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*American Concrete Institute
P. O. Box 4754
Detroit, Michigan 48219
Saturday, March 4
2:00 p.m. – 5:00 p.m.
Administrative committee meetings

Sunday, March 5
9:00 a.m. – 5:00 p.m.
Administrative committee meetings

Monday, March 6
8:30 a.m. – 10:30 p.m.
Administrative, technical, and educational committee meetings
7:30 p.m. – 10:30 p.m.
Workshop on the History of Concrete
 Court

Tuesday, March 7
8:30 a.m. – 10:30 p.m.
Administrative, technical, and educational committee meetings
1:00 p.m. – 6:00 p.m.
Technical-educational exhibits open
 Mezzanine
2:30 p.m. – 5:30 p.m.
Workshop on the Use of Computers
 Vista
7:30 p.m. – 10:30 p.m.
Forum on Adhesives
 Embassy Ballroom

Wednesday, March 8
8:30 a.m. – 11:30 a.m.
General Session
 Junior Ballroom
10:00 a.m. – 6:00 p.m.
Exhibits open
 Mezzanine
2:30 p.m. – 5:30 p.m.
Research on Plain and Reinforced Concrete
 (Committee 115)
 Junior Ballroom
2:30 p.m. – 5:30 p.m.
Chapter Forum
 Gold
2:30 p.m. – 5:30 p.m.
Administrative, technical, and educational committee meetings
6:30 p.m. – 8:00 p.m.
Concrete Mixer
 Grand Ballroom, Hotel Adolphus

Thursday, March 9
8:30 a.m. – 11:30 a.m.
Symposium on Models of Concrete Structures
 (Committee 444)
 Embassy Ballroom
8:30 a.m. – 5:30 p.m.
Workshop/Symposium on Proportioning Concrete Mixes
 (Committee 211)
 Junior Ballroom
8:30 a.m. – 5:30 p.m.
Administrative, technical, and educational committee meetings

Friday, March 10
8:30 a.m. – 11:30 a.m.
Symposium on New Methods and Materials for Mixing, Transporting, and Placing Mass Concrete
 (continued)
 Embassy Ballroom
8:30 a.m. – 11:30 a.m.
Symposium on Response of Buildings to Lateral Forces
 (Committee 442)
 Junior Ballroom
8:30 a.m. – 11:30 a.m.
Technical committee meetings
1:30 p.m.
Construction Tour: Dallas-Fort Worth Airport.
Board buses in front of the hotel.
68th annual convention and exhibition
MARCH 5-10, 1972 at the
STATLER HILTON
Dallas, Texas

registration
mezzanine

sunday, march 5 .................................. 1:00 p.m. to 5:00 p.m.
monday, march 6 through
thursday, march 9 .................................. 8:00 a.m. to 5:30 p.m.
friday, march 10 .................................. 8:00 a.m. to 10:00 a.m.

registration fees:
ACI Members .................................. $20.00
Nonmembers .................................. $30.00
Students .................................. Free

Registration fees cover attendance at all ACI technical and
educational committee meetings, general sessions, and symposia.

notes:

program breakfasts (by invitation only):
tuesday, march 7, 7:00 a.m.
breakfast for newly appointed chairman of technical committees.
Blue Bonnet Room.

wednesday, march 8, 7:00 a.m.
breakfast for program participants in General Session; Research
on Plain and Reinforced Concrete; and Symposium on Prop-
portioning Concrete Mixes. Blue Bonnet Room.

thursday, march 9, 7:00 a.m.
breakfast for program participants in Symposium on Models of
Concrete Structures; Symposium on New Methods and Materials
for Mixing, Transporting, and Placing Mass Concrete; and
Symposium on Response of Buildings to Lateral Forces. Blue
Bonnet Room.

thursday, march 9, 12:00 noon
awards luncheon. Everyone is invited! Get your tickets now!

Floor Plans on Pages 36 and 37 of Your Program.
ACI Headquarters and Press Room in the Mezzanine
Checkroom.
special events

workshop on the history of concrete ... Monday, 7:30 p.m., in the Court room. If you're a "history buff" (and even if you're not), come to the workshop on concrete history. It can give you a whole new slant on the concrete industry and how it came to be what it is today. Sponsored by ACI Committee 120, History of Concrete.

educational-technical exhibits ... Tuesday through Thursday on the Mezzanine.

workshop on the use of computers ... Tuesday, 2:30 p.m., in the Vista room. The following topics will be under discussion: Computer Preparation of Contract Documents; Computer Generated Schedules and Specifications, and Data Transfer Methods. Everyone interested in computer applications in the concrete industry are invited to attend. Sponsored by ACI Committee 118, Use of Computers.

