

VANCOUVER PROGRAM

1975 FALL CONVENTION NOV. 2-7



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*American Concrete Institute P.O. Box 19150 Detroit, Michigan 48219



PROGRAM FALL CONVENTION

November 2-7, 1975 Vancouver, British Columbia

Registration fees cover attendance at all ACI technical and educational committee meetings, general session, and symposia. They do not cover the educational seminars on Tuesday for which there is an additional charge.

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SCHEDULE

SUNDAY, NOVEMBER 2

2:00 p.m. - 6:00 p.m.

Administrative committee meetings

MONDAY, NOVEMBER 3

8:30 a.m. - 9:30 p.m.

Administrative, technical, and educational committee meetings

TUESDAY, NOVEMBER 4

8:30 a.m. - 9:30 p.m.

Technical and educational committee meetings

8:30 a.m. - 12:30 p.m.

Formwork Design Workshop (registration fee: \$20.00)

9:00 a.m. - 5:30 p.m.

Training Responsibilities of Level III Inspection Engineers for Nuclear Reactors and Containments Seminar (registration fee: \$40.00 Members, \$60.00 Nonmembers)

WEDNESDAY, NOVEMBER 5

8:30 a.m. - 6:00 p.m.

Administrative, technical, and educational committee meetings

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

Portland Cement Plastering – Problems and Benefits (Committee 524)

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

The Building of the CN Tower

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

Research on Plain and Reinforced Concrete (Committee 115)

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

Effective Committee Chairmanship Workshop (no fee)

6:30 p.m. - 8:00 p.m. Concrete Mixer

THURSDAY, NOVEMBER 6

8:15 a.m. - 12:00 noon

General Session

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

Concrete Guideways (Committee 358)

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

Avianca Building Fire

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

Cold Regions Concreting Symposium (Committee 306)

2:00 p.m. - 9:30 p.m.

Technical and educational committee meetings

FRIDAY, NOVEMBER 7

8:30 a.m. - 12:30 p.m.

Technical committee meetings

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

Design and Construction of Oceanic Plaza Office Tower

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

Limit Design of Slabs: Code Considerations (Committee 421)

SPECIAL EVENTS

Publications Display . . . in the Chehalis Room. All the current ACI publications are there. Orders are taken at the Registration Desk which is also in the Chehalis Room.

Education at the Convention...One half-day workshop, one full-day seminar, and a two-hour workshop will be presented. Each of the Tuesday programs will require a separate registration fee, as noted below, which is payable at the ACI Registration Desk. The two-hour workshop on Wednesday is included in the convention registration fee.

Since enrollment is limited, early registration is advised.

Formwork Design Workshop...8:30 a.m. - 12:30 p.m., Tuesday, November 4, in the Thompson room. Designers, engineers, and constructors concerned with the safety of formwork will benefit from attendance at this program. Registration fee is \$20.00

Training Responsibilities of Level III Inspection Engineers for Nuclear Reactors and Containments...9:00 a.m. - 5:30 p.m.., Tuesday, November 4, in the Stanley room. Certified Level III Inspection Engineers as well as engineers preparing for certification should attend this workshop. Lunch is included. Registration fee is \$40.00 for ACI Members; \$60.00 for Nonmembers.

Effective Committee Chairmanship Workshop . . . 4:00 p.m. - 6:00 p.m., Wednesday, November 5, in the Mackenzie room. The purpose of this workshop is to increase the productive efforts of ACI committees, as well as attendance at committee meetings. There is no registration fee for this workshop.

"Concrete Mixer" . . . Wednesday, November 5, 6:30 to 8:00 p.m., in the Ballroom. Please wear your badge.

Breakfasts (by invitation only):

Wednesday, November 5, 7:00 a.m.

breakfast for program participants in the sessions on Portland Cement Plastering — Problems and Benefits, The Building of the CN Tower, and Research on Plain and Reinforced Concrete. Chairman room.

Thursday, November 6, 7:00 a.m.

breakfast for program participants in the General Session and the sessions on Concrete Guideways, Avianca Building Fire, and Cold Regions Concreting, Chairman room.

Friday, November 7, 7:00 a.m.

breakfast for program participants in the sessions on Design and Construction of the Oceanic Plaza Office Tower and Limit Design of Slabs: Code Considerations, Chairman room,

