Registration fees cover attendance at all ACI technical and educational committee meetings, general session, and symposia. They do not cover the educational seminars on Monday, Tuesday, and Wednesday nor the Awards Luncheon on Thursday for which there are separate charges.

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SUSTAINING MEMBERS OF THE AMERICAN CONCRETE INSTITUTE

Master Builders
Division of Martin Marietta Corporation
Cleveland, Ohio

Southwestern Portland Cement Company
Los Angeles, California

Portland Cement Association
Skokie, Illinois

Sika Chemical Corporation
Lyndhurst, New Jersey
SCHEDULE

SUNDAY, APRIL 9
8:30 a.m. - 6:00 p.m.
Administrative and technical committee meetings

MONDAY, APRIL 10
8:30 a.m. - 10:00 p.m.
Administrative, technical, and educational committee meetings
9:00 a.m. - 12:00 noon
Seminar: Introduction to CSA Metric Standards on Concrete Design and Concrete Construction (Canadian Standards Association) Registration fee: $25.00, payable to CSA
2:00 p.m. - 4:00 p.m.
Metric Awareness: As the World Turns Metric
2:00 p.m. - 5:00 p.m.
Concrete in Canada: Segmental Construction (ACI Ontario Chapter)

TUESDAY, APRIL 11
8:30 a.m. - 10:00 p.m.
Administrative, technical, and educational committee meetings
9:00 a.m. - 12:00 noon
Concrete in Canada: Outstanding Concrete Structures (ACI Ontario Chapter)
9:00 a.m. - 5:00 p.m.
Seminar: Design of Sanitary Engineering Structures (Committee E-702 — Registration fee: $45.00 ACI Members; $55.00 Nonmembers)
12:00 noon - 5:30 p.m.
CONCRETE CANADA '78 opens and "Poket" launching
2:00 p.m. - 5:00 p.m.
Concrete in Canada: Economics in the Use of Waste Material for Concrete and Cement Manufacture

WEDNESDAY, APRIL 12
8:15 a.m. - 9:00 a.m.
Breakfast Assembly
9:00 a.m. - 10:30 a.m.
General Session
10:30 a.m.
ACI Rap Session
12:00 noon - 6:00 p.m.
CONCRETE CANADA '78 open
2:00 p.m. - 5:00 p.m.
Student Activities Seminar (ACI Committee E-801)
2:00 p.m. - 6:00 p.m.
Seminar: Introductio to New ACI 318-77 Building

THURSDAY, APRIL 13
8:30 a.m. - 12:00 noon
Symposium: Ferrocement: Materials and Applications (ACI Committee 549)
8:30 a.m. - 10:00 p.m.
Administrative, technical, and educational committee meetings
9:00 a.m. - 12:00 noon
Research on Plain and Reinforced Concrete (ACI Committee 115)
9:00 a.m. - 5:30 p.m.
Symposium: Mathematical Modeling of Reinforced Concrete Structures (ACI Committee 442)
12:00 noon - 5:30 p.m.
CONCRETE CANADA '78 open
12:15 p.m. - 2:30 p.m.
Awards Luncheon
2:30 p.m. - 5:30 p.m.
Symposium: Precast Concrete Bearing Wall Buildings: Design Considerations for Safety Against Progressive Collapse and Seismic Effects (ACI Committee 356)
2:30 p.m. - 5:30 p.m.
Symposium: North American Practice in Segmental Bridges (ACI Committee 443 and the Post-Tensioning Institute)
4:00 p.m. - 6:30 p.m.
Contractors' Forum
5:30 p.m.
CONCRETE CANADA '78 closes
7:00 p.m. - 10:00 p.m.
Forum: Needed Research and Development for Fiber Reinforced Concrete (ACI Committees 114 and 544)

FRIDAY, APRIL 14
8:30 a.m. - 12:30 p.m.
Technical committee meetings
9:00 a.m. - 12:00 noon
Symposium: Behavior and Design of Beam-Column Joints (ACI Committee 352)
9:00 a.m. - 12:00 noon
Symposium: Lessons from Structural Performance (ACI Committee 348)
9:00 a.m. - 12:00 noon
Symposium: Railroad and Rail Transit Bridges (ACI Committee 443)
SPECIAL EVENTS

Publications Display... in the Convention Lobby all week. See the latest ACI publications now available. Orders are taken at the Registration Desk which is also in the Convention Lobby.

Education at the Convention... Three half-day programs and one full-day seminar are being presented. Except for the Student Activities Program, each seminar requires a separate registration fee. Since enrollment is limited, early registration is advised.

Introduction to CSA Metric Standards on Concrete Design and Concrete Construction... Monday, 9:00 a.m. - 12:00 noon, in the Ballroom. Sponsored by the Canadian Standards Association, this seminar will concentrate on the updated metric standards expected to be published by early 1978.

Design of Sanitary Engineering Structures... Tuesday, 9:00 a.m. - 12:00 noon and 2:00 p.m. - 5:00 p.m., in the Ontario room. Both rectangular and circular tanks will be discussed and analyzed at this all-day seminar and the possibility of their design features being applied to other structures.

Student Activities Seminar... Wednesday, 2:00 p.m. - 5:00 p.m., in the Ontario room. Arranged specifically for the engineering student, this seminar will cover community projects and competitions plus a briefing on ACI's technical activities.

Introduction to the New ACI 318 Building Code... Wednesday, 2:00 p.m. - 6:00 p.m., in the Ballroom. The just-published "Building Code Requirements for Reinforced Concrete (ACI 318-77)" will be the topic and the instructors are members of the committee that updated it. Each attendee will receive a copy of the new Code, Commentary, and the Seminar Program Workbook.

Metric Awareness: As the World Turns Metric... Monday, 2:00 p.m. - 4:00 p.m., in the Ontario room. This short session is an audio-visual presentation of the metric awareness and training program put on by the Ontario Ministry of Transportation and Communications.

Breakfast (by invitation only)... 7:00 a.m., Tuesday, in the New Brunswick room, for newly appointed technical committee chairs.

Films on Shotcrete... starting at 2:00 p.m., Tuesday, in the Quebec. As a special added attraction, ACI Committee 506, Shotcreting, will show a slide presentation on shotcrete safety and a short movie on shotcrete applications. These will be incorporated as part of their regular committee meeting and visitors are invited to attend.

Concrete Canada '78... 12:00 noon - 5:30 p.m., Tuesday through Thursday in the Convention Centre at the Harbour Castle hotel. Technical and educational exhibits which will demonstrate the latest tools and services available to the concrete industry. "Pokel" launching is scheduled for noon on Tuesday. Buses will run continuously between the Royal York and the Harbour Castle Convention Centre for your convenience, starting at 11:45 a.m. each day.

Breakfast Assembly... 8:15 a.m. - 9:00 a.m., Wednesday, in the Canadian room. A complimentary continental breakfast will be served buffet style prior to the start of the General Session.

