

**PROGRAM**



**1975**

**ANNUAL  
CONVENTION**

**AMERICAN  
CONCRETE  
INSTITUTE**

**BOSTON**

APRIL 6 - 11, 1975  
SHERATON - BOSTON



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P.O. Box 19150  
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# PROGRAM 71st ANNUAL CONVENTION

April 6-11, 1975  
Boston, Massachusetts

Registration fees cover attendance at all ACI technical and educational committee meetings, general session, and symposia. They do **not** cover the educational seminars on Tuesday for which there is a charge of \$15.00 each.

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## SCHEDULE

### SUNDAY, APRIL 6

10:30 a.m. - 6:00 p.m.  
Administrative committee meetings

### MONDAY, APRIL 7

8:30 a.m. - 9:30 p.m.  
Technical, educational, and administrative committee meetings

### TUESDAY, APRIL 8

9:00 a.m. - 12:30 p.m.  
Educational Seminar on Concrete Piles  
8:30 a.m. - 9:30 p.m.  
Technical, educational, and administrative committee meetings  
2:00 p.m. - 6:00 p.m.  
Educational Seminar on Slab Design

### WEDNESDAY, APRIL 9

9:30 a.m. - 12:00 noon  
General Session  
2:00 p.m. - 5:00 p.m.  
Progressive Collapse (1st of 2 sessions)  
2:00 p.m. - 5:00 p.m.  
Offshore Construction (Committee 357)  
2:00 p.m. - 5:00 p.m.  
Chapter Forum  
2:00 p.m. - 6:00 p.m.  
Technical and educational committee meetings  
6:30 p.m. - 8:00 p.m.  
Concrete Mixer

### THURSDAY, APRIL 10

8:30 a.m. - 9:30 p.m.  
Technical, educational, and administrative committee meetings  
9:00 a.m. - 12:00 noon  
Progressive Collapse (2nd of 2 sessions)  
9:00 a.m. - 12:00 noon  
Restoration of Historic Concrete Structures  
(1st of 3 sessions)  
12:15 p.m.  
Awards Luncheon  
2:30 p.m. - 5:30 p.m.  
Safety of Reinforced Concrete Structures  
(Committee 348) (1st of 2 sessions)  
2:30 p.m. - 5:30 p.m.  
Restoration of Historic Concrete Structures (2nd session)  
7:30 p.m. - 9:30 p.m.  
Industry Advancement Forum  
7:30 p.m. - 10:30 p.m.  
Restoration of Historic Concrete Structures (3rd session)

### FRIDAY, APRIL 11

8:30 a.m. - 12:30 p.m.  
Technical and educational committee meetings  
9:00 a.m. - 12:00 noon  
Safety of Reinforced Concrete Structures  
(2nd of 2 sessions)  
9:00 a.m. - 12:00 noon  
Research in Plain and Reinforced Concrete  
(Committee 115)



## Special Events

**Publications Display** . . . in the Constitution Room Foyer all week. See the latest ACI publications now available. Orders are taken at the Registration Desk which is also in the Foyer.

**Education at the Convention** . . . Two half-day programs will be presented on Tuesday, April 8. Each will require a separate registration fee of \$15.00, payable at the ACI Registration Desk. Since enrollment is limited, early registration is advised.

**Writing Specifications for Concrete Piles** . . . 9:00 a.m. - 12:30 p.m. Contractors, concrete constructors, inspectors, and specifiers will find this seminar useful.

**Slab Design and Construction Workshop** . . . 2:00 p.m. - 6:00 p.m. Similar to the workshop held in Atlanta at the 1974 Fall Convention, this program is aimed at designers and engineers who wish to learn slab design.

**Chapter Forum** . . . Wednesday, 2:00 p.m. - 6:00 p.m., in the Gardner. An informal roundtable on chapter activities and programs.

**"Concrete Mixer"** . . . Wednesday, April 9. As an added highlight to this traditional affair, it will be held at the New England Aquarium. For kicks, try looking a shark in the eye-ball while drinking your highball! We will meet in the Main Lobby of the hotel between 5:45 p.m. - 6:15 p.m. Please use the blue or yellow ticket for boarding buses and wear your ACI badge for identification. Buses will return to the hotel starting at 7:45 p.m.

**Awards Luncheon and New Officer Installation** . . . Thursday, 12:15 p.m., in the Commonwealth. Good food and drink and multi-media presentations combined into a pleasing format. Get your ticket early!

**Industry Advancement Forum** . . . Thursday, 7:30 p.m., in the Hampton. A chance to hear about and express your views on current insurance rating systems on concrete structures.

**Tour of Restored and Historical Structures in the Boston Area** . . . This tour will be previewed at the General Session on Wednesday. Maps will be provided.

### Breakfasts (by invitation only):

Tuesday, April 8, 7:00 a.m.  
Breakfast for newly appointed chairmen of technical committees. Gardner Room.

Wednesday, April 9, 7:00 a.m.  
Breakfast for program participants in the General Session, session on Offshore Concrete Structures, and both sessions of the Symposium on Progressive Collapse. Gardner Room.

Thursday, April 10, 7:00 a.m.  
Breakfast for program participants in all three sessions on Restoration of Historic Concrete Structures and both sessions on Safety of Reinforced Concrete Structures. Gardner Room.

Friday, April 11, 7:00 a.m.  
Breakfast for program participants in the session on Research on Plain and Reinforced Concrete. Gardner Room.

## COMMITTEE MEETINGS

Be sure to check the bulletin board for last minute changes or added meetings.

COMMITTEE	Meeting Room
<b>SUNDAY, APRIL 6</b>	<b>10:30 a.m. - 12:30 p.m.</b>
---- <b>Institute and Industry Advancement Committee</b>	Board
---- <b>Technical Activities Committee</b>	Exeter
	<b>2:00 p.m. - 6:00 p.m.</b>
<b>MONDAY, APRIL 7</b>	<b>8:30 a.m. - 10:30 a.m.</b>
---- <b>Technical Activities Committee</b>	Exeter A
---- <b>General Activities Committee</b>	Dalton A
<b>117</b> Tolerances (starts 9:00 a.m.)	Berkeley A
<b>301</b> Specifications for Structural Concrete	Independence East
<b>303</b> Architectural Concrete	Fairfax A
<b>311</b> Inspection of Concrete	Independence West
<b>313</b> Concrete Bins and Silos	Kent
<b>315</b> Detailing Reinforced Concrete Structures	Hampton B
<b>325</b> Concrete Pavements	Gardner A
<b>351</b> Foundations for Equipment and Machinery	Independence Center
<b>356</b> Industrialized Concrete Construction	Dalton B
<b>408</b> Bond Stress	Fairfax B
<b>423</b> Prestressed Concrete	Clarendon B
<b>443</b> Concrete Bridge Design	Exeter B
<b>516</b> High Pressure Steam Curing	Gardner B
<b>531</b> Masonry Structures	Hampton A
<b>546</b> Repair of Concrete	Board
<b>547</b> Refractory Concrete	Jefferson
	<b>10:30 a.m. - 12:30 p.m.</b>
---- <b>Technical Activities Committee</b>	Exeter A
---- <b>General Activities Committee</b>	Dalton A
<b>301</b> Specifications for Structural Concrete	Independence East
<b>303</b> Architectural Concrete	Fairfax A
<b>311</b> Inspection of Concrete	Independence West
<b>313</b> Concrete Bins and Silos	Kent
<b>315</b> Detailing Reinforced Concrete Structures	Hampton B
<b>325</b> Concrete Pavements	Gardner A
<b>351</b> Subcommittee 3, Static Equipment	Independence Center
<b>356</b> Industrialized Concrete Construction	Dalton B
<b>408</b> Bond Stress	Fairfax B
<b>423</b> Prestressed Concrete	Clarendon B
<b>437</b> Strength Evaluation of Existing Concrete Structures	Andover
<b>441</b> Reinforced Concrete Columns	Berkeley A
<b>443</b> Concrete Bridge Design	Exeter B
<b>516</b> High Pressure Steam Curing	Gardner B
<b>531</b> Masonry Structures	Hampton A
<b>546</b> Repair of Concrete	Board
<b>547</b> Refractory Concrete	Jefferson
	<b>2:00 p.m. - 4:00 p.m.</b>
---- <b>Educational Activities Committee</b>	Clarendon A
---- <b>Chapter Activities Committee</b>	Dalton A
---- <b>Specifications Review Committee</b>	Berkeley B
---- <b>TAC ad hoc Committee on Design of Slabs on Grade</b>	Exeter A
<b>223</b> Expansive Cement Concrete	Independence East
<b>302</b> Concrete Floor Finishes	Gardner A
<b>303</b> Architectural Concrete	Fairfax A
<b>305</b> Hot Weather Concreting	Conference
<b>311</b> Inspection of Concrete	Independence West



