



Program

for the **57th**

**Annual ACI
Convention**

**Chase-Park Plaza
Hotels**

**St. Louis, Missouri
February 20-23, 1961**

American Concrete Institute

American Concrete Institute

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AMERICAN CONCRETE INSTITUTE

P.O. Box 4754, Redford Station

Detroit 19, Michigan

CONVENTION REGISTRATION

Monday — Thursday

February 20-23, 1961

9:00 a.m. — 5:00 p.m. Daily in Main
Lobby of Chase

Registration Fee — \$5.00

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

See bulletin board in Chase lobby for special notices

NOTES FOR PROGRAM PARTICIPANTS

8:00 a.m. Tuesday — Breakfast for Technical Committee Progress program participants (by invitation) Stockholm Room, Park Plaza.

8:00 a.m. Wednesday — Breakfast for General Program participants (by invitation) Hunt Room, Chase.

8:00 a.m. Thursday — Breakfast for Research Session participants (by invitation) Colonial Room, Chase.

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 ACI JOURNAL.

ACI CONVENTION AND PRESS
HEADQUARTERS—VARIETY CLUB

TECHNICAL COMMITTEE MEETINGS

(Visitors welcome at all meetings except at executive and closed sessions.)

Monday Morning, February 20

9:00 a.m. — 12:00 Noon

Committee	Meeting Room
116	Nomenclature (Review of definitions for publication) Regency, Park Plaza
201	Durability of Concrete in Service (Review of committee report) Georgian, Park Plaza
207	Properties of Mass Concrete (Development of Symposium) Hunt, Chase
<u>208</u>	<u>Bond Stress</u> (As used in Ultimate Load Design) Colonial, Chase
216	Fireproofing or Fire Protection of Structures (Review of committee's mission) Park, Chase
318	Standard Building Code—Subcommittee 2, Materials and Tests (Code revisions) Embassy, Chase
318	Standard Building Code—Subcommittee 6, Design (Code revisions) Lacquer, Park Plaza
<u>323</u>	<u>Prestressed Reinforced Concrete</u> , Joint ACI-ASCE (Committee progress and problems of operation. See also p.m.) Regency, Chase
332	Residential Concrete Work ACI Hdqtrs. Suite, Chase
403	Adhesives for Concrete (Committee organization. See also p.m.) Swedish, Park Plaza
712	Precast Structural Concrete Design and Construction, Joint ACI-ASCE (See also p.m.) Lido, Chase
805	Pneumatically Applied Mortar (Discussion of new Recommended Practice) Zodiac, Chase
—	Reinforced Concrete Columns (Organization meeting) Venetian, Park Plaza

Monday Afternoon, February 20

2:00 — 5:00 p.m.

214	Evaluation of Strength Tests (Revision of and appendix to committee report) Park, Chase
215	Fatigue of Concrete (Review of committee mission) English, Chase
<u>323</u>	<u>Prestressed Concrete</u> , Joint ACI-ASCE (See also a.m.) Regency, Chase
326	Shear and Diagonal Tension, Joint ACI-ASCE (Discussion of Part 3 of committee report, Slabs & Footings) Venetian, Park Plaza
331	Structures of Masonry Units (Discussion of draft for Recommended Practice) Hunt, Chase
334	Concrete Shell Structures (Progress report on Recommended Practice. (See also Feb. 21 schedule.) Colonial, Chase
401	Specifications for Structural Concrete (Discussion of final draft of specifications) Lacquer, Park Plaza
403	Adhesives for Concrete (See also a.m.) Swedish, Park Plaza
505	Reinforced Concrete Chimneys (Reports of subcommittees) Zodiac, Chase
612	Curing Concrete (Discussion of Recommended Practice) Regency, Park Plaza
613	Proportioning Concrete Mixes — Subcommittee 2, No-Slump Concrete (Closed meeting) Embassy, Chase
623	Cellular Concretes Palladian, Chase
712	Precast Structural Concrete Design and Construction, Joint ACI-ASCE (See also a.m.) Lido, Chase
716	High Pressure Steam Curing Georgian, Park Plaza

Monday Evening, February 20

7:00 p.m.

