

PROGRAM 1972 FALL CONVENTION

OCTOBER 30 - NOVEMBER 3 HOLLYWOOD, FLORIDA

registration

	me	ezz	an	ine	e lo	ounge
sunday, october	29			*		1:00 p.m. to 4:00 p.m.
monday, october thursday, novem	30 ber	th 2	rou	gh		8:00 a.m. to 5:30 p.m.
friday, november	3		4			8:00 a.m. to 10:00 a.m.

registration fees:

ACI Members	\$20.00
Nonmembers	\$30.00
Students	Free

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

contents

feature	page
program at a glance	 4
sunday, monday meetings	 6,7
tuesday meetings	 8,9
	 9
general session	 10
wednesday meetings	 11
symposium on formwork for concrete	 12
symposium on expansive cement concretes	
(1st session)	 13
location of meeting rooms	 14, 15
thursday meetings	 16, 17
research on plain and reinforced concrete	 18, 19
symposium on concrete floor finishes	 20
symposium on polymers in concrete	 21
symposium on expansive cement concretes	
(2nd session)	22
forum on reduction of early slump loss of	
concrete	23
new developments in construction materials	 24
puerto rico reconvention	 26, 27
ladies program	 28

special events

workshop on probabilistic code format – structural safety . . . Tuesday, 7:00 p.m. and Wednesday, 1:00 p.m. in the Embassy Room. An informal discussion will follow brief presentations on the code format. The intent is to ensure an up-to-date draft before final committee action.

"jungle queen" cruise and dinner show . . . Tuesday evening, 5:30 p.m. Buses will leave the Diplomat for the boat dock where the "Jungle Queen" will take you along the New River. You'll enjoy a vaudeville show, sing-a-long, and a Bar-b-que and Shrimp dinner. Ticket required.

"concrete mixer" social hour . . . Wednesday, 6:30 p.m. at poolside. Please wear your badge. Ticket required.

newcomers' breakfast . . . Thursday, 8:00 a.m., in the East Card Room. If this is the first or second (or even the third) ACI Convention you have attended, you are invited to a continental breakfast this morning. ACI officers and staff will be there to welcome you and answer any questions you may have about ACI. Bring your ticket.

reconvention in puerto rico . . . Those who are participating in this portion of the program will be notifed by Friday of transportation arrangements to Miami International Airport. See page 26 of this program for further details.

program breakfasts (by invitation only):

wednesday, november 1, 7:00 a.m.

breakfast for program participants in General Session; Symposium on Formwork; and Symposium on Expansive Cement Concretes. Lower Sky Room.

thursday, november 2, 7:00 a.m.

breakfast for program participants in Research on Plain and Reinforced Concrete; Symposium on Fatigue in Concrete; Symposium on Concrete Floor Finishes; Session on New Developments in Construction Materials; and Symposium on Polymer Concrete. Lower Sky Room.

thursday, november 2, 8:00 a.m.

breakfast for newcomers to ACI conventions. See note under "Special Events." East Card Room.



BOARD OF DIRECTION

President EDWARD COHEN

Vice-Presidents
ROBERT E. PHILLEO
CHESTER P. SIESS

Directors

HALVARD W. BIRKELAND
BORIS BRESLER
F. S. CLOUGH
ROGER DIAZ DE COSSIO
ELMO C. HIGGINSON
JACK R. JANNEY
MICHAEL A. LOMBARD
CHARLES J. PANKOW
FRANCIS J. PRINCIPE
JAMES E. STANNERS
JOSEPH H. WALKER
BERTOLD E. WEINBERG

Past Presidents

JOSEPH J. SHIDELER
S. D. BURKS W. J. McCOY

Executive Director

WILLIAM A. MAPLES*

* American Concrete Institute
P. O. Box 4754
Detroit, Michigan 48219

TECHNICAL ACTIVITIES COMMITTEE

(In charge of convention program and of technical publications)
JOHN F. McLAUGHLIN, Chairman
EDWARD COHEN, Ex Officio
SAMUEL J. HENRY, Secretary*
JOHN E. BREEN
T. Z. CHASTAIN
NOEL J. EVERARD
RUSSELL S. FLING
J. A. HANSON
PAUL KLIEGER
HOWARD H. NEWLON, JR.
EDWARD O. PFRANG
PETER SMITH