Members' "Rap" Session... 10:00 a.m., Wednesday, in the Canadian room. This is your chance to talk informally with ACI Officers and Staff.

"Concrete Mixer"... 6:00 p.m. - 8:00 p.m., Wednesday. This traditional event will be held in the Harbour Castle Convention Centre among the exhibits. Buses will be running continuously between the two hotels. Please wear your badge and bring your ticket.

Awards Luncheon... 12:15 p.m. - 2:30 p.m., Thursday, in the Concert Hall. Good food and drink and multi-media presentations are combined into a pleasing format. Get your tickets early... they're only $7.50 this year!

Contractors' Forum... 4:00 p.m. - 6:30 p.m., Thursday, in the Algonquin room. A contractors' get-together to look at construction methods. ACI wants to know about your concrete construction problems and your concrete successes.

Special Tours... have been planned by the Local Convention Committee. Be sure to check the Family Members program in the back of this booklet for tours of interest to you. There will be at least one and probably several. Don't miss them!

Technical tours... have also been planned by the Local Convention Committee. Further information on them can be found on page 9 of this booklet. The Ontario Chapter has tickets for them in the Family Members' Hospitality room.

CONTRIBUTORS TO THE ONTARIO CHAPTER PROGRAM
(as of March 3, 1978)

Sternson Limited
W.R. Grace & Company Limited
Construction Chemicals Limited
Construction Testing Services Limited
J.T. Donald & Company Limited
Peto MacCallum Limited
Canadian Portland Cement Association
Metropolitan Toronto Ready Mixed
Concrete Association
Mulco Incorporated
Master Builders Company Limited
Griffels Associates Limited
Proctor and Redfern Group
TORONTO CONVENTION COMMITTEE

General Chairman
John A. Bickley
Trow Group Limited

Vice-Chairman
G. R. Cook
Proctor & Redfern Limited

Secretary
G. K. Chitilian
Canadian Portland Cement Association

Industry Liaison
D. F. Lamb
Master Builders Company Limited

R. Sheppard
Fodor Engineering Limited

Social Programme
R. G. Lavery
Lake Ontario Cement Limited

Field Trips
J. N. Mustard
Ontario Hydro

Technical Programme
Walter A. Smith
Canada Cement Lafarge Limited

L. R. Lauer
Don Mills, Ontario

Family Programme
Bram Vermeulen
St. Marys Cement Company

Educational
M. P. Collins
University of Toronto

Hotel and Publicity
William G. Townsend
St. Lawrence Cement Company

Fund Raising
Gary Woolgar
Dufferin Concrete Products

Win A Valuable Prize
In the ACI New Member Campaign

You could take home the news of four great days in Cancun, Mexico... or other valuable prizes in ACI's new membership program.

Help the cause — yours and ACI's. Be a special hero next November — in your family and among all your friends in ACI.

Pick up your contest rules and membership applications at the ACI Registration area.

TECHNICAL TOURS

Technical tours have been scheduled to the C.N. Tower in Toronto and Ontario Hydro's Pickering Nuclear Generating Station.

The tour to the C.N. Tower will be scheduled at various times during the week as requests are received (and it includes a film about the Tower). A discount will be given by the restaurant for dinner if at least 40 persons go at one time.

The tour to the Pickering Generating Station is scheduled for Wednesday at 1:00 p.m. with return at 5:30 p.m.

Please check with the ACI Ontario Chapter Committee in the Family Members' Hospitality suite for further information on these tours. It is recommended that you make your reservations early for these events.

The officers, staff, and members of ACI would like to thank the Local Committee, the Hostesses, and the Ontario Chapter for their part in the 1978 Annual Convention!
COMMITTEE MEETINGS

Be sure to check the bulletin board for last minute changes or added meetings.

COMMITTEE
Meeting Room

SUNDAY
APRIL 9
8:30 a.m. - 6:00 p.m.
— Technical Activities Committee Saskatchewan

MONDAY
APRIL 10
8:30 a.m. - 10:30 a.m.
— Institute and Industry
— Advancement Committee Confederation 4
— Technical Activities Committee Saskatchewan
— Educational Activities Committee Nova Scotia
223
— Expansive Cement Concrete Confederation 5
302
— Construction of Concrete Floors Algonquin
318
— Subcommittee 3, Details — Development
and Splices of Reinforcement York

318
— Subcommittee 9, Precast-Prestressed
and Composite Concrete Library
351
— Foundations for Equipment
and Machinery Manitoba
351
— Subcommittee Alberta
351
— Subcommittee Quebec
435
— Deflection of Concrete Room 3
441
— Reinforced Concrete Columns Tudor 7
512
— Precast Structural Concrete Tudor 9
531
— Masonry Structures Tudor 8
533
— Precast Panels Toronto

9:00 a.m. - 12:00 noon
SEMINAR: INTRODUCTION TO CSA
METRIC STANDARDS ON
CONCRETE DESIGN AND
CONCRETE CONSTRUCTION
(Sponsored by Canadian Standards
Association) Ballroom

10:30 a.m. - 12:30 p.m.
— Institute and Industry
— Advancement Committee Confederation 4
— Technical Activities Committee Saskatchewan
— Educational Activities Committee Nova Scotia
104
— Notation Newfoundland
302
— Construction of Concrete Floors Algonquin
318
— Subcommittee 3, Details — Development
and Splices of Reinforcement York
318
— Subcommittee 9, Precast-Prestressed
and Composite Concrete Library
351
— Foundations for Equipment and
Machinery Manitoba
351
— Subcommittee Alberta
351
— Subcommittee Quebec
435
— Deflection of Concrete
Building Structures Room 3
512
— Precast Structural Concrete Tudor 9
2:00 p.m. - 4:00 p.m.

**METRIC AWARENESS: AS THE WORLD TURNS METRIC**
(Sponsored by Ontario Ministry of Transportation and Communications) Ontario

- Board Committee on Metrication Confederation 4
- Ad Hoc Committee on Publications Policies Tudor 9
- Educational Activities Committee Nova Scotia Confederation 5
- Admixtures Library 225
- Hydraulic Cements Confederation 5
- Specifications for Structural Concrete British Columbia 301
- Reinforced Concrete Chimneys Algonquin 307
- Details of Concrete Reinforcement Room 3 315
- Subcommittee 6, Flexure and Axial Loads New Brunswick 318

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

**CONCRETE IN CANADA: SEGMENTAL CONSTRUCTION**
(Sponsored by ACI Ontario Chapter) Ballroom

4:00 p.m. - 6:00 p.m.

- Ad Hoc Committee on Publications Policies Tudor 9
- Educational Activities Committee Nova Scotia Confederation 5
- Admixtures Confederation 5 212
- Hydraulic Cements Library 225
- Specifications for Structural Concrete British Columbia 301
- Reinforced Concrete Chimneys Algonquin 307
- Details of Concrete Reinforcement Room 3 315
- Subcommittee 6, Flexure and Axial Loads New Brunswick 318

7:30 p.m. - 9:30 p.m.