## COMMITTEE MEETINGS

313	Concrete Bins and Silos	Kent
318	<b>Subcommittee D</b> , Details and Development of Reinforcement	Hampton B
318	<b>Subcommittee F</b> , Serviceability	Andover
318	<b>Subcommittee H</b> , Shear and Torsion (with Committee 426)	Clarendon B
318	<b>Subcommittee L</b> , Prestressed Concrete	Room 555
347	Formwork for Concrete	Gardner B
350	Sanitary Engineering Structures	Berkeley A
351	<b>Subcommittee I</b> , Impact Machinery	Independence Center
356	Industrialized Concrete Construction	Dalton B
426	Shear and Diagonal Tension (with Subcommittee H of Committee 318)	Clarendon B
443	Concrete Bridge Design	Exeter B
531	Masonry Structures	Hampton A
547	Refractory Concrete	Jefferson
E-601	Seminars and Workshops	Fairfax B
<b>4:00 p.m. - 6:00 p.m.</b>		
---	<b>Educational Activities Committee</b>	Clarendon A
---	<b>Specifications Review Committee</b>	Berkeley B
---	<b>TAC ad hoc Committee on Design of Slabs on Grade</b>	Exeter A
214	Evaluation of Results of Tests Used to Determine Strength of Concrete	Dalton A
223	Expansive Cement Concrete	Independence East
305	Hot Weather Concreting	Conference
313	Concrete Bins and Silos	Kent
318	<b>Subcommittee D</b> , Details and Development of Reinforcement	Hampton B
318	<b>Subcommittee F</b> , Serviceability	Andover
318	<b>ad hoc Committee</b> on Minimum Eccentricities	Gardner A
347	Formwork for Concrete	Gardner B
350	Sanitary Engineering Structures	Berkeley A
351	<b>Subcommittee 4</b> (Foundations for Equipment and Machinery)	Independence Center
356	Industrialized Concrete Construction	Dalton B
358	Concrete Guideways	Clarendon B
444	Models of Concrete Structures	Independence West
512	Precast Structural Concrete	Fairfax A
531	Masonry Structures	Hampton A
547	Refractory Concrete	Jefferson
E-601	Seminars and Workshops	Fairfax B
<b>7:30 p.m. - 9:30 p.m.</b>		
318	<b>Task Group</b> on Progressive Collapse	Exeter B
<b>TUESDAY, APRIL 8 8:30 a.m. - 10:30 a.m.</b>		
207	Mass Concrete	Dalton A
211	<b>Subcommittee 7</b> , Proportioning Mass Concrete	Exeter A
213	Lightweight Aggregates and Lightweight Aggregate Concrete	Jefferson
222	Corrosion of Metals in Concrete	Andover
309	Consolidation of Concrete	Exeter B
313	Concrete Bins and Silos	Kent
318	<b>Subcommittee E</b> , Analysis and Strength Requirements	Fairfax B
318	<b>Subcommittee K</b> , Precast and Composite Concrete	Conference
318	<b>Subcommittee N</b> , Earthquake Resistant Design Requirements	Berkeley B
340	Strength Design Handbook	Dalton B
348	Structural Safety	Clarendon B

## COMMITTEE MEETINGS

504	Joint Sealants	Fairfax A
515	Coatings for Concrete	Berkeley A
517	Accelerated Curing of Concrete at Atmospheric Pressure	Hampton B
531	Masonry Structures	Hampton A
533	Precast Panels	Board
<b>9:00 a.m.-12:30 p.m.</b>		
<b>WRITING SPECIFICATIONS FOR CONCRETE PILES</b> (Sponsored by ACI Educational Activities Committee) See Page 11		
<b>9:00 a.m.-12:15 p.m.</b>		
---	<b>Board of Direction</b>	Gardner
<b>10:30 a.m.-12:30 p.m.</b>		
211	Proportioning Concrete Mixes	Exeter A
213	Lightweight Aggregates and Lightweight Aggregate Concrete	Jefferson
215	Fatigue of Concrete	Berkeley B
224	Cracking	Clarendon A
309	Consolidation of Concrete	Exeter B
313	Concrete Bins and Silos	Kent
318	<b>Subcommittee B</b> , Concrete Quality, Mixing, and Placement	Dalton A
318	<b>Subcommittee E</b> , Analysis and Strength Requirements	Fairfax B
318	<b>Task Group</b> on Plain Concrete	Andover
340	Strength Design Handbook	Dalton B
348	Structural Safety	Clarendon B
438	Torsion	Conference
515	Coatings for Concrete	Berkeley A
517	Accelerated Curing of Concrete at Atmospheric Pressure	Hampton B
531	Masonry Structures	Hampton A
533	Precast Panels	Board
---	CRSI-Associated Reinforcing Bar Producers Technical Committee—Joint ASTM/ACI Advisers	CRSI's Hospitality suite
<b>2:00 p.m.-4:00 p.m.</b>		
---	<b>Board of Direction</b>	Gardner
---	<b>Board Committee on International Activities</b>	Exeter A
116	Nomenclature	Fairfax B
201	Durability of Concrete	Hampton A
304	Measuring, Mixing, Transporting, and Placing Concrete	Exeter B
306	Cold Weather Concreting	Dalton A
313	Concrete Bins and Silos	Kent
318	<b>Subcommittee A</b> , General Building Code	Berkeley B
318	<b>Task Group</b> on Systems Building	Conference
345	Concrete Bridge Construction and Maintenance	Board
355	Anchorage to Concrete	Andover
357	Offshore Concrete Structures	Jefferson
506	Shotcreting	Dalton B
515	Coatings for Concrete	Berkeley A
517	Accelerated Curing of Concrete at Atmospheric Pressure	Hampton B
E-801	Student Concrete Projects	Clarendon B
<b>2:00 p.m.-6:00 p.m.</b>		
<b>SLAB DESIGN AND CONSTRUCTION WORKSHOP</b> (Sponsored by ACI Educational Activities Committee) See Page 12		
<b>4:00 p.m.-6:00 p.m.</b>		
---	<b>Board of Direction</b>	Gardner



## COMMITTEE MEETINGS

	<b>Activities</b>	Exeter A
116	Nomenclature	Fairfax B
120	History of Concrete	Dalton A
201	Durability of Concrete	Hampton A
212	Admixtures	Exeter B
313	Concrete Bins and Silos	Kent
---	<b>Board Committee on International</b>	
318	<b>Subcommittee A</b> , General Building Code	Berkeley B
318	<b>Subcommittee C</b> , Formwork, Embedded Pipes, and Construction Joints	Conference
318	<b>Subcommittee I</b> , Slab Systems	Board
355	Anchorage to Concrete	Andover
357	Offshore Concrete Structures	Jefferson
435	Deflection of Concrete Building Structures	Hampton B
439	High Strength Reinforcement in Concrete	Fairfax A
506	Shotcreting	Dalton B
515	Coatings for Concrete	Berkeley A
E-801	Student Concrete Projects	Clarendon B

7:30 p.m.-9:30 p.m.