EDUCATIONAL ACTIVITIES COMMITTEE

(In charge of educational programs)
WILLIAM A. CORDON, Chairman
EDWARD COHEN, Ex Officio
GILBERT E. SEELEY, Secretary*
EMERY FARKAS
H. ALDRIDGE GILLESPIE
CLYDE E. KESLER
BOYD C. RINGO
DENNIS T. SMITH
GEORGE B. SOUTHWORTH

GENERAL ACTIVITIES COMMITTEE

(In charge of planning, coordination, communications, member services, and industry advancement programs) EMIL SCHMID, Chairman EDWARD COHEN, Ex Officio ROBERT E. WILDE, Secretary* ARTHUR R. ANDERSON HALVARD W. BIRKELAND S. D. BURKS F. S. CLOUGH ROGER H. CORBETTA ROGER DIAZ DE COSSIO CLYDE E. KESLER MICHAEL A. LOMBARD GEORGE H. PARIS ROBERT E. PHILLEO FRANCIS J. PRINCIPE KENNETH D. SIMMONS CHARLES W. WILSON

program

Saturday, October 28

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

Administrative committee meetings

Sunday, October 29

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

Administrative committee meetings

Monday, October 30

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

Administrative, technical, and educational committee meetings

Tuesday, October 31

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

Administrative, technical, and educational committee meetings

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

Workshop on Probabilistic Code Format - Structural Safety 5:30 p.m.

"Jungle Queen" Cruise and Dinner Show

Wednesday, November 1

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

General Session Regency North

1:00 p.m. - 4:00 p.m.

Workshop on Probabilistic Code Format - Structural Safety (continued)

2:00 p.m. - 5:00 p.m. Symposium on Formwork for Concrete Regency East (Committee 347)

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

Symposium on Expansive Cement Concretes (Committee 223) Regency North

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

Committee meetings 6:30 p.m.

"Concrete Mixer"

Pool Side

Embassy

Embassy

Thursday, November 2

8:00 a.m. - 9:00 a.m.

Newcomers' Breakfast East Card Room

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

Research on Plain and Reinforced Concrete

(Committee 115)

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

Symposium on Concrete Floor Finishes (Committee 302)

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

Committee meetings

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

Symposium on Expansive Cement Concretes (continued)

2:00 p.m. - 5:00 p.m. Symposium on Polymers in Concrete

(Committee 548)

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

Forum on Reduction of Early Slump Regency North Loss of Concrete

Friday, November 3

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

Abeles Symposium on Fatigue of Concrete (Committee 215)

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

New Developments in Construction Materials Regency East

afternoon (Reconvention Begins) Departure for San Juan, Puerto Rico

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

Pool Area Jibaro Night

Saturday, November 4

9:00 a.m. - 12:00 noon **Puerto Rico General Session**

12:00 noon - 2:00 p.m.

Luncheon

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

Construction Inspection Tour 7:00 p.m. - 8:00 p.m.

Rum Cocktail Party

Caribar Lounge

Salon Boringuen

Club Caribe

Regency North

Regency West

Regency North

Regency West

Regency West

meetings

technical and educational committee meetings

Committee short titles are in bold face. Be sure to check the bulletin board for last minute changes or added meetings.

9:00 a.m. to 12:00 noon sunday, October 29 meeting room

committee

General Activities Committee — Long Range Planning Task Group (First Meeting) Lower Sky Room

Board Committee on Membership Recruitment East Card Room

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

monday, october 30

Subcommittee I, Creep and Shrinkage in Concrete 209

Forum (State of the Art Report)

Proportioning Concrete Mixes (Review Draft on 211 Proportioning Heavy-Weight Aggregate Mixes) Cafe Crystal

Evaluation of Results of Tests Used to Determine the 214 Regency North Strength of Concrete (Revision of Standard)

Regency North Construction of Concrete Pavements and Bases 316 Upper Sky Room (Committee Report)

Lower Sky Room Subcommittee I, Standard Building Code 318

Senate Sanitary Engineering Structures (New Report) 350

High-Strength Reinforcement in Concrete

439 (TAC Review of Committee Report; Consideration

443

311

316

351

Seminar 2 of Draft of "Research Needs") Regency East Concrete Bridge Design (Committee Reports)

2:00 p.m. to 5:00 p.m.