**Subcommittee 10, Special Provisions for Seismic Design** Confederation 4
**Subcommittee 12, Performance Code** Confederation 6
**Task Group on Plain Concrete** Tudor 7
**Task Group on Liaison with Other Materials Groups** Tudor 9
**High Pressure Steam Curing** Tudor 8

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**TUESDAY APRIL 11**

8:30 a.m. - 10:30 a.m.

- Board of Direction British Columbia
- Specifications Review Committee Room 3134 211
- Tolerances Confederation 4
- Subcommittee 1, Proportioning Concrete Mixes Canadian E 211
- Subcommittee 7, Mass Concrete Mixture Proportioning Manitoba 318
- Aggregates Confederation 5
- Cracking Nova Scotia 224
- Consolidation of Concrete Confederation 6 309
- Inspection of Concrete Tudor 9 311
- Concrete Bins and Silos Prince Edward Island 313
- Subcommittee 5, Serviceability Requirements Tudor 7 318
- Subcommittee 8, Two-Way Slabs Canadian C 318
- Residential Concrete Work Algonquin 332
- Circular Prestressed Concrete Structures Room 3132 344
- Design of Slabs on Grade Canadian D 360
- Shear and Diagonal Tension (See Committee 445) 426
- Torsion (See Committee 445) Toronto 438
- Shear and Torsion Quebec 445
- Shotcreting Quebec 506
- Accelerated Curing of Concrete at Atmospheric Pressure Tudor 8 517
- Insulating and Cellular Concretes Room 3140 523
- Repair of Concrete Saskatchewan 546
9:00 a.m. - 12:00 noon
CONCRETE IN CANADA: OUTSTANDING CONCRETE STRUCTURES
(Sponsored by ACI Ontario Chapter)

SEMILAR: DESIGN OF SANITARY ENGINEERING STRUCTURES
(Sponsored by ACI Committee E-702)
(first session)
Ontario

10:30 a.m. - 12:30 p.m.
- Board of Direction British Columbia
- Specifications Review Committee Room 3134
- Ad Hoc Committee on Energy and Resources Conservation Canadian E
117 Tolerances Confederation 4
207 Mass Concrete Confederation 5
211 Proportioning Concrete Mixes Manitoba
224 Cracking Nova Scotia
309 Consolidation of Concrete Confederation 6
311 Inspection of Concrete Tudor 9
313 Concrete Bins and Silos Prince Edward Island
318 Subcommittee 5, Serviceability Requirements Tudor 7
318 Subcommittee 8, Two-Way Slabs Canadian C
332 Residential Concrete Work Algonquin
344 Circular Prestressed Concrete Structures Room 3132
360 Design of Slabs on Grade Canadian D
426 Shear and Diagonal Tension (See Committee 445)
438 Torsion (See Committee 445)
445 Shear and Torsion Toronto
506 Shotcreting Quebec
517 Accelerated Curing of Concrete at Atmospheric Pressure Tudor 8
523 Insulating and Cellular Concretes Room 3140
546 Repair of Concrete Saskatchewan
E-701 Materials for Concrete Construction New Brunswick

12:00 noon - 5:30 p.m.
CONCRETE CANADA '78 opens and "Pocket" launching Harbour Castle Hotel

2:00 p.m. - 4:00 p.m.
- Board of Direction British Columbia
121 Quality Assurance Systems for Concrete Toronto
207 Mass Concrete Confederation 5
213 Lightweight Aggregates and Lightweight Aggregate Concrete Confederation 4
214 Evaluation of Results of Tests Used to Determine the Strength of Concrete Tudor 7
311 Inspection of Concrete Tudor 9
313 Concrete Bins and Silos Prince Edward Island
318 Subcommittee 2, Concrete Quality — Construction Requirements Tudor 8
318 Subcommittee 4, Analysis — Strength Requirements Canadian C

334 Concrete Shell Design and Construction Room 3132
345 Concrete Bridge Construction and Maintenance Canadian D
347 Formwork for Concrete Confederation 6
350 Sanitary Engineering Structures Canadian E
357 Offshore Concrete Structures Manitoba
358 Concrete Guideways Nova Scotia
423 Prestressed Concrete New Brunswick
439 Steel Reinforcement Saskatchewan
444 Models of Concrete Structures Algonquin
503 Adhesives for Concrete Room 3134
506 Shotcreting Quebec
E-801 Student Concrete Projects Room 3140

2:00 p.m. - 5:00 p.m.
CONCRETE IN CANADA: ECONOMICS IN THE USE OF WASTE MATERIAL FOR CONCRETE AND CEMENT MANUFACTURE
(Sponsored by ACI Ontario Chapter)

SEMILAR: DESIGN OF SANITARY ENGINEERING STRUCTURES
(Sponsored by ACI Committee E-702)
(second session) Ontario

4:00 p.m. - 6:00 p.m.
120 History of Concrete Room 3140
121 Quality Assurance Systems for Concrete Toronto
207 Mass Concrete Confederation 5
214 Evaluation of Results of Tests Used to Determine the Strength of Concrete Tudor 7
311 Inspection of Concrete Tudor 9
313 Concrete Bins and Silos Prince Edward Island
318 Subcommittee 2, Concrete Quality — Construction Requirements Tudor 8
318 Subcommittee 4, Analysis — Strength Requirements Canadian C
345 Concrete Bridge Construction and Maintenance Canadian D
347 Formwork for Concrete Confederation 6
350 Sanitary Engineering Structures Canadian E
357 Offshore Concrete Structures Manitoba
358 Concrete Guideways Nova Scotia
423 Prestressed Concrete New Brunswick
439 Steel Reinforcement Saskatchewan
444 Models of Concrete Structures Algonquin
503 Adhesives for Concrete Room 3134
506 Shotcreting Quebec

7:30 p.m. - 9:30 p.m.
- International Activities Committee Manitoba
304 Measuring, Mixing, Transporting, and Placing Concrete British Columbia
308 Curing Concrete Toronto
WEDNESDAY
APRIL 12
8:15 a.m. - 9:00 a.m.
BREAKFAST ASSEMBLY
Canadian

9:00 a.m. - 10:30 a.m.
GENERAL SESSION
Canadian

9:00 a.m. - 5:00 p.m.
359 Subgroup on Design Nova Scotia
359 Working Group on Component Supports New Brunswick

10:30 a.m. - 12:00 noon
ACI RAP SESSION
Canadian

12:00 noon - 6:00 p.m.
CONCRETE CANADA '78 open
Harbour Castle Hotel

1:00 p.m. - 7:00 p.m.
359 Working Group on Reinforcing and Prestressing Systems Tudor 9