308	Curing Concrete	Berkeley A
428	Limit Design	Clarendon B

**WEDNESDAY, APRIL 9** 9:30 a.m.-12:00 noon

**GENERAL SESSION** See Page 13 Ballroom

2:00 p.m.-4:00 p.m.

---	<b>Standards Board</b>	Jefferson
---	<b>Convention Committee</b>	Kent
118	Use of Computers	Berkeley A

209	<b>Subcommittee II</b> (Creep and Shrinkage in Concrete)	Andover
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318	Standard Building Code	Fairfax
332	Residential Concrete Work	Hampton A
334	Concrete Shell Design and Construction	Hampton B
344	Circular Prestressed Concrete Structures	Berkeley B
349	Concrete Nuclear Structures	Clarendon
349	Working Group	Dalton A
349	Working Group	Dalton B
548	Polymers in Concrete	Exeter
E-703	Enchiridia—Construction	Conference

2:00 p.m.-5:00 p.m.

**SYMPOSIUM ON PROGRESSIVE COLLAPSE**

(Sponsored by ACI Technical Activities Committee) Independence  
(first session) See Page 19

**OFFSHORE CONCRETE STRUCTURES** (Sponsored by ACI Committee 357) See Page 18 Ballroom

2:00 p.m.-6:00 p.m.

**CHAPTER FORUM** See Page 18 Gardner

4:00 p.m.-6:00 p.m.

---	<b>Convention Committee</b>	Kent
118	Use of Computers	Berkeley A
120	History of Concrete	Jefferson

209	<b>Subcommittee III</b> (Creep and Shrinkage in Concrete)	Andover
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318	Standard Building Code	Fairfax
344	Circular Prestressed Concrete Structures	Berkeley B
349	Concrete Nuclear Structures	Clarendon
349	Working Group	Dalton A
349	Working Group	Dalton B
523	Insulating and Cellular Concretes	Hampton B
544	Fiber Reinforced Concrete	Hampton A
E-702	Enchiridia—Designing Concrete Structures	Exeter
E-703	Enchiridia—Construction	Conference

## COMMITTEE MEETINGS

**THURSDAY, APRIL 10** 8:30 a.m.-10:30 a.m.

114	Research and Development	Dalton
118	Use of Computers	Berkeley A
209	Creep and Shrinkage in Concrete	Exeter
307	Reinforced Concrete Chimneys	Clarendon
318	Standard Building Code	Fairfax
336	Combined Footings and Pier Foundations	Conference
344	Circular Prestressed Concrete Structures	Berkeley B
503	Adhesives for Concrete	Jefferson
549	Ferrocement	Hampton
E-701	Enchiridia—Materials for Concrete Construction	Kent

9:00 a.m.-12:00 noon

### SYMPOSIUM ON PROGRESSIVE COLLAPSE

(second session) See Page 19 Independence

**RESTORATION OF HISTORIC CONCRETE STRUCTURES** (Sponsored by American Concrete Institute (Committee 120); Association for Preservation Technology, National Park Service; and National Trust for Historic Preservation) Ballroom  
(first session) See Page 20

10:30 a.m.-12:30 p.m.

103	Monographs	Dalton
118	Use of Computers	Berkeley A

216	Fire Resistance and Fire Protection of Structures	Andover
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307	Reinforced Concrete Chimneys	Clarendon
318	Standard Building Code	Fairfax

336	Combined Footings and Pier Foundations	Conference
344	Circular Prestressed Concrete Structures	Berkeley B

442	Response of Buildings to Lateral Forces	Exeter
503	Adhesives for Concrete	Jefferson

544	Fiber Reinforced Concrete	Hampton
E-701	Enchiridia—Materials for Concrete Construction	Kent

2:30 p.m.-4:30 p.m.

---	<b>New Board of Direction</b>	Gardner
---	<b>TAC ad hoc Committee on Progressive Collapse</b>	Andover

307	Reinforced Concrete Chimneys	Clarendon
318	Standard Building Code	Fairfax

349	Concrete Nuclear Structures	Exeter
349	Working Group	Dalton A

349	Working Group	Dalton B
423	Prestressed Concrete	Jefferson

E-701	Enchiridia—Materials for Concrete Construction	Kent
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2:30 p.m.-5:30 p.m.

### SAFETY OF REINFORCED CONCRETE

**STRUCTURES** (Sponsored by ACI Committee 348) (first session) See Page 23 Independence

**RESTORATION OF HISTORIC CONCRETE STRUCTURES** (second session) See Page 21 Ballroom

4:30 p.m.-6:30 p.m.

---	<b>New Board of Direction</b>	Gardner
318	Standard Building Code	Fairfax

349	Concrete Nuclear Structures	Exeter
349	Working Group	Dalton A

349	Working Group	Dalton B
423	Prestressed Concrete	Jefferson

E-701	Enchiridia—Materials for Concrete Construction	Kent
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7:30 p.m.-9:30 p.m.



## INDUSTRY ADVANCEMENT FORUM

See Page 23

Hampton

### COMMITTEE

Hampton

318 Standard Building Code

Fairfax

7:30 p.m.-10:30 p.m.

### RESTORATION OF HISTORIC CONCRETE

STRUCTURES (third session) See Page 21 Ballroom

FRIDAY, APRIL 11

8:30 a.m.-10:30 a.m.

336 Combined Footings and Pier Foundations Conference

9:00 a.m.-12:00 noon

### SAFETY OF REINFORCED CONCRETE

STRUCTURES (second session)

See Page 24

Independence

### RESEARCH ON PLAIN AND REINFORCED

CONCRETE (Sponsored by ACI Committee 115)

See Page 24

Ballroom

## ACI EDUCATIONAL SEMINARS SCHEDULE FOR SPRING, 1975

April 22, 23

Testing, Keeping Pace with Construction

Southfield, Michigan

April 29, 30

Concrete Piles

New Orleans, Louisiana

May 1, 2

Concrete for Nuclear Power Plant Construction

Chicago, Illinois

June 11, 12

Concrete for Nuclear Power Plant Construction

Cincinnati, Ohio

For more information on any of these programs, contact the Education Department, American Concrete Institute, P. O. Box 19150, Detroit, Michigan 48219.