Tolerances (Tolerance Problems and 117 Senate the "State of the Art")

Regency North Admixtures (State-of-the-Art Report) 212

Inspection of Concrete (New Edition of ACI Seminar 2 Inspection Manual)

Construction of Concrete Pavements and Bases Upper Sky Room (Committee Report)

Room 2 (Bibliography and Questionnaire) Bond Stress (Committee Reports in Progress) Forum 408

Foundations for Equipment and Machinery

Shear and Diagonal Tension (Committee Report; 426 Regency North Reorganization of Subcommittees)

Room 1

Lightweight Concrete Masonry 532 Repair of Concrete (Review of Draft for Guide 546

Regency East for Repair of Concrete Bridge Decks)

7:00 p.m. to 10:00 p.m.

commi	ttee	meeting room
207	Mass Concrete (Committee Report, New Concepts for Concrete Dam Construction)	West Card Room
209	Subcommittee II, Creep and Shrinkage in Conce (State of the Art Report)	Room 1
213	Lightweight Aggregate and Lightweight Aggre Concrete (Revision of ACI 213 Guide) M	gate ezzanine Theatre
305	Hot Weather Concreting (State of the Art Report on Precooling of Concrete)	Embassy
309	Consolidation of Concrete (Discussion of Research; Future of Committee)	East Card Room
318	Subcommittee D, Standard Building Code (Chapters 7 and 12)	Forum
345	Concrete Bridge Decks (Recommended Practic for Construction of Concrete Bridge Decks)	se Senate
348	Structural Safety	Seminar 2
428	Limit Design (State of the Art Report; Current Research)	Upper Sky Room
512	Precast Structural Concrete (Draft of Recommended Practice)	Regency North
E-601	Seminars and Workshops (1973 Seminar Prog	ram) Consul
•		
_		
100000		

7

	ittee meeting room	
4	Research and Development (Encouragement of	
20	Research and Development; Future Forums) Room 2	
22	Corrosion of Metals in Concrete (Paper Session to be held in Atlantic City) Regency North	
23	(Paper Session to be held in Atlantic City) Regency North Expansive Cement Concretes	
25	(Draft, Recommended Practice) Mezzanine Theatre	
03	Architectural Concrete (Discussion of Draft Guide) Senate	
04	Measuring, Mixing, Transporting, and Placing	
	Concrete (Future Committee Work; Presentation	
	of Proposed Standard at General Session) Lower Sky Room	
18	Subcommittee F, Standard Building Code Seminar 2	
18	Subcommittee K, Standard Building Code Upper Sky Room	
47	Formwork for Concrete (Symposium for Formwork	
- 1	for Concrete; Modification to Formwork Manual) Forum	
54	Design Practice (Discussion of Draft of "Building Design Process") West Card Room	
41	"Building Design Process") West Card Room Reinforced Concrete Columns	
41	(Subcommittee Reports) Regency East	
06	Shotcreting (Review of Proposed "Specification	
00	for Shotcreting (Review of Proposed Specification) Regency North	
17	Accelerated Curing of Concrete at Atmospheric	
120200	Pressure (Draft of Subcommittee Chapters) Room 1	
	200 200 NO 100 N	
121127	1:00 p.m. to 4:00 p.m.	
22	Design of Structural Plain Concrete	
	(Application of Structural Plain Concrete) Upper Sky Room	
	2:00 p.m. to 5:00 p.m.	
	5.05 5.7 5.05 Philippin 19.05 Philippin (19.05 Philippin 19.05	
23	Expansive Cement Concretes (Draft, Recommended Practice) Mezzanine Theatre	
24		
01	Cracking Seminar 2 Specifications for Structural Concrete	
01	(Conversion of Specification to CSI Format) Regency North	
03	Architectural Concrete (Discussion of Draft Guide) Senate	
15	Detailed Reinforced Concrete Structures (Draft	
COLUMN TO	Report; Reviewing Next Phase) Lower Sky Room	
18	Subcommittee G, Standard Building Code Room 2	
47	Formwork for Concrete (Symposium for Formwork for	
	Concrete; Modification to Formwork Manual) Forum	
06	Shotcreting (Review of Proposed "Specification	
	for Shotcreting" Regency North	
46	Repair of Concrete (Review of Draft for Guide for Repair of Concrete Bridge Decks) Regency East	
	7:00 p.m. to 10:00 p.m.	
	WORKSHOP ON PROBABILISTIC DESIGN	
25,25	(Committee 348) See below. Embassy	
16	Nomenclature (Plans for New Glossary) Upper Sky Room	
01	Durability of Concrete (Committee report) West Card Room	
09	Subcommittee III, Creep and Shrinkage in	
	Concrete (State of the Art Report) Courier	
13	Lightweight Aggregate and Lightweight Aggregate	
10	Concrete (Revision of ACI 213 Guide) Mezzanine Theatre	
18	Subcommittee J, Standard Building Code Lower Sky Room	
18	Subcommittee L, Standard Building Code (Prestressed Concrete) Forum	
35	Deflection of Reinforced Concrete Building Structures	
55	(Subcommittee Reports) Room 1	
04	Joint Sealants (Revision and Updating	
	of 1970 Guide) Regency East	
44	Fiber Reinforced Concrete (Discussion of	
44		
44	Draft Committee Report) Room 2	
701	Draft Committee Report) Enchiridia – Materials (Review of Drafts; Past Assignment Progress; New Assignments) Regency North	