PCA Alumni Association Meeting ... Tuesday, 5:00 - 7:00 p.m., in Parlor 404.

forum on adhesives in concrete ... Tuesday, 7:30 p.m., in the Embassy Ballroom. Those interested in cooperative or coordinated research and development on this subject are invited to attend the forum. Sponsored by ACI Committee 114, Research and Development.

newcomers' breakfast ... Wednesday, 7:30 a.m., in the Embassy Ballroom. If this is the first or second (or even the third) ACI Convention you have attended, you are invited to a continental breakfast this morning. ACI officers and staff will be there to welcome you and answer any questions you may have about ACI. Bring your ticket.

chapter forum ... Wednesday, 2:30 p.m., in the Gold room. An informal roundtable on chapter activities and organization. Scheduled by the Board Committee on Chapter Activities.

"concrete mixer" social hour ... Wednesday, 6:30 to 8:00 p.m., in the Grand Ballroom of the Hotel Adolphus. Tickets are $4 and include cocktails and hot and cold hors d'oeuvres. Get your tickets early!

awards luncheon and new officer installation ... Thursday, 12:00 noon, in the Grand Ballroom. Come meet the awardees and new ACI officers. The luncheon will feature a Cash Bar (and you get one free drink with your ticket). Have fun, enjoy a good lunch, and watch the awards presentation show. Get your ticket early! $7.00 for cocktail and lunch.

thursday evening ... A real Western hoedown at the Austin Patio Dude Ranch in Grapevine, Texas. Includes chuckwagon dinner and square dance show with audience participation. Come dressed for the occasion (hats, boots, fancy shirts, blue jeans). For those without western attire, free western bandanas will be furnished. We are promised an excellent dinner and a real old-fashioned good time so get your tickets sooner!! $8.00 complete.
meetings

technical and educational committee meetings

COMMITTEE SHORT TITLES ARE IN BOLD FACE. BE SURE TO CHECK THE BULLETIN BOARD FOR LAST MINUTE CHANGES OR ADDED MEETINGS.

monday, march 6 8:30 a.m. to 11:30 a.m.

COMMITTEE MEETING ROOM

117 Tolerances (Tolerance problems existing in ACI publications) Room 410
222 Corrosion of Metals in Concrete (Paper session and guide) Room 418
303 Architectural Concrete (Specification draft) Room 406
305 Hot Weather Concreting (State of the art of pre-cooling concrete) Vista
313 Bins and Silos Room 433
316 Construction of Concrete Pavements and Bases Mustang
340 Ultimate Strength Design Handbook Court
426 Shear and Diagonal Tension (Committee report; conference session; Building Code revisions) Embassy West
533 Subcommittee C, Precast Panels (Draft of report on veneer faced panels) Room 405
546 Repair of Concrete (Review of draft of guide on repair of concrete bridge decks) Room 414
548 Polymers in Concrete (Symposium on Polymers in Concrete; committee assignments) Embassy East

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

COMMITTEE MEETING ROOM

114 Research and Development (Recommended research and development projects) Embassy West
201 Durability of Concrete (Draft of committee report and symposium for 1973) Vista
211 Proportioning Concrete Mixes (Workshop session and paper symposium) Blue Bonnet
303 Architectural Concrete (Specification draft) Room 406
313 Bins and Silos Gold
316 Construction of Concrete Pavements and Bases Mustang
340 Ultimate Strength Design Handbook Court
352 Joints and Connections in Monolithic Concrete Structures Room 410
408 Bond Stress (Committee report and methods of bond testing) Embassy East
428 Limit Design (Committee report; reorganization and goals of committee) Room 405
533 Subcommittee C, Precast Panels (Draft of report on veneer faced panels) Room 418
546 Repair of Concrete (Review of draft of guide on repair of concrete bridge decks) Room 414

MONDAY NOTES:
1. BUY TICKETS FOR THIS COMING WEEK'S EVENTS EARLY.
2. SEE NEW ACI PUBLICATIONS ON DISPLAY NEAR THE REGISTRATION DESK.
tUESDAY, MARCH 7 8:30 A.M. TO 11:30 A.M.

COMMITTEE

118 Use of Computers (Decision tables; committee reports)

216 Fire Resistance and Fire Protection of Structures
(Revision of ACI 213 Guide)

304 Measuring, Mixing, Transporting, and Placing Concrete
(Revision to 318-71)

350 Sanitary Engineering Structures (Discussion on
committee report published August 1971)

435 Deflection of Concrete Building Structures
(Progress reports from subcommittees)

504 Joint Sealants (Revision of 1970 Guide to Joint
Sealants for Concrete Structures)

506 Shotcreting (Review of proposed Specification for
Shotcreting)

533 Subcommittee D, Precast Panels (Draft of
subcommittee report)

2:30 P.M. TO 5:30 P.M.