COMMITTEE MEETINGS

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

COMMITTEE

Meeting Room

SUNDAY, NOVEMBER 2

Technical Activities Committee

2:00 p.m. - 6:00 p.m. Cowichan

Monday

NOVEMBER 3

	8:30 a.m.	10:30 a.m.
	Board Committee on International Activities	Coquitlam
	Planning Committee	Board
	Educational Activities Committee	Director
	Technical Activities Committee	Cowichan
	Chapter Activities Committee	Discovery
212	Admixtures for Concrete	Prospect
306	Cold Weather Concreting	Chairman
351	Foundations for Equipment and Machinery	Park
358	Concrete Guideways	Thompson
360	Design of Slabs on Grade	President
531	Masonry Structrues	Stanley
547	Refractory Concrete	Ferguson
	10:30 a.m	
	Board Committee on International Activities	Coquitlam
	Educational Activities Committee	Director
	Technical Activities Committee	Cowichan
	Chapter Activities Committee	Discovery
212	Admixtures for Concrete	Prospect
306	Cold Weather Concreting	Chairman
318	Subcommittee B, Concrete Quality, Mixing,	
0.0	and Placement	Thompson
340	Strength Design Handbook	Mackenzie
344	Circular Prestressed Concrete Structures	Fraser
351	Foundations for Equipment and Machinery	Park
351	Subcommittee 4, Special Equipment and Mach	A STATE OF THE PARTY OF THE PAR
360	Design of Slabs on Grade	President
531	Masonry Structures	Stanley
547	Refractory Concrete	Ferguson
547		- 2:00 p.m.
	Institute and Industry Advancement Committee	and the second s
	motitude and madely reasonable committee	R. Wilde
	2:00 p.m.	- 4:00 p.m.
	Educational Activities Committee	Director
	General Activities Committee	Coquitlam
223	Expansive Cement Concrete	Cowichan
318	Subcommittee E, Analysis and Strength	
310	Requirements	Thompson
318	Subcommittee N, Earthquake Resistant	7110111123011
310	Design Requirements	Board
340	Strength Design Handbook	Mackenzie
344	Circular Prestressed Concrete Structures	Fraser
350	Concrete Sanitary Structures	President
350	Concrete Sanitary Structures	riesidelli

351	Subcommittee 1, Impact Machinery	Park
426	Shear and Diagonal Tension	Chairman
503	Adhesives for Concrete	Prospect
515	Coatings for Concrete	Discovery
531	Masonry Structures	Stanley
547	Refractory Concrete	Ferguson
	4:00 p.m	6:00 p.m.
	Educational Activities Committee	Director
	General Activities Committee	Coquitlam
223	Expansive Cement Concrete	Cowichan
318	Subcommittee E, Analysis and Strength	
	Requirements	Thompson
318	Subcommittee G, Flexure and Axial Loads	Ferguson
318	Subcommittee N, Earthquake Resistant Design	n
	Requirements	Board
340	Strength Design Handbook	Mackenzie
344	Circular Prestressed Concrete Structures	Fraser
350	Concrete Sanitary Structures	President
351	Subcommittee 3, Static Equipment	Park
426	Shear and Diagonal Tension	Chairman
503	Adhesives for Concrete	Prospect
515	Coatings for Concrete	Discovery
531	Masonry Structures	Stanley
	7:30 p.m.	9:30 p.m.
318	Subcommittee A, General Building Code	Director
318	Subcommittee C, Formwork, Embedded Pipes	s, and
	Construction Joints	Cowichan
318	Subcommittee G, Flexure and Axial Loads	Ferguson
318	Subcommitte H, Shear and Torsion	Stanley
318	Task Group on Plain Concrete	Coquitlam
318	Task Group on Progressive Collapse	Park
318	Task Group on Code Simplification	Board
428	Limit Design	President
516	High Pressure Steam Curing	Discovery
E-702	Designing Concrete Structures	Prospect

Tuesday

NOVEMBER 4

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421 Reinforced Concrete Slabs Prosp 435 Deflections of Structures Cowice 7:30 p.m 9:30 p.			Mackenzie
435 Deflections of Structures 7:30 p.m 9:30 p.			Prospect
7:30 p.m 9:30 p.			Cowichan
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The state of the s		The state of the s	Board

103	Monographs	Coquitlam
116	Nomenclature	Park
213	Structural Lightweight Concrete	Discovery
224	Cracking	Ferguson
318	Subcommittee K, Precast and Composite	MASS I
	Concrete	President
318	Task Group on Systems Building	Thompson
325	Concrete Pavements	Prospect
348	Structural Safety	Cowichan
E-701	Materials for Concrete Construction	Chairman

Wednesday

NOVE	MBER 5	
	8:30 a.m.	- 10:30 a.m.
118	Use of Computers	Coquitlam
120	History of Concrete	Prospect
224	Cracking	Ferguson
305	Hot Weather Concreting	President
318	Subcommittee D, Details and Development	
	of Reinforcement	Board
318	Subcommittee F, Serviceability	Chairman
352	Joints and Connections	Mackenzie
442	Response of Buildings to Lateral Forces	Cowichan
506	Shotcreting	Discovery
E-703	Concrete Construction Practices	Director
	9:00 a.m.	12:00 noon
	PORTLAND CEMENT PLASTERING - PRO	BLEMS AND
	BENEFITS (Sponsored by ACI Committee 52	24) See
	Page 13	Stanley/Park
	THE BUILDING OF THE CN TOWER (first :	session) See
	Page 14	Fraser
	Board of Direction	Thompson
		- 12:30 p.m.
118	Use of Computers	Coquitlam
305	Hot Weather Concreting	President
318	Subcommittee D, Details and Development	
	of Reinforcement	Board
318	Subcommittee F, Serviceability	Chairman
438	Torsion	Prospect
442	Response of Buildings to Lateral Forces	Cowichan
506	Shotcreting	Discovery
544	Fiber Reinforced Concrete	Ferguson
E-703	Concrete Construction Practices	Director
	2:00 p.m	4:00 p.m.
	Board of Direction	Thompson
		Litottipaoti
118	Use of Computers	Coquitlam
	Use of Computers Creep and Shrinkage in Concrete	
118 209 309		Coquitlam