## ACI FUTURE CONVENTIONS

1975—November 1 - 7

Fall Convention

Vancouver, D. C., Canada

1975—March 28 - April 2

Annual Convention

Philadelphia, Pennsylvania

1976—October 24 - 29

Fall Convention

Mexico City, Mexico

(Co-Sponsor: Instituto Mexicano del  
Cemento Y del Concreto, A. C.)

1977—March 27 - April 1

Annual Convention

San Diego, California

1977—October 16 - 21 (tentative)

Fall Convention

New Orleans, Louisiana

1978—April 9 - 14

Annual Convention

Toronto, Ontario, Canada

1978—October 29 - November 3 (tentative)

Fall Convention

Houston, Texas

Tuesday, April 8

9:00 a.m. - 12:30 p.m.

## WRITING SPECIFICATIONS FOR CONCRETE PILES

sponsored by ACI

Educational Activities Committee

*Independence*

This program will stress the specifications for installing concrete piles where indicator piles, driving criteria, load tests, and other site conditions prevail. Inspection specifications will also be discussed, with emphasis on who does the inspecting, the inspection equipment, and who pays for it.

Contractors, concrete constructors, inspectors, and specifiers will find this seminar useful.

Enrollment is limited so early registration is advised. **Registration fee is \$15.00.**

### Instructors:

Don Payne, president, Marine Concrete Structures, Inc.,  
Metairie, Louisiana

Ross Morrison, project manager, Woodward McNeill &  
Associates, Orange County, California

9:00 a.m.-9:10 a.m.

### Introduction:

Emery Farkas, chairman, ACI Educational Activities Committee,  
and general manager, Rock Processing Chemicals, Construction  
Products Division, W. R. Grace & Company, Cambridge, Mas-  
sachusetts

9:10 a.m.-9:30 a.m.

### Scope and Description of Work

Bid Documents: Plans; Specifications; Contract Forms;  
Foundation Report

9:30 a.m.-10:45 a.m.

### Pile Types and Materials

Precast, Prestressed Concrete Piles: Specifications; Shop  
Drawings; Calculations; Mix Design

Concrete Strength

Reinforcement

Connections and Caps

10:45 a.m.-11:00 a.m.

### Break for Refreshments

11:00 a.m.-11:30 a.m.

### Cast-in-Place Concrete Piles

Material Specifications

Mix Design

Inspection Required

Reinforcements

11:30 a.m.-12:00 noon

### Inspection

Who does it?

Who pays for it?

Inspection Procedures

Inspection Equipment

12:00 noon-12:30 p.m.

### Questions, Discussion, and Summary



Tuesday, April 8

2:00 p.m.-6:00 p.m.

## SLAB DESIGN AND CONSTRUCTION WORKSHOP

sponsored by ACI Educational Activities Committee and Committee E-702, Design Concrete Structures

*Independence*

Participants will increase their understanding of slab behavior and the ACI concept of two-way slabs. Participants will be more proficient in the calculation process, details of steel selection, and slab construction.

Enrollment is limited so early registration is advised. **Registration fee is \$15.00.**

### Instructors:

Boyd C. Ringo, professor of civil engineering, University of Cincinnati, Cincinnati, Ohio

Emory L. Kemp, professor of civil engineering, West Virginia University, Morgantown, West Virginia

William J. Wilhelm, acting chairman, Department of Civil Engineering, West Virginia University, Morgantown, West Virginia

2:00 p.m.-2:10 p.m.

### Introduction

Emory Farkas, chairman, ACI Educational Activities Committee, and general manager, Rock Processing Chemicals, Construction Products Division, W. R. Grace & Company, Cambridge, Massachusetts

2:10 p.m.-2:50 p.m.

### Two-Way Reinforced Concrete Slab Analysis; Behavior, Objective and General Aspects

2:50 p.m.-3:30 p.m.

### Direct Design Method of ACI 318-71, Building Code; Analysis and Design

3:30 p.m.-3:45 p.m.

### Break for Refreshments

3:45 p.m.-4:20 p.m.

### The Equivalent Frame Method of ACI 318-71, Building Code; Determination of Stiffness and the Calculation Process

4:20 p.m.-5:00 p.m.

### Proper Selection of Reinforcing Steel and Concrete Details Including Embedment

5:00 p.m.-6:00 p.m.

### Questions, Discussion, and Summary

Wednesday, April 9

9:30 a.m. - 12:00 noon

## GENERAL SESSION

*Ballroom*

**Session Chairman:** Emory Farkas, general chairman, 1975 Annual ACI Convention, and general manager, Rock Processing Chemicals, Construction Products Division, W. R. Grace & Company, Cambridge, Massachusetts

### Presidential Address

Chester P. Siess, President, ACI, and head, Department of Civil Engineering, University of Illinois at Urbana-Champaign, Urbana, Illinois.

### Keynote Address

Carl L. Bradley, vice-president, American Institute of Architects, Fort Wayne, Indiana.

### Presentation of Delmar L. Bloem Distinguished Service Awards

#### Awardees

##### Fritz Kramrisch

Under his chairmanship, Committee 322 produced "Building Code Requirements for Structural Plain Concrete" and Committee 340 revised the "Design Handbook." His membership on technical committees include: 318—Standard Building Code; 336—Combined Footings and Pier Foundations; 351—Foundations for Equipment and Machinery; 437—Strength Evaluation of Existing Concrete Structures; and 442—Response of Buildings to Lateral Forces.

##### James G. Mac Gregor

Under his chairmanship, Committee 426 sponsored three ACI symposia and produced "The Shear Strength of Reinforced Concrete Members." He has also served as chairman of Committee 442—Response of Buildings to Lateral Forces and as a member of: 318—Standard Building Code; 438—Torsion; and 441—Reinforced Concrete Columns.

### Presentation of Proposed Revisions to "Building Code Requirements for Reinforced Concrete (ACI 318-71)" (third supplemental revision)

George F. Leyh, chairman, ACI Committee 318, and associate technical director, Concrete Reinforcing Steel Institute, Chicago, Illinois

### Presentation of Proposed "Code Requirements for Nuclear Safety Related Concrete Structures"

Eric C. Smith, chairman, ACI Committee 349, and senior engineer, Civil Engineering, Atomic Energy of Canada, Ltd., Cooksville, Ontario, Canada

### Accelerated Strength Testing: Basis for the Methods

Milton H. Wills, Jr., supervisor, Concrete and Aggregate Department, Martin Marietta Cement, Baltimore, Maryland

