

# 19th Fall Convention *PROGRAM*



**JUNG HOTEL**

October 24-28, 1966

*New Orleans, Louisiana*

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\* Address

**AMERICAN CONCRETE INSTITUTE**

**P. O. Box 4754**

**Detroit, Michigan 48219**

## ACI REGISTRATION \$10.00

Registration daily October 24-28 in the Tulane Room foyer. Registration fee payable at the convention registration desk covers all the general sessions, symposia, and the administrative and technical committee meetings listed in this program.

## NOTE TO ACI MEMBERS

Each ACI member will be given a packet of ballots at registration. It is the only set that will be issued you at this meeting. It is therefore important to protect them from loss and to bring them with you to the General Session at which matters will be presented for vote.

## NOTE FOR PROGRAM PARTICIPANTS

A program breakfast is planned for Thursday at 7:30 a.m. in Meeting Room #10. Breakfast is by invitation only.

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University of Illinois Breakfast . . . 7:30 a.m. Thursday in the Plantation Room. Tickets are available from alumni and the University of Illinois staff members.

\*

Cocktail Party "Icebreaker" . . . 6:30 p.m. Thursday in the Grand Ballroom. Admission \$2.00. Wear your registration badge.

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## NOTE FLOOR PLAN ON PAGE 5 OF YOUR PROGRAM

ACI Convention and Press Room in Meeting Room #6 on the Second Floor.

**MONDAY, October 24****9:00 a.m. to 12:00 Noon**

COMMITTEE	Meeting Room
315 Detailing Reinforced Concrete Structures	Meeting Room 1
318 Subcommittee 2 of Committee 318	Terrace Suite 3

**2:00 p.m. to 5:00 p.m.**

318 Standard Building Code	Meeting Room 1
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**7:00 p.m. to Midnite**

— Long Range Planning Committee	Terrace Suite 3
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**TUESDAY, October 25****9:00 a.m. to 12:00 Noon**

318 Subcommittee 9 of Committee 318	Terrace Suite 4
423 Prestressed Concrete	Terrace Suite 5
428 Limit Design	Meeting Room 1
441 Concrete Columns	Meeting Room 10
533 Subcommittee 1 of Committee 533	Terrace Suite 1
543 Concrete Piles	Meeting Room 9

**2:00 p.m. to 5:00 p.m.**

213 Lightweight Aggregate Concrete	Terrace Suite 1
318 Standard Building Code	Meeting Room 1
423 Prestressed Concrete	Terrace Suite 5
438 Torsion	Terrace Suite 2
441 Concrete Columns	Meeting Room 10
443 Concrete Bridge Design	Terrace Suite 4
543 Concrete Piles	Meeting Room 9

**7:00 p.m. to Midnite**

214 Evaluation of Results of Strength Tests of Concrete	Meeting Rooms 4 & 5
408 Bond Stress	Terrace Suite 4
421 Reinforced Concrete Slabs	Terrace Suite 1
428 Limit Design	Meeting Room 1
438 Torsion	Terrace Suite 2
516 High Pressure Steam Curing	Meeting Room 2
531 Concrete Masonry Structures	Terrace Suite 5
533 Precast Panels	Terrace Suite 3

**WEDNESDAY, October 26****9:00 a.m. to 12:00 Noon**

COMMITTEE	Meeting Room
— Committee on Model Analysis	Meeting Room 1
118 Use of Computers	Terrace Suite 1
201 Durability of Concrete	Terrace Suite 3
211 Proportioning Concrete Mixes	Meeting Room 9
223 Expansive Cement Concretes	Terrace Suite 4
308 Curing Concrete	Terrace Suite 2
316 Construction of Concrete Pavements and Concrete Bases	Meeting Room 3
334 Concrete Shell Design and Construction	Meeting Rooms 7 & 8
347 Subcommittees 2 & 3 of Committee 347	Tulane Room
408 Bond Stress	Meeting Room 10
423 Prestressed Concrete	Terrace Suite 5