C OMMITTEE

W ORKSHOP SESSION ON THE USE OF
COMPUTERS (Committee 118)

209 Creep and Shrinkage in Concrete (State-of-the-Art
Report; Bibliography updating)

213 Lightweight Aggregate Concretes (Revision of
ACI 213 Guide)

315 Detailing Reinforced Concrete Structures
(Proposed amendments to proposed revisions of
ACI 315)

350 Sanitary Engineering Structures (Discussion on
committee report published August 1971)

437 Strength Evaluation of Existing Concrete
Structures (Outline of Report)

438 Torsion (Design recommendation for prestressed
concrete members; current research;
symposium volume)

443 Concrete Bridge Design

506 Shotcreting (Review of proposed Specification for
Shotcreting)

515 Coatings for Concrete (Text of subcommittee
reports now in draft)

517 Accelerated Curing of Concrete at Atmospheric
Pressure (Drafts of subcommittee chapters;
review and prepare for report)

523 Insulating and Cellular Concretes
(Revision of Guide; task committee reports
on design and inspection)

533 Subcommittee B, Precast Panels (Proposed
revisions and updating of committee reports)

E-601 Seminars and Workshops (Seminar program
for 1972)

7:30 P.M. TO 10:30 P.M.

C OMMITTEE

F ORUM ON ADHESIVES (Committee 114)
See page 18

214 Evaluation of Results of Strength Tests of Concrete
(Revision of existing standard)

215 Fatigue of Concrete (Forthcoming symposium;
committee report)

301 Specifications for Structural Concrete
(ACI 301-72; reorganization of committee)

309 Consolidation of Concrete (Discussions
received on published report;
possible amendments; research)

315 Detailing Reinforced Concrete Structures
(Proposed amendments to proposed revisions of
ACI 315)

348 Structural Safety (Avoidance of gross errors
in design and construction; safety factors for
design of concrete structures)

354 Design Practice

437 Strength Evaluation of Existing Concrete
Structures (Outline of Report)

438 Torsion (Design recommendation for prestressed
concrete members; current research;
symposium volume)

439 High-Strength Reinforcement in Concrete
(Committee report revisions; new task
discussion of research)

532 Lightweight Concrete Masonry (Publication
of State of the Art)

TUESDAY NOTES:
1. VISIT EXHIBITION. OPENS 1:00 P.M., MEZZANINE.
2. SEE THE NEW PHOTO PANELS.
3. IF YOU HAVEN'T GOTTEN YOUR TICKETS YET FOR THE
AWARDS LUNCHEON, THE CONCRETE MIXER, OR THE
WESTERN HOEDOWN, DON'T DELAY ANY LONGER.
Wednesday, March 8
8:30 a.m. to 11:30 a.m.

General Session
See Page 19
Junior Ballroom

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

Research on Plain and Reinforced Concrete (Sponsored by ACI Committee 115.)
See Page 20
Junior Ballroom

Committee

Chapter Forum
See Page 18
Gold

207 Mass Concrete
Room 433

309 Consolidation of Concrete (Discussions received on published report; possible amendments; research)
Embassy West

318 Standard Building Code (Revisions to 318-71)
Court

348 Structural Safety (Avoidance of gross errors in design and construction; safety factors for design of concrete structures)
Embassy East

351 Foundations for Equipment and Machinery
Mustang

356 Industrialized Concrete Construction (Subcommittee reports; progressive collapse or catastrophic failure)
Silver

442 Response of Buildings to Lateral Forces (Formation of Subcommittees)
Room 406

524 Portland Cement Plastering (Recommended Practice for Portland Cement Plastering)
Room 405

533 Precast Panels (Final draft of recommended practice; subcommittee reports)
Vista

544 Fiber-Reinforced Concrete (State of the art report; international symposium for October 1973)
Room 410

E-701 Manuals of Instruction—Materials
Room 414

E-704 Manuals of Instruction—Building Code
(Drafts of enchyridions on 1971 Code)
Room 418

Wednesday Notes:
1. "Concrete Mixer" cocktail hour, 6:30 p.m., Hotel Adolphus. Got your ticket?
2. Get your ticket for the Awards Luncheon.
3. Buy your tickets now for the Western Hoedown tomorrow evening and for the construction tour on Friday afternoon.

Thursday, March 9
8:30 a.m. to 11:30 a.m.

Symposium on Models of Concrete Structures (Sponsored by ACI Committee 444.)
See Page 22
Embassy Ballroom

Workshop on Proportioning Concrete Mixes (Sponsored by ACI Committee 211.)
See Page 23
Junior Ballroom

Committee

223 Expansive Cement Concretes (Recommended practice; symposium)
Vista

302 Concrete Floor Finishes (Symposium at fall meeting)
Room 414

318 Standard Building Code (Revisions to 318-71)
Court

332 Residential Concrete Work (Summary; progress to date)
Room 410

333 Composite Construction
Room 433

334 Concrete Shell Design and Construction (Subcommittee reports)
Mustang

423 Prestressed Concrete (Tentative recommendations for post tensioned flat slabs)
Embassy West

444 Models of Concrete Structures (Future activities of the committee)
Blue Bonnet

E-702 Manuals of Instruction—Structural Design
(Selection of enchyridion topics and potential authors)
El Corralito

Thursday Notes:
1. See exhibition again before it closes at 6:00 p.m.
2. The construction tour to the Dallas-Fort Worth airport is tomorrow. Get your ticket now if you haven't already done so.
3. Western dinner and square dance with audience participation (not mandatory). Buses leave from the front of the hotel at 6:30 p.m.
MONDAY, MARCH 6, 7:30 p.m.

