THE 55TH ANNUAL
ACI
CONVENTION
Los Angeles
Feb. 23-26, 1959
Statler Hilton Hotel
BOARD OF DIRECTION

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DOUGLAS McHENRY

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TECHNICAL ACTIVITIES COMMITTEE
(In charge of convention program and of technical publications)

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G. E. BURNETT
E. A. FINNEY
CLYDE E. KESLER
BRYANT MATHER
MICHAEL V. PREGNOFF
L. H. TUTHILL

*Address

AMERICAN CONCRETE INSTITUTE
P. O. Box 4754, Redford Station
Detroit 19, 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 discussers 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

<table>
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<th>Meeting Room</th>
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<td>116</td>
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**Monday, February 23**

2:00 - 5:00 p.m.

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**Monday, February 23**

7:00 p.m. - Midnight

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**Tuesday, February 24**

9:00 a.m. - 12 Noon

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**Tuesday, February 24**

7:00 p.m. - Midnight

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<td>318</td>
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</table>
LOS ANGELES CONVENTION COMMITTEE

General Committee
Samuel Hobbs—Chairman
William F. Norton—Treasurer
Ross Adams
Henry M. Layne
Ernst Maag
John M. McNerney
Byron P. Weintz

Special Committees
Entertainment & Hospitality
C. Taylor Test—Chairman
R. H. Cooley—Vice-Chairman
W. Robert Blair
James C. Bugg
Richard G. Hames
John C. Wise

Exhibits
G. C. Thomas—Chairman
R. E. Tobin—Student Competition
C. F. Brown
G. C. Guibert
John G. Kasnetsis
John L. Goetz

Publicity
Ross Adams

Reception
H. M. Layne—Chairman
Harald Omsted
Ernst Maag
C. D. Wailes, Jr.

Chapter Officers and Directors

Hotel Arrangements
L. K. Osborn—Chairman
W. C. Bryant

Construction Information
J. M. McNerney—Chairman
G. E. Battey, Jr.
B. P. Weintz

Membership
O. C. Struthers—Chairman
C. M. Dabney

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. Kristof
Corps of Engineers

(2) SPECIAL PROBLEMS IN CONCRETE

WALTER H. PRICE, Chairman

Properties of Shielding Concrete

James Henrie
Atoms 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
ACI CONVENTION AREA
Statler Hilton Hotel
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

(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  
Gunita 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. F. 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
FAHID N. MAYLOO
Mossul, 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
Leop Concrete, Inc.

Plastic Forms for Architectural Concrete

J. A. HANSON
Portland Cement Association

Exposed Aggregate Type of Decorative Panels

C. D. WAILES, JR.
Wailes 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
Amcoast 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.


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.


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

<table>
<thead>
<tr>
<th>Booth No.</th>
<th>Company</th>
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<tr>
<td>1 and 46</td>
<td>Thomas Concrete Accessory Company</td>
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<td>Hunt Process Company, Inc.</td>
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<td>Admixtures, Inc.</td>
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<td>U. S. Plywood Corporation</td>
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<td>RockLite Products</td>
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<td>True Gun-All Equipment Company</td>
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<td>Ducore, Inc.</td>
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<td>Gunite Contractors Association</td>
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<td>Superior Concrete Accessories, Inc.</td>
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<td>Western Concrete Structure</td>
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### Booth 26

**U. S. BUREAU OF RECLAMATION**

Sponsored by

Southern California Ready-Mixed Concrete Association

Southern California Ready-Mix Products Association

### Booth 31 and 35

**MODEL CONTEST DISPLAY**

Sponsored by

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

### Booth 41-43

**STATE FREEWAY MODEL**

Sponsored by

Guy F. Atkinson Co.
J. E. Holleck, Ltd.
Reynolds Concrete Pile Co.
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Peter Kirwill Sons' Co.