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REGISTRATION

Registration 9:00 a.m. to 5:00 p.m., Monday through Thursday, in Convention Floor Foyer.

REGISTRATION FEE—$5.00

NOTE FOR PROGRAM PARTICIPANTS

Breakfast is scheduled for Tuesday, Wednesday, and Thursday for program participants. By invitation only.

HI-EARLY LOUNGE

The Toronto committee has arranged for use of the Hi-Early Lounge as ACI’s social meeting place on the Convention Floor. The Hi-Early Lounge will be open from 9:00 a.m. to 6:00 p.m. Tuesday, Wednesday, and Thursday for your convenience. Everyone invited.

'THIS IS CONCRETE' EXHIBIT

See 'This is Concrete'—a special photographic exhibit of historical, unusual, and outstanding uses of concrete. The exhibit will be open all day, Monday through Thursday, in the Convention Floor Foyer.

*Address

AMERICAN CONCRETE INSTITUTE
P.O. Box 4754, Redford Station
Detroit, Michigan 48219

ACI CONVENTION AND PRESS HEADQUARTERS—CONVENTION MEZZANINE
TECHNICAL COMMITTEE MEETINGS

(Visitors welcome to all meetings except those restricted to task committee chairmen and at closed meetings.)

**Monday Morning, November 11**

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

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**Monday Afternoon, November 11**

1:00 p.m. - 5:00 p.m.

| 201 DURABILITY OF CONCRETE IN SERVICE | No. 5 |
| 213 LIGHTWEIGHT AGGREGATES AND LIGHTWEIGHT AGGREGATE CONCRETE | Manitoba |
| 315 DETAILED RENAIRED CONCRETE STRUCTURES | No. 3 |
| 347 FORMWORK FOR CONCRETE | No. 4 |
| 436 COMBINED FOOTINGS | No. 6 |
| 504 JOINT SEALANTS (task committee chairmen only) | Newfoundland |

**Tuesday Morning, November 12**

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

| 209 CREEP AND VOLUME CHANGES IN CONCRETE | Library |
| 306 WINTER CONCRETING METHODS | Algonquin |
| 318 STANDARD BUILDING CODE | British Columbia |
| 437 STRENGTH EVALUATION OF EXISTING CONCRETE STRUCTURES (Closed meeting) | Saskatchewan |
| 504 JOINT SEALANTS (task committee chairmen only) | Newfoundland |
| 516 HIGH PRESSURE STEAM CURING | Nova Scotia |
| 543 CONCRETE PILES | No. 3 |

**Tuesday Afternoon, November 12**

1:00 p.m. - 5:00 p.m.

| 504 JOINT SEALANTS (task committee chairmen only) | Newfoundland |

**Wednesday Morning, November 13**

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

| 216 FIREPROOFING OR FIRE PROTECTION OF STRUCTURES | New Brunswick |
| 302 CONCRETE FLOOR FINISHES | No. 3 |
| 428 LIMIT DESIGN—JOINT ACI-ASCE (Closed meeting) | Newfoundland |
| 506 APPLICATION OF MORTAR BY PNEUMATIC PRESSURE | Library |

**TECHNICAL PROGRAM**

**Tuesday Afternoon, November 12**

1:30 p.m. - 5:00 p.m.

SESSION 1—CONCERT HALL

Chairman: R. F. Leggett, director, Division of Building Research, National Research Council, Ottawa, Ontario

TORONTO CITY HALL AND CIVIC SQUARE—H. E. H. Roy, John B. Parkin Associates, Toronto, Ontario

CONTRIBUTIONS OF EUGENE FREYSSINET TO CONCRETE CONSTRUCTION—John F. Brett, consultant, Montreal, Quebec


THE CONCRETE INDUSTRY IN ACTION—Roger H. Corbetta, president, American Concrete Institute, and chairman of the board, Corbetta Construction Co., New York, New York

**Tuesday Evening, November 12**

5:30 p.m. - 7:30 p.m.

 CURLING—Try your hand at the sport of curling, The Terrace Club

**Tuesday Evening, November 12**

8:00 p.m. - 10:00 p.m.