workshop on information gathering as related to the history of concrete

Sponsored by Committee 120

court room

INTRODUCTION TO THE PHILOSOPHY OF COMMITTEE 120 — Howard H. Newlon, Jr., Chairman of ACI Committee 120, and assistant state highway research engineer, Virginia Highway Research Council, Charlottesville, Virginia

INTERACTION WITH EXISTING EFFORTS (ENGINEERING RELATED) — Neal FitzSimons, Chairman of ASCE History and Heritage Committee, and division director, Systems Evaluation Division, Research Office of Civil Defense, Washington, D. C.; and Douglas L. Griffin, chief, Historic American Engineering Records, National Park Service, Washington, D. C., will lead a discussion to include the following:

ASCE History and Heritage Committee (including ASCE Landmarks)
Historic American Engineering Records (HAER)
Historic American Building Surveys (HABS) and National Building Register
Society of Industrial Archaeology
Smithsonian Institution
Library of Congress
Local Historical Societies

This will be descriptive and will show the steps in designating significant buildings and documents. Examples will be given.

TECHNIQUES FOR INFORMATION GATHERING — Will include demonstrations by means of examples and audience participation, proper use of forms for reporting, photography, and/or measurements.

Engineers’ Role in Historical Research (Archival and Oral Recording) — Neal FitzSimons, chairman, ASCE History and Heritage Committee

Engineers’ Role in Industrial Archaeology — Emory Kemp, Secretary, ACI Committee 120, and professor and chairman of civil engineering, West Virginia University, Morgantown, West Virginia
TUESDAY, MARCH 7, 7:30 p.m.

**Forum on Adhesives**

Sponsored by ACI Committee 114

Embassy Ballroom

High on the list of the research subjects of most critical importance to the continued advancement of concrete technology is "adhesives in concrete construction." Structural organic adhesives are used for many purposes: bonding plastic concrete to hardened concrete, hardened concrete to hardened concrete; patching; bonding stone veneers and metal accessories to concrete; and floor toppings and terrazzo. Despite wide usage of these adhesives, very little data on performance or service life is available. Therefore, a field survey of the performance of these adhesives would be a great help to the concrete industry. It is intended that this survey be based on chemical composition or performance specifications of the adhesives under study rather than on trade names. In this manner engineers, architects, and contractors might estimate the performance of adhesives under consideration for a given application.

WEDNESDAY, MARCH 8, 8:30 a.m.

**General Session**

Junior Ballroom

Session Chairman: Sophus Thompson, general chairman, 68th Annual ACI Convention, and designer, Forest and Cotton, Inc., Dallas, Texas

Presidential Address

W. J. McCoy, president, ACI, and director, consulting services, Master Builders, Cleveland, Ohio

"Recommended Practice for Consolidation of Concrete" — A Proposed ACI Standard

ACI Committee 309. Presentation by Thomas J. Reading, chairman, ACI Committee 309, and chief materials engineer, Missouri River Division, U. S. Corps of Engineers, U. S. Army, Omaha, Nebraska

A Survey of Concrete Bridge and Building Damage from the San Fernando Earthquake

E. O. Pfang, manager, Housing Technology Programs, Building Research Division, National Bureau of Standards, Washington, D. C.; and John E. Breen, professor of civil engineering, Department of Civil Engineering, University of Texas at Austin, Austin, Texas

A Review of the Repair of Two Concrete Buildings Damaged by the San Fernando Earthquake

Clarkson W. Pinkham, president, S. B. Barnes & Associates, Los Angeles, California

Slides as Visual Aids

Introduction

John F. McLaughlin, chairman, ACI Technical Activities Committee, and head, School of Civil Engineering, Purdue University, Lafayette, Indiana

Presentation

Phil J. Walusek, manager, Audio Visual Communications, Portland Cement Association, Skokie, Illinois

WEDNESDAY, MARCH 8, 2:30 p.m.

**Chapter Forum**

Following the meeting of the Board Committee on Chapter Activities

Gold Room

It will be an informal round table for chapter officers, members interested in exploring chapter possibilities in their areas, and other members curious about ACI's chapter program. Committee members and headquarters personnel will be there to answer questions about chapter organization.

Any Chapter member attending the Convention is invited to attend the Forum. We are looking forward to representation from every chapter. Other chapters will be interested in what you have been doing in your area. What makes for a successful chapter program? ... How can chapters aid local construction industry? ... Educational activities ... And any other topic you wish to bring before the group.
Fatigue Test on Reinforced Concrete Two-Way Slabs Models
Michael S. Dallal, associate professor of engineering technology, Department of Engineering Technology, Old Dominion University, Norfolk, Virginia

Bond Pullout-Dowel Force Interaction in Reinforced Concrete Beam Ends
Richard Jackman, Bachelor of Engineering Honors student; Saeed Mirza, associate professor; and Jules Houdes, PhD Candidate, Department of Civil Engineering and Applied Mechanics, McGill University, Montreal, Quebec, Canada

A. J. Boase Award of the Reinforced Concrete Research Council
Erick L. Erickson has been selected by the Reinforced Concrete Research Council to receive the 1972 Arthur J. Boase Award for encouragement and guidance of research over a period of 25 years as Chief of the Bridge Division of the Bureau of Public Roads, and for the utilization of research to improve engineering practice by the preparation and promulgation of pioneering criteria for the design of prestressed concrete and reinforced concrete highway bridges...