TUESDAY, OCTOBER 31, 7:00 p.m. and WEDNESDAY, NOVEMBER 1, 1:00 p.m.

workshop on probabilistic code format — structural safety

sponsored by ACI Committee 348

Session Chairman: Robert G. Sexsmith, chairman of Committee 348, and assistant professor of structural engineering, School of Civil Engineering, Cornell University, Ithaca, New ork

The workshop will discuss the proposal for a probabilistic code format, which is in draft form. Discussion is encouraged to ensure that the draft is up-to-date before final committee action.

The format will be informal, and round table discussion is the main objective. Brief presentations by members of Subcommittee E (probability) of Committee 348 will come first, followed by discussion open to all.

	 	100
·	 	

WEDNESDAY, NOVEMBER 1, 9:00 a.m.

general session

Regency North

Session Chairman: David A. King, president, South Florida Chapter of ACI, and sales representative, Sika Chemical Corporation, Miami Springs, Florida

First Raymond E. Davis Lecture

Roy W. Carlson, consulting engineer, Berkeley, California

Introduction

Raymond E. Davis, Jr., director of laboratories and research, California Portland Cement Company, Colton, California

Business Session:

Presiding Officer: Edward Cohen, president, ACI, and partner, Ammann and Whitney, Consulting Engineers, New York, New York

Revisions of ACI Bylaws

Nominating Procedures

S. D. Burks, western area manager, Construction Products Division, W. R. Grace and Company, San Leandro, California

Provision for Grade of Fellow

Clyde E. Kesler, professor of civil engineering and theoretical and applied mechanics, University of Illinois, Urbana, Illinois

Proposed Revision of ACI 614-59, "Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete"

ACI Committee 304. Presentation by Donald L. Houghton, chairman, ACI Committee 304, and civil engineer, U.S. Army Corps of Engineers, North Pacific Division, Portland, Oregon

Proposed Revision of ACI 315-65, "Manual of Standard Practice for Detailing Reinforced Concrete Structures"

ACI Committee 315. Presentation by William C. Black, chairman, ACI Committee 315, and chief engineer, Bethlehem Steel Corporation, Bethlehem, Pennsylvania

Program Session:

Construction Education

John B. Shuler, director of education, Building Contractors Association of New Jersey, Springfield, New Jersey

wednesday, november 1 1:00 p.m. to 4:00 p.m. WORKSHOP ON PROBABILISTIC DESIGN (Committee 348) (continued) See Page 9 Embassy 2:00 p.m. to 5:00 p.m. SYMPOSIUM ON EXPANSIVE CEMENT CONCRETE (Sponsored by ACI Committee 223) See Page 13 Regency North SYMPOSIUM ON FORMWORK FOR CONCRETE (Sponsored by ACI Committee 347) See Page 12 Regency East committee meeting room Lower Sky Room Board Committee on Chapter Activities 215 Fatigue of Concrete (Committee Report; Proposed Specification; Symposium) Courier Concrete Floor Finishes Seminar 2 302 Standard Building Code (Revisions 318 Mezzanine Theatre to ACI 318-71) Response of Buildings to Lateral Forces (Activities 442 of Seismic and Shearwall Subcommittees) Senate Forum 444 Models of Concrete Structures (Committee Report) Adhesives for Concrete (New Committee 503 Assignments) Delegate Masonry Structures (Specifications: 531 West Card Room Subcommittee Reports) Polymers in Concrete (Symposium; State 548 of the Art Reports) Secretariat