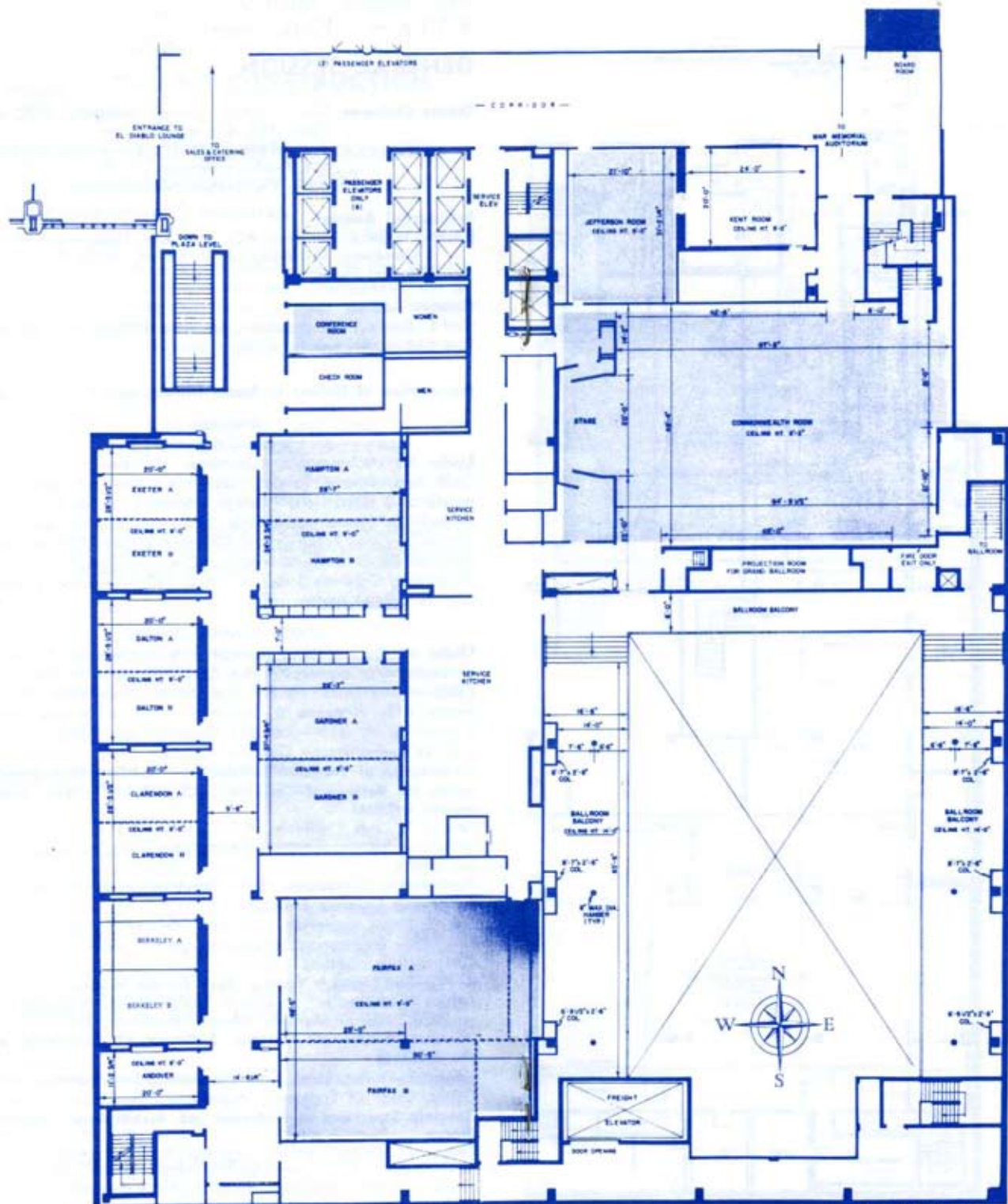
### Accelerated Strength Testing: Summary of Experience with the Methods

Robert E. Philleo, chief, Concrete Branch, Engineering Division, Office, Chief of Engineers, Washington, D. C.

### Concrete Structures of Historical and Architectural Interest in Boston

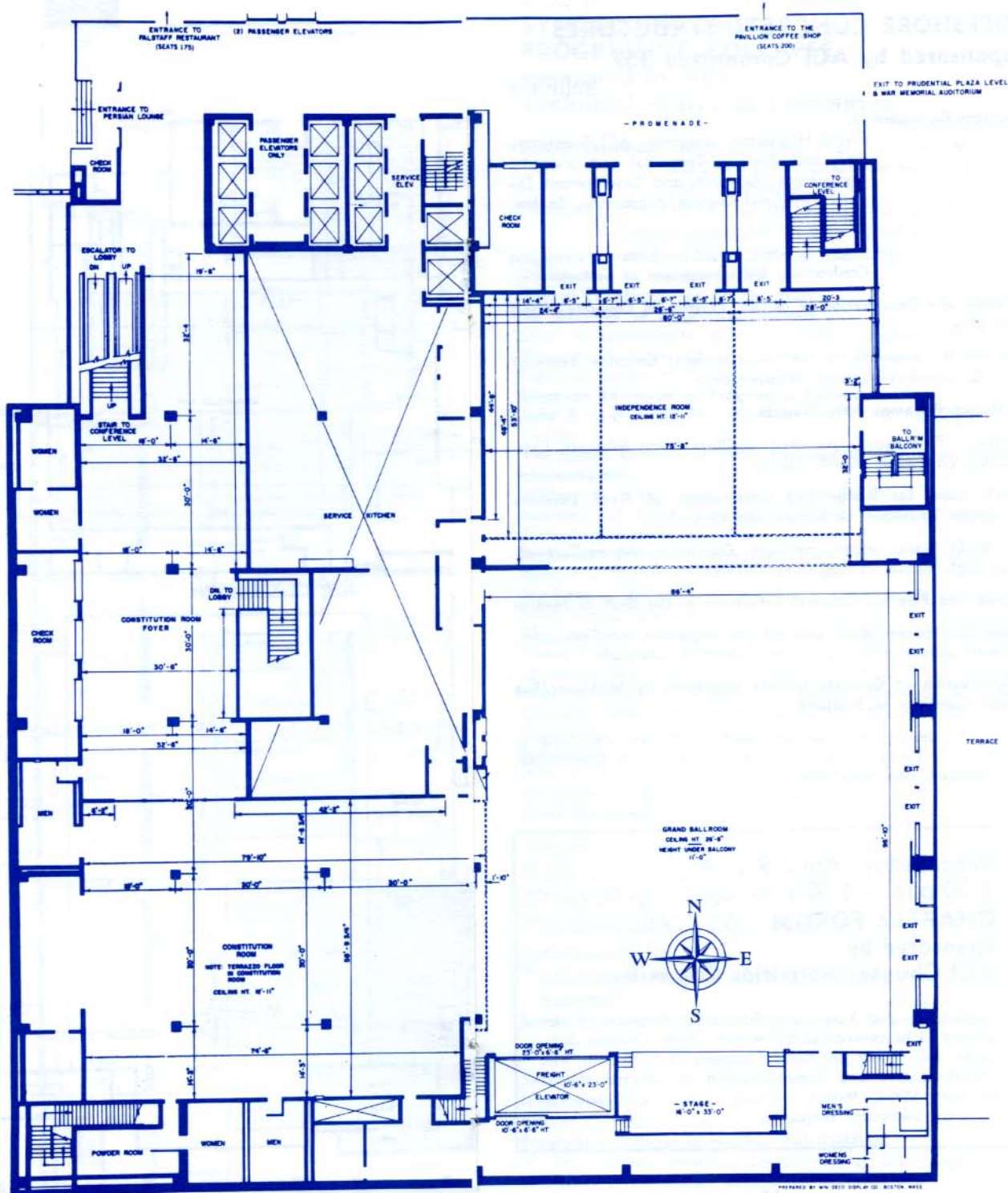
George H. Brattin, eastern regional structural engineer, Portland Cement Association, Boston, Massachusetts; and T. W. Hunt, concrete consultant, Reading, Massachusetts





3rd floor — conference level — dimensional plan

DESIGNED BY THE ARCHITECTURAL FIRM OF BOSTON, MASS.



SCALE 0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 2nd floor — plaza level — dimensional plan



Wednesday, April 9  
2:00 p.m. - 5:00 p.m.