Anchorage Capacities of Hooked Bars
James O. Jirsa, associate professor of civil engineering, University of Texas at Austin, Austin, Texas; and Jose L. Marques, research assistant, Department of Civil Engineering, Rice University, Houston, Texas

Nature of the Paste-Aggregate Interface
David Hadley, research engineer, Department of Civil Engineering, Purdue University, Lafayette, Indiana

Reinforcement Requirements for Inverted T-Beams
Richard W. Furlong, associate professor of civil engineering; Sher Ali Mirza; and John S. Ma, research engineers, The University of Texas at Austin, Austin, Texas

Pull-Out Strength Tests of Concrete
Owen Richards, consultant, CIPPOC, Inc. — CONAT, Chevy Chase, Maryland

Laboratory Tests on a Full-Scale Highway Bridge Constructed of Prestressed Concrete Beams, Precast Prestressed Concrete Panel Sub-Deck, and Cast-in-Place Deck
Harry L. Jones, engineering research associate; Howard L. Furr, research engineer; and Eugene Buth, assistant research engineer, Texas Transportation Institute, Texas A&M University, College Station, Texas

Behavior of Connecting Slabs in Shear Wall Buildings
Joseph Schwaighofer; and Michael P. Collins, associate professors, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

Polymer Concrete Beams
Maynard O. Sebousek, structural engineer; and Melvin E. Poad, research civil engineer, U.S. Department of the Interior, Bureau of Mines, Spokane Mining Research Center, Spokane, Washington

The Effect of Volume to Surface Ratio on Behavior of Slender Reinforced Columns Under Sustained Loading
Howard Wu, graduate student; and Mark W. Huggins, professor of civil engineering, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada
symposium on models of concrete structures
Sponsored by ACI Committee 444
embassy ballroom

Session Chairman: James E. Carpenter, chairman, Committee 444, and senior development engineer, Research and Development Division, Portland Cement Association, Skokie, Illinois

Introductory Remarks
James E. Carpenter, session chairman

A Perspective on Structural Modeling
Richard N. White, associate professor of structural engineering, School of Civil and Environmental Engineering, Cornell University, Ithaca, New York; and James E. Carpenter, senior development engineer, Portland Cement Association, Skokie, Illinois

Materials for Structural Models
Saeed M. Mirza, associate professor, Department of Civil Engineering and Applied Mechanics, McGill University, Montreal, Quebec, Canada; Richard N. White, associate professor of structural engineering, School of Civil and Environmental Engineering, Cornell University, Ithaca, New York; and Frederic Roll, professor, The Towne School of Civil and Mechanical Engineering, University of Pennsylvania, Philadelphia, Pennsylvania

Structural Models: Fabrication, Instrumentation and Test Techniques
Weldon W. Aldridge, associate professor, School of Civil Engineering and Environmental Science, University of Oklahoma, Norman, Oklahoma; William L. Gamble, associate professor of civil engineering, Department of Civil Engineering, University of Illinois, Urbana, Illinois; and Gajanan M. Sabnis, senior engineer, Bechtel Corporation, Gaithersburg, Maryland

Correlation of Models and Prototype Results
Otto C. Guedelhoefer, project engineer, Wiss, Janney, Elstner, and Associates, Northbrook, Illinois

Panel Discussion
Moderator: Frederic Roll, professor, The Towne School of Civil and Mechanical Engineering, University of Pennsylvania, Philadelphia, Pennsylvania

Panel: John E. Breen, professor of civil engineering, Department of Civil Engineering, University of Texas at Austin, Austin, Texas
Edward Cohen, partner, Ammann and Whitney, Consulting Engineers, New York, New York
Eivind Hognestad, director, engineering research, Research and Development Division, Portland Cement Association, Skokie, Illinois
R. E. Rowe, director of research and development, Cement and Concrete Association, Wexham Springs, Slough, Bucks., England

workshop session

Session Chairman: John C. Wycoff, vice-president of engineering, Solite Corporation, Richmond, Virginia

Presentations on the application of the three ACI standard recommended practices for proportioning concrete mixes:
(1) ACI 211.1-70 on proportioning normal weight concrete;
(2) ACI 211.65 on proportioning no-slump concrete; and
(3) ACI 211.2-69 on proportioning structural lightweight concrete.

Preceding the discussions on each recommended practice, the history or state-of-the-art of proportioning concrete will be given with emphasis on the development of well known relationships of water/cement ratio, absolute volume design, significance of air-entrainment, and the recently adopted proportioning procedure by the unit-weight method.

The intent of the session is to show the simplicity and similarity in proportioning the different types of concrete mixes. Worksheets will be available to each attendant at the session for the convenience of following each design presentation.