<u>115</u>	<u>Research</u> (Executive group only) English, Chase
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- 213 Lightweight Aggregates and Lightweight Aggregate Concrete (Discussion of "Guide to Design in Structural Lightweight Concrete") Hunt, Chase
- 314 Rigid Frames for Buildings and Bridges (Committee reorganization) Colonial, Chase
- 318 Standard Building Code—Subcommittee 15, Ultimate Strength Design Swedish, Park Plaza
- 333 Composite Construction, Joint ACI-ASCE (Control Group only) Lacquer, Park Plaza
- 402 Concrete Floor Finishes (Committee assignments) Venetian, Park Plaza
- TAC Committee on Monographs (Closed Session) Embassy, Chase

Tuesday Morning, February 21

9:00 a.m. — 12:00 Noon

- 212 Admixtures (Revised report and possible preparation of Recommended Practice) Park, Chase
- 318 Standard Building Code—Subcommittee 8, Shear and Diagonal Tension (Code revisions) ACI Hdqtrs. Suite, Chase
- 323 Prestressed Reinforced Concrete, Joint ACI-ASCE (See also schedule for Feb. 20) Regency, Chase
- 333 Composite Construction, Joint ACI-ASCE Lacquer, Park Plaza
- 334 Concrete Shell Structures (See also p.m. Feb. 20 and 21) Colonial, Chase
- 336 Combined Footings (Review of committee work) Embassy, Chase
- 339 Allowable Stresses in Reinforcement Hunt, Chase
- 609 Consolidation of Concrete Regency, Park Plaza
- 611 Inspection of Concrete (Discussion of Recommended Practice) Georgian, Park Plaza
- 613 Proportioning Concrete Mixtures Zodiac, Chase
- 616 Coatings for Concrete (Discussion of two pending reports) Swedish, Park Plaza
- 622 Formwork for Concrete—Subcommittee on Formwork Manual Venetian, Park Plaza

- 714 Concrete Bins and Silos (Wall and foundation design procedures) English, Chase
- 717 Low-Pressure Steam Curing Lido, Chase

Tuesday Afternoon, February 21

2:00 p.m. — 5:00 p.m.

- 334 Concrete Shell Structures (See also p.m. Feb. 20 and a.m. Feb. 21) Colonial, Chase

Tuesday Evening, February 21

7:00 p.m.

- Chapter Problems and Procedures Palladian, Chase
- 318 Standard Building Code (Closed Session) Regency, Chase

TECHNICAL COMMITTEE PROGRESS SESSION

Tuesday Afternoon, February 21

2:00 p.m. — 5:00 p.m.

Khorassan Room, Chase

Chairman: Kenneth D. Cummins, Technical Director, American Concrete Institute, Detroit, Michigan

This session is a new ACI convention feature planned to familiarize ACI members with committee work of the Institute, to secure help for technical committees, and to suggest to interested parties opportunities for direct research or sponsorship of research projects. The following members will give 10-15 minute reports on their committee work:

TAC Committee on Monographs
G. E. BURNETT, *Chairman*

Committee 115
Research

S. J. CHAMBERLIN, Secretary

Committee 116
Nomenclature
D. L. BLOEM, *Chairman*

Committee 212
Admixtures
B. E. FOSTER, *Chairman*

Committee 323
Prestressed Reinforced Concrete—Joint ACI-ASCE
M. SCHUPACK, *Chairman*

Committee 616
Coatings for Concrete
W. H. KUENNING, *Chairman*

Committee 213
Lightweight Aggregates and Lightweight Aggregate Concrete
~~F. R. JONES, JR., *Chairman*~~
J. N. Thompson