**2:00 p.m. to 5:00 p.m.**

118 Use of Computers	Terrace Suite 1
212 Admixtures	Meeting Room 1
216 Fire Resistance and Fire Protection of Structures	Meeting Rooms 4 & 5
223 Expansive Cement Concretes	Terrace Suite 4
304 Measuring, Mixing, and Placing Concrete	Meeting Room 9
311 Inspection of Concrete	Meeting Room 10
340 Ultimate Strength Design Handbook	Meeting Rooms 7 & 8
347 Formwork for Concrete	Tulane Room
348 Structural Safety	Terrace Suite 2
349 Criteria for Nuclear Containment Vessels	Terrace Suite 5
443 Concrete Bridge Design	Terrace Suite 3

**7:00 p.m. to Midnite**

216 Fire Resistance and Protection of Structures	Meeting Rooms 4 & 5
301 Specifications for Structural Concrete	Terrace Suite 1
305 Hot Weather Concreting	Meeting Room 9
307 Reinforced Concrete Chimneys	Meeting Rooms 7 & 8
309 Consolidation of Concrete	Terrace Suite 3
332 Residential Concrete Work	Meeting Room 3
348 Structural Safety	Terrace Suite 2
349 Criteria for Nuclear Containment Vessels	Terrace Suite 5
503 Adhesives for Concrete	Terrace Suite 4
517 Low Pressure Steam Curing	Meeting Room 10
523 Insulating and Cellular Concretes	Meeting Room 1

THURSDAY, October 27

**FIRST GENERAL SESSION . . . Tulane Room**

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



**SESSION CHAIRMEN:**

Thomas A. Fromherz, co-chairman of the 19th ACI Fall Meeting, and consulting engineer, Fromherz Engineers, New Orleans, La.  
Cecil M. Shilstone, co-chairman, 19th ACI Fall Convention, and president, Shilstone Testing Laboratory, Inc., New Orleans, La.

**PRESENTATION OF NEW STANDARDS AND REVISIONS**

**Recommended Practice for Concrete Floor and Slab Construction** — by Committee 302, A. T. Hersey, chairman, and technical service director, Alpha Portland Cement Co., Easton, Pa.

**Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units** — by Committee 512, Joseph H. Appleton, vice-chairman, and professor of civil engineering, University of Alabama, Birmingham

**REPORTS ON PROJECTS ABROAD**

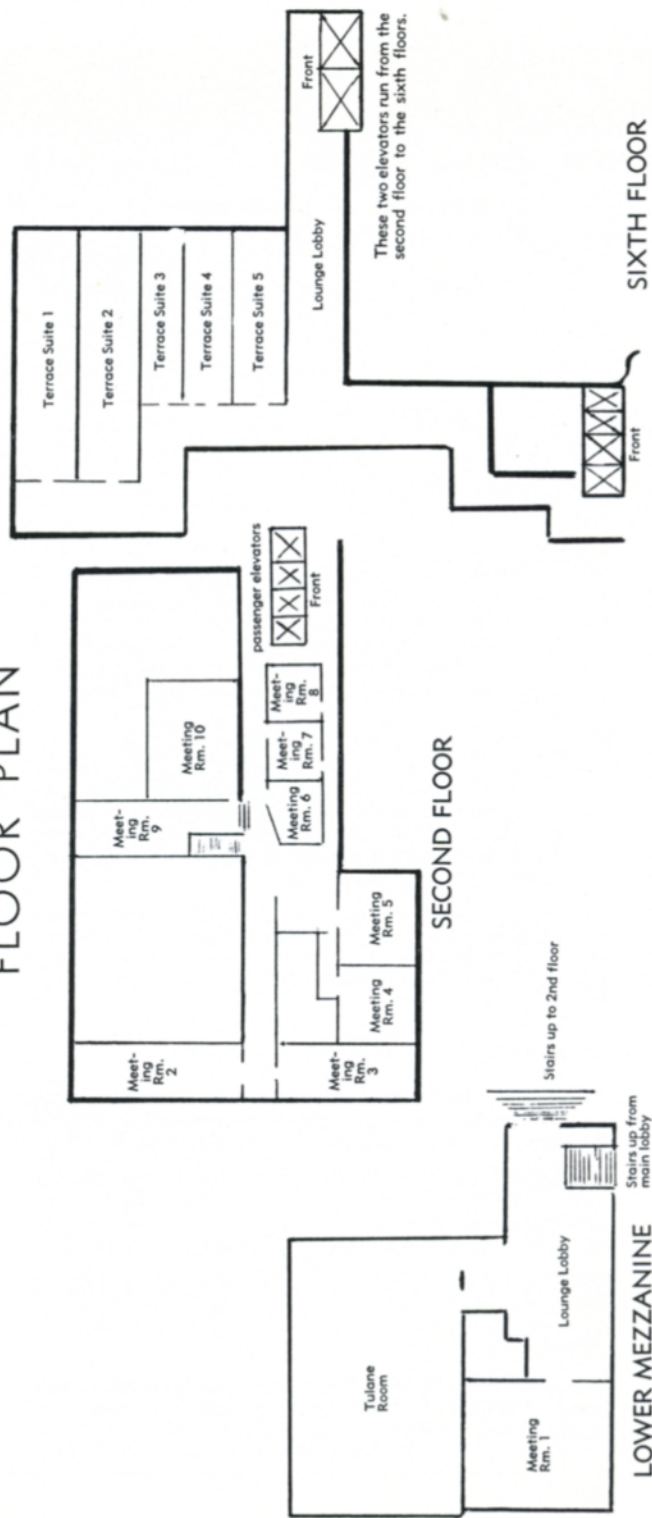
**A Look at Concrete in Europe** — Arthur R. Anderson, president of ACI, and vice-president ABAM Engineers, Consulting Engineers, Tacoma, Wash.