FIELD TRIP—Tour of W. P. Dobson Research Laboratory, The Hydro-Electric Power Commission of Ontario. Bus leaves hotel at 7:30 p.m.

**Wednesday Morning, November 13**

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

FIELD TRIPS—(1) Tour of new Toronto subway and Toronto City Hall and Civic Square
(2) Special Interest Tours—Check Notice Board for arrangements

MOVIES OF CONCRETE CONSTRUCTION—(Warsaw Dam, Champlain Bridge, Dias Island Tunnel)—Concert Hall at 10:00 a.m.
Wednesday Afternoon, November 13
1:30 p.m. - 5:00 p.m.

CONCURRENT SESSIONS

SESSION 2—CONCERT HALL

Chairman: C. D. Carruthers, president, C. D. Carruthers and Wallace, consulting engineers, Toronto, Ontario

RECENT ACHIEVEMENTS OF THE EUROPEAN CONCRETE COMMITTEE—Eivind Hognestad, chairman, ACI-CEB Collaboration Committee, and manager, Structural Development Section, Portland Cement Association Research and Development Laboratories, Skokie, Illinois

THE RIDDLE OF SHEAR FAILURE AND ITS SOLUTION—Gaspard N. J. Kani, professor of civil engineering, University of Toronto, Toronto, Ontario

COMPUTERS IN CONCRETE DESIGN—A. Murray Lount, A. M. Lount & Associates, consulting engineers, Toronto, Ontario

LOAD BEARING WALLS IN CONCRETE AND REINFORCED CONCRETE—W. Sefton, president, W. Sefton and Associates, Toronto, Ontario

SESSION 3—BALLROOM

Chairman: Hugh C. Ross, director of research, The Hydro-Electric Power Commission of Ontario, Toronto, Ontario

STRENGTH DEVELOPMENT OF HIGH CEMENT CONTENT CONCRETE CAST IN LARGE SECTIONS—R. A. Lapinas, manager of technical control, Mount Royal Paving and Supplies Ltd., Montreal, Quebec

MASS CONCRETING PRINCIPLES APPLIED TO MASSIVE STRUCTURAL MEMBERS—J. Neil Mustard, supervising engineer, Masonry Section, Structural Research Department, The Hydro-Electric Power Commission of Ontario, Toronto, Ontario

CHARACTERISTICS OF THE CONCRETE FOR THE MANICOUAGAN V MULTIPLE ARCH DAM—C. A. Dagenais, Surveyor, Nenninger and Chenevert, consulting engineers, Montreal, Quebec; and Claude Cartier, Commercial and Industrial Laboratories, Montreal, Quebec

EVALUATION OF CONCRETE COMPRESSION TEST RESULTS—L. Robert Lauer, assistant chief engineer, Department of Sales, Canada Cement Co., Ltd., Toronto, Ontario

VOLUME AND WEIGHT CHANGES IN DRYING AND CARBONATION OF PORTLAND CEMENT MORTARS—K. Kamimura, P. J. Sereda, and E. G. Swenson, Division of Building Research, National Research Council, Ottawa, Ontario

Wednesday Evening, November 13
6:00 p.m.

COCKTAIL PARTY—CONCERT HALL

Thursday Morning, November 14
9:00 a.m. - 12:00 Noon

CONCURRENT SESSIONS

SESSION 4—CONCERT HALL

Chairman: Vitelmo V. Bertero, associate professor of civil engineering, Division of Structural Engineering and Structural Mechanics, University of California, Berkeley, California

ROTATION COMPATIBILITY IN THE LIMIT DESIGN OF REINFORCED CONCRETE CONTINUOUS BEAMS—M. Z. Cohn, Rome, Italy

THE ROTATIONAL CAPACITY OF HINGED REGIONS IN REINFORCED CONCRETE BEAMS—Alan H. Mattock, senior development engineer, Structural Development Section, Portland Cement Association Research and Development Laboratories, Skokie, Illinois

LOAD-DEFORMATION CHARACTERISTICS OF BEAM-COLUMN CONNECTIONS—Chester P. Siess, professor of civil engineering, University of Illinois, Urbana, Illinois; Ned H. Burns, assistant professor of civil engineering, University of Texas, Austin, Texas; and Ricardo Yamashiro, W. J. LeMessurier and Associates, Boston, Massachusetts