WEDNESDAY, NOVEMBER 1, 2:00 p.m.

symposium on formwork for concrete

Regency East

sponsored by ACI Committee 347

Session Chairman: V. F. Leabu, chairman, Committee 347, and chief structural engineer, Giffels Associates Inc., Detroit, Michigan

Lateral Pressure of Concrete on Formwork

Roy H. Olsen, partner, Olsen and Lawson, Inc., Dover, New Jersey

Concrete Formwork Failures

Jacob Feld, partner, Feld, Kaminetzky and Cohen, New York, New York

Form Hardware Selection and Location

Peter D. Courtois, vice-president – corporate development, Superior Concrete Accessories, Inc., Des Plaines, Illinois

New Form Design Aids Based on New Lumber Sizes

M. K. Hurd, technical coordinator, American Concrete Institute, Detroit, Michigan

Philosophy of Formwork in Civil Engineering

Kenneth G. Jessop, managing director, Stelmo Ltd., Westwell Leacon, Charing, Ashford, Kent, United Kingdom

WEDNESDAY, NOVEMBER 1, 2:00 p.m.

symposium on expansive cement concretes (first session)

Regency North

sponsored by ACI Committee 223

Session Chairman: C. Taylor Test, symposium chairman, Committee 223, and manager, technical services, Southwestern Portland Cement Company, Los Angeles, California

Eulogy to Alexander Klein

Milos Polivka, professor, Department of Civil Engineering, University of California, Berkeley, California

Use of Expansive Components for Concrete in Japan

Masatane Kokubu, professor, Department of Civil Engineering, University of Tokyo, Tokyo, Japan

Use of Expansive Cements in Large Sections of Grout, Mortar, and Concrete

George C. Hoff, chief, Materials Properties Section, Concrete Laboratory, U. S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi

Structural Design for Shrinkage-Compensating Cements

Henry G. Russell, structural engineer, Structural Development Section, Portland Cement Association, Skokie, Illinois

Studies on Continuously Reinforced Concrete and Prestressed Concrete Pavements Made with Expansive Cement Concrete

S. Nagataki, associate professor, Department of Civil Engineering, Tokyo Institute of Technology, Tokyo, Japan; and K. Yoneyama, associate professor, Department of Civil Engineering, University of Niigata, Nagaoka, Japan

Expansive Cement Concrete Paving — Taxiways, Love Field

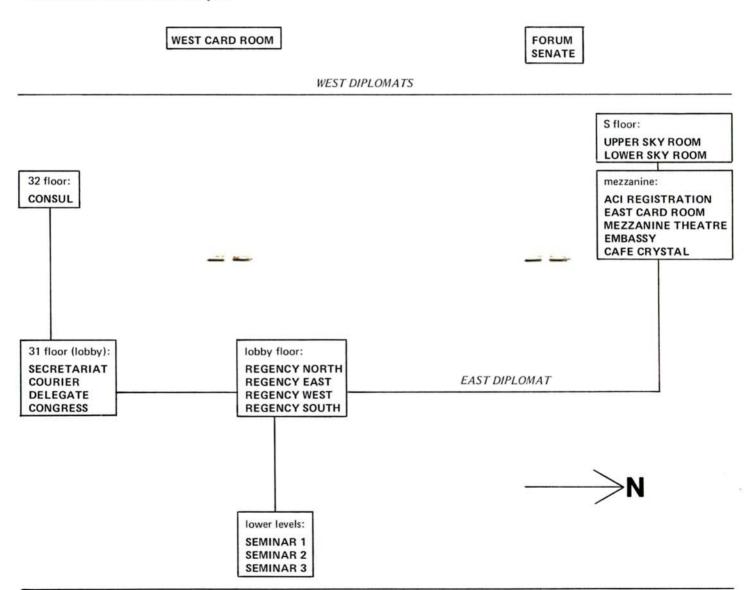
James W. Pinkerton, project manager and project engineer for Dallas/ Fort Worth Regional Airport, Forrest and Cotton, Inc., Dallas, Texas