**Industrialized Precast Concrete Housing in Europe** — J. A. Hanson, manager, Products and Applications Development Section, Research and Development Division, Portland Cement Association, Skokie, Ill.

**ACI in Asia** — A. Allan Bates, ACI past president, and chief, Building Research Division, Institute for Applied Technology, National Bureau of Standards, Washington, D.C.

**Current Activities by European Concrete Organizations** — William A. Maples, executive secretary of ACI, Detroit, Mich.

**FLOOR PLAN**



## CONCURRENT SESSIONS



THURSDAY, October 27

2:00 p.m. to 5:30 p.m.

Note time designations for each topic

### SYMPOSIUM ON MECHANICAL FASTENERS FOR CONCRETE . . . Tulane Room

(Jointly Sponsored by ACI and Building Research Institute)

CHAIRMAN: E. George Stern, chairman, BRI  
Section on Fastening Materials,  
Virginia Polytechnic Institute,  
Blacksburg

- 2:00 **Opening Remarks** — E. George Stern, session chairman
- 2:05 **The Importance of Proper Anchoring of and to Concrete**—Edward Cohen, associate partner, Ammann and Whitney, Consulting Engineers, New York, N.Y.
- 2:30 **The Anchorage of Residential and Other Light-Frame Buildings to Concrete in Storm-Resistant Construction** — E. George Stern, Earle B. Norris research professor of wood construction, Virginia Polytechnic Institute, Blacksburg
- 3:00 **Fasteners for Steel and Concrete Composite Construction** — Robert C. Singleton, vice-president of engineering, Gregory Industries, Lorain, Ohio
- 3:25 BREAK
- 3:45 **Past Performance of Certain Fasteners and Required Research and Development Work** — James E. Francis, chief of Specifications Branch, Public Buildings Service, General Services Administration, Washington, D.C.
- 4:05 **Explosive Actuated Fastening Tools for Use in the Concrete Industry**—Rowland J. Kopf, technical sales manager, Ramset Division, Olin Mathieson Chemical Corp., New Haven, Conn.
- 4:35 **The Use of Shallow Anchoring Devices in the Montreal Subway** — Raymond Perreault, research engineer, City of Montreal Control and Research Laboratory, Montreal, Quebec



THURSDAY, October 27

2:00 p.m. to 5:30 p.m.

Note time designations for each topic

### SYMPOSIUM ON BRIDGE DESIGN . . . Terrace Suites 1,2,3,4

(ACI Committee 443)

CHAIRMAN: Shu-t'ien Li, chairman of  
Committee 443, and professor  
of civil engineering, South  
Dakota School of Mines and  
Technology, Rapid City