History of Concrete Proportioning
William A. Cordon, associate professor, Department of Civil Engineering, Utah State University, Logan, Utah

Proportioning Normal Weight Concrete
John R. Wilson, director, technical services, Cement Division, Martin Marietta Corporation, Baltimore, Maryland

Proportioning No-Slump Concrete
Paul Kliger, director, Concrete Materials Research Department, Research and Development Division, Portland Cement Association, Skokie, Illinois

Proportioning Structural Lightweight Concrete
William W. Hotaling, Jr., chief engineer, Expanded Shale, Clay and Slate Institute, Washington, D.C.
THURSDAY, MARCH 9, 2:30 p.m.
symposium on proportioning concrete mixes
Sponsored by ACI Committee 211
junior ballroom

symposium session

Session Chairman: Edward J. Hyland, chairman, Subcommittee 5 of ACI Committee 211, and manager, Sales and Engineering, Chicago Fly Ash Company, Chicago, Illinois

Proportioning Normal Weight and Lightweight Structural Concrete Mixtures Using Shrinkage Compensating Expansive Cements
Cedric Willson, vice president, research and development, Concrete Division, Texas Industries, Inc., Arlington, Texas

Proportioning of Air-Entrained Concrete

Concrete Mix Design for Pumping -- The Influences of Material Properties --
Francis C. Wilson, consulting engineer, Milwaukee, Wisconsin

Proportioning Concrete for a Specific Cement Content and/or for a Specified Unit Weight
Sandor Popovics, professor of engineering and technology, Department of Engineering, Northern Arizona University, Flagstaff, Arizona

Gap-Graded Concrete Optimum Mixture Proportioning
Shu-tien Li, professor emeritus and consulting engineer; and V. Ramakrishnan, professor of civil engineering, South Dakota School of Mines and Technology, Rapid City, South Dakota

Mixture Designs for Mass Concrete Sections
Cecil H. Willetts, concrete engineer, Alabama Power Company, Birmingham, Alabama

Reproportioning Mixes Containing Water Reducers
Donald J. Hall, chief, Foundations and Materials Branch, U. S. Army Corps of Engineers, Lower Granite Lock and Dam, Lewiston, Idaho

A Method of Proportioning Structural Concrete Mixtures with Fly Ash and Other Pozzolans
C. E. Lovewell, vice president, Sales and Engineering; and E. J. Hyland, manager, Sales and Engineering, Chicago Fly Ash Company, Chicago, Illinois

Proportioning and Controlling High-Strength Concrete
Ronald L. Blick, general manager, Engineering and Materialite Sales; Charles F. Petersen, manager, Quality Control Department; and Michael E. Winter, Engineering Sales Department, Material Service Division, General Dynamics, Chicago, Illinois

THURSDAY, MARCH 9, 2:30 p.m.
symposium on new methods and materials for mixing, transporting, and placing mass concrete
Sponsored by ACI Committees 207 and 304, and USCOLD Concrete Committee
embassy ballroom

Session Co-Chairman: Donald L. Houghton, chairman, ACI Committee 304, and supervising civil engineer, U. S. Army Engineer Division, North Pacific, Portland, Oregon

Session Co-Chairman: Donald J. Hall, chairman, Subcommittee III, ACI Committee 304, and chief, Foundations and Materials Branch, U. S. Army Corps of Engineers, Lower Granite Lock and Dam, Lewiston, Idaho

The Ultimate Gravity Dam
Jerome M. Raphael, professor of civil engineering, Division of Structural Engineering and Structural Mechanics, University of California, Berkeley, California

Compaction of Mass Concrete with Vibratory Roller
R. W. Cannon, senior civil design engineer, Research and Development, Tennessee Valley Authority, Knoxville, Tennessee

Lowering the Cost of Concrete Dams by Elimination of Joints
Roy W. Carlson, research associate, University of California, Berkeley, California

Plant and Procedure Concept for Rapid Construction of Concrete Dams

Use of Concrete of Low Portland Cement Content in Combination with Pozzolans and Admixtures in Construction of Concrete Dams
Bryant Mather, supervisory research civil engineer, Concrete Division, Corps of Engineers, Vicksburg, Mississippi

Steering Committee for Symposium on New Methods and Materials for Mixing, Transporting, and Placing Mass Concrete
Donald L. Houghton, chairman, ACI Committee 304
R. W. Cannon, chairman, ACI Committee 207
William R. Waugh, chairman, USCOLD Concrete Committee
Donald J. Hall, chairman, Subcommittee III, ACI Committee 304
FRIDAY, MARCH 10, 8:30 a.m.