2:00 p.m. - 4:00 p.m.
Chapter Activities Committee Quebec
- Convention Committee Library
118 Use of Computers Confederation 4
120 History of Concrete Saskatchewan
201 Durability of Concrete Confederation 5
209 Subcommittee V (Creep and Shrinkage in Concrete) Confederation 6
215 Fatigue of Concrete Toronto
216 Fire Resistance and Fire Protection of Structures Tudor 7
222 Corrosion of Metals in Concrete Alberta
348 Structural Safety Territories
349 Working Group on Design Algonquin
349 Working Group on Impact and Impulse York
352 Joints and Connections in Monolithic Concrete Structures Tudor 8
356 Industrialized Concrete Construction British Columbia
547 Refractory Concrete Room 3
548 Polymers in Concrete Manitoba

THURSDAY
APRIL 13
8:30 a.m. - 10:30 a.m.
Planning Committee Alberta
209 Creep and Shrinkage in Concrete Confederation 6
306 Cold Weather Concreting Manitoba
318 Standard Building Code Quebec
325 Concrete Pavements Toronto
349 Working Group on Design Algonquin
349 Working Group on Embedments Confederation 4
349 Working Group on Impact and Impulse York
349 Working Group on Materials Newfoundland
349 Working Group on Concrete Saskatchewan
349 Working Group on Concrete Reactor Vessels Confederation 5
359 Working Group on Liners Tudor 8
359 Working Group on Reinforcing and Prestressing Systems Tudor 9
547 Refractory Concrete Room 3

8:30 a.m. - 12:00 noon
FERROCEMENT: MATERIALS AND APPLICATIONS
(Sponsored by ACI Committee 549) Canadian

9:00 a.m. - 12:00 noon
RESEARCH ON PLAIN AND REINFORCED CONCRETE
(Sponsored by ACI Committee 115) Ontario

MATHEMATICAL MODELING OF REINFORCED CONCRETE STRUCTURES
(Sponsored by ACI Committee 442) (first session) Ballroom
359 Subgroup on Design Nova Scotia
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<td>Working Group on Impact and Impulse York</td>
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<td>12:00 noon - 5:30 p.m.</td>
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<td>12:15 p.m. - 2:30 p.m.</td>
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<td>Subgroup on Design</td>
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<td>Working Group on Concrete</td>
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<td>359</td>
<td>Working Group on Reinforcing and Prestressing Systems</td>
<td>Tudor 9</td>
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<tr>
<td>2:30 p.m. - 4:30 p.m.</td>
<td>New Board of Direction</td>
<td>Toronto</td>
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<tr>
<td>318</td>
<td>Standard Building Code</td>
<td>Quebec</td>
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<tr>
<td>349</td>
<td>Concrete Nuclear Structures</td>
<td>Confederation 6</td>
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<tr>
<td>515</td>
<td>Coatings for Concrete</td>
<td>Alberta</td>
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<tr>
<td>544</td>
<td>Fiber Reinforced Concrete</td>
<td>Manitoba</td>
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<td>547</td>
<td>Refractory Concrete</td>
<td>Room 3</td>
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<tr>
<td>E-601</td>
<td>Seminars and Workshops</td>
<td>Prince Edward Island</td>
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<tr>
<td>8:00 a.m. - 1:00 p.m.</td>
<td>Concrete Components for Nuclear Reactors</td>
<td>Quebec</td>
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<tr>
<td>9:00 a.m. - 12:00 noon</td>
<td>BEHAVIOR AND DESIGN OF BEAM-COLUMN JOINTS</td>
<td>Concert Hall</td>
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<tr>
<td>359</td>
<td>Working Group on Concrete</td>
<td>Quebec</td>
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<td>515</td>
<td>Coatings for Concrete</td>
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<td>Fiber Reinforced Concrete</td>
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<tr>
<td>547</td>
<td>Refractory Concrete</td>
<td>Room 3</td>
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MONDAY, APRIL 10
9:00 a.m.-12:00 noon

SEMINAR: INTRODUCTION TO
CMA METRIC STANDARDS ON
CONCRETE DESIGN AND CON-
CRETE CONSTRUCTION

sponsored by the Canadian Standards
Association

Ballroom

This seminar will concentrate on the updated
metric standards expected to be published by
early 1978 and will cover the following subjects:

Codes and Standards in Canada
Role of the CSA Steering Committee on Con-
crete
Resource Support for Standardization
Design of Concrete Structures for Buildings
(CSA Standard A23.3)

Speakers for this part of the seminar are
Stanley Cumming and James G. MacGregor.

Following these speakers will be a panel
discussion on "Concrete Materials and Methods
of Construction (CSA Standards A23.1, A23.2,
A23.4)." The panel chairman will be V.M.
Malhotra and the members of the panel will be
Philip T. Seabrook, Louis A. Gottheil, J. Neil
Mustard, and Kai Holbek.

NOTE: A separate registration fee of $25.00 is
charged for this seminar. This fee is payable to
the Canadian Standards Association (CSA desk
is near the ACI Registration in the Convention
Lobby).

MONDAY, APRIL 10
2:00 p.m.-5:00 p.m.

CONCRETE IN CANADA:
SEGMENTAL CONSTRUCTION

sponsored by ACI Ontario Chapter

Ballroom

Session Chairman: Laurence Cazaly, principal,
Cazaly Associates Limited,
Thornhill, Ontario

The Production Casting and Handling of
Precast Concrete Segments for the Mon-
treal Olympic Stadium
Kai Holbek, president, Kai Holbek Associates,
Vancouver, British Columbia

Post-Tensioning of the Montreal Olympic
Stadium
William M. Slater, president, Conenco In-
ternational Ltd., Toronto, Ontario

Mass Production of Highly Toleranced
Precast Concrete Tunnel Segments
John A. Bickley, vice-president, The Trow Group
Ltd., Rexdale, Ontario

Technical and Economic Advantages of
Precast Concrete Tunnel Segments
Douglas D. Dunbar, director, R.V. Anderson
Associates, Ltd., Toronto, Ontario
TUESDAY, APRIL 11
9:00 a.m.-12:00 noon

CONCRETE IN CANADA:
OUTSTANDING
CONCRETE STRUCTURES

sponsored by ACI Ontario Chapter

Ballroom

Session Chairman: D. B. Redfern, Proctor and
Redfern Limited, Consulting Engineers,
Toronto, Ontario

Construction of the Shubenacadie River
Bridge at South Maitland, Nova Scotia
Daniel H. Franklin, vice-president, Whitman,
Benn and Associates Ltd., Halifax, Nova Scotia

Body Architecture in North York Federal
Building
Macy DuBois, principal, DuBois and Associates,
Architects and Planners, Toronto, Ontario

Construction of Burrard Inlet Ferry
Terminal
Andy Smail, chief engineer, Dillingham Cor-
poration Ltd., West Vancouver, British Columbia

TUESDAY, APRIL 11
9:00 a.m.-12:00 noon and
2:00 p.m.-5:00 p.m.