COMPREHENSIVE ANALYSIS AND DESIGN FOR REINFORCED CONCRETE—Herbert A. Sawyer, Jr., professor of civil engineering, University of Florida, Gainesville, Florida

SESSION 5—BALLROOM

Chairman: Hugh W. Adcock, assistant deputy minister (engineering), Department of Highways—Ontario, Toronto, Ontario

CONCRETING AT WARSAK—J. Gray S. Thomson, John S. Saldat, and John M. Gardiner, H. G. Acres and Co., Ltd., consulting engineers, Niagara Falls, Ontario

CONCRETE FLOOR CONSTRUCTION PRACTICES—Frank Diplock, president, Diplock Durable Floors, Toronto, Ontario

AN UNUSUAL CASE OF SURFACE DETERIORATION ON A CONCRETE BRIDGE DECK—John Ryell, Department of Highways—Ontario, Toronto, Ontario


Thursday Noon, November 14

LUNCHEON—ONTARIO ROOM

Speaker: Dr. Z. S. Phimister, Director of Education, Toronto Board of Education, Toronto, Ontario
ACI charter for the Ontario Chapter to be presented to Mr. F. C. Brownridge, chairman of the organizing committee

Thursday Afternoon, November 14
1:30 p.m. - 5:00 p.m.

RESEARCH SESSION—CONCERT HALL

(This meeting differs from general sessions in that the information is not released for publication. Request is made that the proceedings be regarded as CONFIDENTIAL.)

Chairman: Mark Huggins, professor of civil engineering, University of Toronto, Toronto, Ontario

BOND OF 7-WIRE PRETENSIONED STRAND—S. L. Lipson, professor of civil engineering, and N. D. Nathan, assistant professor of civil engineering, University of British Columbia, Vancouver, British Columbia

THE STRENGTH OF PORTLAND CEMENT PASTE—K. R. Lauer, assistant professor of civil engineering, University of Notre Dame, Notre Dame, Indiana

SOME PROPERTIES AND TESTS ON CEMENT GROUTS—T. G. Clendenning, supervising engineer, and C. Chapin, The Hydro-Electric Power Commission of Ontario, Toronto, Ontario

DIAGONAL TENSION STRENGTH OF REINFORCED CONCRETE BEAMS—Saeed Mirza, McGill University, Montreal, Quebec

EFFECT OF PROLONGED DRYING OF CONCRETE—N. G. Zoldners, Canada Department of Mines and Technical Surveys, Mines Branch, Mineral Processing Division, Ottawa, Ontario

CURRENT RESEARCH IN CONCRETE—P. J. Sereda, head, Inorganic Materials Section, Division of Building Research, National Research Council, Ottawa, Ontario

THE EFFECTS OF SQUARE OPENINGS IN THE STRENGTH OF SQUARE SLABS SUPPORTED ON FOUR EDGES—A. Banerjee and S. D. Lash, head, Department of Civil Engineering, Queen’s University, Kingston, Ontario

THE ULTIMATE STRENGTH OF TWO-WAY REINFORCED CONCRETE SLABS—E. J. Grant, professor of civil engineering, University of New Brunswick, Fredericton, New Brunswick


CREEP-MATURITY RELATIONSHIPS FOR CONCRETE—F. E. Rehman, Department of Civil Engineering, University of Toronto, Toronto, Ontario
LADIES PROGRAM

Tuesday, November 12
Bus tour of Toronto points of interest, 1:00 p.m.
including Casa Loma

Wednesday, November 13
Coffee hour in the ACI Toronto 9:00 a.m. - 10:00 a.m.
committee suite. (See notice in registration
area for suite number.)
Tour of the O'Keefe Centre for the 11:00 a.m.
Performing Arts
See the matinee performance of "The Sound
of Music" by Rodgers and Hammerstein at
O'Keefe Centre. See local committee for
tickets, $3.50 per person.
Cocktail party in the Concert Hall of hotel 6:00 p.m.

Thursday, November 14
Cocktails and lunch in the Rose 11:30 a.m. - 3:00 p.m.
Room of the Granite Club, private
curling club, followed by curling exhibition

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A group of architects