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

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MICHAEL V. PREGNOFF
LEWIS H. TUTHILL
WILLIAM A. MAPLES, Secretary*

*Address

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

PROGRAM TIME TABLE

ACI Convention Headquarters Parlor “E”

Sunday, February 23
9:00 a.m.—12:00 noon—TAC Meeting—Suite 440
12:15 p.m.—Board-TAC Luncheon—Rooms 427, 429, 432
2:00 p.m.—5:00 p.m.—Board Meeting—Suite 440

Monday, February 24
9:00 a.m.—Registration Begins
First Floor Foyer
9:00 a.m.—Technical Committee Meetings
2:00 p.m.—Technical Committee Meetings
7:00 p.m.—Technical Committee Meetings
See pages 6 and 7

Tuesday, February 25
8:00 a.m.—Institute Officer’s Reception and Breakfast
for scheduled program participants (Prior
Invitation) Parlor “C”
9:00 a.m.—Registration Continues
9:30 a.m.—12:00 noon—First General Session
Grand Ballroom
2:00 p.m.—5:00 p.m.—General Session
Grand Ballroom
7:00 p.m.—Technical Committee Meetings

Wednesday, February 26
9:00 a.m.—12:00 noon—Concurrent Sessions
(1) Fatigue of Concrete, Constitution Room
(2) Construction, Grand Ballroom
12:15 p.m.—Awards Luncheon
Cotillion and Embassy Rooms
2:30 p.m.—5:00 p.m.—Concurrent Sessions
(1) Joint Design Session with Structural
Division, ASCE, Grand Ballroom
(2) Design of Highway Pavements
Constitution Room
6:30 p.m.—Cocktail Hour—Sherman Hotel
7:30 p.m.—BANQUET—Combined with the American
Society of Civil Engineers—Sherman Hotel

Thursday, February 27
9:00 a.m.—12:00 noon—Research Session
Grand Ballroom
2:00 p.m.—Tour of PCA Laboratories—(See Page 19)
CHICAGO CONVENTION COMMITTEE

General Committee on Arrangements
A. Allan Bates, Chairman
Jack R. Janney, Secretary
George F. Long, Treasurer

Subcommittee Chairmen
Entertainment
H. C. Delzell

Hostess
Mrs. A. Allan Bates

Publicity
W. W. Wallace

Inspection and Tours
Earl J. Beard

Advisory Committee
Craig J. Cain
W. P. Markert
R. H. Clore
Douglas McHenry
E. M. Fucik
H. F. Peckworth
O. W. Irwin
C. E. Wuerpel

Ladies' Committee
Mrs. A. Allan Bates, Chairman
Mrs. William Avery
Mrs. C. C. Carlson
Mrs. Miles D. Catton
Mrs. L. D. Childs
Mrs. R. E. Copeland
Mrs. A. M. Davis
Mrs. R. C. Elstner
Mrs. E. J. Felt
Mrs. J. R. Gaston
Mrs. N. W. Hanson
Mrs. Eivind Hognestad
Mrs. Jack R. Janney

Mrs. C. E. Wuerpel

CONVENTION REGISTRATION

Monday - Thursday
February 24-27, 1958
9:00 a.m. – 5:00 p.m. Daily

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 and Dinner must be purchased by 2:00 p.m. Wednesday. (A book of tickets for the special banquet and all of the events scheduled for the ladies for the week will be sold at the registration desk.)

See bulletin board for special notices

TECHNICAL COMMITTEE MEETINGS

See pages 6 and 7 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).- Parlor “C”

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 discussser 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.
## TECHNICAL COMMITTEE MEETINGS

### Saturday, February 22

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>326 (Joint ACI-ASCE) Shear and Diagonal Tension (closed meeting)</td>
<td>Walnut Rm</td>
</tr>
</tbody>
</table>

### Sunday, February 23

#### 8:00 p.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>622</td>
<td>Subcommittee 1, Pressure on Formwork</td>
</tr>
</tbody>
</table>

### Monday, February 24

#### 8:00 a.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>208</td>
<td>Bond Stress</td>
</tr>
</tbody>
</table>

#### 8:30 a.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>333 (Joint ACI-ASCE) Design and Construction of Composite Structures</td>
<td>530</td>
</tr>
</tbody>
</table>

