november 1-6
chase-park plaza
in St. Louis
COMMITTEE
209 Subcommittee III, Creep and Shrinkage in Concrete (Outline for report) Crown
213 Subcommittees A and B, Lightweight Aggregate Concretes (Revision of ACI 213 Guide) Regency
222 Corrosion of Metals in Concrete (Draft of Guide) Palladian
345 Concrete Bridge Decks (Draft of Recommended Practice) Coach
351 Foundations for Equipment and Machinery (Gathering information) Tiara Lounge North
423 Prestressed Concrete (Tentative Recommendations) Park
426 Shear and Diagonal Tension (Committee Report) Lido
533 Precast Panels (Review) Colonial

7 p.m. to 10 p.m.

Ad Hoc Committee on Institute Activities Empire
214 Evaluation of Results of Strength Tests of Concrete (Rough draft of Revised Recommended Practice) Tiara Lounge North
301 Specifications for Structural Concrete (Final revision of ACI 301-66) Regency
345 Concrete Bridge Decks (Draft of Recommended Practice) Coach
350 Sanitary Engineering Structures Crown
441 Concrete Columns (Summary report) Lido
503 Adhesives for Concrete (Review of draft) Colonial
512 Precast Structural Concrete (Draft of Recommended Practice) Park
517 Accelerated Curing of Concrete at Atmospheric Pressure Palladian

TUESDAY, Nov. 3 9 a.m. to 12 noon

118 Use of Computers (Committee reports) Lido
201 Durability of Concrete (Committee report) Empire
213 Subcommittee D, Lightweight Aggregate Concretes (Revision of ACI 213 Guide) Regency
223 Expansive Cement Concretes (Recommended Practice) Tiara Lounge North
303 Architectural Concrete (Draft, State-of-the-art report) Crown
318 Standard Building Code (Final amendments, commentary, nomenclature) Zodiac Roof Lounge
348 Structural Safety (Denver symposium, position statement, subcommittee reports) Coach
438 Torsion (Design recommendations and current research) Park
533 Precast Panels (Review) Colonial
543 Concrete Piles (Design, Chapter 2) Stockholm
546 Repair of Concrete (Content of report; outline of topics) Palladian

COMMITTEE
224 Cracking (Proposed committee report) Crown
309 Consolidation of Concrete (Draft of Recommended Practice; Research on vibration) Colonial
318 Standard Building Code (Final amendments, commentary, nomenclature) Zodiac Roof Lounge
332 Residential Concrete Work (Proposed recommended practice) Stockholm
333 Composite Construction (Committee report) Palladian
348 Structural Safety (Denver symposium, position statement, subcommittee reports) Coach
349 Criteria for Nuclear Containment Vessels (Chapter 2 of Design Criteria) Lido
442 Response of Buildings to Lateral Forces (Symposium) Empire
532 Lightweight Concrete Masonry (Sound transmission and fire test data) Park
E-703 Manuals of Instruction — Construction (Mission and organization of committee) Venetian

The Wednesday committee meetings run concurrently with the Symposium listed on pages 4 and 5

WEDNESDAY, Nov. 4 9 a.m. to 12 noon

Concrete — Year 2000 Tiara Lounge North
114 Research and Development (Research and Development statements and programs) Colonial
213 Lightweight Aggregate Concretes (Revision of ACI 213 Guide) Regency
303 Architectural Concrete (Draft, State-of-the-art report) Crown
304 Measuring, Mixing, Transporting, and Placing Concrete (Revision of Recommended Practice; Symposium) Lido
305 Hot Weather Concrete (Final draft) Palladian
318 Standard Building Code (Final amendments, commentary, nomenclature) Zodiac Roof Lounge
347 Formwork for Concrete (Lateral pressures) Empire
428 Limit Design (Committee report) Coach
439 High-Strength Reinforcement in Concrete (First draft, committee report) Park
543 Concrete Piles (Design, Chapter 2) Stockholm
E-701 Manuals of Instruction — Materials (Organization of committee) Venetian
COMMITTEE

2 p.m. to 5 p.m.

Meeting Room

Board Committee on Chapter Activities Crown
211 Proportioning Concrete Mixes Colonial
(Symposium and Workshop) Park
215 Fatigue of Concrete (Committee report) Park
311 Inspection of Concrete (Upgrading of Manual
on Concrete Inspection) Empire
318 Standard Building Code (Final amendments,
commentary, nomenclature) Zodiac Roof Lounge
336 Combined Footings and Pier Foundations
(Report discussion and review) Palladian
421 Design of Reinforced Concrete Slabs
(Subcommittee reports) Regency
428 Limit Design (Committee report) Coach
531 Concrete Masonry Structures (Masonry prism
testing and committee assignments) Lido
543 Concrete Piles (Design, Chapter 2) Stockholm

7 p.m. to 10 p.m.

