J. L. PETERSON  
J. L. Peterson, Inc.

#### Joinery of Precast Elements

W. HOWARD GERFEN  
and  
JOHN R. ANDERSON  
Consulting Structural Engineers

#### Cement-Treated Subgrades Under Concrete Pavements

J. W. TRASK  
California Division of Highways

#### Qualification Plan for Ready-Mixed Concrete Plants

C. E. PROUDLEY  
North Carolina State Highway Commission  
*Presented by Robert F. Adams*

#### Cast-in-Place Concrete Pipe

L. H. KRUSTOF  
Corps of Engineers

Wednesday, February 25

9:00 a.m.—12:00 noon

GOLDEN STATE ROOM

## SESSIONS

### (2) SPECIAL PROBLEMS IN CONCRETE

WALTER H. PRICE, *Chairman*

#### Properties of Shielding Concrete

JAMES HENRIE  
Atomix International

#### Performance and Design of Special Purpose Blast Resistant Structures

R. A. WILLIAMSON  
Holmes and Narver, Inc.

#### Influence of Grade of Steel on Blast Resistance of Reinforced Concrete Beams

W. A. SHAW  
and  
J. R. ALLGOOD  
U. S. Naval Civil Engineering Laboratory

#### Surface Cooling of Mass Concrete to Prevent Cracking

ROY W. CARLSON  
Consulting Engineer  
and  
DON P. THAYER  
California Dept. of Water Resources



**Wednesday, February 25**  
**AWARDS LUNCHEON**

**12:15 p.m.**  
**PACIFIC BALLROOM**

Presentation of Awards

by

President McHenry on behalf of the Board of Direction

**HENRY C. TURNER MEDAL to**

DOUGLAS E. PARSONS

*"in recognition of notable achievement in the execution and direction of research on concrete, and in the furtherance of preparation and acceptance of concrete construction standards".*

**HENRY L. KENNEDY AWARD posthumously to**

JOSEPH DiSTASIO, SR.

*"in recognition of his outstanding contributions to the advancement of the objectives of the American Concrete Institute".*

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

F. T. MAVIS  
and

M. J. GREAVES

*for the work reported in their paper (Proceedings V. 54, September, 1957 ACI JOURNAL).*

*"Destructive Impulse Loading of Reinforced Concrete Beams".*

**LEONARD C. WASON MEDAL for "The Most Meritorious Paper" of ACI Proceedings V. 54 (July 1957 ACI JOURNAL).**

JOHN F. BROTCHE

*for his paper*

*"General Method for Analysis of Flat Slabs and Plates"*

**CONSTRUCTION PRACTICE AWARD to**

JACK E. ROSENLUND

*for his paper (Proceedings V. 54, October 1957 ACI JOURNAL).*

*"Construction of the Dallas Memorial Auditorium"*

**Announcement of Election to Honorary Membership**

HARDY CROSS

HERBERT J. GILKEY

EDUARDO TORROJA

**Presentation of Student Awards**

**Presentation of Plaque to Retiring President**

**Report of Tellers and Introduction of New Officers**

**Retiring President's Address**

DOUGLAS McHENRY

Director of Development

Portland Cement Association

Chicago, Illinois

Wednesday, February 25

2:30 p.m.—5:00 p.m.

GOLDEN STATE ROOM

## CONCURRENT

### (1) DESIGN AND ANALYSIS

PHIL M. FERGUSON, *Chairman*

Design of Prestressed Concrete Lift Slabs for Deflection Control

EDWARD K. RICE

and

FELIX KULKA

T. Y. Lin & Associates

Effect of Longitudinal Forces on a Portal Frame Supporting a Highway Bridge Deck

TUNG AU

Carnegie Institute of Technology

and

THOMAS D. Y. FOK

Youngstown University

Prestressed Concrete Roofs for Grandstands in Caracas, Venezuela

H. M. LAYNE

Structural Engineer

and

T. Y. LIN

T. Y. Lin & Associates

Laboratory Research on Pavements Continuously Reinforced with Deformed Bars

J. L. WALING

and

M. J. GUTZWILLER

Purdue University

Stresses and Deflections in Pavements Continuously Reinforced with Deformed Bars

J. L. WALING

and

M. J. GUTZWILLER

Purdue University

Wednesday, February 25

2:30 p.m.—5:00 p.m.

