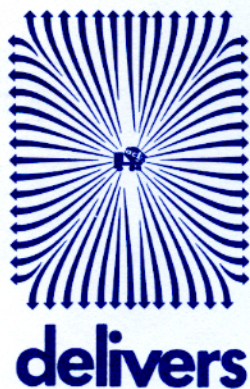


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1971

AC9
buffalo





PROGRAM
FALL CONVENTION

OCTOBER 31 - NOVEMBER 5, 1971

BUFFALO, NEW YORK

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***American Concrete Institute**

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***Address**

American Concrete Institute

P.O. Box 4754

Detroit, Michigan 48219

convention

fall convention

OCTOBER 31 - NOVEMBER 5, 1971

at the

STATLER HILTON
Buffalo, New York

registration

mezzanine lounge

sunday, october 31 1:00 p.m. to 5:00 p.m.
monday, november 1 through
thursday, november 4 8:00 a.m. to 5:00 p.m.
friday, november 5 8:00 a.m. to 12:00 noon

registration fees:

ACI Members	\$20.00
Nonmembers	\$30.00
Students	Free

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

special events

forum on consolidation of fresh concrete Tuesday, 7:00 p.m. in the Georgian Room. Those interested in cooperative or coordinated research and development on this subject are invited to attend the forum. Sponsored by ACI Committee 114.

atomic reactor inspection tour go by bus on Wednesday afternoon to see the Atomic Reactor at the University of New York at Buffalo. Get your ticket early; attendance is limited.

"concrete mixer" social hour Wednesday, 6:30 p.m. in the Terrace Room. Please wear your badge.

niagara power project inspection tour go by bus on Thursday afternoon. Get your ticket early; attendance is limited.

publications display in the Mezzanine Lounge. All the current ACI publications are there. Orders are taken at the Registration Desk nearby.

program

Sunday, October 31

9:00 a.m. - 5:00 p.m.

Administrative committee meetings

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

Educational committee meetings

Monday, November 1

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

Administrative and technical committee meetings

Tuesday, November 2

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

Administrative and technical committee meetings

7:00 p.m. - 10:00 p.m.

Forum on Consolidation of Concrete **Georgian Room**

Wednesday, November 3

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

General Session **Terrace**

Afternoon

Tour to State University of New York at Buffalo
Atomic Reactor

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

Research on Plain and Reinforced Concrete
(Committee 115) **Georgian**

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

Symposium on New Methods of Mixing, Transporting,
and Placing Concrete (Committee 304) **Embassy**

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

Administrative and technical committee meetings

6:30 p.m.

Concrete Mixer

Thursday, November 4

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

Symposium on Responsibility for Inspection
(Committees 311 and 348) **Georgian**

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

Technical committee meetings

Afternoon

Tour to Niagara Power Project

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

Symposium on Response of Buildings
to Lateral Forces (Committee 442) **Georgian**

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

Symposium on Realism in the Application of
ACI Standard 214-65 (Committee 214) **Embassy**

Friday, November 5

9:00 a.m. - 5:00 p.m.

Technical committee meetings

notes:

program breakfasts (by invitation only):

wednesday, november 3, 7:00 a.m.—

breakfast for program participants in General Session; Symposium on New Methods of Mixing, Transporting, and Placing Concrete; and Research on Plain and Reinforced Concrete. Governors Room.

thursday, november 4, 7:00 a.m.—

breakfast for program participants in Symposium on Responsibility for Inspection; Symposium on Response of Buildings to Lateral Forces and Symposium on Realism in the Application of ACI Standard 214-65. Governors Room.

Floor Plans on Pages 14 and 15 of Your Program.

ACI Headquarters and Press Room in the Grover Cleveland Room.