212 Admixtures (Draft of Guide) Coach
215 Fatigue of Concrete (Committee report) Park
444 Models of Concrete Structures
(Progress of subcommittees) Lido
515 Coatings for Concrete Palladian

The Thursday morning committee meetings run concurrently with
the Building Code Explanation and Preview listed on page 8

THURSDAY, Nov. 5 9 a.m. to 12 noon

Board Committee on Coordination in the
Concrete Industry Stockholm
308 Curing Concrete
(Recommended Practice for Curing) Regency
516 High Pressure Steam Curing (Cooperative
testing; writing recommended practices) Coach
523 Insulating and Cellular Concretes (Discussion of
Guide for Concretes over 50 pcf) Lido

This Symposium runs concurrently with Wednesday's
committee meetings

WEDNESDAY, Nov. 4, 1970

SYMPOSIUM ON THE IMPACT OF COMPUTERS
ON THE PRACTICE OF STRUCTURAL
ENGINEERING IN CONCRETE
by ACI Committee 118

Starlight Roof

9 a.m.

techniques

Introductory Remarks

V. M. Malhotra, Chairman, ACI Committee 118, senior
scientific officer, Construction Materials Section, Mineral
Processing Division, Department of Energy, Mines and
Resources, Ottawa, Ontario, Canada

Computer Aided Design of Reinforced Concrete Buildings
John M. Biggs, professor; Robert D. Logcher, associate
professor, Department of Civil Engineering, Massachusetts
Institute of Technology, Cambridge, Massachusetts;
and Harry N. Wenke, senior structural engineer, Portland
Cement Association, Skokie, Illinois

A Problem-Oriented-Language for the Design of
Reinforced Concrete Structures
R. J. Allwood, Director, GENESYS Centre, University of
Technology, Loughborough, Leicestershire, England

Command Language Interface for Automatic Design of
Structures in Three Dimensions
Andre A. Palejs, assistant chief structural engineer,
Parsons Jurden Corporation, New York, New York

Time Sharing and Remote Job Entry Concepts in the
Concrete Industry
A. M. Lount, chief structural engineer, Associated Engineer-
ing Services, Ltd., Edmonton, Alberta, Canada

2 p.m.

applications

CHAIRMAN: A. M. Lount, chief structural engineer,
Associated Engineering Services, Ltd.,
Edmonton, Alberta, Canada

On Limit Analysis of Concrete Structures and
Linear Programming
A. M. Protsenko and V. V. Vlasov, GOStROY (Concrete
and Reinforced Concrete Research Institute), Moscow,
U.S.S.R.

Interactive Design of Concrete Structures
Stanley D. Lindsey, president; and Jack R. Horner,
Stanley D. Lindsey and Associates, Nashville, Tennessee

Computer Applications in Analysis and Concrete Design
William C. Cowan, structural engineer, Bureau of Recla-
mation, U.S. Department of the Interior, Denver, Colorado

Applications of a Digital Computer to the Design of
Concrete Mixes for Large Projects
V. M. Malhotra, senior scientific officer; and P. D. Hibi-
bert, Construction Materials Section, Mineral Processing
Division, Department of Energy, Mines and Resources,
Ottawa, Ontario, Canada

7 p.m.

graphics and review of analysis and design papers

CHAIRMAN: Milo Ketchum, vice-president, Ketchum,
Konkel, Ryan and Hastings, Old Saybrook,
Connecticut

Automatic Design and Drafting of Reinforced Concrete
Bridge Structures
Stanley W. Woods, bridge development engineer; and
Leon J. Schuchardt, bridge computer engineer, Wisconsin
Department of Transportation, Madison, Wisconsin

State of the Art on Computer Graphics Applications
 Subcommittee IV, ACI Committee 118, to be presented
by John E. Sadler, Subcommittee Chairman, and design
engineer, Fling and Eeman, Inc., Columbus, Ohio

General Report on Analysis and Design Papers
Submitted for Symposium Volume
V. Ramakrishnan, professor, Department of Civil Engi-
neering, South Dakota School of Mines and Technology,
Rapid City, South Dakota

4
THURSDAY, Nov. 5, 1970

9 a.m.

BUILDING CODE
EXPLANATION AND PREVIEW
by ACI Committee 318

... Khorassan Room

CHAIRMAN: Robert E. Philleo, Chairman, ACI Technical Activities Committee, and chief, Research and Development and Standards Section, Office, Chief of Engineers, Washington, D.C.