SEMINAR: DESIGN
OF SANITARY
ENGINEERING STRUCTURES

sponsored by ACI Committee E-702

Ontario

The following topics will be discussed and
analyzed at this all-day seminar:
1. Design of rectangular open top tanks in-
cluding earthquake loading considerations;
2. Design of circular prestressed concrete
tanks;
3. City of Montreal waste water facility (en-
visioned to be the world's largest).

Since both rectangular and circular tanks will
be discussed, it is possible to apply their design
features to other structures.

NOTE: A separate registration fee is charged
for this seminar of $45.00 for ACI Members and
$55.00 for non-members. Since enrollment is
limited, early registration is advised.

ACI FUTURE CONVENTIONS

1978 Fall Convention
October 29-November 3
Hyatt Regency Hotel
Houston, Texas

1979 Annual Convention
March 18-23
Marc Plaza Hotel
Milwaukee, Wisconsin

1979 Fall Convention
October 28-November 2
The Capital Hilton Hotel
Washington, D.C.
CONCRETE IN CANADA:
ECONOMICS IN THE USE
OF WASTE MATERIAL FOR
CONCRETE AND
CEMENT MANUFACTURE

sponsored by ACI Ontario Chapter

Ballroom

Session Chairman: D. O. Robinson, consulting
engineer, Toronto, Ontario

Use of Iron Blast Furnace Slag as Concrete Aggregate
John Emery, McMaster University, Hamilton, Ontario

Use of Ground Iron Blast Furnace Slag as a Replacement for Portland Cement
Peter Mollard, Standard Industries Ltd., Toronto, Ontario

Use of Pulverized Fuel Ash by the Ready Mix Concrete Producer
Gary Woolgar, general manager, Dufferin Concrete Products Group, Toronto, Ontario

Waste Oil and Polychlorinated Biphenyls (PCB) as Kiln Fuels in Portland Cement Manufacturing
Larry MacDonald, chief chemist, St. Lawrence Cement Company, Mississauga, Ontario

Refuse-Derived Fuel as a Partial Substitute for Normal Kiln Fuel in Portland Cement Manufacturing
Ray Luca, process engineer, Canada Cement Lafarge Ltd., Woodstock, Ontario

WEDNESDAY, APRIL 12
8:15 a.m.
Continental Breakfast

Canadian Room

9:00 a.m.-10:30 a.m.
GENERAL SESSION

Canadian Room

Session Chairman: John A. Bickley, general chairman, 1978 Annual ACI Convention, and vice-president, The Trow Group Limited, Rexdale, Ontario

Keynote Address
David Crombie, Mayor, City of Toronto, Toronto, Ontario

Presidential Address
Richard C. Mielzenz, President, ACI, and vice-president, Research and Development, Master Builders, Cleveland, Ohio

Acknowledgment of Chapter Officers

Presentation of the Delmar L. Bloem Distinguished Service Awards
Recipients: [W. GENE CORLEY] [EUGENE P. HOLLAND]

A Preview of the Tall Buildings Monograph: Vol. CB
[James G. MacGregor] professor, Department of Civil Engineering, University of Alberta, Edmonton, Alberta

10:30 a.m.
ACI Rap Session

Canadian Room

WHAT DO YOU WANT TO KNOW ABOUT ACI?
Richard C. Mielzenz, President &
George F. Leyh, Executive Director
Invite YOU to Ask Them
STUDENT ACTIVITIES SEMINAR

sponsored by ACI Committee E-801

Ontario

This program has been developed by the "Student Concrete Projects" Committee especially for engineering students. There is no fee for this program.

Discussion of the Technical Activities of ACI
John E. Breen, chairman, ACI Technical Activities Committee, and professor, Department of Civil Engineering, University of Texas, Austin, Texas

Plans to Develop Performance Codes and Specifications for Design and Construction

Community Projects for Students and Professionals
William E. Brewer, member, ACI Educational Activities Committee, and vice-president, engineering, Kuhlman Corporation, Toledo, Ohio

Competitive Design Projects and Models
Boyd C. Ringo, member, ACI Educational Activities Committee, and professor, Department of Civil Engineering, University of Cincinnati, Cincinnati, Ohio

Concrete Canoe Racing Program
Charles F. Scholer, chairman, ACI Committee E-801, Student Concrete Projects, and professor, Department of Civil Engineering, Purdue University, West Lafayette, Indiana

SEMERN: PREVIEW AND SUMMARY OF THE NEW BUILDING CODE ACI 318-77: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

sponsored by ACI Committee 318

Ballroom

The following topics will be covered in this seminar:

a) Editorial and Format Changes
b) Technical Changes
c) 318 Beyond '77

Each attendee will receive a copy of the new Code, Commentary, and the Seminar Program Workbook. The panel of instructors will be 318 members and directed by:

Eugene P. Holland, chairman, ACI Committee 318, and president, Wiesinger-Holland, Ltd., Chicago, Illinois

Gerald B. Neville, secretary, ACI Committee 318, manager, structural codes, Portland Cement Association, Skokie, Illinois

NOTE: A separate registration fee is charged for this seminar of $35.00 for ACI Members and $45.00 for non-members. Since enrollment is limited, early registration is advised.
THURSDAY, APRIL 13
8:30 a.m.-12:00 noon

FERROCEMENT — MATERIALS
AND APPLICATIONS

sponsored by ACI Committee 549

Canadian Room

Session Chairman: Gajanan M. Sabnis, associate professor, Department of Civil Engineering, Howard University, Washington, D.C.

**Ferrocement — Past and Present**
Gajanan M. Sabnis, session chairman

**Survey of Mechanical Properties of Ferrocement as a Structural Material**
Gordon Batson, professor, Department of Civil and Environmental Engineering, Clarkson College, Potsdam, New York

**Ferrocement Applications in Mexico City Low Cost Housing**
Jose Castro, head of construction area, Universidad Autonoma Metropolitana, Mexico City, Mexico

**Design Predictions of Crack Widths in Ferrocement**
Antoine E. Naaman, assistant professor of structural design, Department of Materials Engineering, University of Illinois at Chicago Circle, Chicago, Illinois

**Development of Fibrous Ferrocement**
Douglas Alexander and Maurice Atcheson, partners, Alexander and Poore, Consulting Engineers, Auckland, New Zealand

**A Study of Tensile Cracks and Bond-Slip in Ferrocement**
Ricardo P. Pama and V. Intaragumphaeng, Department of Civil Engineering, Asian Institute of Technology, Bangkok, Thailand

**Uses of Ferrocement in the Middle-East Countries**
H. R. Al-Alusi, lecturer, Department of Civil Engineering, University of Baghdad; and Abdul-Salam Alwash, civil engineer, Baghdad, Iraq