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.

sunday, october 31 2 p.m. to 5 p.m.

committee	meeting room
E-601 Seminars and Workshops (1972 Seminar schedule)	Room 5
E-701 Manuals of Instruction — Materials (Documents completed and in preparation)	Room 1
E-702 Manuals of Instruction — Structural Design (Preparation of educational materials in structural area; assignment of authors)	Room 2
E-703 Manuals of Instruction — Construction (Proposed committee reports)	Room 3
E-704 Manuals of Instruction — Building Code (Subcommittee reports)	Room 4

monday, november 1 9 a.m. to 12 noon

..... Institute Activities Committee	Parlor A
303 Architectural Concrete (Draft, committee report)	Maple Leaf
438 Torsion (Design recommendations; current research)	Georgian

2 p.m. to 5 p.m.

committee	meeting room
211 Proportioning Concrete Mixes (Dallas workshop session)	Empire State
222 Corrosion of Metals in Concrete (Draft of Guide)	Club
303 Architectural Concrete (Draft, committee report)	Maple Leaf
307 Reinforced Concrete Chimneys (Design procedures)	Hartford
347 Formwork for Concrete (Symposium; revisions to Recommended Practice)	Parlor C
352 Joints and Connections in Monolithic Concrete Structures (Design recommendations)	Parlor A
408 Bond Stress (Revision of state-of-the-art report)	Embassy
428 Limit Design (Future activities of committee)	Parlor B

monday, november 1 7 p.m. to 10 p.m.

114 Research and Development (Project statements; conference sessions)	Club
302 Concrete Floor Finishes (Symposium for 1972 Fall Meeting)	Empire State
303 Architectural Concrete (Draft, committee report)	Maple Leaf
308 Curing Concrete (Consideration of Comments)	Hartford
332 Residential Concrete Work (Draft of Recommended Practice)	Parlor C
349 Criteria for Nuclear Containment Vessels (Final version of "Design Criteria")	Governors
355 Anchorage to Concrete (Questionnaire and committee report)	Embassy
512 Precast Structural Concrete (Evaluation of new PCI Handbook and its influence on committee work)	Washington
517 Accelerated Curing of Concrete at Atmospheric Pressure (Draft of report by subcommittees)	Georgian
533 Subcommittee B, Precast Panels (Finalizing Recommended Practice sections)	Parlor A

tuesday, november 2

9 a.m. to 12 noon

committee	meeting room
117 Tolerances (State of the art report; coordination of requirements with other ACI committees)	Embassy
118 Use of Computers (Committee reports)	Club
201 Durability of Concrete (Committee report)	Room 3
207 Mass Concrete (Draft of committee report; possible joint symposium with USCOLD)	Maple Leaf
301 Specifications for Structural Concrete (Amendments to proposed revision of ACI 301-66)	Georgian
304 Measuring, Mixing, Transporting, and Placing Concrete (Recommended Practice revision; possible alternate Symposia papers)	Empire State
340 Ultimate Strength Design Handbook (Prepared material for new Handbook)	Room 4
345 Concrete Bridge Decks (Recommended Practice for Construction of Concrete Bridge Decks)	Parlor C
423 Prestressed Concrete (Draft of tentative Recommendations for Prestressed Concrete Flat Slabs)	Room 1
441 Reinforced Concrete Columns (Subcommittee reports: Seismic design at columns, minimum eccentricity, lateral reinforcement)	Hartford
443 Concrete Bridge Design	Washington
515 Coatings for Concrete (Drafts of reports on painting concrete, and dampproofing and waterproofing)	Room 2
532 Lightweight Concrete Masonry (Effect of sand replacement on fire resistance of lightweight concrete masonry)	Parlor B
546 Repair of Concrete (Review of draft of report on repair of concrete bridges)	Parlor A

2 p.m. to 5 p.m.

201 Durability of Concrete (Committee report)	Room 3
213 Subcommittee A and B, Lightweight Aggregate Concrete (Revision of ACI 213 Guide: Aggregate Properties, and Concrete Properties)	Empire State
311 Inspection of Concrete (Revisions to the ACI Manual)	Georgian
336 Combined Footings and Pier Foundations (Resolution of differences of opinion pertaining to report)	Hartford
340 Ultimate Strength Design Handbook (Prepared material for new Handbook)	Room 4
345 Concrete Bridge Decks (Recommended Practice for Construction of Concrete Bridge Decks)	Parlor C
423 Prestressed Concrete (Draft of Tentative Recommendations for Prestressed Concrete Flat Slabs)	Room 1
437 Strength Evaluation of Existing Concrete Structures (Objectives of committee and assignment of work)	Parlor B
443 Concrete Bridge Design	Washington
503 Adhesives for Concrete (Final draft of Recommended Practice)	Maple Leaf
523 Insulating and Cellular Concretes (Review of Guide; presentation of properties of cellular concrete; discussion and assignments for future work)	Club
533 Subcommittee A, Precast Panels (Finalizing Recommended Practice sections)	Room 2