## OFFSHORE CONCRETE STRUCTURES sponsored by ACI Committee 357

*Ballroom*

### Session Co-Chairmen:

Eivind Hognestad, chairman, ACI Committee 357, and director, Technical and Scientific Department, Research and Development Division, Portland Cement Association, Skokie, Illinois

Knut Tovshus, chief engineer, Norwegian Contractors, Oslo, Norway

### Design and Construction of 461-ft. Prestressed Concrete Vessel for LPG

Arthur R. Anderson, senior vice-president, Concrete Technology Corporation, Tacoma, Washington.

### Offshore Bahamas Jetty Projects

William F. Wescott, president, William Flynn Wescott, Consulting Engineers, Miami, Florida

### DnV Rules for Design and Construction of Fixed Offshore Concrete Structures: A Review and Outlook

E. M. Q. Roren, general manager, Davison of Marine Technology, Det Norske Veritas, Oslo, Norway

### Fixed and Floating Concrete Structures in the Gulf of Mexico

Don Payne, president; and W. A. Ingraham, vice-president, Marine Concrete Structures, Inc., Metairie, Louisiana

### Construction of Concrete Gravity Structures by McAlpine/Sea Tank Company in Scotland

John A. Derrington, chief engineer, Sir Robert McAlpine & Sons, Ltd., London, England, and chairman, FIP Commission on Concrete Sea Structures

Wednesday, April 9  
2:00 p.m. - 4:00 p.m.

## CHAPTER FORUM sponsored by ACI Chapter Activities Committee

*Gardner*

Technically and Financially Successful Programs is the subject to be covered in a Chapter Forum. Chapter delegates will report on their Chapter's activities in this important area and discussions will be directed toward program ideas, format, industry needs, and how to organize successful programs.

Wednesday, April 9  
2:00 p.m. - 5:00 p.m.

## SYMPOSIUM ON PROGRESSIVE COLLAPSE sponsored by ACI Technical Activities Committee

*Independence*

**Session Chairman:** Edward O. Pfrang, chief, Structures, Materials and Safety Division, National Bureau of Standards, Washington, D. C.

*Section 1: To define the problem and to educate a broad segment of the structural design and construction profession.*

### Introduction to the Symposium

Edward O. Pfrang, session chairman

### An Overview of Progressive Collapse

Edgar V. Leyendecker, structural research engineer, Structures, Materials & Safety Division, Center for Building Technology, National Bureau of Standards, Washington, D. C.

### European Examples of Progressive Collapse

Sune A. Granstrom, Berg Konsult, Sven Tyrne AB, Stockholm, Sweden

### The Boston Collapse at 2000 Commonwealth Avenue, Boston, Massachusetts

William A. Little, head, Construction Facilities Division, Department of Civil Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts

### Progressive Failure in High Rises from Construction Loads

Richard C. Elstner, partner, Wiss, Janney, Elstner & Associates, Northbrook, Illinois; and Dick Tadjer, engineering consultant, Silver Spring, Maryland

### The Incidence of Abnormal Loading in Progressive Collapse

James T. P. Yao, professor, School of Civil Engineering, Purdue University, West Lafayette, Indiana; and Edgar V. Leyendecker, structural research engineer, Structures, Materials & Safety Division, Center for Building Technology, National Bureau of Standards, Washington, D. C.

### Summation

John E. Breen, professor, Department of Civil Engineering, University of Texas, Austin, Texas

### Panel Discussion

Thursday, April 10  
9:00 a.m. - 12:00 noon

## SYMPOSIUM ON PROGRESSIVE COLLAPSE sponsored by ACI Technical Activities Committee

*Independence*

**Session Chairman:** Edward O. Pfrang, chief, Structures, Materials and Safety Division, National Bureau of Standards, Washington, D. C.

### Session II: Problem Solutions

#### Introduction

Edward O. Pfrang, session chairman

#### Progressive Collapse in Bearing Wall Buildings

A. W. Hendry, professor, Department of Civil Engineering, University of Edinburgh, Edinburgh, Scotland



(Thursday, April 10 (continued))

**Progressive Collapse: Frame Buildings**

Alexander Popoff, vice-president, ABAM Engineers, Inc., Tacoma, Washington

**Progressive Collapse in Flat Plate Buildings**

Neil M. Hawkins, professor, and Denis Mitchell, assistant professor, Department of Civil Engineering, University of Washington, Seattle, Washington

**European Solutions to Progressive Collapse**

L. R. Creasy, civil engineer, Alan Marshall and Partners, Consulting Civil and Structural Engineers, Worcester Park, Surrey, England

**The HUD Approach to Progressive Collapse**

Robert G. Fuller, structural engineer, Office of Underwriting Standards; and William J. Werner, general engineer, Building Technology and Safety Division, U. S. Department of Housing and Urban Development, Washington, D. C.

**Panel Discussion**

**Summary and Conclusions**

Chester P. Siess, President, ACI, and head, Department of Civil Engineering, University of Illinois at Urbana-Champaign, Urbana, Illinois

Thursday, April 10  
9:00 a.m. - 12:00 Noon

**RESTORATION OF  
HISTORIC CONCRETE STRUCTURES**

sponsored by

**American Concrete Institute  
(Committee 120);**

**Association for Preservation Technology,  
National Park Service;**

**National Trust for Historic Preservation**

*Ballroom*

**Session Chairman:** Robert M. Vogel, curator of heavy machinery and civil engineering, Smithsonian Institution, Washington, D. C.

**Session I**

**Welcome**

Chester P. Siess, President, ACI, and head, Department of Civil Engineering, University of Illinois at Urbana-Champaign, Urbana, Illinois

**Principles and Problems of Preservation**

Russell V. Keune, director of field services, National Trust for Historic Preservation, Washington, D. C.

**Concrete Crosses the Atlantic (1494-1818)**

Charles E. Peterson, Architectural Historian, Philadelphia, Pennsylvania

**Historical Development of Hydraulic Cements**

Harley J. McKee, professor of architecture emeritus, Syracuse University, Syracuse, New York

**The First Half Century of Reinforced Concrete (1855-1905)**

Carl Condit, professor, Northwestern University, Evanston, Illinois

**Properties of Concrete as They Relate to Restoration**

Howard Newlon, Jr., chairman, ACI Committee 120, and assistant head, Virginia Highway and Transportation Research Council, Charlottesville, Virginia

**Evaluation of the Capacity of Structures**

Emory Kemp, secretary, ACI Committee 120, and chairman, Department of Civil Engineering, West Virginia University, Morgantown, West Virginia

Thursday, April 10  
2:30 p.m. - 5:30 p.m.

**RESTORATION OF  
HISTORIC CONCRETE STRUCTURES**

*Ballroom*

**Session Chairman:** Douglas L. Griffin, chief, Historic American Engineering Record, Washington, D. C.

**Session II**

**Evaluation of Concrete in Structures**

Katharine Mather, chief, Petrography Section, Concrete Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi

**Principles of Repair**

Howard L. Furr, chairman, ACI Committee 546, and professor, Department of Civil Engineering, Texas A & M University, College Station, Texas

**Materials and Coatings for Restoration**

L. E. Copeland, Wiss, Janney, Elstner and Associates, Northbrook, Illinois; and Geoffrey Frohnsdorff, National Bureau of Standards, Gaithersburg, Maryland

**Case Studies—Solved and Unsolved:**

**1. Typical Concrete Structures on the National Register**

Eric DeLony, Historic American Engineering Record, National Park Service, Washington, D. C.