Intermission

Committee 321
Reinforced Concrete Slabs—Joint ACI-ASCE
C. P. SIESS, *Chairman*

Committee 621
Aggregates
W. R. WAUGH, *Chairman*
R. Philco Secy

~~Committee 335~~
~~Deflection of Concrete Building Structures~~
~~M. V. PRAZNOVY, *Chairman*~~

Committee 712
Precast Structural Concrete Design and Construction—
Joint ACI-ASCE
J. R. JANNEY, *Chairman*

Committee 318
Standard Building Code
R. C. REESE, *Chairman*

SPECIAL EVENTS

Exhibits ... Monday through Thursday in Chase Exhibit Hall
Design competition for advanced architectural students at
Washington University of St. Louis and University of
Illinois. Design models on display in Exhibit Hall.

Ladies Program (see schedule)..... Daily
Awards Luncheon..... Starlight Roof, Chase, 12:15 p.m.,
Wednesday, Feb. 22.

Cocktails and Dinner (informal dress)..... Khorassan Room,
Chase, 6:30 p.m. Wednesday, Feb. 22.
Speaker: Waldo G. Bowman, Editor,
Engineering News-Record

LADIES PROGRAM

The ladies activities lounge is located in the Pony
Express Room of the Chase

Monday, February 20

2:30—4:00 p.m. Coffee and reception in ladies activities lounge. Information available regarding amusements, points of interest, shopping, etc.

Tuesday, February 21

9:45 a.m. Board Grayline busses for tour that will include the Climatron, world's only Geodesic dome greenhouse; annual Orchid Show at Shaw's Garden; and "style show" at the Jefferson Memorial featuring high fashions of old St. Louis.

1:05 p.m. Luncheon in the Tea Room of the St. Louis Art Museum, followed by tour of the galleries.

3:30 p.m. Return to hotel lounge for informal entertainment or rest period.

Wednesday, February 22

8:30 a.m. Board Public Service busses for downtown St. Louis.

9:00 a.m. "Hawaiian Breakfast" in the Missouri Room of Stix, Baer & Fuller's department store followed by shopping.

10:45 a.m. Board busses at the Sixth Street door for Barr's department store for further shopping.

12:30 p.m. Board busses at Sixth Street door to return to Chase-Park Plaza.

1:00 p.m. Washington's Birthday luncheon in Stockholm Room, Park Plaza.

2:30 p.m. Card party, with table prizes, in ladies activities lounge, or shopping in exclusive Maryland Avenue district.

4:00 p.m. Coffee served in the lounge.

Thursday, February 23

Free day

VISIT THE EXHIBITS DAILY . . .

to learn how to do a better job in concrete

<p>FIRST GENERAL SESSION</p> <p>9 a.m.— 12 Noon</p> <p>Khorassan Room, 1st Floor, Chase</p>	<p>CO-CHAIRMEN</p> <p>Joe W. Kelly, <i>Professor</i> Engineering Materials Laboratory University of California Berkeley, California</p> <p>Howard A. Coleman <i>Vice President</i> Missouri Portland Cement Company St. Louis, Missouri</p>	<p>Report on 1961 meeting of Comite Europeen du Beton</p>	<p>Eivind Hognestad <i>Manager, Structural Development Section</i> Research and Development Laboratories Portland Cement Association Skokie, Illinois</p>
<p>Welcome to St. Louis</p>	<p>The Honorable Raymond R. Tucker <i>Mayor of St. Louis</i></p>	<p>Report on RILEM Symposium on Steam Cured Light Weight Concrete</p>	<p>John K. Selden <i>Retiring Technical Director</i> Autoclave Building Products Association Toledo, Ohio</p>
<p>President's Address</p>	<p>Professor Joe W. Kelly</p>	<p>Concrete Construction in Russia — 1960</p>	<p>A. Allan Bates <i>Vice President</i> Research and Development Laboratories Portland Cement Association Skokie, Illinois</p>
<p>Appointment of Tellers to canvass ballots</p>			
<p>Report on Sixth Congress of the International Association for Bridge and Structural Engineering</p>	<p>Douglas McHenry <i>Director of Development</i> Research and Development Laboratories Portland Cement Association Skokie, Illinois</p>		
<p>Report on Meeting of Third International Congress of Precast Concrete Industry</p>	<p>Arsham Amirikian <i>Special Structures Consultant</i> Bureau of Yards and Docks U.S. Department of the Navy Washington, D. C.</p>		