Hydration Characteristics and Properties of Shrinkage-Compensating

George Lesnikoff, research chemist, Kaiser Cement and Gypsum Corporation, Permanente, California; and P. K. Mehta, associate professor of engineering science, Civil Engineering Department, University of California, Berkeley, California

LOCATIONS OF MEETING ROOMS

This is an approximate schematic for purposes of orientation only and should not be considered a floor plan.



thu	rsday, november 2 9:00 a.m. t			
comn	RESEARCH ON PLAIN AND REINFORCED	meeting room		FOR
	(Sponsored by ACI Committee 115) See Page 18	Regency North		OF (Spe
	SYMPOSIUM ON CONCRETE FLOOR FINIS			mittee
	(Sponsored by ACI Committee 302) See Page 20	Regency West	318	
318	Standard Building Code (Revisions		240	
336	to ACI 318-71) Combined Footings and Pier Foundations (Specifications for Pier Construction)	Mezzanine Theatre		(Re
421	Design of Reinforced Concrete Slabs (Reorganization and Subcommittee Assignm	Seminar 2 nents) Consul	355	And to
423	Prestressed Concrete (Post-Tensioned Slabs; Redistribution of Moments in Post-Tensione		356	Ind Rep
	Structures)	Embassy	. 515	
438	Torsion (Design Recommendations; Current Research)	Upper Sky Room		Sub
531	Masonry Structures (Specifications; Subcommittee Reports)	West Card Room	516	Hig Spe
533	Precast Concrete Wall Panels (Final Draft of Recommended Practice)	Seminar 1	533	7.0
E-601	Seminars and Workshops (1973 Seminar Pr	ogram) Senate		
		to 5:00 p.m.	E-70	02 Enc Edu
	SYMPOSIUM ON EXPANSIVE CEMENT CO (Sponsored by ACI Committee 223) (continued See Page 22)		E-70	04 Enc
	SYMPOSIUM ON POLYMERS IN CONCRET (Sponsored by ACI Committee 548)	E		
120	See Page 21 History of Concrete (Proposed Activities)	Regency West		
318	Standard Building Code (Revisions	Seminar 3 Mezzanine Theatre		
325	Structural Design of Concrete Pavements fo			
	Highways and Airports (Review of Progress on "Design of Pavements")	Seminar 2	-	
340	Ultimate Strength Design Handbook	•	· ·	
356	(Revision of Handbook) Industrialized Concrete Construction (Subcon	Senate	1	
	Reports; Plan for Convention Symposium)	Secretariat		
423	Prestressed Concrete (Post-Tensioned Slabs; Redistribution of Moments in Post-Tensioned		χ.	
438	Structures) Torsion (Design Recommendations; Current Research)	Embassy	-	
515	Coatings for Concrete (Drafts of Subcommittee Reports)	Lower Sky Room West Card Room		
516	High Pressure Steam Curing (Silica Flour Specifications; Committee Mission)	Forum	-	
523	Insulating and Cellular Concretes (Draft of			
	for Cellular Concretes above 50 pcf and Agg Concretes above 50 pcf with Compressive Str	gregate engths	-	
533	Less than 2500 psi) Precast Concrete Wall Panels (Final Draft	Consul	7	
	of Recommended Practice) Enchiridia – Building Code (Progress of	Seminar 1	-	
-704	Drafts of Enchiridia)	Upper Sky Room	-	

7:00 p.m. to 10:00 p.m.

RUM ON RESEARCH NEEDED ON REDUCTION EARLY SLUMP LOSS OF CONCRETE ponsored by Committee 114) See Page 23 Regency North meeting room andard Building Code (Revisions ACI 318-71) Mezzanine Theatre timate Strength Design Handbook evision of Handbook) Senate chorage to Concrete (Results of Questionnaire Industry) Embassy dustrialized Concrete Construction (Subcommittee eports; Plan for Convention Symposium) Secretariat atings for Concrete (Drafts of bcommittee Reports) West Card Room gh Pressure Steam Curing (Silica Flour ecifications; Committee Mission) Forum ecast Concrete Wall Panels (Final Draft of ecommended Practice) Seminar 1 chiridia - Design (Preparation of ucational Materials) Seminar 3 chiridia - Building Code (Progress of Drafts Enchiridia) Upper Sky Room