#### 9:00 a.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>116</td>
<td>Nomenclature</td>
</tr>
<tr>
<td>207</td>
<td>Properties of Mass Concrete</td>
</tr>
<tr>
<td>212</td>
<td>Admixtures Burgundy Rm.</td>
</tr>
<tr>
<td>213</td>
<td>Subcommittee 2, Lightweight Concrete Masonry</td>
</tr>
<tr>
<td>322</td>
<td>Design of Structural Plain Concrete</td>
</tr>
<tr>
<td>332</td>
<td>Recommended Practice for Residential Concrete Work</td>
</tr>
<tr>
<td>401</td>
<td>Specifications for Structural Concrete</td>
</tr>
<tr>
<td>612</td>
<td>Recommended Practice for Curing Concrete</td>
</tr>
<tr>
<td>613</td>
<td>Subcommittee on Proportioning Lightweight Aggregate Concrete Hollywood Rm.</td>
</tr>
<tr>
<td>614</td>
<td>Recommended Practice for Measuring, Mixing, and Placing Concrete Embassy Rm.</td>
</tr>
<tr>
<td>621</td>
<td>Aggregates</td>
</tr>
<tr>
<td>711</td>
<td>Precast Concrete Floor Systems</td>
</tr>
</tbody>
</table>

#### 11:00 a.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>613</td>
<td>Subcommittee on No-Slump Concrete Parlor “B”</td>
</tr>
</tbody>
</table>

### Monday, February 24

#### 2:00 p.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
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</thead>
<tbody>
<tr>
<td>201</td>
<td>Durability of Concrete in Service</td>
</tr>
<tr>
<td>213</td>
<td>Subcommittee 1, Lightweight Structural Concrete</td>
</tr>
</tbody>
</table>

### Monday, February 24

#### 2:00 p.m. continued

<table>
<thead>
<tr>
<th>Committee</th>
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</thead>
<tbody>
<tr>
<td>215</td>
<td>Fatigue of Concrete</td>
</tr>
<tr>
<td>314</td>
<td>Rigid Frames for Buildings and Bridges</td>
</tr>
<tr>
<td>315</td>
<td>Detailing Reinforced Concrete Structures</td>
</tr>
<tr>
<td>318</td>
<td>Subcommittee 15, Ultimate Strength Design Burgundy Rm.</td>
</tr>
<tr>
<td>318</td>
<td>Subcommittee 12, Footings</td>
</tr>
<tr>
<td>324</td>
<td>Precast Reinforced Concrete Thin Sections</td>
</tr>
<tr>
<td>325</td>
<td>Structural Design of Concrete Pavements for Highways and Airports</td>
</tr>
<tr>
<td>331</td>
<td>Structures of Concrete Masonry Units</td>
</tr>
<tr>
<td>605</td>
<td>Hot Weather Concreting Hollywood Rm.</td>
</tr>
<tr>
<td>616</td>
<td>Coatings for Concrete</td>
</tr>
<tr>
<td>622</td>
<td>Formwork for Concrete</td>
</tr>
<tr>
<td>714</td>
<td>Concrete Bins and Silos ACI Suite</td>
</tr>
<tr>
<td>716</td>
<td>High-Pressure Steam Curing Parlor “B”</td>
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</tbody>
</table>

#### 3:00 p.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
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<tbody>
<tr>
<td>334</td>
<td>Concrete Shell Structures</td>
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</table>

#### 7:00 p.m.

<table>
<thead>
<tr>
<th>Committee</th>
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<tbody>
<tr>
<td>115</td>
<td>Research (Executive Group) ACI Suite</td>
</tr>
<tr>
<td>213</td>
<td>Subcommittee 3, Insulating Concrete</td>
</tr>
<tr>
<td>318</td>
<td>Subcommittee 11, Columns</td>
</tr>
<tr>
<td>332</td>
<td>Residential Concrete</td>
</tr>
<tr>
<td>609</td>
<td>Compaction of Concrete by Mechanical Means</td>
</tr>
<tr>
<td>611</td>
<td>Inspection of Concrete Hollywood Rm.</td>
</tr>
<tr>
<td>Building Committee (Board of Directors Committee)</td>
<td>524</td>
</tr>
</tbody>
</table>