PACIFIC BALLROOM

## SESSIONS

### (2) CONCRETING MATERIALS AND METHODS

JOE W. KELLY, *Chairman*

Evaluation of Concrete and Mortar Mixes

W. A. CORDON

Utah State University

Shotcrete, Properties and Applications

STANLEY ZYNDA

Gunite Contractors Association

Controlling Tremie Concrete with Admixtures

J. WAYMAN WILLIAMS, JR.

Sika Chemical Corporation

Concrete and Concrete Materials for Glen Canyon Dam

W. H. PRICE

L. P. WITTE

L. C. PORTER

U. S. Bureau of Reclamation



Thursday, February 26  
9:00 a.m.—12:00 noon  
PACIFIC BALLROOM

## CONCURRENT

### (1) DESIGN RESEARCH

HENRY M. LAYNE, *Chairman*

Effect of Bar Cutoff on Bond and Shear Strength of Reinforced Concrete Beams

PHIL M. FERGUSON  
University of Texas  
and  
FARID N. MAYLOOB  
Mosul, Iraq

Shear Strength of Two-Span Continuous Reinforced Concrete Beams

J. J. RODRIGUEZ  
I. M. VIEST  
A. C. BIANCHINI  
C. E. KESLER  
University of Illinois

Torsional Resistance of Reinforced Concrete

GEORGE C. ERNST  
University of Nebraska

Behavior of a Continuous Concrete Slab Prestressed in Two Directions

A. C. SCORDELIS  
T. Y. LIN  
R. ITAYA  
University of California

Thursday, February 26  
9:00 a.m.—12:00 noon  
GOLDEN STATE ROOM

## SESSIONS

### (2) PRODUCTS AND PRECAST ELEMENTS

ERNST MAAG, *Chairman*

Precast and Prestressed Folded Plate Slabs

H. H. EDWARDS  
Leap Concrete, Inc.

Plastic Forms for Architectural Concrete

J. A. HANSON  
Portland Cement Association

Exposed Aggregate Type of Decorative Panels

C. D. WAILES, JR.  
Walloe Precast Concrete Corporation

Glazed Face Concrete Block

S. H. WESTBY  
Portland Cement Association

Linings for Concrete Pipe and Structures Under Sewage Conditions

C. G. MUNGER  
Americast Corporation

Thursday, February 26, 2:00 p.m.—5:00 p.m.

PACIFIC BALLROOM

### RESEARCH SESSION

GEORGE W. WASHA, *Chairman*

S. J. CHAMBERLIN, *Secretary*

This Annual Open Meeting of ACI Committee 115 differs from general sessions in that the information is not released for publication. Request is made that proceedings be regarded as CONFIDENTIAL. Attendance at the session is the only sure way of being informed of the many future developments in concrete. A group of short papers will be presented on research techniques and preliminary results of investigations now in progress.

Dynamic Testing of Fixed-End Reinforced Concrete Beams in the Atomic Blast Simulator—Warren A. Shaw and J. R. Allgood, U.S. Naval Civil Engineering Laboratory, Port Hueneme, Calif.

Effectiveness of Longitudinal Steel at Mid-Depth as Diagonal Tension Reinforcement—James Chinn, Department of Civil Engineering, University of Colorado, Boulder, Colo.

Continuity of Precast-Prestressed Bridges—Paul Kaar, Portland Cement Association, Chicago, Ill.

Torsional Resistance of Prestressed Concrete Members—Paul Zia, Civil Engineering Department, University of Florida, Gainesville, Fla.

Vibration Characteristics of Reinforced and Prestressed Concrete Beams—Gerald M. Smith, Department of Engineering Mechanics, University of Nebraska, Lincoln, Neb.

Concrete Made with Portland Blast-Furnace Slag Cements—Paul Klieger, Portland Cement Association, Chicago, Ill.