7 p.m. to 10 p.m.

committee	meeting room
Forum on Consolidation of Fresh Concrete (Sponsored by ACI Committee 114. See page 25)	Georgian
Board Committee on Membership Recruitment	Room 1
TAC Ad Hoc Committee on the History of Concrete	Parlor A
209 Subcommittee III, Creep and Shrinkage in Concrete (Subcommittee draft of report)	Room 2
213 Subcommittees C and E, Lightweight Aggregate Concrete (Revision of ACI 213 Guide: Construction Practices, and Special Projects)	Empire State
224 Cracking (Progress reports)	Washington
305 Hot Weather Concreting (State of the art in reducing concrete temperatures at time of placement)	Parlor C
336 Combined Footings and Pier Foundations (Resolution of differences of opinion pertaining to report)	Hartford
348 Structural Safety (Avoidance of gross errors; probabilistic design concepts)	Governors
437 Strength Evaluation of Existing Concrete Structures (Objectives of committee and assignment of work)	Parlor B
503 Adhesives for Concrete (Final draft of Recommended Practice)	Maple Leaf

wednesday, november 3 9 a.m. to 12 noon

committee meeting room
General Session (See page 13) Terrace

2 p.m. to 5 p.m.

- Research on Plain and Reinforced Concrete**
(Sponsored by ACI Committee 115.
See page 16) Georgian
- Symposium on New Methods of Mixing, Transporting,
and Placing Structural Concrete** (Sponsored by
ACI Committee 304. See page 18) Embassy
- Board Committee on Chapter Activities** Parlor A
- 213 Subcommittee D, **Lightweight Aggregate Concrete**
(Revision of ACI 213 Guide: Design) Empire State
- 348 **Structural Safety** (Avoidance of gross errors;
probabilistic design concepts) Governors
- 356 **Industrialized Concrete Construction** (Mission,
committee organization, targets, etc.) Washington
- 421 **Design of Reinforced Concrete Slabs** (1972
Convention Session; subcommittee reports) Parlor C
- 442 **Response of Buildings to Lateral Forces**
(Final details of Thursday's program; details for
the Dallas program) Club
- 531 **Concrete Masonry Structures** (Committee
member reports) Parlor B

thursday, november 4 9 a.m. to 12 noon

committee meeting room

- Responsibility for Inspection** (Sponsored by
ACI Committees 311 and 348. (See page 19) Georgian
- 213 **Lightweight Aggregate Concretes** (Revision of
ACI Guide) Empire State
- 214 **Evaluation of Results of Strength Tests of Concrete**
(Revision of standard; subcommittee activities) Hartford
- 215 **Fatigue of Concrete** (Committee report; Fall 1972
Symposium) Washington
- 318 **Standard Building Code** (Reorganization; new topics
for first interim revision) Maple Leaf
- 439 **High-Strength Reinforcement in Concrete** (Adoption
of and assignments for next committee
assignment) Parlor A
- 444 **Models of Concrete Structures** (Dallas session
plans) Parlor C
- 504 **Joint Sealants** (Sealant problems; new assignments;
research needs) Governors
- 506 **Shotcreting** (Review of draft of Shotcreting
Specification; discussion of future activity) Embassy
- 524 **Portland Cement Plastering** (Recommended
Practice) Club
- 533 Subcommittee C, **Precast Panels** (Natural stone
veneered panels, recommendations) Parlor B

2 p.m. to 5 p.m.