318	Standard Building Code	Discovery
345	Concrete Bridge Construction and	
	Maintenance	Director
524	Portland Cement Plastering	Board
544	Fiber Reinforced Concrete	Ferguson
E-601	Seminars and Workshops	Prospect
	2:00 p.m	5:00 p.m.
	THE BUILDING OF THE CN TOWER (second s	
	See Page 14	Fraser
	RESEARCH ON PLAIN AND REINFORCED C	ONCRETE
	(Sponsored by ACI Committee 115) See Page 15	5
		tanley/Park
	4:00 p.m	6:00 p.m.
	EFFECTIVE COMMITTEE WORKSHOP (Spons	
	ACI Educational Activities Committee) See Page	
		Mackenzie
	Board of Direction	Thompson
118	Use of Computers	Coquitlam
215	Fatigue of Concrete	Cowichan
302	Concrete Floor Finishes	Ferguson
309	Consolidation of Concrete	President
311	Inspection of Concrete	Chairman
318	Standard Building Code	Discovery
345	Concrete Bridge Construction and Maintenance	Director
	Models of Concrete Structures	Board
444		

Thursday

NOVE	MBER 6	
	8:15 a.m.	- 12:00 noon
	GENERAL SESSION See Page 17	Ballroom
	2:00 p.n	n 4:00 p.m.
	Standards Board	Board
	Convention Committee	Prospect
311	Inspection of Concrete	Chairman
318	Standard Building Code	Discovery
359	Working Group on General Requirements	Cowichan
359	Subgroup on Inservice Inspection	President
359	Working Group on Quality Assurance	Thompson
359	Working Group on Concrete Reactor Vessels	Ferguson
549	Polymers in Concrete	Coquitlam
E-801	Student Concrete Projects	Director
	2:00 p.n	n 5:00 p.m.
	CONCRETE GUIDEWAYS (Sponsored by A	
	358) See Page 18	Mackenzie
	AVIANCA BUILDING FIRE See Page 19	Fraser
	COLD REGIONS CONCRETING SYMPOSIL	JM (Sponsored
	by ACI Committee 306) See Page 20	Stanley/Park
	4:00 p.n	n 6:00 p.m.
	Convention Committee	Prospect
318	Standard Building Code	Discovery
359	Working Group on General Requirments	Cowichan
359	Subgroup on Inservice Inspection	President

359	Working Group on Quality Assurance	Thompson
359	Working Group on Concrete Reactor Vessels	Ferguson
512	Precast Structural Concrete	Board
548	Polymers in Concrete	Coquitlam
E-801	Student Concrete Projects	Director
	7:30 p.m.	- 9:30 p.m.
120	History of Concrete	Prospect
308	Curing Concrete	Director
318	Standard Building Code	Discovery
359	Working Group on General Requirements	Cowichan
359	Subgroup on Inservice Inspection	President
359	Working Group on Quality Assurance	Thompson
359	Working Group on Concrete Reactor Vessels	Ferguson
504	Joint Sealants	Chairman

Friday

NOVEMBER 7

546

MOA	EIVIDEN /	
	8:30 a.m.	10:30 a.m.
114	Research and Development	President
359	Concrete Components for Nuclear Reactors	Discovery
443	Concrete Bridge Design	Coquitlam
546	Repair of Concrete	Chairman
	9:00 a.m.	11:00 a.m.
117	Tolerances	Cowichan
	9:00 a.m	12:00 noon
	DESIGN AND CONSTRUCTION OF OCEAN	IC PLAZA
	OFFICE TOWER See Page 21	Fraser
	LIMIT DESIGN OF SLABS: CODE CONSIDE	RATIONS
	(Sponsored by ACI Committee 421)	

See Page 21 Stanley/Park
10:30 a.m. - 12:30 a.m.

10:30 a.m. - 12:30 a.m.
359 Concrete Components for Nuclear Reactors Discovery
443 Concrete Bridge Design Cognitian

ACI EDUCATIONAL SEMINARS SCHEDULE FOR FALL, 1975

November 13-14

Repair of Concrete

Strength Design and the ACI Code, 318-71 Kansas City, Missouri

December 4-5

Concrete in the Sea Mexico City, Mexico

Tuesday

November 4 8:30 a.m. - 12:30 p.m.