**2. Unity Temple, Oak Park, Illinois**

Robert A. Bell, Sturr Young Associates, Oak Park, Illinois; and William Hach, William Hach and Associates, Bensenville, Illinois

**3. Adaptive Use of Old Buildings by Post Tensioning**

Irwin G. Cantor, president, Office of Irwin G. Cantor, New York, New York

Thursday, April 10  
7:30 p.m. - 10:30 p.m.

**RESTORATION OF  
HISTORIC CONCRETE STRUCTURES**

*Ballroom*

**Session Chairman:** Russell V. Keune, director of field services, National Trust for Historic Preservation, Washington, D. C.

**Session III**

**Case Studies—Solved and Unsolved**

(continued):

**4. Concrete Structures in the National Park System**

Hugh C. Miller, assistant chief historical architect, National Park Service, Washington, D. C.

**5. Ward House**

Raymond C. Heun, executive director, New York Concrete Construction Institute, Inc., New York, New York

**6. California Building, San Diego**

T. H. Prudon, senior research associate in architecture, Columbia University, New York, New York

**7. Seguin, Texas: A Concrete Town of the 1840's-50's**

Richard H. MyCue, architect, Texas Parks and Wildlife, Austin, Texas

**8. Fiske Kimball's Amphitheatre at the University of Virginia**

Gary Wolf, architectural historian, National Park Service, Washington, D. C. Presented by Robert C. Mack, architect, Office of Archeology and Historic Preservation, National Park Service, Washington, D. C.

**9. "Lime-Grout" Concrete in Fort Laramie, Wyoming**

Rodd L. Wheaton, regional historical architect, Rocky Mountain Regional Office, National Park Service, Denver, Colorado. Presented by Robert C. Mack, architect, Office of Archeology and Historic Preservation, National Park Service, Washington, D. C.



10. **Crack Repair in Historic Concrete Structures, including:**  
**The Palace of Fine Arts (1915 World's Fair), San Francisco**  
**The St. Coeur de Marie Church, Quebec City**  
**Astor Column, Astoria, Oregon**  
**The National Palace in Managua, Nicaragua**  
Presented by Herb Grubb, structural concrete bonding service manager, Adhesive Engineering Company, San Carlos, California
11. **Laboratory Research on Problems of Concrete Repairs and Impregnation**  
K. Lal Gauri, professor of geology, Belknap Campus, University of Louisville, Louisville, Kentucky

**Open Discussion:**

**What Have We Learned and Where Do We Go?**

**WALKING TOUR OF CONCRETE STRUCTURES OF HISTORICAL AND ARCHITECTURAL INTEREST IN BOSTON**

Boston's memories go back to 1630—a time of Indians, pillories and sailing ships. Since Colonial days the city has held a place of special honor in American history. And probably no other city has reversed and preserved their heritage of history-making monuments.

A walking tour map has been prepared by E. Blaine Cliver, regional historical architect, North Atlantic Region, National Park Service, Boston; and Norman R. Weiss, scientific consultant, Society for Preservation of New England Antiquities, Boston. This map will guide visitors to the concrete structures of historical and architectural interest in the vicinity of the convention center.

Thursday, April 10  
2:30 p.m. - 5:30 p.m.  
**SAFETY OF REINFORCED CONCRETE STRUCTURES**

sponsored by **ACI Committee 348**

*Independence*

**Session Chairman:** Robert G. Sexsmith, chairman, ACI Committee 348, and professor, School of Civil Engineering, Cornell University, Ithaca, New York

*Session 1: Safety and Liability*

**Opening Remarks**

Robert G. Sexsmith, chairman, ACI Committee 348

**Introduction of Keynote Speaker**

Bryant Mather, Past President of ACI, and chief, Concrete Laboratory, Waterways Experiment Station, Corps of Engineers, Vicksburg, Mississippi

**Keynote Address**

John H. Stender, assistant secretary of Occupational Safety and Health Administration, U. S. Department of Labor, Washington, D. C.

**Introduction to Panel Discussion**

Atze Douma, symposium chairman, and structural engineer, Nova Scotia Power Commission, Halifax, Nova Scotia

**Panel Discussion: Safety and Liability**

**Moderator:** Clifford Gordon, safety director, Division of School Buildings, New York, New York

**Representing Views of:**

**Public Owner:** Bertold E. Weinberg, project manager, Dormitory Authority of the State of New York, Elmsmere, New York

**Private Owner:** Charles A. De Benedittis, senior vice-president, Tishman Realty and Construction Company, Inc., New York, New York

**Designer:** Vincent J. De Simone, partner, De Simone and Chaplin, Consulting Engineers, New York, New York

**Constructor:** Fred C. Hill, director of safety, Jackson Construction Company, Inc., Needham, Massachusetts

**Legal Profession:** Max E. Greenberg, attorney-at-law, New York, New York

**Building Official:** Ralph E. Spencer, building administrator, Bureau of Building Housing and Zoning, Government of the District of Columbia, Washington, D. C.

Thursday, April 10

7:30 p.m. - 9:30 p.m.

**INDUSTRY ADVANCEMENT FORUM**

sponsored by

**ACI Institute and Industry Advancement Committee**

*Hampton*

A need exists for an industry discussion on current fire insurance rates on concrete structures. Methods and criteria used to set such rates are not uniform and are inclined to be somewhat arbitrary.

A discussion of this problem will be started by Mario J. Catani, director of the Building Construction Department, Portland Cement Association, Skokie, Illinois. He will give a short talk on "Fire Insurance Rates: An Introduction to the Problem." This problem is of vital importance to all segments of the industry and it is recommended that you come and express your opinion and/or relate your experiences.



Friday, April 11

9:00 a.m. - 12:00 noon

## SAFETY OF REINFORCED CONCRETE STRUCTURES

sponsored by  
**ACI Committee 348**

### *Independence*

**Session Chairman:** Atze Douma, symposium chairman, and structural engineer, Nova Scotia Power Commission, Halifax, Nova Scotia

### *Session II: Safety of Reinforced Concrete Structures*

#### **Introduction**

Atze Douma, symposium chairman

#### **On Optimum Standards for Construction Products**

Emilio Rosenblueth, professor, Instituto de Ingenieria, Universidad Nacional Autonoma de Mexico, Mexico, D.F.