ACI CONVENTION AREA

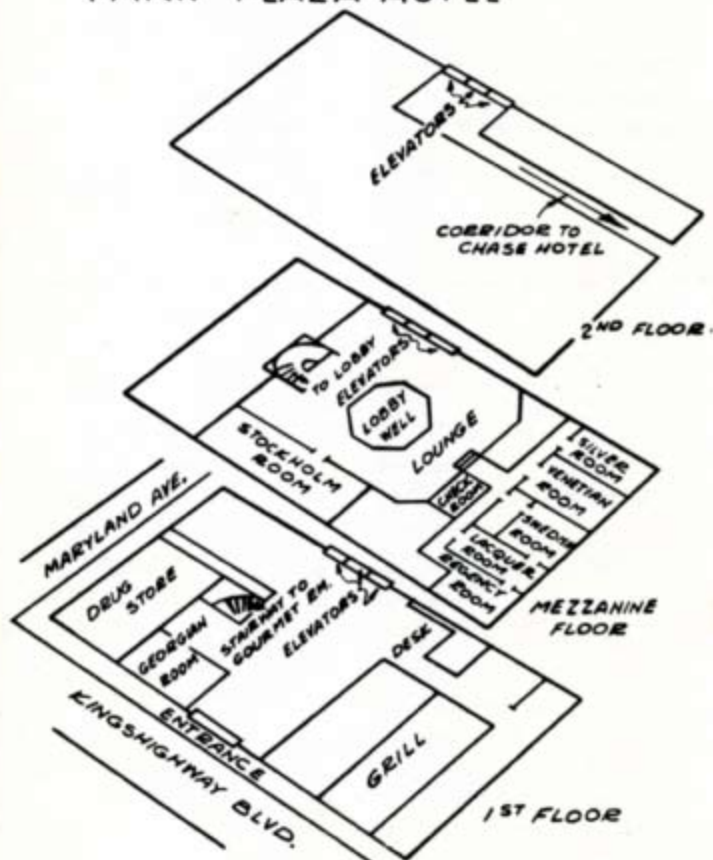
CHASE-PARK PLAZA HOTELS

The Zodiac Room and the Starlight Roof, not shown in these floor plans, are located on the 10th floor of the Chase. Note that there are two Regency Rooms, one on the first floor of the Chase, the other on the mezzanine floor of the Park Plaza.

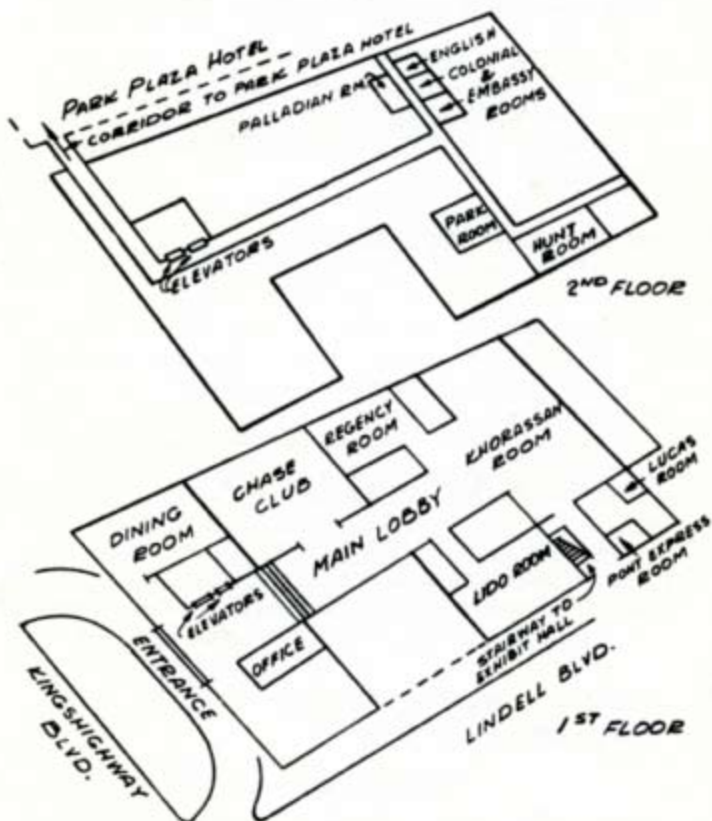
The Exhibit Hall is located on the lower level of the Chase, below the Khorassan Room.