FORMWORK DESIGN WORKSHOP sponsored by ACI Committee E-702

Thompson

Design and construction problems associated with a multi-story concrete building will constitute the workshop activity. A team of instructors will assist in solving some problems emphasizing safety and construction efficiency.

Enrollment is limited so early registration is advised. Registration fee is \$20.00.

PROGRAM

Moderator:

William J. Wilhelm, chairman, ACI Committee E-702, and chairman, Department of Civil Engineering, West Virginia University, Morgantown, West Virginia

8:30 a.m. - 8:45 a.m. Introduction

8:45 a.m. - 9:30 a.m.

Selection of Framing System

Economy of Materials

Economy of Placing and Forming

Instructor: James R. Cagley, Martin & Cagley, Washington, D.C.

9:30 a.m. - 10:30 a.m.

Selection of Forming System

Construction Schedule Construction of Formwork Shoring and Reshoring

Instructor: Carl Guse, Miller Davis Company, Melrose Park, Illinois

10:30 a.m. - 10:45 a.m.

Stretch break

Chairman

10:45 a.m. - 11:45 a.m.

Formwork Design

Form Loads

Proper Loads for Shoring and Reshoring

Design of Shoring and Reshoring

Instructor: James P. Hanagan, Donley's, Cleveland, Ohio

11:45 a.m. - 12:30 p.m.

Discussion

9:00 a.m. - 5:30 p.m.

TRAINING RESPONSIBILITIES OF LEVEL III INSPECTION ENGINEERS FOR NUCLEAR REACTORS AND CONTAINMENTS

sponsored by ACI Committee E-601

Stanley

The ACI Code 359-74 requires that a candidate for certification must satisfactorily pass the Level III examination administered by the National Council of Engineering Examiners. The examination is one which evaluates the candidate's technical knowledge and ability. However, training, evaluation, and certification of Level I and II personnel will probably constitute more than 50% of Level III job responsibilities. The Code states that the Level III Inspection engineer must be capable of organizing and reporting results and also certifying the validity of results.

This workshop will help the participants to become better teachers and to be more effective in evaluating employee performance.

Objective of the Workshop: Each participant will

Be able to prepare training objectives;
 Be able to prepare training outlines.

Enrollment is limited so early registration is advised. Registration fee is \$40.00 for ACI Members, \$60.00 for nonmembers.

PROGRAM

9:00 a.m. - 9:15 a.m.

Introductions and announcements

9:15 a.m. - 10:30 a.m.

Preparing for the NCEE Exam

Code responsibilities, exam format, typical questions, references; to prepare yourself

10:45 a.m. - 12:00 noon

Preparing Your Training Objectives

Determining instructional objectives; how to determine if objectives are achieved; testing

12:00 noon - 1:00 p.m.

Lunch

1:00 p.m. - 2:00 p.m.

Analyzing the Inspection Functions

Making job analyses and job descriptions

2:00 p.m. - 2:45 p.m.

Translating Job Descriptions into Job Training

Determining content; references; organization; visual aids; onthe-job training

3:00 p.m. - 4:00 p.m.

Evaluating Your Training Effectiveness

Communication; audience interest; self-evaluation techniques

4:00 p.m. - 5:00 p.m.

Preparing Training Outlines

Small groups are to work in preparing a training course outline and organizing course content

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

Reporting, Reviewing, Evaluating

Have we accomplished our objectives? What remains to be done?
What should we have done that we didn't do?

5:30 p.m. Adjournment

Wednesday

November 5 9:00 a.m. - 12:00 noon ·

PORTLAND CEMENT PLASTERING PROBLEMS AND BENEFITS

sponsored by ACI Committee 524

Stanley/Park

Session Chairman: Clay M. Johnston, chairman, ACI Committee

524, and managing director, California Lathing and Plastering Contractors Association, Los

Angeles, California

Introduction

Clay M. Johnston, chairman, ACI Committee 524

Metal and Wood Framing and Lathing

Gene Erwin, director, Southeast Lathing and Plastering Bureau, Atlanta, Georgia

Bonding Agents and Special Coatings

Daniel J. Goeke, executive vice-president, Larsen Products Corporation, Rockville, Maryland

Mixing and Application of Base and Finish Coats

Donald E. Reysa, manager, Specialty Products Marketing, General Portland Inc., Dallas, Texas

Aggregates

Thomas Geary, specialty manager, Calaveras Cement Company, Redwood City, California

Research and Testing

A. W. Isberner, senior research engineer, Concrete Materials Research Department, Portland Cement Association, Skokie, Illinois

Contractor Functions

Joseph A. Feldner, contract manager, McNulty Brothers Company, Chicago, Illinois

Wednesday, November 5 9:00 a.m. - 12:00 noon

THE BUILDING OF THE CN TOWER

Fraser

Session Chairman: Gary Woolgar, general manager, Toronto Division, Dufferin Concrete Products, Toronto.