#### **Failures: Their Causes and Avoidance**

Raymond C. Reese, consulting engineer, Toledo, Ohio

#### **Does the Use of High Alumina Cement Present Failure Problems?**

P. W. Abeles, consultant—prestressed concrete, London, England

#### **Investigation of Shear Failures**

Jacob Feld, consulting engineer, Feld, Kaminetzky & Cohen, New York, New York

#### **Detailing Reinforcing for Improved Ultimate Performance**

Henry J. Degenkolb, president; and Loring A. Wyllie, Jr., associate, H. J. Degenkolb & Associates Engineers, San Francisco, California

#### **A Few Structural Case Histories**

Anton Tedesco, consulting engineer, Bronxville, New York

Friday, April 11

9:00 a.m. - 12:00 noon

## RESEARCH IN PROGRESS ON PLAIN AND REINFORCED CONCRETE

*(Brief and confidential unpublished reports)*

sponsored by  
**ACI Committee 115**

### *Ballroom*

Friday, April 11 (continued)

**Session Chairman:** Herbert K. Cook, chairman, ACI Committee 115, and vice-president of engineering, Master Builders, Cleveland, Ohio

**Secretary:** M. A. Ward, secretary, ACI Committee 115, and professor, Department of Civil Engineering, The University of Calgary, Calgary, Alberta

#### **Polymer-Impregnated Concrete for Highway and Structural Applications**

W. F. Chen, associate professor of civil engineering; and H. C. Mehta, research assistant, Lehigh University, Bethlehem, Pennsylvania

#### **Development of Sulfur-Infiltrated High-Strength Concrete**

V. M. Malhotra, head, Construction Materials Section, Mineral Processing Division, Mines Branch, Canada Department of Energy, Mines and Resources, Ottawa, Ontario

#### **Resin Bound Aggregate Material Systems**

Rudolph C. Valore, research consultant, Valore Research Associates, Ridgewood, New Jersey

#### **Stress-Strain Curves of Confined Concrete in Full-Size Test Specimens**

Paul H. Kaar, senior structural engineer, Structural Development Section, Portland Cement Association, Skokie, Illinois

Friday, April 11 (continued)

#### **Four-Story Test Structure Destructive Test**

R. Martin Czarniecki, associate research engineer; John A. Blume, president; Sigmund A. Freeman, structural engineer; and Roger E. Scholl, director of research, URS/John A. Blume and Associates, Engineers, San Francisco, California

## A. J. BOASE AWARD OF THE REINFORCED CONCRETE RESEARCH COUNCIL

Chester P. Siess has been selected by the Reinforced Concrete Research Council to receive the 1975 Arthur J. Boase Award "... for distinguished leadership in concrete research, teaching and committee work, for success in making research results available and useful to practicing engineers, and for his many years as dedicated worker, secretary and chairman of the Reinforced Concrete Research Council."

#### **Overload Behavior of Beam-Slab Type Highway Bridges**

Celal N. Kostem, associate professor; and William S. Peterson, research assistant, Fritz Engineering Laboratory, Lehigh University, Bethlehem, Pennsylvania

#### **Seismic Behavior of Structural Wall Systems**

V. V. Bertero and E. P. Popov, professors; T. Endo, assistant research engineer; and T. Wang, research assistant, Department of Civil Engineering, University of California, Berkeley, California

#### **Reinforced Concrete Beam-Column Connection Subjected to Earthquake Type Motion**

Duane L. N. Lee, graduate student; James K. Wight and Robert D. Hanson, professors, Department of Civil Engineering, University of Michigan, Ann Arbor, Michigan

#### **Structural Response to Fire of Reinforced Concrete Frames**

Boris Bresler, professor; Robert Iding, assistant research engineer; Zuhayr Nizamuddin, research assistant; John Lee, research specialist, Department of Civil Engineering, University of California, Berkeley, California; and James Becker, assistant professor of civil engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts

#### **Development of Criteria Against Progressive Collapse of Large Panel Structures**

Donald M. Schultz, structural engineer; and Mark Fintel, director, Engineering Service Department, Portland Cement Association, Skokie, Illinois



## AWARDS LUNCHEON

*Commonwealth*

Come meet the awardees and new ACI officers at noon. Have fun, enjoy a good lunch, and watch the multi-media awards presentation show.

### program

#### Honorary Memberships:

Miles N. Clair  
William F. H. Schmidt  
Joseph J. Shideler  
Branko Žeželj

#### Henry C. Turner Medal:

William A. Maples

#### Alfred E. Lindau Plaque:

Roger Nicolet

#### Henry L. Kennedy Award:

John Arvid Hanson

#### Charles S. Whitney Medal:

Concrete Technology Corporation

#### Arthur R. Anderson Medal:

Milos Polivka

#### Roger H. Corbetta Concrete Construction Award:

Knut Tovshus

#### Joe W. Kelly Award:

William A. Cordon

#### Wason Medal for Most Meritorious Paper:

Frank A. Randall, Jr.

#### Construction Practice Award:

Kenneth G. Jessop

#### Wason Medal for Materials Research:

Norbert K. Becker  
Cameron MacInnis

#### Raymond C. Reese Structural Research Award:

B. Vijaya Rangan  
A. S. Hall

#### Recognition of Retiring Officers

#### Report of Tellers

#### Introduction of New Officers

#### New President's Address

#### Presentation of Memento to Retiring President

## FAMILY MEMBERS' PROGRAM

### Hospitality: Executive Foyer

#### SCHEDULE

#### MONDAY

9:00 a.m. - 5:00 p.m.  
Coffee and Danish  
Registration

#### TUESDAY

8:00 a.m.

Coffee and Danish  
Registration

9:00 a.m.

Tour of the Freedom Trail in Boston

Noon

Lunch at Pier 4 overlooking Boston Harbor

Afternoon

Three Choices:

1. Tour of Cambridge covering Harvard University, Harvard Square, and the glass flower exhibit at the Peabody Museum
2. Tour of the State House and the Isabella Stewart Gardner Museum
3. Tour of the Boston City Hall and the Museum of Science

#### WEDNESDAY

8:00 a.m.

Coffee and Danish  
Registration

9:00 a.m. - 2:30 p.m.

Visit to Lexington and Concord with lunch at the Concord Country Club

6:30 p.m. - 8:00 p.m.

"Concrete Mixer" social hour

#### THURSDAY

8:30 a.m.

Coffee and Danish

12:15 p.m.

Awards Luncheon

*A list of places to go during free time will be furnished each family member.*

## CONTRIBUTORS

The 1975 ACI Convention Committee acknowledges and is grateful for the cooperation and contributions of the following firms who made possible the entertainment features and Family Members' Program for the meeting.

Allied Concrete Corporation  
Alpha Portland Cement Company  
Atlas Prestress Corporation  
Barkan Construction Company, Inc.  
Barker Steel Company, Inc.  
Boston Sand & Gravel Company  
Briggs Engineering & Testing Company, Inc.  
Bay Tek-Krete, Inc.  
Concrete Pumping Service, Inc.  
Construction Service, Inc.  
E. L. Dauphinais, Inc.  
DeFalco Concrete Corporation  
Eirich Machine—Canada  
Erico Products, Inc.  
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Lynn Sand & Stone Company  
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George B. H. Macomber Company  
Marquette Cement Manufacturing Company  
Marshfield Sand & Gravel Company  
Martin Marietta Cement, Eastern Division  
Master Builders Company  
New England Concrete Pipe Corporation  
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Sika Chemical Company  
Swansea Concrete Corporation  
The Thompson & Lichtner Company, Inc.  
Tucker Concrete Form Company  
Universal Atlas Cement (Division of U. S. Steel Corporation)  
Universal Form Clamp Company  
Vappi & Company, Inc.  
Volpe Construction Company, Inc.  
Arthur Whitcomb, Inc.  
Wakefield Ready Mixed Concrete Company, Inc.  
J. F. White Contracting Company

## BOSTON CONVENTION COMMITTEE

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**Adelard A. Roy**  
San-Vel Concrete Corporation

### General Chairman

**Emery Farkas**  
W. R. Grace & Company

### Treasurer

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### Family Members Program

**Phillip R. Jackson**  
Jackson Construction Company, Inc.

### Hostesses

**Lily Farkas**  
and **Shirley Jackson**

The officers, staff, and members of ACI would like to thank the Local Committee, the Hostesses, and the Chapter for their part in the 1975 Annual Convention.





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