### Tuesday, February 25

#### 2:00 p.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>318</td>
<td>Subcommittee 8, Shear, Diagonal Tension, and Bond</td>
</tr>
</tbody>
</table>

#### 7:00 p.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
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</thead>
<tbody>
<tr>
<td>318</td>
<td>Standard Building Code Hollywood Rm.</td>
</tr>
</tbody>
</table>

### Wednesday, February 26

#### 9:00 a.m.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>318</td>
<td>Subcommittee 6, Design-General Conditions; Flexural Computations</td>
</tr>
</tbody>
</table>
Tuesday, February 25
9:30 a.m. - 12:00 noon

FIRST GENERAL SESSION
GRAND BALLROOM

President W. H. Price, Presiding

Opening Remarks
Appointment of tellers to canvass annual election ballots
Proposed Revisions of Institute Bylaws
Proposed Test Procedure to Determine Relative Bond Value of Reinforcing Bars

Committee 208
CHESTER P. SIERS, Chairman
Presented by H. J. GILKEY
Proposed Recommended Practice for Design of Concrete Pavements

Committee 325
E. A. FINNEY, Chairman
Proposed Revision of Specifications for Concrete Pavements and Concrete Bases

Committee 617
H. F. CLEMMER, Chairman
Proposed Revision of Minimum Standard Requirements for Precast Concrete Floor and Roof Units

Committee 711
LEO M. LEGATSKI, Chairman
New ACI Headquarters Building

MINORU YAMASAKI
Yamasaki, Leinweber and Associates
Precast Roof of ACI Building

Motion Picture

Tuesday, February 25
2:00 p.m. - 5:00 p.m.

GRAND BALLROOM

ST. LAWRENCE SEAWAY SESSION

Sponsored by Committee 207

I. L. TYLER, Chairman

"Features of the St. Lawrence International Power Project"

J. NEIL MUSTARD
Hydro-Electric Power Commission of Ontario

"Concrete Technology on the St. Lawrence International Power Project"

HARRY H. McLEAN
New York Department of Public Works

"Features of the St. Lawrence International Seaway Project"

GORDON KIDD
St. Lawrence Seaway Authority

"Concrete Technology on the St. Lawrence International Seaway Project"

M. R. SMITH
Corps of Engineers
CONCURRENT

(1) FATIGUE OF CONCRETE
Sponsored by Committee 215
G. M. NORDBY, Chairman

"Fatigue of Concrete—A Review of Past Research"
G. M. NORDBY
National Science Foundation

"Effect of Range of Stress on Fatigue Strength of Plain Concrete Beams"
J. W. MURDOCK and CLYDE KESLER
University of Illinois

"Fatigue Properties of Concrete Beams"
THOMAS E. STELSON and JOHN N. CERNICA
Carnegie Institute of Technology and Youngstown University, respectively

"Probability of Fatigue Failure of Plain Concrete"
JOHN T. MCCALL
Michigan State University

"Static and Fatigue Strength of Beams with Tensile Reinforcement"
TIEN S. CHANG and CLYDE KESLER
University of Illinois

SESSIONS

(2) CONSTRUCTION
DOUGLAS McHENRY, Chairman

"Failures of Concrete Structures"
JACOB FELD
Consulting Engineer

"Control of Concrete Mixes"
E. A. ABDUN-NUR and J. J. WADDELL
Consulting Engineer and Joseph K. Knoerle & Associates, respectively

"Design and Construction of a 22-Story Office Tower"
O. SAFIR
Consulting Engineer

"Wide-Span Hyperbolic Paraboloidical Shell"
ANTON TESDESKO
Roberts and Schaefer Company
Wednesday, February 26

AWARDS LUNCHEON

12:15 p.m.

COTILLION AND EMBASSY ROOMS

Presentation of Awards

by

President Price on behalf of the Board of Direction

HENRY C. TURNER MEDAL to

Herbert J. Gilkey

“for notable leadership in advancing the knowledge of properties of plain and reinforced concrete”

ALFRED E. LINDAU AWARD to

Arsham Amirikian

“in recognition of his continued devotion to the improvement of design practice for precast reinforced concrete construction”

LEONARD C. WASON MEDAL for "Noteworthy Research" to

Phil M. Ferguson

for the work reported in his paper (Proceedings V. 53, August 1956 ACI JOURNAL)