- Symposium on Response of Buildings to Lateral Forces**
(Sponsored by ACI Committee 442.
See page 20) Georgian
- Symposium on Realism in the Application of ACI
Standard 214-65** (Sponsored by ACI Committee 214.
See page 21) Embassy
- 212 **Admixtures** (Future plans; final action on
report) Empire State
- 223 **Expansive Cement Concretes** (Recommended
Practice and Symposium) Hartford
- 309 **Consolidation of Concrete** (Finalize proposed
Recommended Practice; discuss research) Governors
- 315 **Detailing Reinforced Concrete Structures** (Proposed
revisions to ACI 315-65; new manuals) Maple Leaf
- 316 **Construction of Concrete Pavements and Bases** Parlor C
- 516 **High Pressure Steam Curing** (Objectives and
progress) Club
- 533 **Precast Panels** (Recommended Practice;
subcommittee reports) Parlor B
- 544 **Fiber-Reinforced Concrete** (Draft, state-of-the-art
paper) Washington

thursday, november 4

7 p.m. to 10 p.m.

committee	meeting room
..... Board Committee on International Activities	Parlor B
223 Expansive Cement Concretes (Recommended Practice and Symposium)	Hartford
309 Consolidation of Concrete (Finalize proposed Recommended Practice; discuss research)	Governors
315 Detailing Reinforced Concrete Structures (Proposed revisions to ACI 315-65; new manuals)	Maple Leaf
316 Construction of Concrete Pavements and Bases	Parlor C
325 Structural Design of Concrete Pavements for Highways and Airports (Report on continuously reinforced concrete pavements; revised standard)	Embassy
547 Refractory Concrete (Organization; goals; and objectives)	Club

friday, november 5

9 a.m. to 12 noon

316 Construction of Concrete Pavements and Bases	Parlor C
350 Sanitary Engineering Structures (Discussion of and possible revisions to committee report)	Club

2 p.m. to 5 p.m.

316 Construction of Concrete Pavements and Bases	Parlor C
350 Sanitary Engineering Structures (Discussion of and possible revisions to committee report)	Club

wednesday, november 3, 9 a.m.

GENERAL SESSION

Terrace Room

Session Chairman: Paul G. Blake, general chairman, Fall ACI Convention, and associate, McKaig, Rupley, Bahler, Consulting Engineers, Buffalo, New York

Welcoming Address

Ira Ross, Deputy County Executive for Erie County, New York, and former president of Cornell Laboratories, Buffalo

Presentation to ACI President McCoy of Donation to the ACI Building Fund from the Denver Convention Local Committee, (Rocky Mountain Chapter) Ib Falk Jorgensen, general chairman

"Specifications for Structural Concrete for Buildings"— Revised ACI Standard 301-66

ACI Committee 301. Presentation by William C. Alsmeyer, chairman, ACI Committee 301, and vice-president, Leo A. Daly Company, San Francisco, California

"Recommended Practice for Hot Weather Concreting"— Revised ACI Standard 605-59

ACI Committee 305. Presentation by S. D. Burks, secretary, ACI Committee 305, and western area manager, Construction Products Division, W. R. Grace and Company, San Leandro, California

"Building Code Requirements for Structural Plain Concrete"— A Proposed ACI Standard

ACI Committee 322. Presentation by Fritz Kramrisch, chairman, ACI Committee 322, and chief civil engineer, Albert Kahn Associates, Inc., Detroit, Michigan

Repair of Cast-In-Place Structural/Architectural Concrete

Knox R. Burchett, manager, Architectural Concrete Department, Southern Block and Pipe Division, Lone Star Industries, Inc., Norfolk, Virginia

"Who's Taking Care of the World?"—A new concrete technologist career information film.

