## PROGRAM

FALL CONVENTION

OCTOBER 31 - NOVEMBER 5, 1971

BUFFALO, NEW YORK

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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 Subcommittees 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

Expansive Cement Concretes (Recommended Practice and Symposium), Hartford

Consolidation of Concrete (Finalize proposed Recommended Practice; discuss research), Governors

Detailing Reinforced Concrete Structures (Proposed revisions to ACI 315-65; new manuals), Maple Leaf

Construction of Concrete Pavements and Bases, Parlor C

Structural Design of Concrete Pavements for Highways and Airports (Report on continuously reinforced concrete pavements; revised standard), Embassy

Refractory Concrete (Organization; goals; and objectives), Club

Friday, November 5, 9 a.m. to 12 noon

Construction of Concrete Pavements and Bases, Parlor C

Sanitary Engineering Structures (Discussion of and possible revisions to committee report), Club

2 p.m. to 5 p.m.

Construction of Concrete Pavements and Bases, Parlor C

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) I.B. 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
floor plan of STATLER HILTON MEZZANINE

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

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 Centrifuged 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

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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 Omnixer — A New Approach to Mixing Concrete
L. H. Garlingshouse, president; and R. E. Garlingshouse, 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 Simple Method of Analysis of the Load Distribution in Multi-Story Shearwall Structures**

A. Coul, 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. Principio, president, Principio-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.
o 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

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.