**Tentative Recommendations for the Construction of Ferrocement Tanks**
S. P. Shah, professor of civil engineering, Department of Materials Engineering, University of Illinois at Chicago Circle, Chicago, Illinois

**The Efficient and Economical System for Producing Ferrocement Elements**
B. R. Walkus, professor, Department of Civil Engineering, Lodz Technical University, Lodz, Poland

**Research Needs and Future of Ferrocement as a Structural Material**
James P. Romualdi, chairman, ACI Committee 549, and professor, Department of Civil Engineering, Carnegie-Mellon University, Pittsburgh, Pennsylvania
THURSDAY, APRIL 13
9:00 a.m.-12:00 noon

MATHEMATICAL MODELING OF REINFORCED CONCRETE STRUCTURES

sponsored by ACI Committee 442

Ballroom

Session Chairman: James G. MacGregor
professor of civil engineering, University of Alberta, Edmonton, Alberta

Session 1
Introduction
S. M. Uzumeri, professor, Department of Civil Engineering, University of Toronto, Toronto

Significance of Stiffness Assumptions on Lateral Force Criteria
Sigmund A. Freeman, structural engineer and associate; R. Martin Czarnecki and Kenneth K. Honda, civil engineers, URS/John A. Blume and Associates, Engineers, San Francisco, California

The Practical Application of Computer Analysis to the Design of Reinforced Concrete Structures for Earthquake Forces
Chris D. Poland, civil engineer, Henry J. Degenkolb and Associates, San Francisco

The Loading History for Use in Quasi-Static Simulated Earthquake Loading Tests
A. T. Derecho and M. Iqbal, structural engineers; Mark Fintel, director, Engineering Design and Standards; and W. Gene Corley, director, Engineering Development Department, Portland Cement Association, Skokie, Illinois

Theoretical and Experimental Studies of the Response of Reinforced Concrete Structures to Earthquake Motions
Mete A. Sozen, professor, Department of Civil Engineering, University of Illinois, Urbana

Problems in Mathematical Modeling of Reinforced Concrete Buildings to Predict Their Response to Lateral Forces
V. V. Bertero, professor, Department of Civil Engineering, University of California, Berkeley

THURSDAY, APRIL 13
9:00 a.m.-12:00 noon

RESEARCH ON PLAIN AND REINFORCED CONCRETE

(Brief and confidential reports)

sponsored by ACI Committee 115

Ontario

Session Chairman: Boris Bresler, chairman, ACI Committee 115, and senior consultant, Wiss, Janney, Elstner & Associates, Inc., Emeryville, California
Secretary: Charles F. Scholer, secretary, ACI Committee 115, and professor, Department of Civil Engineering, Purdue University, West Lafayette, Indiana

Behavior of Reinforced Concrete Columns Under Simulated Biaxial Earthquake Loads
S. Otani, University of Toronto, Toronto, Ontario

Properties of Mass ConcreteContaining Fly Ash at High Temperatures
K. W. Nasser, University of Saskatchewan, Saskatoon, Saskatchewan

Structural Behavior of a Skew Box Girder Bridge
Alex C. Scordelis and Jack G. Bouwkamp, University of California, Berkeley, California

The Use of Partially Ground Pelletized Slag as a Binder Replacement in Autoclaved Concrete Blocks
R. D. Hooton and J. J. Emery, McMaster University, Hamilton, Ontario

Use of Small Scale Direct Models to Study the Progressive Collapse of Industrialized Large Panel Buildings
Harry G. Harris and John C. Muskivitch, Drexel University, Philadelphia, Pennsylvania
THURSDAY, APRIL 13
2:30 p.m.-5:30 p.m.

PRECAST CONCRETE
BEARING WALL BUILDINGS:
DESIGN CONSIDERATIONS
FOR SAFETY AGAINST
PROGRESSIVE COLLAPSE
AND SEISMIC EFFECTS

sponsored by ACI Committee 356

Ontario

Session Chairman: Eric F. P. Burnett, chairman, ACI Committee 356, and associate professor, Department of Civil Engineering, University of Waterloo, Waterloo, Ontario

The Nature of the Problem
Mark Fintel, director, Advanced Engineering Services, Portland Cement Association, Skokie

The Structural Safety of Wall Systems
Donald M. Schultz, senior structural engineer, Portland Cement Association, Skokie, Illinois

The Structural Safety of Precast Hollow Core Floor or Roof Systems
Eric F. P. Burnett, session chairman

Design of Large-Panel Structures in Seismic Zones
E. P. Popov, V. V. Bertero, and S. V. Vartak, University of California, Berkeley, California

The Performance of the Wall-to-Floor Joints in Large Panel Buildings
M. W. Hanson, principal structural engineer; and L. S. Johal, construction engineer, Portland Cement Association, Skokie, Illinois

The State of Current Design Practice in Precast Concrete Bearing Wall Buildings for Seismic Considerations
N. W. Hanson, principal structural engineer, Ecodyne Cooling Products Division, Ecodyne Corporation, Santa Rosa, California

Seismic Considerations in the Design of Precast Concrete Panel Buildings
James M. Becker, assistant professor, Massachusetts Institute of Technology, Cambridge, Massachusetts

A Critical Review of the Latest Design Provisions for the Structural Integrity of Precast Concrete Buildings
Irwin J. Spiey, consulting engineer, New York

Reaction to PCA Report 4 — Hollow Core Slab Committee, PCI
Donald R. Buettner, president, Computerized Structural Design Inc., Milwaukee, Wisconsin
AWARDS LUNCHEON
THURSDAY,
APRIL 13, 12:15 P.M.
Concert Hall

Come meet the awardees and new ACI officers. Have fun, enjoy a good lunch, and watch the multi-media awards presentation show.

Honorary Memberships:
- William A. Cordon
- T.Y. Lin
- Robert E. Philleo
- R.E. Rowe
- Alfred A. Yee

Charles S. Whitney Award:
Bechtel Power Corporation

Henry C. Turner Award:
Arthur R. Anderson

Alfred E. Lindau Award:
Mark Fintel

Roger H. Corbetta Concrete Constructor Award:
Charles Prokop

Arthur R. Anderson Award:
Richard D. Gaynor

Joe W. Kelly Award:
Boris Bresler

Cedric Willson Award:
Frank G. Erskine

Wason Medal for Most Meritorious Paper:
James R. Libby

Wason Medal for Materials Research:
V.M. Malhotra

Raymond C. Reese Structural Research Award:
Neil M. Hawkins

Construction Practice Award:
Frank A. Randell, Jr.
Peter D. Courtis

Henry L. Kennedy Award:
V.M. Malhotra

Chapter Activities Committee Award:
Edward G. Navy

Recognition of Retiring Officers
Introduction of New Officers
Presentation of Memento to Retiring President
THURSDAY, APRIL 13
2:30 p.m.-5:30 p.m.