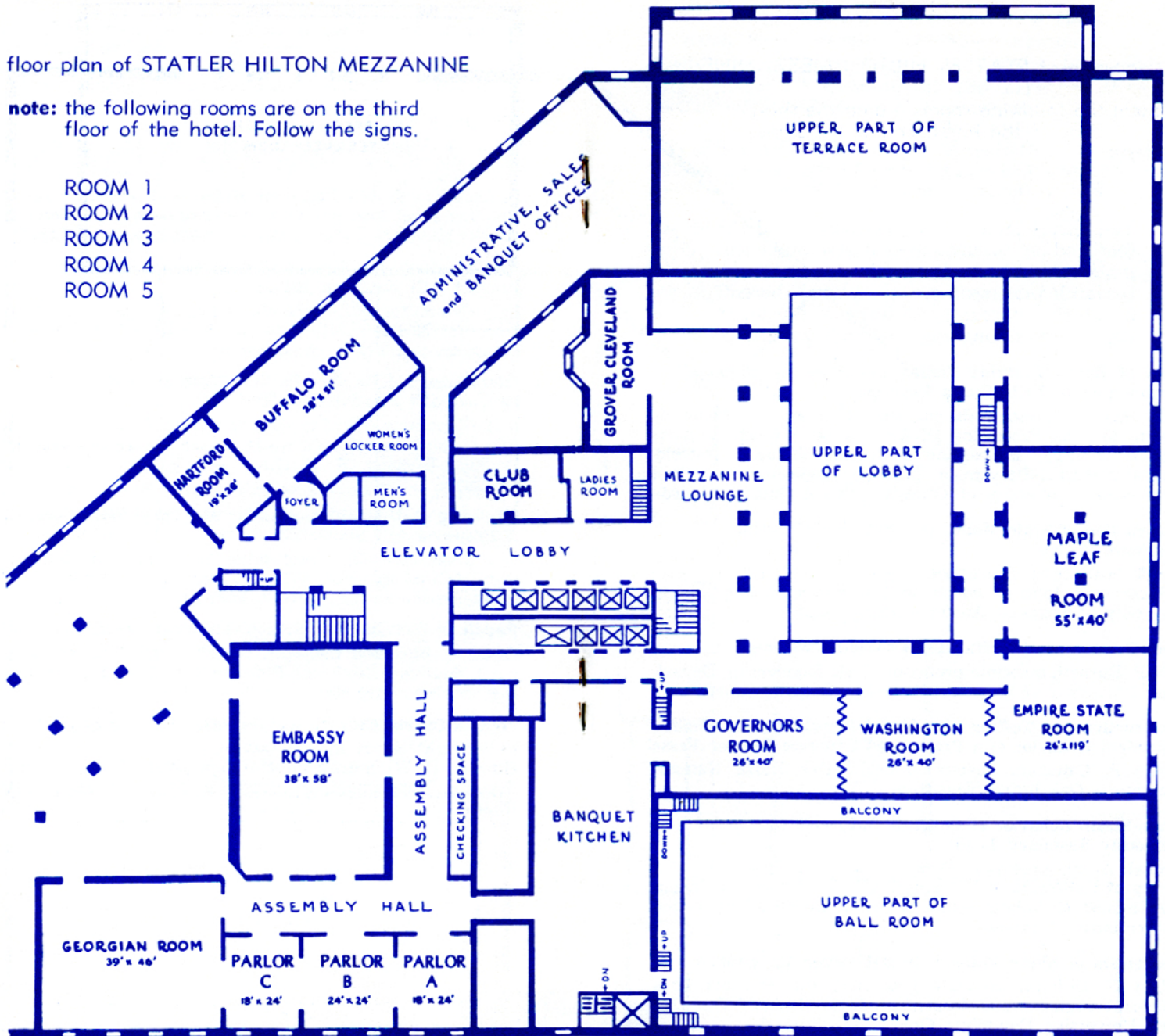
Howard C. Wiechman, director, Manpower Development and Training Department, Portland Cement Association, Skokie, Illinois

MEETING ROOMS

floor plan of STATLER HILTON MEZZANINE

note: the following rooms are on the third floor of the hotel. Follow the signs.

- ROOM 1
- ROOM 2
- ROOM 3
- ROOM 4
- ROOM 5



wednesday, november 3, 2 p.m.