Symposium on New Methods and Materials for Mixing, Transporting, and Placing Mass Concrete

Sponsored by ACI Committees 207 and 304, and USCOLD Concrete Committee

Embassy Ballroom

Session Co-Chairman: Donald L. Houghton, chairman, ACI Committee 304, and supervising civil engineer, U.S. Army Engineer Division, North Pacific, Portland, Oregon

Session Co-Chairman: Donald J. Hall, chairman, Subcommittee III, ACI Committee 304, and chief, Foundations and Materials Branch, U.S. Army Corps of Engineers, Lower Granite Lock and Dam, Lewiston, Idaho

Continuous Vertical Placement of Mass Concrete
William R. Waugh, consultant, Arlington, Virginia

Formwork Concepts for Rapid Construction of Concrete Dams
Chester I. Williams, president, Williams Form Engineering Corporation, Grand Rapids, Michigan

Use of Regulated-Set Cement and Expansive Cement in Mass Concrete
George J. Verbeck, director, Materials Research, Research and Development Division, Portland Cement Association, Skokie, Illinois

Problems Attending Use of Higher Strength Concrete in Thin Arch Dams
Merlin D. Copen, head, Concrete Dams Section, Division of Design, U.S. Bureau of Reclamation, Denver, Colorado

Computerized Concrete Control at Large Projects
Jerry D. Richards, civil engineer; and Elwood L. Ore, formerly supervisory materials engineer, U.S. Bureau of Reclamation, Denver, Colorado

Tubular Structures
Fazlur R. Khan, partner and chief structural engineer, Skidmore, Owings and Merrill, Chicago, Illinois

Resistance to Earthquakes — Philosophy, Ductility and Details
Mark Fintel, director, Engineering Services Department, Portland Cement Association, Skokie, Illinois

Design of Concrete Shear Walls for Earthquake Forces
Paul F. Fratessa, associate, H. J. Degenkolb & Associates, San Francisco, California

Optimum Design Approach for High-Rise Concrete Buildings
Hal S. Iyengar, associate partner and senior project engineer; and Fazlur R. Khan, partner and chief structural engineer, Skidmore, Owings and Merrill, Chicago, Illinois

Design of Shearwalls for Ductility
C. Michael Allen, structural design engineer, Adjeleian and Associates Ltd., Ottawa, Ontario; Leslie G. Jaeger, dean of engineering, University of New Brunswick and associated consultant, Adjeleian and Associates Ltd.; and V. Charles Fenton, chief structural design engineer and associate, Adjeleian and Associates Ltd., Ottawa, Ontario, Canada

Continuous Approximation of Large Regular Frameworks and the Problem of a Substitute Frame
Zdenek P. Bazant, associate professor of civil engineering; and Martin Christensen, graduate research assistant, Department of Civil Engineering, Northwestern University, Evanston, Illinois
exhibition
mezzanine

hours:

Tuesday, 1:00 p.m. to 6:00 p.m.
Wednesday, 10:00 a.m. to 6:00 p.m.
Thursday, 10:00 a.m. to 6:00 p.m.

exhibitors:

Adhesive Engineering Co. – Structural concrete bonding process using epoxy systems to restore integrity.
Associated Spring Corporation, Concrete Accessories Division – Concrete accessories for concrete products, post tensioning, paving, and the construction industry.
Concrete Testing Supplies, Inc. – Cylinder molds.
Erico Products, Inc. – Mechanical splices for reinforcing bars.
Fegles-Power Service, Inc. – Slipform concrete construction.
Free-Tie Corporation – Removable, reusable form tie rods applicable to architectural concrete and gang forming.
MTS Systems Corporation – Controlled concrete fracture with closed-loop electrohydraulic test machines.
Manufactured Construction Products Inc. – Manufactured construction products.
Master Builders – Pozzolith admixture for improving concrete.
National Ash Association, Inc. – Coal ash products and literature.
PPG Industries, Inc. – Curing agents and concrete preservatives.
Protex Industries, Inc. – Admixtures and allied products.
Sika Chemical Corporation – Adhesives, admixtures, sealants, surface treatments.
Teledyne Terrametrics – In Situ instruments for concrete, soil, and rock.
Thermex Metallurgical, Inc. – Process for the welding of rebars.

THURSDAY, MARCH 9, 12:00 NOON

awards luncheon
grand ballroom

Come meet the awardees and new ACI officers at noon. The luncheon will feature a Cash Bar. Have fun, enjoy a good lunch, and watch the awards presentation show.

awards program:

Honorary Memberships:
Arthur R. Anderson
Fritz Leonhardt

Henry C. Turner Medal:
George Winter

Alfred E. Lindau Award:
Phil M. Ferguson

Henry L. Kennedy Award:
Edward G. Navy

Charles S. Whitney Award:
Research and Development Laboratories,
Portland Cement Association

Wason Medal for Research:
G. L. Kalousek
E. J. Benton

Wason Medal for Most Meritorious Paper:
James G. MacGregor
John E. Breen
Edward O. Pfang

Raymond C. Reese Structural Research Award:
James G. MacGregor
John E. Breen
Edward O. Pfang

Distinguished Service Award:
Albyn Mackintosh
Robert E. Price
Hector I. King
Peter Smith

Recognition of Retiring Officers
Report of Tellers
Introduction of New Officers
New President’s Address
Presentation of Memento to Retiring President
ACI AWARDS FOR 1972

Honorary Memberships

Arthur R. Anderson ... For outstanding service to the Institute and innovations in the translation of theory to practice in the building of concrete structures.