Cement Composition and Concrete Durability in Sea Water—Bryant Mather, Waterways Experiment Station, Vicksburg, Miss.

Determination of Water in Hydrated Cement by Use of Nuclear Magnetic Resonance—Raymond L. Blaine, National Bureau of Standards, Washington, D.C.

Drying Shrinkage Test Methods for Concrete Masonry—Rudolph C. Valore, Concrete Division, Texas Industries, Inc., Dallas, Texas.

Detection of Incipient Fatigue in Mortar by Ultrasonics—John T. McCall, Department of Applied Mechanics, Michigan State University, East Lansing, Mich.

Accumulative Fatigue Damage in Plain Concrete—Hubert Hilsdorf, Department of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill.

## SPECIAL EVENTS

Student Competition for Concrete Designs and Applications of Portland Cement Concrete . . . Open to all students regularly enrolled in engineering or architecture in southern California colleges . . . Entries will be judged and prizes awarded at the AWARDS LUNCHEON, Wednesday, February 25.

Get Acquainted Cocktail Party . . . Wednesday Evening,  
February 25, Pacific Ballroom and Sierra Room

Exhibits . . . . . Wilshire Room

## LADIES PROGRAM

Tuesday, February 24 . . . . . Ladies Brunch—Statler Hilton Hotel. First, a half hour coffee get-together and on to the Beautiful Garden Room for brunch

Wednesday noon, February 25 . . AWARDS LUNCHEON  
All ladies invited to attend

Wednesday Evening, February 25 . . . . . Get Acquainted  
Cocktail Party—Pacific Ballroom and Sierra Room  
All ladies invited to attend. Two hours of gay conversation and the lilting tunes of a Hawaiian Combo

Thursday noon, February 26 . . . . . Fashion Show and  
Luncheon—Beverly Hilton Hotel  
Mr. Walter Plunkett, Academy Award Winner Dress Designer of M. G. M. Studios—in charge and commentator

Friday, February 27 . . . . . Trip to Disneyland

Tickets to popular television shows and famous night clubs will be available.

## LOS ANGELES CONVENTION EXHIBITORS

<i>Booth No.</i>	<i>Company</i>
1 and 46	Thomas Concrete Accessory Company
2	Hunt Process Company, Inc.
3	Admixtures, Inc.
4	U. S. Plywood Corporation
5	Rocklite Products
6-7	True Gun-All Equipment Company
8	Ducore, Inc.
9	Surface Engineering Company, Inc.
10	Remington Arms Company, Inc.
11	Gunite Contractors Association
12	Food Machinery Company
13	The Prescon Corporation
14	Concut Sales, Inc.
15	Encyclopaedia Britannica
16	Furane Plastics, Inc.
17	Stow Manufacturing Company
18	Great Books Of The Western World
19	Neptune Manufacturing Company
20	Symons Manufacturing Company
21	International Prestressing
22	Water Seals, Inc.
23	Dewey & Almy Chemical Division, W. R. Grace Company
24	Sika Chemical Corporation
25	Viber Company
27	General Concrete Products, Inc.
28-29	The Master Builders Company, Division of American-Marietta Company
30	Sunoco Products Company
36-37	Autolene Lubricants Company
38	E. A. Thompson Company, Inc.
39	Edoco Technical Products
40	Gar-Bro Manufacturing Company
44	Portland Cement Association
45	Superior Concrete Accessories, Inc.
47	Western Concrete Structure

### Booth 26

### U. S. BUREAU OF RECLAMATION

*Sponsored by*

Southern California Ready-Mixed Concrete Association  
Southern California Rock Products Association

Booth 31 and 35

### MODEL CONTEST DISPLAY

*Sponsored by*

California Portland Cement Co.  
Monolith Portland Cement Co.  
Southwest Portland Cement Co.  
Permanente Cement Co.  
Riverside Cement Co.

Booth 41-43

### STATE FREEWAY MODEL

*Sponsored by*

Guy F. Atkinson Co.  
J. E. Heddack, Ltd.  
Raymond Concrete Pile Co.  
Webb and White  
Peter Kiewit Sons' Co.