RESEARCH ON PLAIN AND REINFORCED CONCRETE

By ACI Committee 115

Georgian Room

Session Chairman: Joseph H. Walker, chairman, Committee 115, and vice-president for research and development, Portland Cement Association, Skokie, Illinois

Secretary: Herbert K. Cook, secretary, Committee 115, and vice-president for 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.

Effect of Below Freezing Temperatures on the Strength Development of Field-Cured Concrete

V. M. Malhotra, materials engineer, Construction Materials Section, Mineral Processing Division, Mines Branch, Department of Energy, Mines and Resources, Ottawa, Ontario, Canada; and Carl Berwanger, professor, Department of Civil Engineering, University of Ottawa, Ottawa, Ontario, Canada

Construction of Scale Model of a Precast Segmental Cantilever Bridge

John T. Wall, research engineer; Lawrence G. Griffis, research engineer; and John E. Breen, professor of civil engineering, University of Texas at Austin, Austin, Texas

Fiber-Reinforced Centrifugated Concrete Products

E. F. P. Burnett, associate professor, Civil Engineering Department, University of Waterloo, Waterloo, Ontario, Canada

Construction and Testing of a Model Simulating the Time-Dependent Behavior of a Prestressed Concrete Reactor Vessel

Joseph P. Callahan, Reactor Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee

Stress-Strain Behavior of Concrete Subjected to Previously Sustained Load

Samuel Aroni, professor, Department of Architecture, University of California at Los Angeles, Los Angeles, California; and Gajanan M. Sabnis, senior engineer, Bechtel Corporation, Gaithersburg, Maryland

Mechanism of Shear Transfer in Reinforced Concrete

Alfred G. Bishara, associate professor; and Mastaka Higa, structural engineer and former graduate student, The Ohio State University, Columbus, Ohio

Effect of Aggregate Content on the Shrinkage of Concrete

Adrian Pauw, professor of civil engineering, The University of Missouri at Columbia, Columbia, Missouri

Flexural Properties of Concrete Filled Steel Tubes

R. Ralph Sinno, associate professor, Department of Civil Engineering, Mississippi State University, State College, Mississippi; and J. E. Covington, design engineer, Arlo, Inc., Meridian, Mississippi

Overloading of Beam-Slab Highway Bridges

Celal N. Kostem, assistant professor of civil engineering, Lehigh University, Bethlehem, Pennsylvania

Longitudinally Restrained Beams in Torsion

Winston Onsongo, graduate student; and Michael P. Collins, associate professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

wednesday, november 3, 2 p.m.

**SYMPOSIUM ON NEW METHODS OF MIXING,
TRANSPORTING, AND PLACING STRUCTURAL
CONCRETE**

**By ACI Committee 304
Embassy Room**

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

Introduction

Donald L. Houghton, session chairman

The Omnimixer — A New Approach to Mixing Concrete

L. H. Garlinghouse, president; and R. E. Garlinghouse, chief engineer, Gar-Bro Manufacturing Company, Los Angeles, California

**Hydrothermal and Vacuum Saturated Lightweight
Aggregate for Pumped Concrete**

William E. Reilly, vice-president and general manager, Vaculite International, San Clemente, California

Mixing Concrete in a Truck Mixer

Richard D. Gaynor, director of engineering, National Ready Mixed Concrete Association, Silver Spring, Maryland

**The Hydro-Value — A New Method for Transport of
Concrete Under Water**

Louis C. Schoewert, director; and Henri F. Hillen, head, Research Department, Nederhorst Gouda, Gouda, Holland

New Developments in the Use of Concrete Conveyors

James L. Cope, president, Morgen Manufacturing Company, Yankton, South Dakota

Hydraulic Theory of Concrete Pumping

Robert E. Tobin, vice-president, engineering, Lightweight Processing Company, Los Angeles, California

**A New Probe for Testing Workability and
Compaction of Fresh Concrete**

K. W. Nasser, associate professor; and N. M. Rezk, graduate student, Department of Civil Engineering, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

thursday, november 4, 9 a.m.

