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*American Concrete Institute
P.O. Box 19150
Detroit, Michigan 48219
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 chairman 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
SUNDAY, APRIL 6       10:30 a.m. - 12:30 p.m.
--- Institute and Industry Advancement Committee          Board
--- Technical Activities Committee                  Exeter
MONDAY, APRIL 7       8:30 a.m. - 10:30 a.m.
--- Technical Activities Committee                  Exeter A
--- General Activities Committee           Dalton A
117 Tolerances (starts 9:00 a.m.)                      Berkeley A
301 Specifications for Structural Concrete          Independence East
303 Architectural Concrete                           Fairfax A
311 Inspection of Concrete                           Independence West
313 Concrete Bins and Silos                           Kent
315 Detailing Reinforced Concrete Structures          Hampton B
325 Concrete Pavements                                Gardner A
351 Foundations for Equipment and Machinery           Independence Center
356 Industrialized Concrete Construction             Dalton B
408 Bond Stress                                      Fairfax B
423 Prestressed Concrete                             Clarendon B
443 Concrete Bridge Design                           Exeter B
516 High Pressure Steam Curing                        Gardner B
531 Masonry Structures                                Hampton A
546 Repair of Concrete                                Board
547 Refractory Concrete                               Jefferson
                                           10:30 a.m. - 12:30 p.m.
--- Technical Activities Committee                  Exeter A
--- General Activities Committee           Dalton A
301 Specifications for Structural Concrete          Independence East
303 Architectural Concrete                           Fairfax A
311 Inspection of Concrete                           Independence West
313 Concrete Bins and Silos                           Kent
315 Detailing Reinforced Concrete Structures          Hampton B
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351 Foundations for Equipment and Machinery           Independence Center
356 Industrialized Concrete Construction             Dalton B
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423 Prestressed Concrete                             Clarendon B
437 Strength Evaluation of Existing Concrete Structures Andover
441 Reinforced Concrete Columns                      Berkeley A
443 Concrete Bridge Design                           Exeter B
516 High Pressure Steam Curing                        Gardner B
531 Masonry Structures                                Hampton A
546 Repair of Concrete                                Board
547 Refractory Concrete                               Jefferson
                                           2:00 p.m. - 4:00 p.m.
--- Educational Activities Committee                Clarendon A
--- Chapter Activities Committee                     Dalton A
--- Specifications Review Committee                  Berkeley B
--- TAC ad hoc Committee on Design of Slabs on Grade Exeter A
223 Expansive Cement Concrete                        Independence East
302 Concrete Floor Finishes                          Gardner A
303 Architectural Concrete                           Fairfax A
305 Hot Weather Concreting                           Conference
311 Inspection of Concrete                            Independence West
COMMITTEE MEETINGS

313 Concrete Bins and Silos
318 Subcommittee D, Details and Development of Reinforcement
318 Subcommittee F, Serviceability
318 Subcommittee H, Shear and Torsion (with Subcommittee 426)
318 Subcommittee L, Prestressed Concrete
347 Formwork for Concrete
350 Sanitary Engineering Structures
351 Subcommittee 1, Impact Machinery
356 Industrialized Concrete Construction
426 Shear and Diagonal Tension (with Subcommittee H of Committee 318)
443 Concrete Bridge Design
531 Masonry Structures
547 Refractory Concrete
E-601 Seminars and Workshops

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Educational Activities Committee
Specifications Review Committee
TAC ad hoc Committee on Design of Slabs on Grade
Evaluation of Results of Tests Used to Determine Strength of Concrete
Expansive Cement Concrete
Hot Weather Concreting
Concrete Bins and Silos
Subcommittee D, Details and Development of Reinforcement
Subcommittee F, Serviceability
ad hoc Committee on Minimum Eccentricities
Formwork for Concrete
Sanitary Engineering Structures
Subcommittee 4 (Foundations for Equipment and Machinery)
Industrialized Concrete Construction
Concrete Guideways
Models of Concrete Structures
Precast Structural Concrete
Masonry Structures
Refractory Concrete
Seminars and Workshops

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Task Group on Progressive Collapse
TUESDAY, APRIL 8
8:30 a.m. - 10:30 a.m.