Ontario

Part I - Concept and Purpose of the CN Tower

Architectural Concepts and Design

Edward R. Baldwin, project architect, CN Tower Project, John Andrews International, Toronto, Ontario

Part II - Design

Structural Design

Franz Knoll, project engineer, Nicolet, Carrier, Dressel and Associates, Ltd., Montreal, Quebec

Foundation Investigation and Design

Eli Robinsky, professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario

On the Prediction of Wind Action on the CN Tower, Toronto

A. G. Davenport, professor; and N. Isyumov, manager and associate research director, Faculty of Engineering Science, University of Western Ontario, London, Ontario

Proposed Wind Load Performance Study

Peter Birkemoe, professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario

Wednesday, November 5 2:00 p.m. - 5:00 p.m.

THE BUILDING OF THE CN TOWER

Fraser

Session Chairman: Gary Woolgar, general manager, Toronto Division, Dufferin Concrete Products, Toronto.

Ontario

Part III - Construction

Overall Construction

Andre Jorden, project manager, Foundation Company of Canada, Toronto, Ontario

Prestressing the Tower

John Prosser, general manager, VSL Canada Ltd., Stoney Creek, Ontario

Material Problems and Quality Assurance

John A. Bickley, general manager, Construction Testing Services Ltd., Rexdale, Ontario; and P. K. Mukherjee, evaluation engineer, Concrete Construction Products, Ministry of Transportation and Communications, Downsview, Ontario

Wednesday, November 5 2:00 p.m. - 5:00 p.m.

RESEARCH ON PLAIN AND REINFORCED CONCRETE

(Brief and confidential unpublished reports) sponsored by ACI Committee 115

Stanley/Park

Session Chairman:

Herbert K. Cook, chairman, ACI Committee 115, and vice-president of engineering, Master

Builders, Cleveland, Ohio

Secretary:

M. A. Ward, secretary, ACI Committee 115. and professor, Department of Civil Engineering, The University of Calgary, Calgary, Alberta

The Use of Expansive (Self-Stressing) Cements in Reinforced Concrete Structures

Charles F. Scholer, associate professor; H. Gowda, graduate research instructor; and E. C. Ting, associate professor, School of Civil Engineering, Purdue University, West Lafavette, Indiana

Internally Sealed Concrete for Bridge Decks

Kenneth C. Clear, highway research engineer, Materials Division, Office of Research, Federal Highway Administration, Washington, D.C.

Solid and Hollow Rectangular Prestressed Concrete Beams Under Combined Loading

Janko Misic, senior structural engineer, W. J. Francl & Associates, Edmonton, Alberta; and Joseph Warwaruk, professor, Department of Civil Engineering, University of Alberta, Edmonton, Alberta Insulating Concrete for Shallow Foundations

Eli Robinsky, professor, and William Smith, graduate student, Department of Civil Engineering, University of Toronto, Ontario

Cooperative Research on Properties of Concrete

Paolo Bertacchi, Roberto Bellotti, and Topio Rossi, E. N. E. L., Milan, Italy; Kurt H. Gerstle and Hon-Yim Ko, University of Colorado, Boulder, Colorado; Diethelm Linse, Technical University. Munich, Germany; John B. Newman, Imperial College, London, England; Gerald Schickert, B A M, Berlin, Germany; Michael A. Taylor, University of California, Davis, California; Roger M. Zimmerman and Leonard Traina, New Mexico State University, Las Cruces, New Mexico

Damage and Repair of a Four-Story Reinforced Concrete Test Structure

R. M. Czarnecki, senior research engineer, and S. A. Freeman, structural engineer, URS/John A. Blume & Associates, Engineers, San Francisco, California

Early Strength Gain Characteristics of Concrete

H. S. Lew, structural research engineer, and Thomas W. Reichard, research physicist, Building Safety Section, Structures, Materials and Safety Division, Center for Building Technology, National Bureau of Standards, Washington, D.C.

Experimental Study of Progressive Collapse in Large-Panel Structures Norman W. Hanson, principal structural engineer, Structural Development Section, Portland Cement Association, Skokie, Illinois

Development of an Accurate, Low Cost Strain Gage for Long **Term Concrete Studies**

Norbert K. Becker, assistant manager, M. M. Dillon Ltd., Consulting Engineers, Windsor, Ontario; and Cameron MacInnis, professor, Department of Civil Engineering, University of Windsor, Windsor, Ontario

A Modified Fourier Method of Shape and Surface Texture Analysis of Concrete Aggregates

Jack E. Gillott, professor, and Eliza Czarnecka, research associate, Department of Civil Engineering, University of Calgary, Calgary, Alberta

Wednesday, November 5 4:00 p.m. - 6:00 p.m.

EFFECTIVE COMMITTEE CHAIRMANSHIP WORKSHOP

sponsored by ACI Educational Activities Committee

Mackenzie

Purpose:

To increase the productive efforts of ACI

committees

Objective: Audience:

Participants will leave with improved skills in organizing and motivating committee members ACI committee chairmen and chairmen-elect. Committee members and others may attend

as observers

PROGRAM

4:00 p.m. - 4:15 p.m. Opening the Workshop

Introductions Purpose and objectives The workshop plan

4:15 p.m. - 4:25 p.m.