SYMPOSIUM ON RESPONSIBILITY FOR INSPECTION

By ACI Committees 311 and 348

Georgian Room

Session Chairman: Dixon O'Brien, chairman, ACI Committee 311, and project engineer, Soil Testing Services, Inc., Northbrook, Illinois

Corps of Engineers Approach to Contractor Quality Control

Donald P. Samanie, Directorate of Military Construction, Construction Evaluation Branch, Office, Chief of Engineers, Department of the Army, Washington, D.C.

**An Owner's Viewpoint of Responsibility for
Construction Quality Control**

Bertold E. Weinberg, structural engineer, State University Construction Fund, Albany, New York

Incomplete Inspection, the Designer's Dilemma

Russell S. Fling, president, R. S. Fling & Partners, Inc., Columbus, Ohio

Inspection: True or False

Michael A. Lombard, president, M. A. Lombard and Son Company, Chicago, Illinois

**Quality Assurance Systems by the Independent
Testing Agency**

Joseph F. Artuso, assistant to the president, Pittsburgh Testing Laboratories, Pittsburgh, Pennsylvania

thursday, november 4, 2 p.m.

**SYMPOSIUM ON RESPONSE OF BUILDINGS TO
LATERAL FORCES**

By ACI Committee 442

Georgian Room

Session Chairman: Mark Fintel, chairman, ACI Committee 442, and director, Engineering Design and Standards, Research and Development Division, Portland Cement Association, Skokie, Illinois

Frames and Frame-Shearwall Systems

A. T. Derecho, structural engineer, Design Research Section, Portland Cement Association, Skokie, Illinois

**A Simple Method of Analysis of the Load Distribution in
Multi-Story Shearwall Structures**

A. Coull, professor of structural engineering; and N. W. Adams, research student, Department of Civil Engineering, University of Strathclyde, Glasgow, Scotland

Force Actions in Shearwall Support Systems

David R. Green, lecturer; Iain A. MacLeod, lecturer, Department of Civil Engineering, The University of Glasgow, Glasgow, Scotland; and R. S. Girardau, Jespersen-Kay Systems Limited, Toronto, Ontario, Canada

Analysis of Symmetric Shearwall Structures

Riko Rosman, professor of theory of structures, Faculty of Architecture, University of Zagreb, Zagreb, Yugoslavia

**The Interaction of Floor Slabs and Shear Cores
Subjected to Torsional Loads**

Bungale S. Taranath, structural engineer, Skidmore, Owings & Merrill, Chicago, Illinois; and Bryant Stafford Smith, senior lecturer in civil engineering, University of Southampton, Southampton, England

**Strength of High-Rise Shearwalls —
Rectangular Cross Sections**

Alex E. Cardenas, research engineer, Structural Section, Portland Cement Association, Skokie, Illinois; and Donald D. Magura, senior design engineer, ABAM Engineers, Inc., Tacoma, Washington

thursday, november 4, 2 p.m.

**SYMPOSIUM ON REALISM IN THE APPLICATION
OF ACI STANDARD 214-65**

By ACI Committee 214

Embassy Room

Session Chairman: Edward A. Abdun-Nur, consulting engineer, Denver, Colorado

**ACI Recommended Practice — What Practices
Does It Recommend and What Does It Mean?**

Howard T. Arni, highway research engineer, Bureau of Public Roads, Department of Transportation, Washington, D.C.

**The Use of ACI 214 in Quality Control of
Steam Cured Concrete**

Harry E. Brown, highway research engineer, Virginia Highway Research Council, Charlottesville, Virginia

A Rational Approach to Concrete Test Requirements

Francis J. Principe, president, Principe-Danna, Inc., New York, New York

**Control of the Quality of Concrete for Precast, Prestressed
Slabs in the Construction of a Deep Water Pier**

Philip D. Cady, assistant professor of civil engineering, Pennsylvania State University, University Park, Pennsylvania

**Compressive Strength as a Means for Controlling the
Quality of Mass Concrete**

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

Prepared Discussions

V. M. Malhotra, materials engineer, Canada Department of Energy, Mines, and Resources, Ottawa, Ontario, Canada;

C. D. Johnston, professor of civil engineering, University of Calgary, Calgary, Alberta, Canada;

R. F. Adams, supervisor, Concrete and Soils Laboratories, California Department of Water Resources, Sacramento, California; and

Edward A. Abdun-Nur, consulting engineer, Denver, Colorado

ladies' program

events in brief

headquarters: buffalo room

Monday

9:00 a.m. to 5:00 p.m.—*Coffee and Danish.*

Registration.