Inquire at the convention registration desk for location of ACI Headquarters Suite.

PARK PLAZA HOTEL



CHASE HOTEL



Wednesday, February 22

AWARDS LUNCHEON

12:15 p.m.

STARLIGHT ROOF, CHASE HOTEL

Presentation of Awards

by

President Kelly on behalf of the
Board of Direction

HENRY C. TURNER MEDAL to

STANTON WALKER

"For his many contributions to the basic knowledge of concrete through published literature and active participation in the work of technical committees of the Institute."

HENRY L. KENNEDY AWARD to

A. ALLAN BATES

"For untiring efforts as chairman and member of the ACI Building Committee, successfully culminated in the outstanding architectural masterpiece housing the Institute Headquarters."

ALFRED E. LINDAU AWARD to

ANTON TEDESKO

"For his numerous and outstanding contributions to the development and use of long-span concrete structures as exemplified by the thin-shelled arch."

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

HENRY T. TOENNIES

for the work reported in his paper, "Artificial Carbonation of Concrete Masonry Units," published in the February, 1960 ACI JOURNAL.

**LEONARD C. WASON MEDAL for
"The Most Meritorious Paper" to**

ROBERT A. WILLIAMSON

for his paper, "Performance and Design of Special Purpose Blast Resistant Structures," published in the May, 1960 ACI JOURNAL.

Announcement of Election to Honorary Membership

TREVAL C. POWERS

Report of Tellers and Introduction of New Officers

Presentation of Student Awards

Presentation of Memento to Retiring President

Cocktails and Dinner

6:30 p.m., Khorassan Room

Dress for this affair is informal. Guest speaker will be Waldo G. Bowman, editor of Engineering News-Record.

VISIT THE EXHIBITS DAILY . . .