THURSDAY, NOVEMBER 2, 9:00 a.m.

research in progress on plain and reinforced concrete

(Brief and confidential unpublished reports)

Regency North

sponsored by ACI Committee 115

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

Secretary: Herbert K. Cook, secretary, Committee 115, and vice-president of engineering, Master Builders, Cleveland, Ohio

Shrinkage and Creep of Concretes Containing Lignin-Based Admixtures

Michael A. Ward, professor of civil engineering, University of Calgary, Calgary, Alberta, Canada; and C. T. Tam, professor, Department of Engineering, University of Malaya, Kuala Lumpur, Malaysia

Four by Eight-Inch Concrete Cylinders, Are These a Feasible Alternative for Quality Control?

V. M. Malhotra, materials engineer, Construction Materials Section, Mineral Processing Division, Mines Branch, Department of Energy, Mines and Resources, Ottawa, Ontario, Canada

A Treated Aggregate Approach to the Shrinkage of Lightweight Concrete

William M. Waddington, engineer, Wiss, Janney, Elstner and Associates, Inc., Northbrook, Illinois

Polymer-Modified Concrete for Bridge Decks

Einar Dahl-Jorgensen, civil engineer; and W. F. Chen, associate professor, Department of Civil Engineering, Lehigh University, Bethlehem, Pennsylvania

Thermoviscoelasticity of Aging Concrete

Zdenek P. Bazant, associate professor; and Spencer T. Wu, graduate research assistant, Department of Civil Engineering, Northwestern University, Evanston, Illinois

Repeated Load Tests of Composite Prestressed-Cast in Place Concrete Panels for Bridge Decks

Howard L. Furr, professor of civil engineering, Civil Engineering Department; and Leonard L. Ingram, assistant research engineer, Texas Transportation Institute, Texas A&M University, College Station, Texas

Buckling of Rectangular Concrete Panels

Stuart E. Swartz, associate professor of civil engineering; and V. H. Rosebraugh, associate professor, Kansas State University, Manhattan, Kansas

An Investigation of the Effects of Several Lightweight Aggregates on Bond Behavior for Reinforced Concrete

W. J. Wilhelm, associate chairman; and E. L. Kemp, chairman, Department of Civil Engineering, West Virginia University, Morgantown, West Virginia

Shear Capacity of Cast-in-Place Beam-Column Joints

ing University of Migmi Corol Gobles Florida

S. M. Uzumeri, associate professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada

Thomas T. C. Hsu, associate professor, Department of Civil Engineer-

Design of Spandrel Beams in Frames

THURSDAY, NOVEMBER 2, 9:00 a.m. symposium on concrete floor finishes

Regency West

sponsored by ACI Committee 302

Session Chairman: William H. Kuenning, chairman, Committee 302, and editor, Concrete Construction Publications, Inc., Elmhurst, Illinois

Causes of Floor Failures

A. T. Hersey, district manager, E. L. Conwell & Company, Allentown, Pennsylvania

Concrete Floor and Slab Specifications as They Relate to Performance

L. Blake Fentress, manager, Technical Department, Lone Star Industries, Houston, Texas

Concrete Floor Finishing Practices

J. C. Yeager, consultant, Port Richey, Florida

Lightweight Aggregate Concrete Floors

John T. Guthrie, manager of engineering, Materialite Sales, Materials Service Corporation, Chicago, Illinois

Construction Considerations for Serviceable Concrete Floors

George J. Frey, consultant, Building Systems, Inc., Cleveland, Ohio

THURSDAY, NOVEMBER 2, 2:00 p.m.

symposium on polymers in concrete

Regency West

sponsored by ACI Committee 548

Session Cochairmen: James T. Dikeou, supervisory research physical scientist, U. S. Bureau of Reclamation, Denver, Colorado; and Lawrence E. Kukacka, project engineer, Brookhaven National Laboratory, Upton, New York

The Influence of Porosity and Partial Drying on the Properties of Polymer Impregnated Mortar

David G. Manning, testing engineer, Ministry of Transportation and Communications, Downsview, Ontario; and Brian B. Hope, associate professor, Department of Civil Engineering, Queen's University, Kingston, Ontario, Canada