Organizing a Committee for Action

4:25 p.m. - 4:35 p.m. Discussion

4:35 p.m. - 4:50 p.m.

Assigning Members to Tasks and Responsibilities

Instructor: Bertold E. Weinberg, Chairman, Committee 311, Inspec-

tion of Concrete

4:50 p.m. - 5:00 p.m.

Discussion

5:00 p.m. - 5:15 p.m.

Motivating Committee Members; Getting Them All to Work

Instructor: Lewis H. Tuthill, Past President, ACI

5:15 p.m. - 5:25 p.m.

Discussion

5:25 p.m. - 5:40 p.m.

The Mission, Objectives, and Measuring Progress

Instructor: Thomas J. Reading, Chairman, Committee 201, Dura-

bility of Concrete

5:40 p.m. - 5:50 p.m.

Discussion

5:50 p.m. - 6:00 p.m.

Evaluation and Summary

Instructor: Robert E. Philleo, Past President, ACI

Thursday

November 6 8:15 a.m. - 12:00 noon GENERAL SESSION

Ballroom

Session Chairman: Gerald W. Elkington, president, British Columbia Chapter, ACI, and principal, R. M. Hardy &

Associates, Burnaby, British Columbia

Presentation of Proposed "Recommended Practice for Design and Construction of Concrete Bins, Silos, and Bunkers for Storing Granular Materials"

Sargis S. Safarian, chairman, ACI Committee 313, and president. S M H Engineering Inc., Lakewood, Colorado

Presentation of Proposed Revision to ACI Bylaws

Bryant Mather, chief Concrete Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi

Raymond E. Davis Lecture: Down With Your Isle of Portland! Peter Smith, director, Engineering Research Development Branch, Ministry of Transportation and Communications - Ontario, Downsview, Ontario

Acknowledgment of Chapter Officers and Presentation of Chapter Charter

Resume of History of Concrete Terminal Elevators in Canada J. Murray Fleming, chairman, C. D. Howe Company Ltd., Thunder Bay, Ontario

Canadian Experience in the Use of Accelerated Strength Testing:

Use of Modified Boiling Method in Eastern Canada

V. M. Malhotra, head, Construction Materials Section, Canada Center for Minerals and Energy Technology, Ottawa, Ontario

Use of Autogenous Curing Method in Toronto Area

John A. Bickley, general manager, Construction Testing Services Ltd., Rexdale, Ontario

Use of Modified Boiling Method in Western Canada

L. E. Rodway, chief materials engineer, R. M. Hardy and Associates, Ltd., Calgary, Alberta

Thursday, November 6 2:00 p.m. - 5:00 p.m.

CONCRETE GUIDEWAYS

sponsored by ACI Committee 358

Mackenzie

Session Chairman: Arthur R. Anderson, senior vice-president, ABAM Engineers, Inc., Tacoma, Washington

An Overview of Guideway Design

C. W. Dolan, project manager, and M. W. La Nier, project engineer, ABAM Engineers Inc., Tacoma, Washington

Analytical Models for Certain Guideway Irregularities

D. A. Hullender, associate professor, University of Texas at Arlington, Arlington, Texas

Metro Toronto Zoo Domain Ride

R. D. Stevens, president, Bendix Systems of Canada Ltd., Toronto, Ontario

Behavior of Reinforced Concrete Curved Beams

T. T. C. Hsu, professor and acting chairman, Department of Civil Engineering, University of Miami, Coral Gables, Florida

Time-Dependent Behavior of

Elevated Prestressed Concrete Guideways

Th. Helgason, senior structural engineer, and H. G. Russell, manager, Structural Development, Portland Cement Association, Skokie, Illinois

Notes

Thursday, November 6 2:00 p.m. - 5:00 p.m.

AVIANCA BUILDING FIRE

Fraser

Session Chairman: Richard C. Elstner, principal, Wiss, Janney, Elstner and Associates, Northbrook, Illinois

Description of the Design and Construction of the Avianca Building in Bogota, Colombia

Domenico Parma, structural engineer, Bogota, Colombia

Presentation of Film of Fire

Eduardo A. B. Salse, senior engineer, Wiss, Janney, Elsther and Associates, Northbrook, Illinois

Use of the Dynamic Response Test in the Evaluation of Structural Damage

John F. Wiss, principal, Wiss, Janney, Elstner and Associates, Northbrook, Illinois

Investigation of the Avianca Building for Structural Damage from Fire

Richard C. Elstner, principal, Wiss, Janney, Elstner and Associates, Northbrook, Illinois

Repair of Fire Damage

Jaime Moreno, engineering sales, Material Service Corporation, Chicago, Illinois

Thursday, November 6 2:00 p.m. - 5:00 p.m.