Tuesday

9:00 a.m. to 5:00 p.m.—*Coffee and Danish.*

Registration.

*"Welcome" address by convention co-chairmen,
Ladies Committee.*

Wednesday

9:00 a.m.—*Coffee and Danish.*

10:00 a.m.—*Bus tour of City of Buffalo.*

11:00 a.m.—*Tour of Knox Art Gallery.*

12:00 noon—*Lunch at Showboat Restaurant and
Lounge.*

2:00 p.m.—*Tour of Kittinger Furniture Company.*

Thursday

9:00 a.m.—*Coffee and Danish.*

Tour of Canadian side of Niagara Falls.

1:00 p.m.—*Lunch at Skylon Tower Restaurant.
Shop in international shops in the lobby of the
Skylon Tower.*

Wax Museum tour following luncheon.

Friday

11:00 a.m.—*"Bon Voyage Breakfast" at which an
"Olde Trunk Showing" will take place featuring
items of times past.*

inspection tours

wednesday, november 3

2:00 P.M.

*Maximum size of group: 60 people.
no charge*

The Atomic Reactor at the State
University of New York at Buffalo

thursday, november 4

12:45 P.M.

Robert Moses Hydroelectric Power
Generating Plant

New York Power Authority
Niagara Falls

Note: This is one of the world's largest examples of mass concrete for dam structures. The total project cost is in excess of one billion dollars and uses about 5 to 6 million cubic yards of concrete.

*Maximum size of group: 60 people.
bus transportation charge*

construction articles

During the 1970 Fall Convention in St. Louis, the Board Committee on Chapter Activities assigned each chapter the responsibility to solicit and develop construction articles for possible JOURNAL publication. The committee felt that this was an excellent opportunity for chapters. An opportunity to close the gap between theory and practice.

The next time you see a photograph of a construction project look for the names of the engineering, architectural, and construction firms involved and, more often than not, there is a direct link with ACI. ACI members are involved in every aspect of the project from beginning to end. You and your chapter are in a position to let the rest of ACI know, through the pages of the JOURNAL, pertinent facts and interesting sidelights about the project you are working on.

future convention schedule

- 1972 — March 4-10
Statler Hilton Hotel
Dallas, Texas
- 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

aci publications

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forum

forum on consolidation of fresh concrete

"Committee 114 — Research and Development has arranged an open forum on research and development needs pertaining to consolidation of fresh concrete. The meeting follows from an announcement published in the July 1971 ACI **Journal** by which Committee 114 recommended and hopes to stimulate research and development directed to this subject. The meeting will provide opportunity for exchange of information on this subject and personal contact among those having interest in the prosecution of pertinent research and development. Mr. Lars Forssblad, Research Manager, Ab Vibro-Verken, Stockholm, Sweden, will summarize the current state-of-the-art and provide comments on urgently needed research and development."

High on the list of the research subjects of most critical importance to the continued advancement of concrete technology is "consolidation of fresh concrete." The properties of hardened concrete and its performance in a structure are critically affected by the methods of consolidation used during placement.

Among the factors needing detailed study are: methods of measuring degree of consolidation and determining the volume of concrete affected by vibration in any given procedure; amount of energy required for vibration to fluidize the concrete mass; factors affecting the transmission of vibratory energy through fresh concrete, and its rate of attenuation; the resonant frequency of the vibrating system and the variables which affect it; influence of such characteristics as aggregate size, mixture proportions, and consistency of the concrete on the response to vibration; and the relative efficiency and economy of various vibration methods.

Prospective sponsors of such research, organizations or groups wishing to undertake such research and competent to do so, and those interested in cooperative or coordinated research and development on this subject are invited to attend the forum sponsored by Committee 114.