to learn how to do a better job in concrete

<p>CONCURRENT SESSIONS</p> <p>2:30 p.m.— 5 p.m.</p> <p>(1) DESIGN AND CONSTRUCTION</p> <p>Chase Club, 1st Floor, Chase</p>	<p>CHAIRMAN Raymond C. Reese R. C. Reese and Associates Toledo, Ohio</p>		<p>H. Rey Helvenston <i>Resident Engineer</i> Public Auditorium Authority of Pittsburgh and Allegheny County Pittsburgh, Pennsylvania</p>
<p>Full Scale Testing Develops Efficient Pre-Loaded Concrete Pillars</p>	<p>John J. Reed <i>Professor of Mining Engineering</i> Colorado School of Mines Golden, Colorado</p> <p>C. David Mann St. Joseph Lead Company Bonne Terre, Missouri</p>	<p>(2) MATERIALS</p> <p>Khorassan Room, 1st Floor, Chase</p>	<p>CHAIRMAN Lewis H. Tuthill <i>Concrete Engineer</i> Division of Design and Construction California Department of Water Resources Sacramento, California</p>
<p>Precast Complex Conoidal Horticultural Domes</p>	<p>W. J. Hufschmidt <i>President</i> Hufschmidt Engineering Company Milwaukee, Wisconsin</p>	<p>Water-Cement Ratio versus Strength — Another Look</p>	<p>Herbert J. Gilkey <i>Professor of Theoretical and Applied Mechanics</i> Iowa State University Ames, Iowa</p>
<p>Analysis of Stresses and the Load Carrying Capacity of the Lincoln Boulevard Bridge over Lost River, Idaho</p>	<p>Reynold K. Watkins <i>Professor and Head, Mechanical Engineering, Department</i></p> <p>William A. Cordon, <i>Professor</i></p> <p>Elliot Rich, <i>Professor</i> College of Engineering Utah State University Logan, Utah</p>	<p>Chemical Pre-stressing of Concrete Elements Using Expanding Cements</p>	<p>T. Y. Lin <i>Professor of Civil Engineering</i></p> <p>Alexander Klein <i>Research Engineer</i></p> <p>Tsevi Karby <i>Graduate Student</i> University of California Berkeley, California</p>
<p>Supporting Structure for Retractable Roof of Pittsburgh Public Auditorium</p>	<p>Edward Cohen <i>Associate Engineer</i> Ammann and Whitney New York, New York</p>	<p>How Good is Good Enough?</p>	<p>Edward A. Abdun-Nur <i>Consulting Engineer</i> Denver, Colorado</p>
		<p>Load Tests of Patterned Concrete Masonry Walls</p>	<p>R. O. Hedstrom <i>Development Engineer</i> Research and Development Laboratories Portland Cement Association Skokie, Illinois</p>

CONCURRENT SESSIONS

9 a.m.— 12 Noon

**(1) COMMITTEE 216
SYMPOSIUM ON FIRE
RESISTANCE**

Chase Club,
1st Floor, Chase

CHAIRMAN
Clifton C. Carlson
*Manager, Fire Research Section
Research and Development
Laboratories
Portland Cement Association
Skokie, Illinois*

**Fire Resistance
of Reinforced
Concrete**

Irwin A. Benjamin
*Director of Research
Granco Steel Products Company
Granite City, Illinois*

**Fire Resistance
of Building
Construction
Protected by
Concrete**

Robert R. Sheridan
*Structural Engineering
Consultant
Eastman Kodak Company
Rochester, New York*

**Fire Resistance
of Prestressed
Concrete**

G. E. Troxell
*Professor of Civil Engineering
University of California
Berkeley, California*

(2) DESIGN

Khorassan Room,
1st Floor, Chase

CHAIRMAN
Phil M. Ferguson
*Professor of Civil Engineering
University of Texas
Austin, Texas*

**A Controlled
Deflection Design
Method for Rein-
forced Concrete
Beams and Slabs**

Adrian Pauw
Professor of Civil Engineering
Donald G. Alcock
*Assistant Professor of
Civil Engineering
University of Missouri
Columbia, Missouri*

**Theory and
Analysis of
Prismatic Folded
Plate Structures**

John E. Goldberg
*Professor of Structural
Engineering*
K. S. Mahmoud
*Graduate Student
School of Civil Engineering
Purdue University
Lafayette, Indiana*

**Rectangular
Concrete Stress
Distribution in
Ultimate Strength
Design**

Eivind Hognestad
*Manager, Structural
Development Section*
Ladislav B. Kriz
*Associate Development
Engineer*
Alan H. Mattock
*Senior Development Engineer
Research and Development
Laboratories
Portland Cement Association
Skokie, Illinois*

**Tie Requirements
for Reinforced
Concrete Columns**

Boris Bresler
Professor of Civil Engineering
P. Gilbert
*Department of Civil Engineering
University of California
Berkeley, California*

THURSDAY AFTERNOON FEBRUARY 23

RESEARCH SESSION

2 p.m.— 5 p.m.