COLD REGIONS CONCRETING SYMPOSIUM sponsored by ACI Committee 306

Stanley/Park

Session Chairman: John M. Scanlon, chairman, ACI Committee 306, and chief, Engineering Mechanics Division, Concrete Laboratory, U.S. Army Engineer Waterways Experiment Stations, Vicksburg, Mississippi

Minimum Protection and Thermal Stresses in Winter Concreting

J. Neil Mustard, supervising engineer-concrete, Ontario Hydro, Toronto, Ontario

Temperature Control for Mass Concreting in Cold Regions

Richard A. Kaden, materials specialist, Walla Walla District, U.S. Army Corps of Engineers, Walla Walla, Washington

Durability of Exposed Concrete Flatwork in Cold Regions

Lloyd Edward Rodway, chief concrete engineer, R. M. Hardy and Associates, Ltd., Calgary, Alberta

Factors Controlling Strength and Cost of Concrete Cast Near Freezing Point Temperatures

Joseph Hode Heyser and Jules Houde, professors, Ecole Polytechnique, Montreal, Quebec.

Use of Reg-Set Cement for Cold Weather Concrete Construction George C. Hoff, supervising research civil engineer, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi

Discussion of ACI Recommendations for Cold Weather Concreting Lewis H. Tuthill, concrete engineering consultant, Sacramento, California

Notes

Friday

November 7 9:00 a.m. - 12:00 noon

DESIGN AND CONSTRUCTION OF OCEANIC PLAZA OFFICE TOWER

Session Chairman: Gerald W. Elkington, principal, R. M. Hardy & Associates, Burnaby, British Columbia

Architectural Design Concepts

Charles Paine, senior partner, Paine and Ching, Vancouver, British Columbia

Structural Design

H. Roger Woodhead, project engineer, and Gordon E. Antenbring, associate in charge, McKenzie, Snowball, Skalbania and Associates, Vancouver, British Columbia

Construction Techniques

E. L. S. Skodje, building division manager, Dillingham Corporation Canada Ltd., North Vancouver, British Columbia

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

LIMIT DESIGN OF SLABS: CODE CONSIDERATIONS

sponsored by Joint ACI-ASCE Committee 421

Stanley/Park

Session Chairman: T. Z. Chastain, chairman, ACI Committee 421, and chairman of the board, Chastain and Tindel, Inc., Consulting Engineers, Tucker, Georgia

Design Concepts for Floor Slab Systems

Richard W. Furlong, professor of civil engineering; and James O. Jirsa, associate professor of civil engineering, University of Texas at Austin, Austin, Texas

Equilibrium Theory and Strip Method

Arne Hillerborg, professor, Division of Building Materials, Lund Institute of Technology, Lund, Sweden

Yield Line Method = Strip Method = Segment Equilibrium Method Frederick P. Wiesinger, professor of structural engineering, University of Illinois at Chicago Circle, and chairman of the board, Wiesinger-Holland Ltd., Chicago, Illinois

Does ACI 318-71 Allow Yield-Line Design of Slab?

Sidney H. Simmonds, professor of civil engineering, University of Alberta, Edmonton, Alberta; and Amin Ghali, professor of civil engineering, University of Calgary, Calgary, Alberta

Punching Strength Design Criteria for Flat Slabs

Hans Gesund, professor of structural engineering, University of Kentucky, Lexington, Kentucky

Shear Problems in Slabs

Neil M. Hawkins, professor of civil engineering, University of Washington, Seattle, Washington

ACI FUTURE CONVENTIONS

1976 Annual Convention Philadelphia, Pennsylvania March 28 - April 2 1976 Fall Convention Mexico City, Mexico Co-Sponsor: Instituto Mexicano del Cemento y del Concreto, A.C. October 24-29 1977 Annual Convention San Diego, California March 13-18 1977 Fall Convention New Orleans, Louisiana October 16-21 1978 Annual Convention Toronto, Ontario, Canada April 9-14 1978 Fall Convention Houston, Texas October 29 - November 3