MATHEMATICAL MODELING
OF REINFORCED CONCRETE
STRUCTURES

sponsored by ACI Committee 442

Ballroom

Session Chairman: Joseph Schwaighofer,
professor of civil engineering, University of
Toronto, Toronto, Ontario

Session II
Response of Slab-Column Structures to
Lateral Forces
Adrian E. Long, lecturer, Department of Civil
Engineering, Queen's University of Belfast,
Belfast, Northern Ireland; and D. W. Kirk,
professor of civil engineering, Royal Military
College of Canada, Kingston, Ontario

A Grid Model for Predicting Hysteretic
Behavior of Slab-Column Connections
Transferring Moments
M. S. Sheu and Neil M. Hawkins,
professor of civil engineering, University of
Washington, Seattle, Washington

Hysteretic Response of Reinforced
Concrete Structural Walls
Ralph G. Oestere, structural engineer; Anthony
E. Florato, manager, Construction Methods; J.
Dario, Architectural Design, structural engineer;
and W. Gene Corley, director, Engineering
Development Department, Portland Cement
Association, Skokie, Illinois

Distribution of Inertial Forces Over the
Height of Reinforced Concrete Structural
Walls Subjected to Strong Ground Motion
M. Iqbal and A. T. Derecho, structural engineers;
and W. Gene Corley, director, Engineering
Development Department, Portland Cement
Association, Skokie, Illinois

The Effect of Nonlinear-Inelastic
Connection Behavior on Precast
Panelized Shear Walls
C. Llorente, James M. Becker, assistant
professor; and Jose M. Roesset, professor,
Massachusetts Institute of Technology, Cam-
bridge, Massachusetts

Mathematical Modeling of Infilled Frames
Richard E. Klingner, assistant professor, Depart-
ment of Civil Engineering, University of Texas at
Austin, Austin, Texas

The Behavior of Outrigger-Braced
Tall Building Structures
B. Stafford-Smith, professor, Department of Civil
Engineering, and I.O. Nwaka, McGill University,
Montreal, Quebec

Tentative Schedule of
ACI 318-77 CODE AND
COMMENTARY
Seminar Series

April 18
co-sponsor: Oregon Chapter, ACI
Portland, Oregon

April 19
co-sponsor: New England Chapter, ACI Woburn,
Massachusetts

April 20
co-sponsor: Michigan Chapter, ACI, Detroit area

May 9
co-sponsor: Michigan Chapter, ACI, Detroit area

May 10
co-sponsor: Chicago Area Chapter, ACI
Chicago, Illinois

May 11
co-sponsor: Greater Miami Valley Chapter, ACI
Dayton, Ohio

May
co-sponsor: Washington State Chapter, ACI
Seattle, Washington

May 16
co-sponsor: The Cleveland Engineering Society
Cleveland, Ohio

May 17
co-sponsor: Houston Chapter, ACI, Rice Cam-
pus

May 18
co-sponsor: Concrete Industry Board, N.Y.C.
New York City

May 23
co-sponsor: Delaware Valley Chapter, ACI
Philadelphia, Pennsylvania

September 13
co-sponsor: New Jersey Chapter, ACI
Rutgers University
THURSDAY, APRIL 13
2:30 p.m.-5:30 p.m.

NORTH AMERICAN PRACTICE IN SEGMENTAL BRIDGES

sponsored by ACI Committee 443 and the Post-Tensioning Institute

Canadian Room

Session Chairman: Roger A. Dorton, manager, Structural Office, Ministry of Transportation and Communications, Downsview, Ontario

Islands Joined By Record Span, Koror-Bablethuap Bridge
Donald J. Ward, Dywidag Canada Ltd., Downsview, Ontario

Islington Avenue Bridge, Toronto
J. A. B. Lovell, Maksymek & Associates Ltd., Toronto, Ontario

Incremental Launched Box Girder - Wabash River, Indiana
David T. Swanson, VSL Corporation, Los Gatos, California

Zilwaukee Bridge Design Considerations
Brice Bender, president, BVN-STS, Indianapolis, Indiana

Kishwaukee River Bridge, Illinois
James M. Barker, Post-Tensioning Institute, Glenview, Illinois

Construction of Segmental Bridges
Daniel Demarthe, president, Preconsult Canada Ltd., Montreal, Quebec

THURSDAY, APRIL 13
7:00 p.m.-10:00 p.m.

FORUM: NEEDED RESEARCH AND DEVELOPMENT FOR FIBER REINFORCED CONCRETE

sponsored by ACI Committee 114 in cooperation with ACI Committee 544

Concert Hall

Although considerable research on Fiber Reinforced Concrete (FRC) has been communicated to ACI Committee 544, Fiber Reinforced Concrete, the committee believes the need exists for additional research and development to provide a better understanding of the behavior of the material systems, to broaden the acceptance of FRC in current applications, and to generate new applications. Areas of research and development needed to provide this understanding and acceptance are as follows:

1. Standardized methods need to be established for measuring FRC performance characteristics. Many of the presently accepted methods of concrete materials testing may need to be modified before they can be applied meaningfully to FRC.

2. Work is needed to further quantify the effect of fiber additions on mortar and concrete.

3. Theoretical models need to be developed to utilize FRC performance in analysis and design.

We invite those interested in sponsoring or carrying out the needed research and development to attend and participate in this Forum. The following panel will lead the discussion:

Moderator: Robert L. Henry, manager, Fort Worth Facility, Texas Testing Laboratories, Inc., Fort Worth, Texas

David R. Lankard, Lankard Materials Laboratory, Inc., Columbus, Ohio
Ronald F. Zolo, associate professor, University of Miami, Coral Gables, Florida
BEHAVIOR AND DESIGN OF BEAM-COLUMN JOINTS

sponsored by ACI Committee 352

Concert Hall

Session Chairman: J. O. Jirsa, chairman, ACI Committee 352 and professor, Department of Civil Engineering, University of Texas at Austin, Austin, Texas

Beam-Column Joints for Seismic Resistance
Brian W. Buchanan, research and development engineer; and Garry R. McKay, design engineer, Structural Section, Ministry of Works and Development, Wellington North, New Zealand

A Critical Evaluation of ACI 352 Recommendations
N. W. Hanson, principal structural engineer; and W. Gene Corley, director, Engineering Development Department, Portland Cement Association, Skokie, Illinois

Design Considerations for Frames in High and Low Seismicity Areas
Donald R. Strand, Brandow and Johnson Associates, Los Angeles, California

Shear Strength of Beam-Column Joints
Donald F. Meinheit, assistant professor, Department of Civil Engineering, University of Notre Dame, Notre Dame, Indiana

Beam-Column Joints — An Examination of Performance Expectations
S. M. Uzumeri, professor; and M. Seckin, graduate assistant, Department of Civil Engineering, University of Toronto, Toronto, Ontario

Post-Earthquake Damage in Beam-Column Joints
Mete A. Sozen, professor, Department of Civil Engineering, University of Illinois at Urbana-Champaign, Urbana, Illinois

FRIDAY, APRIL 14
9:00 a.m.-12:00 noon

LESSONS FROM STRUCTURAL PERFORMANCE

sponsored by ACI Committee 348

Ballroom

Session Co-Chairmen: Robert G. Drysdale, associate professor, Department of Civil Engineering, McMaster University, Hamilton, Ontario and David E. Allen, research officer, Division of Building Research, National Research Council of Canada, Ottawa.