**Khorassan Room,
1st Floor, Chase**

(This Annual Open Meeting of ACI
Committee 115 differs from general
sessions in that the information is not
released for publication. Request is
made the proceedings be regarded as
CONFIDENTIAL.)

CHAIRMAN

Chester P. Siess
*Professor of Civil Engineering
University of Illinois
Urbana, Illinois*

SECRETARY

S. J. Chamberlin, Professor
*Theoretical and Applied
Mechanics Laboratory
Iowa State University
Ames, Iowa*

<p>Influence of Cement Composition on the Effectiveness of Water Reducing-Retarding Admixtures</p>	<p>Howard Newlon, Jr. <i>Highway Research Engineer</i> Virginia Council of Highway Investigation and Research Charlottesville, Virginia</p>	<p>Effect of Shrinkage Cracking in Diagonal Tension Strength</p>	<p>J. Neils Thompson <i>Professor of Civil Engineering</i> University of Texas Austin, Texas</p>
<p>Extremely Lean Mass Concrete with Pozzolans</p>	<p>Thomas B. Kennedy <i>Chief, Concrete Division</i> U. S. Army Engineer Waterways Experiment Station Vicksburg, Mississippi <i>Jackson</i></p>	<p>Prestressing Concrete with Fiber Glass Tendons</p>	<p>David P. Billington <i>Associate Professor of Civil Engineering</i> Princeton University Princeton, New Jersey</p>
<p>Mechanism of Fatigue Failure in Concrete</p>	<p>John W. Murdock <i>Research Assistant</i> Department of Theoretical and Applied Mechanics University of Illinois Urbana, Illinois</p>	<p>Protection of Steel Reinforcement from Corrosion in Concrete Contaminated with Salt</p>	<p>Charles H. Scholer <i>Professor of Applied Mechanics</i> Kansas State University Manhattan, Kansas</p>
<p>Dynamic Behavior of Continuously Reinforced Concrete Slabs</p>	<p>A. D. M. Lewis School of Civil Engineering Purdue University Lafayette, Indiana</p>		
<p>Mechanism of Tension Cracking in Reinforced Concrete</p>	<p>Bengt B. Broms School of Civil Engineering Cornell University Ithaca, New York</p>		
<p>Ultimate Strength of Reinforced Concrete Beams in Combined Torsion, Bending, and Shear</p>	<p>Hans Gesund <i>Associate Professor of Civil Engineering</i> University of Kentucky Lexington, Kentucky</p>		

ST. LOUIS CONVENTION COMMITTEE

GENERAL COMMITTEE

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WILLIAM C. E. BECKER RAYMOND F. POWELL
SIDNEY BIERMAN GEORGE W. SIMMS

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CARL J. CHAPPELL
PAUL K. NICHOLS

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LADIES EVENTS

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HAROLD M. TELTHORST NEAL J. CAMPBELL
CLARENCE AX

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address _____

city _____ zone _____ state (or country) _____
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Address _____

You may mention my name.

Do not mention my name.

ST. LOUIS CONVENTION EXHIBITORS

Visit the Exhibits daily, Monday through Thursday,
in the Exhibits Hall of the Chase.

Booth No.	Company
1-2	Sika Chemical Corporation
3	Water Seals, Inc.
4	Granco Steel Products Company
5-6	Maginniss Power Tool Company
7-8	Leschen Wire Rope Division, H. K. Porter Company, Inc.
9	Calcium Chloride Institute
10	Rex-Spanall, Inc.
13-14	Sonoco Products Company
15	The Prescon Corporation
19-20	Autolene Lubricants Company
25-26	American Steel & Wire Division, U.S. Steel Corporation
27-29	The Master Builders Company, Division of American-Marietta Company
33	Missouri Association Prestressed Concrete
41	Expanded Shale Clay & Slate Institute
42	Johns-Manville Corporation
47	Chicago Fly Ash Company Detroit Edison Company Walter N. Handy Company, Inc. McNeil Brothers, Inc. West Penn Power Company
48	Laclede Steel Company
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