207 Mass Concrete
211 Subcommittee 7, Proportioning Mass Concrete
213 Lightweight Aggregates and Lightweight Aggregate Concrete
222 Corrosion of Metals in Concrete
309 Consolidation of Concrete
313 Concrete Bins and Silos
318 Subcommittee E, Analysis and Strength Requirements
318 Subcommittee K, Precast and Composite Concrete
318 Subcommittee N, Earthquake Resistant Design Requirements
340 Strength Design Handbook
348 Structural Safety

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COMMITTEE MEETINGS

504 Joint Sealants
515 Coatings for Concrete
517 Accelerated Curing of Concrete at Atmospheric Pressure
531 Masonry Structures
533 Precast Panels

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Writing Specifications for Concrete Piles
(Sponsored by ACI Educational Activities Committee)
See Page 11

Board of Direction

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

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

Proportioning Concrete Mixes
Lightweight Aggregates and Lightweight Aggregate Concrete
Fatigue of Concrete
Cracking
Consolidation of Concrete
Concrete Bins and Silos
Subcommittee B, Concrete Quality, Mixing, and Placement
Subcommittee E, Analysis and Strength Requirements
Task Group on Plain Concrete
Strength Design Handbook
Structural Safety
Torsion
Coatings for Concrete
Accelerated Curing of Concrete at Atmospheric Pressure
Masonry Structures
Precast Panels
CRSI-Associated Reinforcing Bar Producers Technical Committee—Joint ASTM/ACI Advisers

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Board Committee on International Activities

Nomenclature
Durability of Concrete
Measuring, Mixing, Transporting, and Placing Concrete
Cold Weather Concreting
Concrete Bins and Silos
Subcommittee A, General Building Code
Task Group on Systems Building
Concrete Bridge Construction and Maintenance
Anchorage to Concrete
Offshore Concrete Structures
Shotcreting
Coatings for Concrete
Accelerated Curing of Concrete at Atmospheric Pressure
Student Concrete Projects

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SLAB DESIGN AND CONSTRUCTION WORKSHOP
(Sponsored by ACI Educational Activities Committee)
See Page 12

Board of Direction

4:00 p.m.-6:00 p.m.
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Tuesday, April 8
9:00 a.m. - 12:30 p.m.
WRITING SPECIFICATIONS FOR CONCRETE PILES
sponsored by ACI
Educational Activities Committee

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, Massachusetts

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
Emery 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: Emery 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
OFFSHORE CONCRETE STRUCTURES
sponsored by ACI Committee 357

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

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

SYMPHONY ON PROGRESSIVE COLLAPSE
sponsored by ACI
Technical Activities Committee


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

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. Litle, 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 Tadler, 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
SYMPHONY ON PROGRESSIVE COLLAPSE
sponsored by ACI
Technical Activities Committee


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., To-
coma, 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, Con-
sulting Civil and Structural Engineers, Worcester Park, Surrey,
England

The HUD Approach to Progressive Collapse
Robert G. Fuller, structural engineer, Office of Underwriting Stan-
dards; 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 1
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, Syracu-
se University, Syracuse, New York

The First Half Century of Reinforced Concrete (1855-1905)
Carl Condit, professor, Northwestern University, Evanston, Illi-
nois

Properties of Concrete as They Relate to Restoration
Howard Newlon, Jr., chairman, ACI Committee 120, and as-
sistant 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, Morg-
gantown, West Virginia

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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 Labora-
tory, U. S. Army Engineer Waterways Experiment Station, Vicks-
burg, Mississippi

Principles of Repair
Howard L. Furr, chairman, ACI Committee 546, and professor,
Department of Civil Engineering, Texas A & M University, Col-
lege Station, Texas

Materials and Coatings for Restoration
L. E. Copeland, Wiss, Janney, Elstner and Associates, North-
brook, 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, Na-
   tional 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, Ben-
   senville, 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, Na-
   tional 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 Kimbell's Amphitheatre at the University of Virginia
   Gary Wolf, architectural historian, National Park Service,
   Washington, D. C. Presented by Robert C. Mack, archi-
   tect, Office of Archeology and Historic Preservation, Na-
   tional Park Service, Washington, D. C.

9. "Lime-Groud" 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.

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Thursday, April 10 (continued)

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 its
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 Commit-
te 348, and professor, School of Civil En-
gineering, 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, Washing-
ton, 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, Elsmere, 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 Chap-
lin, Consulting Engineers, New York, New York

Constructor: Fred C. Hill, director of safety, Jackson Construc-
tion 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?

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 Bond 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

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.

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.
F. M. C. Corporation
Fehr Brothers
Gilbane Building Company
Glens Falls Cement Company
Gloucester Transit Mix, Inc.
W. R. Grace & Company
A. H. Harris & Sons, Inc.
Jackson Construction Company, Inc.
P. J. Keating Company
Lehigh Portland Cement Company
LeMessurier Associates
Linthwaite, Eisenberg, Anderson, Inc.
Lone Star Industries, Inc.
Lynn Sand & Stone Company
McCabe Sand & Gravel Company
I. H. McNamara Inc.
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
Nichols, Norton and Zaldastani, Inc.
Northeast Cement Company, Inc.
Northern Steel, Inc.
Northfield Concrete Products Corporation
Lyle Paris Associates
Herman G. Protze, Inc.
Rosenfeld Washed Sand & Stone Company
Rowley Ready Mix, Inc.
San-Vel Concrete Corporation
Schuman Construction Company
Sigma Corporation
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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San-Vel Concrete Corporation

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Emery Farkas
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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.