- 2:05 **Past and Future in the Design and Construction of Concrete Bridges** — Leonidas T. Delyannis, chief bridge engineer, David Volkert & Associates, Washington, D. C.
- 2:35 **Design of Long Span Concrete Bridges with Special Reference to Prestressing, Precasting, Erection, Structural Behavior, and Economics** —T. Y. Lin, professor of civil engineering, Division of Structural Engineering and Structural Mechanics, University of California, Berkeley; and Ben C. Gerwick, president, Ben C. Gerwick, Inc., San Francisco, Calif.
- 3:05 **Continuous Precast, Prestressed Concrete Bridge Stringers** — F. K. Jacobsen, Bureau of Design, Illinois Division of Highways, Springfield
- 3:35 BREAK
- 3:55 **Reinforced Concrete Bridges: Working Stress vs. Ultimate Strength Design** — Robert L. Nickerson, bridge engineer, U.S. Bureau of Public Roads, Washington, D.C.
- 4:25 **Effect of Variable Parameters on Dead Load Deflection of Reinforced Concrete Slab Bridges** —James E. Roberts, associate bridge engineer, California Division of Highways, Sacramento

## CONCURRENT



FRIDAY, October 28  
9:00 a.m. to 12:00 Noon

### SYMPOSIUM ON MECHANICAL FASTENERS FOR CONCRETE

(Concluding Session) . . . Tulane Room

CHAIRMAN: E. George Stern, chairman, BRI  
Section on Fastening Materials,  
Virginia Polytechnic Institute,  
Blacksburg

- 9:00 **Connections for Precast Concrete Wall Panels**  
—Victor F. Leabu, chief structural engineer,  
Giffels & Rossetti, Architects-Engineers, De-  
troit, Mich.
- 9:20 **The Structural Anchorage of Precast, Pre-  
stressed Concrete** — Thomas A. Hanson,  
Thomas A. Hanson & Associates, Structural  
Engineers, Richmond Va.
- 9:45 **Pertinent Examples of Connections for Pre-  
cast Concrete**—Paul H. Kaar, senior develop-  
ment engineer, Structural Development Sec-  
tion, Research and Development Division,  
Portland Cement Association, Skokie, Ill.
- 10:10 **Industrial Research on Connections for Pre-  
cast and In-Situ Concrete** — Peter D. Cour-  
tois, production engineer, Superior Concrete  
Accessories, Inc., Franklin Park, Ill.
- 10:35 BREAK
- 10:55 **Anchorage of Engineered Structures to Con-  
crete and Other Foundations**—John J. White,  
associate, and chief specifications engineer,  
Parsons, Brinckerhoff, Quade and Douglas,  
Engineers, New York, N.Y.
- 11:15 **Anchorage of Engineered Structures:  
Steel Anchors**—James H. Scott, metallurgical  
service engineer, Bethlehem Steel Corpora-  
tion, Lebanon, Pa.
- 11:35 **Post-Tensioned Anchorages for Engineered  
Structures** — E. Schechter, president; and  
Mario Suarez, vice-president of engineering,  
Stressteel Corporation, Wilkes-Barre, Pa.
- 11:55 **Closing Remarks**—Raymond J. Schutz, chair-  
man, joint ACI-BRI program committee, and  
vice-president and technical director, Sika  
Chemical Corporation, Passaic, N.J.

## SESSIONS



FRIDAY, October 28  
9:00 a.m. to 12:00 noon

### APPROACHES TO ARCHITECTURAL CONCRETE - Terrace Suites 1,2,3,4

- 9:00 CHAIRMAN: James M. Shilstone, president,  
Architectural Concrete Consul-  
tants, Inc., Houston, Texas
- 9:10 **Architectural Concrete: Architectural Consid-  
erations** — Gyo Obata, partner, Hellmuth,  
Obata, and Kassabaum, St. Louis, Mo.
- 9:40 **Architectural Concrete: Structural Implica-  
tions**—Matthys P. Levy, partner, Paul Weid-  
linger, New York, N.Y.
- 10:10 **Architectural Concrete: Planning Require-  
ments** — Larry C. Washburn, vice-president  
and director Western Region, Architectural  
Concrete Consultants, Inc., Oakland, Calif.
- 10:40 BREAK
- 11:00 **Architectural Concrete: Contractor's Execu-  
tion**—Henry C. Beck, president; and E. Ver-  
non Brown, project manager, Henry C. Beck  
Company, Dallas, Texas
- 11:30 **Architectural Concrete: Finishing Techniques**  
—Paul A. Brown, head of Architectural Con-  
crete Finishes and Coatings Department,  
William S. Alt and Son, Chicago, Ill.