Fritz Leonhardt ... For world-wide eminence in teaching, research, and design of concrete structures.

Henry C. Turner Medal

George Winter ... For notable achievement in and service to the concrete industry in the fields of research, education, writings, and through leadership in the Building Code Committee.

Alfred E. Lindau Award

Phil M. Ferguson ... For major contributions to reinforced concrete design practice through imaginative research, effective service on technical committees, and publications, including an outstanding textbook.

Henry L. Kennedy Award

Edward G. Nawy ... In recognition of outstanding service in technical and administrative committee work, and his leadership in chapter activities of the American Concrete Institute.

Charles S. Whitney Award

The Research and Development Laboratories of the Portland Cement Association ... For noteworthy work in research and development which has outstandingly added to knowledge and increased the usefulness of concrete.

Wason Medal for Research


Wason Medal for Most Meritorious Paper


Raymond C. Reese Structural Research Award


Distinguished Service Award

Albyn Mackintosh ... Chairman, Committee 531, Concrete Masonry Structures — 1966-1972; Contributed substantially to completion of committee report, "Concrete Masonry Structures — Design and Construction," Title 67-23, May, June 1970, ACI JOURNAL.

Robert E. Price ... Chairman, Committee 517, Accelerated Curing of Concrete at Atmospheric Pressure — 1967-1970; Contributed to ACI Standard 517-70, "Recommended Practice for Atmospheric Pressure Steam Curing of Concrete," Secretary and now Chairman, Committee 223, Expansive Cement Concretes and contributed to their report "Expansive Cement Concrete — Present State of Knowledge," Title 67-35, August 1970, ACI JOURNAL.

Hector I. King ... Chairman, Committee 211, Proportioning Concrete Mixes — 1969-1972; Contributed to revised ACI Standard 211.2-69, "Recommended Practice for Selecting Proportions for Structural Lightweight Concrete;" Helped prepare the workshop/symposium "Proportioning Structural Lightweight Concrete" for presentation at this convention; Member Committee 532, Lightweight Concrete Masonry.

Peter Smith ... Chairman, Committee 504, Joint Sealants — 1968-1972; Contributed to the report, "Guide to Joint Sealants for Concrete Structures," Title 67-31, July 1970, ACI JOURNAL; Led the sponsorship of a convention session, "Sealing Joints in Concrete Structures" in Denver, March 1971; Member, Committee 201 and the Technical Activities Committee.
**ladies’ program**

Monday, March 6
9:00 a.m. - 4:00 p.m.
  Hospitality
  Registration

Tuesday, March 7
9:00 a.m.
  Hospitality
  Registration
  “Ladies Option” — Walking Tour
  Shopping
  Museums
  North Park
  Quadrangle
  Neiman-Marcus, Lunch Zodiac Room
  (Dutch Treat)

Wednesday, March 8
9:00 a.m.
  Hospitality
10:30 a.m.
  Dallas Scenic Tour — $5.00
    John F. Kennedy Memorial
    Frank Lloyd Wright Theatre Center
    Lunch (favors), Southern Methodist University
    Owens Fine Arts Center
  Bob Hope Theatre
12:00 noon
  Awards Luncheon — $7.00
  Tickets available at Convention Registration Desk.
6:30 p.m.
  “Concrete Mixer” cocktail hour — $4.00
  Tickets available at Convention Registration Desk.

Thursday, March 9
9:00 a.m.
  Hospitality
10:15 a.m.
  Province House, Richardson — $5.00
    Luncheon and Style Show
    “The Miracle at Pentecost”
6:30 p.m.
  Austin Patio Dude Ranch — $8.00
  (Ticket required.)

Friday, March 10
10:00 a.m.
  Hospitality

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**DALLAS CONVENTION COMMITTEE**

Honorary Chairman
CEDRIC WILLSON

General Chairman
SOPHUS THOMPSON

Co-Chairman
JOE V. WILLIAMS

President, North East Texas Chapter, ACI
JACK ROSENBundle

Treasurer
C. GLENN BARNES

Technical Program
NOEL EVERARD

Secretary
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Finance Committee
JOHN L. TANNER, III

Arrangements Committee
BILL RURY

Publicity Committee
TERRELL R. HARPER

Transportation Committee
EUGENE W. PALMER

Professional Committee
ALFRED P. HELM

Ladies’ Committee
MRS. CEDRIC WILLSON

Hospitality Chairman
MRS. LLEWELLYN POWELL

Social Chairman
MRS. JOE WILLIAMS

Tour Chairman
MRS. J. E. ROSENBundle
future conventions

1972 – October 28 – November 3
Diplomat Resort and Country Club
Hollywood, Florida

1973 – March 3-9
Chalfonte-Haddon Hall
Atlantic City, New Jersey

1973 – October 6-12
Chateau Laurier
Ottawa, Ontario, Canada

1974 – March 30 – April 5
Sheraton-Palace Hotel
San Francisco, California

1974 – October 26 – November 1
Sheraton-Biltmore Hotel
Atlanta, Georgia