1976 Fall Convention





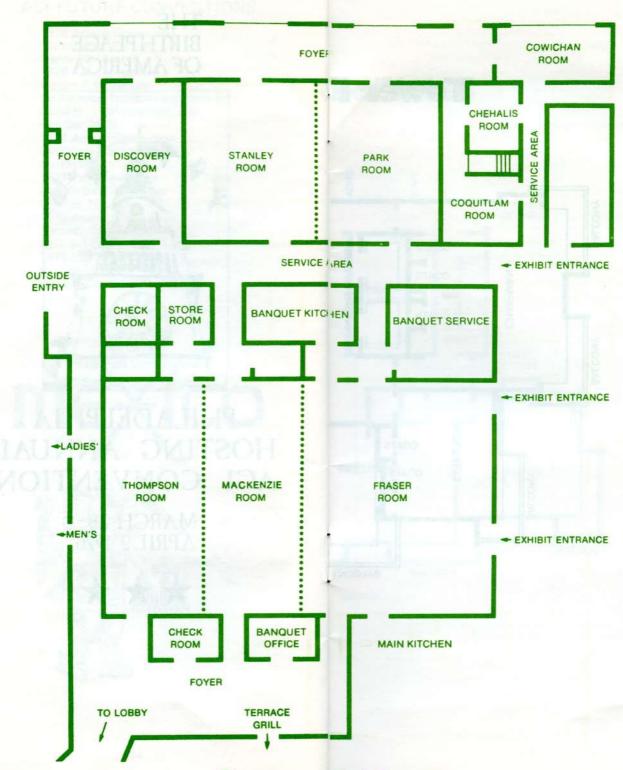
THE BIRTHPLACE OF AMERICA



PHILADELPHIA HOSTING ANNUAL ACI CONVENTION

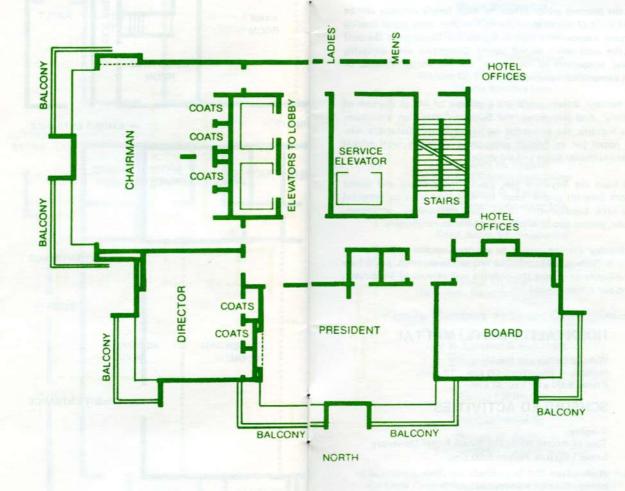
MARCH 28-APRIL 2 1976





Ground Floor

Tower Facilities



FAMILY MEMBERS' PROGRAM

Here you are in Vancouver and the answers to what to do are plenty!

In the mornings, come to the Hospitality Suite for coffee and rolls to start the day out. Afternoons are casual with some unusual sites to see and things to do. Just check at the Hospitality Suite to find out what, when and where.

Besides the planned group functions, each family member will be furnished a list of places to go during free time. How about boating on the Lost Lagoon or a visit to the unique Shakespeare Garden? There's the continent's second largest Chinatown with intriguing shops and restaurants to experience, see the Indian Totems, or enjoy an exceptional aquarium.

At the Heritage Village you'll get a glimpse of life at the turn of the century. And just across the Gulf of Georgia on Vancouver Island is Victoria, the provincial capital of British Columbia. Victoria is noted for its English atmosphere complete with cricket fields, double-decker buses and tea shops.

Minutes from the Bayshore Inn, you'll find brilliant and quaint shops with bargains galore. Look for very good buys on imported Oriental silks, bamboowork, china, furs, embroidery, ornaments, sportswear, leather goods, woollens, and Indian handicrafts.

On Wednesday evening, you'll be getting together with the conferees for a "Concrete Mixer". The rest of the evenings, you'll have the opportunity to sample the nightlife and eateries of Vancouver, following our recommended list.

Have a ball!

HOSPITALITY SUITE: MAI TAI

Wakeup Coffee and Danish

Monday — Thursday 9:00 a.m. - 12 noon Friday 9:00 a.m. - 10:30 a.m.

SCHEDULED ACTIVITIES

Tuesday

Tour of Andres Wines and Simon Fraser University Leave 1:00 p.m. Return 5:00 p.m.

Wednesday

Harbor Tour on a Sternwheeler Leave 1:30 p.m. Return 3:00 p.m.

Thursday

Chinatown Lunch and Shopping Tour Leave 10:30 a.m. Return 4:00 p.m.

Friday

Tea and Coffee Demonstration 10:30 a.m. - 11:30 a.m.

VANCOUVER CONVENTION COMMITTEE

A. J. Montador, General Chairman British Columbia Department of Highways

Wilfrid G. Heslop University of British Columbia (retired)

> Gerald W. Runolfson Master Builders Ltd.

Gerald W. Elkington R. M. Hardy & Associates

Finance Committee

Gerald W. Runolfson, Chairman Master Builders Ltd.

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Gerald W. Elkington R. M. Hardy & Associates

Robert W. Piggott Portland Cement Association

Bryant A. Zavitz
Gulf Concrete Products Ltd.

James G. Mutrie Read, Jones, Christopherson

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Elizabeth Seabrook

Beverly Piggott

Marion Elkington

Housekeeping

Bryant A. Zavitz
Gulf Concrete Products Ltd.

The officers, staff, and Members of ACI would like to thank the Local Committee, the Hostesses, the Chapter, and the Contributors for their part in the 1975 Fall Convention.

VANCOUVER CONVENTION MAN TO SCOMMENTED A CLIMA

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