FRIDAY, October 28

2:00 p.m. to 5:00 p.m.

**EPOXIES WITH CONCRETE . Tulane Room**

(ACI Committee 503)

- 2:00 CHAIRMAN: James D. Kriegh, chairman, Committee 503, and associate professor of civil engineering, College of Engineering, University of Arizona, Tucson
- 2:08 **Epoxy Resins** — G. M. Scales, manager, Marketing-Building and Construction Applications, Ciba Products Company, Summit, N.J.
- 2:20 **Epoxy Resin Adhesives for Bonding Concrete to Concrete**—Raymond J. Schutz, vice-president and technical director, Sika Chemical Corporation, Passaic, N.J.
- 2:42 **Epoxy Surface Treatments for Portland Cement Concrete Pavements**—William R. McConnell, Asphalt Sales Department, Shell Oil Company, New York, N.Y.
- 3:04 BREAK
- 3:24 **Patching and Grouting of Concrete with Epoxy Systems** — Leo V. Corbett, Market Development Specialist, formerly with Celanese Resins Division, Celanese Coatings Company, Louisville, Ky.  
(This paper, authored by Leo V. Corbett, will be presented by Francis B. Alvey, product manager, Non-Coatings, Celanese Coatings Company, Louisville, Ky.)
- 3:46 **Application Specifications**—Belman U. Duvall, supervisory civil engineer, chief, Chemical and Thermal Effects Branch, Concrete Division, U.S. Army Engineer Division, Ohio River, Cincinnati, Ohio; and George N. Harding, assistant chief, Concrete Branch, Engineering Division, Civil Works, Corps of Engineers, Department of the Army, Washington, D.C.
- 4:08 **Question and Answer Period** — Moderator: Gene M. Nordby, dean, College of Engineering, University of Oklahoma, Norman  
**Panel Members:**  
G. M. Scales, R. J. Schutz, W. R. McConnell, L. V. Corbett, B. U. Duvall, G. H. Whitesides, E. D. Smith

COMMITTEE OFFICERS

Thomas A. Fromherz, Co-Chairman, 19th ACI Fall Convention, and partner, Fromherz Engineers, Consulting Engineers, New Orleans

Cecil M. Shilstone, Co-Chairman, 19th ACI Fall Convention, and president, Shilstone Testing Laboratory, Inc., New Orleans

David A. Hunter, Jr., Entertainment Chairman, and vice-president, de Lauréal Engineers, Inc. New Orleans

Robert H. Kuhlman, Publicity Chairman, and district engineer, Portland Cement Association, Louisiana district

HOSTESS COMMITTEE

Mrs. Thomas A. Fromherz, Co-Chairman

Mrs. Cecil M. Shilstone, Co-Chairman

Mrs. David A. Hunter

## LADIES PROGRAM

### 19th ACI FALL CONVENTION

NEW ORLEANS, LOUISIANA

OCTOBER 24 - 28, 1966

**HOSPITALITY ROOM . . . Pavilion Room**  
(Ground Floor)

**Tuesday, October 25** — Hospitality Room  
Open 10:00 A.M. to 12:00 Noon

**Wednesday, October 26** — Hospitality Room  
Open 9:30 A.M. to 4:00 P.M.

"Breakfast at Brennan's" \$5.50  
(Meet in Brennan's Restaurant Patio  
10:30 A.M.)

Followed by optional tour of a few  
historical French Quarter buildings

**Thursday, October 27** — Hospitality Room  
Open 9:30 A.M. to 12:00 Noon  
12:45 P.M. — Assembly for bus tour at  
Canal Street Entrance to Hotel

1:00 P.M. to 4:00 P.M. — Bus tour of city  
including coffee party at the home of  
Mrs. Cecil Shilstone — \$4.00

**Friday, October 28** — Hospitality Room  
Open 9:30 A.M. to 12:00 Noon  
12:00 Noon — Luncheon at Arnaud's Res-  
taurant followed by guided walking  
tour of the Vieux Carre — \$5.00

### HOSTESS COMMITTEE

Mrs. Cecil M. Shilstone, Co-Chairman (Frances)  
Mrs. Thomas A. Fromherz, Co-Chairman (Carroll)  
Mrs. David A. Hunter (Patricia)

NOTES



## NOTES