"Some Implications of Recent Diagonal Tension Tests"


R. E. Copeland

for his paper

"Shrinkage and Temperature Stresses in Masonry"

CONSTRUCTION PRACTICE AWARD to

James S. Minges

and

Donald S. Wild

for their paper (Proceedings V. 53, February 1957 ACI JOURNAL)

"Six Stories of Prestressed Slabs Erected by Lift-Slab Methods"

Announcement of Election to Honorary Membership

D. E. Parsons

Stanton Walker

Eugene Freyssinet

Presentation of Plaque to Retiring President

Report of Tellers and Introduction of New Officers

Retiring President's Address

Walter H. Price

United States Bureau of Reclamation

Denver, Colorado
Wednesday, February 26
2:30 p.m. - 5:00 p.m.
GRAND BALLROOM

CONCURRENT

(1) STRUCTURAL DESIGN

Joint Session with Structural Division of American Society of Civil Engineers

PHIL M. FERGUSON, Chairman

"Influence of Design and Details on Concrete Deterioration"

P. D. MIESENHEDLER
Association of American Railways

"Effect of Axial Compression on Shear Strength of Reinforced Concrete Frame Members"

JAMES W. BALDWIN, Jr. and IVAN M. VIEST
University of Illinois and AASHTO Road Test, respectively

"Ultimate Shear Strength of Reinforced Concrete Members without Shear Reinforcement"

CHARLES S. WHITNEY
Consulting Engineer

"Development of Precast Concrete Girders Reinforced with High-Strength Deformed Bars"

J. R. GASTON and EIVIND HOGNESTAD
Portland Cement Association

SESSIONS

(2) DESIGN OF HIGHWAY PAVEMENTS

Sponsored by Committee 325

E. A. FINNEY, Chairman

"New Factors in Pavement Design"

E. A. FINNEY
Michigan State Highway Department

ACI Committee 325 Subcommittee Reports

Prestressed Concrete Pavements

Subcommittee 6

J. A. BISHOP, Chairman

Continuously Reinforced Concrete Pavements (Review of the use of continuous reinforcement in highway pavements)

Subcommittee 7

J. D. LINDSAY, Chairman

Design of Concrete Overlay for Concrete Pavements

Subcommittee 8

L. M. ARMS, Chairman

Cocktails—6:30
BANQUET—7:30

SHERMAN HOTEL — Joint banquet with the American Society of Civil Engineers
Thursday, February 27
9:00 a.m. - 12:00 noon
GRAND 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.

"Pumpability and Physical Characteristics of Sand-Cement Grout"

"Qualification Tests for Retarders"

"Ionic-Barrier Moisture Meter for Measurement of Moisture Content and Moisture Distribution in Concrete"

"Deleterious Constituents of Gravels and Their Effect on Concrete Durability"

"Triaxial Compressive Stress Tests of Fly Ash Concrete"

"An Accelerated Shrinkage Test for Concrete Masonry Units"

"Tensile Fatigue Characteristics of Concrete Mortar Bars"

"Fatigue Strength of Prestressed Concrete Beams in Flexure"

"Plastic Flow in Reinforced Concrete Beams Under Repeated Loading"

"Repeated Load Tests on Prestressed Concrete Railroad Bridges"

"Shear Strength of Prestressed Concrete I-Beams with Web Reinforcement"

Thursday, February 27
2:00 p.m.

Tour of Portland Cement Association Laboratories

LADIES' PROGRAM

Monday, February 24
8:00 a.m. — Don McNeill Breakfast Club Show
9:00 a.m. — Coffee Hour
3:00 p.m. — Tea and Entertainment

Tuesday, February 25
8:00 a.m. — Don McNeill Breakfast Club Show
9:00 a.m. — Coffee Hour
12:00 Noon — Luncheon at Kungsholm Restaurant
followed by puppet opera in the afternoon

Wednesday, February 26
8:00 a.m. — Don McNeill Breakfast Club Show
9:00 a.m. — Marshall Field Luncheon and Fashion Show
6:30 p.m. — Cocktail Hour
7:30 p.m. — Banquet and Entertainment

Thursday, February 27
8:00 a.m. — Don McNeill Breakfast Club Show
9:00 a.m. — Farewell Coffee Hour
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
P.O. Box 4754, Redford Station
Detroit 19, Michigan