Strength, Stiffness and Ductility Required in Earthquake-Resistant Multistory Reinforced Concrete Buildings

Investigation, Rehabilitation, and Maintenance to Prevent Deterioration of a Concrete Building
Arthur H. Anderson, Jr., senior project design engineer, Chemical Systems Division, United Technologies Inc., Sunnyvale, California

Reliability of Multistory Slab Structures Against Progressive Collapse During Construction
F. A. Webster, Engineering Decision Analysis Company Inc., Palo Alto, California

Model Studies on a Multistory Panel Structure
Graham S. T. Armer, principal scientific officer, Structural Design Division, Building Research Station, Garston, Watford, England

Binary Case of Gross Error
A. S. Nowak, research associate, Department of Civil Engineering, University of Waterloo, Waterloo, Ontario

Control of Cracking on the Side Faces of Large Reinforced Concrete Beams
Gregory C. Frantz, research assistant, and John E. Breen, J. J. McKetta professor of engineering, University of Texas, Austin, Texas

Designing Structures Instead of Individual Members
Robert G. Drysdale, session co-chairman
FRIDAY, APRIL 14
9:00 a.m.-12:00 noon

RAILROAD AND RAIL TRANSIT BRIDGES

sponsored by ACI Committee 443
Ontario

Session Chairman: Ti Huang, secretary, ACI Committee 443, and professor of civil engineering, Fritz Engineering Laboratory, Lehigh University, Bethlehem, Pennsylvania

Load Factor Design in AREA Bridge Code
Gerald B. Neville, manager, Structural Codes, Portland Cement Association, Skokie, Illinois

Concrete Bridges for Railroads
W. E. Brakensiek, Missouri Pacific Railroad Company, St. Louis, Missouri.

Replacement of Timber Decks on Railroad Bridges with Prestressed Concrete Slabs
W. R. Hyma, bridge engineer, Atchison, Topeka and Santa Fe Railway Company, Chicago, Illinois

Pretensioned Double-Tee Girders for Dade County Rapid Transit Aerial Guideways
Thomas T. C. Hsu, chairman, Civil Engineering Department, University of Miami; and Sarosh Dhondy, Kaiser Transit Group, Coral Gables, Florida

Design and Construction of the Elevated Structure for Canadian Urban Transportation System

Design Study of Guideway for a High-Speed Magnetically-Levitated Vehicle
T. I. Campbell and K. VanDalen, associate professors of civil engineering; D. L. Atherton, professor of physics; and A. R. Eastham, research associate, Canadian Institute of Guided Ground Transport; Queen's University, Kingston, Ontario

FAMILY MEMBERS PROGRAM
Hospitality: Room B. Convention Floor

Morning coffee and light refreshments will be provided in the hospitality room starting Monday morning at 8:30 a.m. It will be staffed by local committee members who will assist in organizing activities such as dinner parties, theatre parties, and shopping tours. The suite will be open and staffed all day and will act as a meeting and gathering place for attendees.

SCHEDULE OF TOURS

MONDAY, APRIL 10
CITY TOUR AND LUNCH

10:00 a.m.
Depart Hotel for a City tour. This deluxe tour will take you all over Toronto, including Yonge Street; Bay Street and the Financial District; The Eaton's Centre; Rosedale, Forest Hill and Bayview residential areas with their many celebrity homes; Yorkdale; the Science Centre; Casa Loma; University of Toronto Campus; the Royal Ontario Museum and McLaughlin Planetarium; The Hydro Building; the Lakeshore and Harbour; Exhibition Park; High Park, etc. (not in chronological order and subject to revision). There will be a stop for coffee during this tour.

12:30 p.m. (approx.)
Arrive at the Manu-Life Centre in the heart of fashionable Bloor Street. A ride to the top of this high rise will take you to the Aquarius Lounge, where you will lunch in this beautifully redesigned room, renowned as having one of the finest views in the City. To enhance your luncheon enjoyment, there will be a pianist for the duration.

2:30 p.m.
After lunch, your Hostess will escort you through Bloor Street and Yorkville to Hazelton Lanes, that "little piece of Cannes in Toronto." From here, either —

3:00 p.m.
Take our charter bus back to the Royal York, or stay and browse and make your own way back to the Hotel when you choose (Subway token provided!). Cost per person: $15.00
TUESDAY, APRIL 11
BLACK CREEK AND
KLEINBURG

9:30 a.m.
Depart Hotel by bus for Black Creek Pioneer Village, a re-creation of the way an Ontario township looked and felt in the last century. Among other interesting items, note the General Store, Print House, Town Hall, Fire House and 1840's Mill with its four-ton wooden water-wheel and wander into homes that reflect the life-styles of their original owners, where you will see today's 'Pioneer' residents going about their household tasks and working at trades reminiscent of that era.

11:45 a.m.
Re-board your buses and head towards the town of Kleinburg. Once there, stop at the Doctor's House and Livery, one of the oldest residences in Kleinburg, where you will lunch.

2:00 p.m.
After lunch, your buses will take you the short distance to the McMichael Gallery, a fascinating structure which houses important works by the famous 'Group of Seven' Canadian Artists, and also much Indian and Inuit art.

4:30 p.m. (approx.)
Arrive back at your Hotel.
Cost per person: $19.75.

WEDNESDAY, APRIL 12
C. N. TOWER BREAKFAST

8:00 a.m.
Your buses will pick you up and drive you to the C.N. Tower, the world's tallest free-standing structure. The restaurant and observation galleries have a potential 75-mile view, and are an absolute must for the camera buffs among you!

8:30 a.m.
After a breath-taking ride up the side of the Tower, relax in the Top of Toronto Restaurant, where you will enjoy a delicious breakfast while the restaurant revolves to give you an ever-changing view of the City of Toronto and its surroundings.

9:45 a.m.
Buses return you to the Royal York Hotel.
Cost per person: $13.50

THURSDAY, APRIL 13
LUNCHEON AND CABARET

1:15 p.m.
Meet in the lobby of the Hotel and your Hostesses for today will escort you across to the Tellers' Cage theatre restaurant in the Commerce Court, where sherry will be served for your pre-luncheon enjoyment. Either during this time, or later in the afternoon, you will have a chance to meet the cast personally and chat about the show.

2:00 p.m.
Luncheon.

2:45 p.m.
Cabaret time.

4:45 p.m. (approx.)
Arrive back at your Hotel.
Cost per person: $19.50