Introduction and General Discussion

Edward Cohen, Chairman, Committee 318, and partner, Ammann and Whitney, New York, New York

Explanation of Proposed Code, as Published in February 1970 ACI JOURNAL

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

Discussion of Amendments to Proposed Code, as Published in September 1970 ACI JOURNAL

Ashby Gibbons, Committee 318 Editorial Task Group, and manager, Codes and Specifications, Portland Cement Association, Skokie, Illinois

Discussion of New Amendments Proposed by Committee 318

W. Gordon Plewes, Committee 318 Editorial Task Group, and senior research officer, Division of Building Research, National Research Council of Canada, Ottawa, Ontario, Canada

Commentary, Handbooks, Notation

Samuel J. Henry, Ex Officio Member, Committee 318 Editorial Task Group, and director of engineering, American Concrete Institute, Detroit, Michigan

Question and Answer Period

Chairman Edward Cohen presiding, answers to be supplied by Committee 318 Subcommittee Chairmen:

William C. E. Becker — Formwork, Embedded Pipes, and Construction Joints

W. Burr Bennett — Prestressed Concrete; Computer Coordination

Delmar L. Bloom — Materials; Concrete Quality; Mixing and Placing Concrete

Frank B. Brown — Walls

T. Z. Chastain — Shells and Folded Plate Members

Noel J. Everard — Composite Concrete Flexural Members

Phil M. Ferguson — Development of Reinforcement

William A. Heitmann — General Requirements

Eivind Hognessad — Shear and Torsion

Fritz Kramrisch — Footings

W. Gordon Plewes — Strength Evaluation of Existing Structures

Raymond C. Reese — Analysis and Design; Strength and Serviceability Requirements; Flexure and Axial Loads

Theodore O. Reyhner — Special Provisions for Seismic Design

Paul F. Rice — Details of Reinforcement

Morris Schupack — Precast Concrete

Chester P. Siess — Slab Systems with Multiple Square or Rectangular Panels

John P. Thompson — Definitions

George Winter — Analysis and Design; Strength and Serviceability Requirements; Flexure and Axial Loads

Question cards will be passed out for your convenience.

GENERAL SESSION

... Khorassan Room

CONVENTION CHAIRMAN AND WELCOME TO ST. LOUIS: A. Carl Weber, consultant, Laclede Steel Company, St. Louis, Missouri

PRESIDING OFFICER: S. D. Burks, President, ACI, and western regional manager, W. R. Grace and Company, San Leandro, California

Presentation of Code by Committee 318

Floor Discussion

Vote — Whether or Not Code, as Amended, Should Go to Letter Ballot of ACI Membership

NOTE TO ACI MEMBERS

Each ACI member will be given a packet of ballots at registration. It is the only set that will be issued you at this meeting. It is therefore important to protect them from loss and to bring them with you to the General Session at which matters will be presented for vote.
FRIDAY, Nov. 6, 1970

RESEARCH ON PLAIN AND REINFORCED CONCRETE
by ACI Committee 115

... Khorassan A

CHAIRMAN: J. H. Walker, chairman, ACI Committee 115, and vice-president for research and development, Portland Cement Association, Skokie, Illinois

SECRETARY: Herbert K. Cook, Secretary, ACI Committee 115, and vice-president for research and engineering, Master Builders, Cleveland, Ohio

Ten brief confidential reports will be featured on research in progress. Since this material will not be published until the research programs are completed, here is an ideal opportunity to learn of the latest results from ongoing research programs.

plain concrete

Low Cycle Fatigue Behavior of Plain Concrete Subjected to Compressive Stresses
M. E. Awad, research assistant; and H. K. Hilsdorf, professor of civil engineering, Department of Civil Engineering, University of Illinois, Urbana, Illinois

Effect of Prolonged Saturation of Concrete with Certain Monomers
Adrian Pauw, Robert Lee Tatum professor of engineering; and Louis Hemphill, associate professor engineering, College of Engineering, University of Missouri, Columbia, Missouri

Moisture Movement through Low Density Concrete
F. C. McCormick, associate professor, department of civil engineering, University of Virginia, Charlottesville, Virginia

Time Dependent Behavior of Concrete Under Cyclic Humidity and Sustained Loading
H. R. Alusi, graduate student; V. Bertero, professor of civil engineering; and M. Polivka, professor of civil engineering, University of California, Berkeley, California

A Cold-Formed Mechanical Splicing System for Reinforcing Bars
Adrian Pauw, Robert Lee Tatum professor of engineering; and Charles N. McKinnon, Jr., associate professor of engineering, College of Engineering, University of Missouri, Columbia, Missouri

reinforced concrete

Strength of Prestressed Concrete Pressure Vessels
B. I. Karlsson, research assistant, University of Illinois, Urbana, Illinois

On Stress-Strain Relations for Random Wire
Reinforced Concrete and Load Carrying Capacity
W. F. Chen, assistant professor; and J. L. Carson, senior student, Department of Civil Engineering, Lehigh University, Bethlehem, Pennsylvania

FRIDAY, Nov. 6, 1970

CONSTRUCTION SESSION

... Starlight Roof

CHAIRMAN: M. J. Holland, district engineer, Portland Cement Association, St. Louis, Missouri

Dimensional Tolerances in a Tall Concrete Building
Philip W. Birkeland, associate partner, ABAM Engineers, Inc., Tacoma, Washington; and Leonard J. Westhoff, project engineer, Donald M. Drake Company, Portland, Oregon

Use of Time-Lapse Photography to Evaluate Slipform Paving and Concrete Bridge Deck Construction
John A. Havers, professor of construction and engineering management; and O. Oladeju, graduate student, School of Civil Engineering, Purdue University, Lafayette, Indiana

Integrating Architecture and Structure:
Galleria Post Oak — Houston
D. Wade Madeley, vice-president; and Elmer Ellisor, owner, Ellisor Engineers, Inc., Houston, Texas

Expansion of Concrete on a Bridge Deck
E. L. Fowler, associate professor of civil engineering, Department of Civil Engineering, University of Alberta; E. F. Holmgren, concrete consultant, Materials Testing Laboratories Ltd., Edmonton, Alberta, Canada

Boundaries of Responsibilities in the Design and Construction Stages

FRIDAY, Nov. 6, 1970

DESIGN AND ANALYSIS SESSION

... Khorassan A

CHAIRMAN: E. J. Peltier, president, Sverdrup and Parcel and Associates, Inc., St. Louis, Missouri

Post-Tension Concrete as a Building Material
Peter E. Ellen, managing director, Elstress Pty. Ltd., Hornsby, N.S.W., Australia
Behavior of Continuous Prestressed Beams Composed of Precast Segments Joined by Special Scarf Connections
Alfred G. Bishara, associate professor of civil engineering, Department of Civil Engineering, Ohio State University, Columbus, Ohio

A Simplified Vibration Analysis of Tall Building Frames with Shear Walls
Rudolph Szilard, professor of civil engineering, University of Hawaii, Honolulu, Hawaii

Analysis and Design of a Concrete Plate Supported on Flexible Prestressed Concrete Piles

The Effect of Load Placement on Stresses in Rigid Pavement
B. F. McCullough, assistant professor of civil engineering; W. R. Hudson, associate dean of engineering; and Harvey J. Treybig, research engineer; Center for Highway Research, University of Texas at Austin, Austin, Texas

ST. LOUIS CONVENTION COMMITTEE

This convention would not have been possible without the complete cooperation and dedicated work of the members of the St. Louis area concrete and construction industry and the St. Louis area members of the American Concrete Institute.

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PROGRAM

Ladies Registration and Headquarters
Georgian Room

Monday, November 2
9:00 a.m.—Registration; Hospitality
Registration Fee: $10.00

Tuesday, November 3
8:30 a.m.—Hospitality
10:00 a.m.—St. Louis Tour
12:15 p.m.—Luncheon, Demenil House, Historic Homes, Climatron, Gateway Arch, Riverfront, Midtown, Clayton Shopping Centers

Wednesday, November 4
8:30 a.m.—Hospitality
11:00 a.m.—Ladies are invited to participate in the Metro-St. Louis Inspection Trip

Thursday, November 5
8:30 a.m.—Hospitality
6:30 p.m.—“Concrete Mixer” Cocktail Party Khorassan Room

Friday, November 6
9:00 a.m.—Hospitality

Wednesday, November 4
INSPECTION TOUR
$6.00 per person, includes luncheon
11:00 a.m.—Leave Chase-Park Plaza
Tour Riverfront, Gateway Arch, Cathedral, Spanish Pavilion, Busch Stadium
12:15 p.m.—Luncheon, Stadium Club, Priory Chapel, Planetarium, Ralston Purina Buildings, Monsanto Complex, Washington University
4:00 p.m.—Return to Chase-Park Plaza
The 1970 ACI Convention Committee acknowledges and is grateful for the cooperation and contributions of the following corporations and individuals who made possible the entertainment features and Ladies Program for the meeting.

AHAL Contracting Company, Inc.
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CONVENTION SCHEDULE

1971  *  March 6-12, Denver Hilton Hotel, Denver, Colorado.
        *  October 30 - November 5, Statler Hilton Hotel, Buffalo, New York.
1972  *  March 4-10, Statler Hilton Hotel, Dallas, Texas