Process Techniques for Producing Polymer-Impregnated Concrete

L. E. Kukacka, project engineer, Concrete-Polymer Program; and A. J. Romano, chemical engineer, Department of Applied Science, Brookhaven National Laboratory, Upton, New York

A Study of Partially Impregnated Polymerized Concrete Specimens

Birger Søpler, research engineer, Cement and Concrete Research Institute; Anthony E. Fiorato, postdoctoral fellow, Cement and Concrete Research Institute; and Rolf Lenschow, professor, Division of Concrete Structures, Norwegian Institute of Technology, Trondheim, Norway

Properties and Applications of Polymer Impregnated Cementitious Products

Eiichi Tazawa, research engineer, Taisei Construction Company, Tokyo, Japan; and Sadao Kobayashi, research scientist, Mitsui Toatsu Chemicals Inc., Tokyo, Japan

Properties of Polymer-Fiber-Concrete Systems

R. Narayan Swamy, senior lecturer, Department of Civil and Structural Engineering, University of Sheffield, Sheffield, England

Polymer-Impregnated Concrete Spherical Hulls for Seafloor Structures

Norman D. Albertsen, research civil engineer; and Harvey H. Haynes, senior project engineer, U. S. Naval Civil Engineering Laboratory, Port Hueneme, California

THURSDAY, NOVEMBER 2, 2:00 p.m.

symposium on expansive cement concretes (second session)

Regency North

sponsored by ACI Committee 223

Session Chairman: Robert E. Price, chairman, Committee 223, and supervisor, engineering materials, Interpace Corporation, Wharton, New Jersey

Reinforced Concrete Pipe Made With Expansive Cements

William F. Perenchio, research engineer, Concrete Materials Research Department, Portland Cement Association, Skokie, Illinois; and Donald W. Pfeifer, manager, research and development, Blakeslee Prestressed Concrete Companies, Division of C. W. Blakeslee and Sons, Inc., New Haven, Connecticut

A Five-Year Study of the Dimensional Stability of Shrinkage-Compensating Lightweight Concrete Used in Post-Tensioned Slabs

William P. Liljestrom, president, Chemically Prestressed Concrete Corporation, Van Nuys, California; and Milos Polivka, professor, Department of Civil Engineering, University of California, Berkeley, California

A Testing Agency's Experience with Expansive Cements

Edward H. Rubin, chief engineer, Twining Laboratories of Southern California Inc., Long Beach, California

The Role of Shrinkage-Compensating Cement in Reduction of Cracking of Concrete

J. A. Hanson, research director; and R. C. Elstner, principal, Wiss, Janney, Elstner & Associates, Northbrook, Illinois; and Robert H. Clore, director, sales engineering, Universal Atlas Cement Division, United States Steel Corporation, Pittsburgh, Pennsylvania

Stressing Cement and Self-Stressed Concrete Construction in the USSR

V. V. Mikhailov, professor and head of laboratory, Concrete and Reinforced Concrete Institute, Moscow, USSR

THURSDAY, NOVEMBER 2, 7:00 p.m.

forum: research needed on reduction of early slump loss of concrete

Regency North

sponsored by ACI Committee 114

Session Chairman: Jerry D. Richards, civil engineer, U.S. Bureau of Reclamation, Denver, Colorado

The adverse effects of slump loss can be counteracted through design of mixtures having an excess in slump at the start either through the use of additional cement or a water-reducing admixture, but it would be beneficial to eliminate or reduce the effect of the action responsible for the slump loss, per se. The retarding admixtures currently in use generally have not been found useful in this respect; certain admixture-cement combinations even produce slump

The rheology of freshly mixed cement pastes has received a good deal of study. The proposed research would be directed to minimizing slump loss potential through modification of cement properties, development of new admixtures, identification of suitable cement-admixture combinations (by measurable characteristics rather than by brand), or any other effective procedure.

Those interested in either sponsoring or conducting research on this subject should attend.

FRIDAY, NOVEMBER 3, 9:00 a.m.

new developments in construction materials

Regency East

Session Chairman: Robert J. Witenhafer, director, South Florida Chapter of ACI, and manager, quality control, MPS Industries, Inc., Miami, Florida

Lightweight Castable Materials for Housing Modules

Stephen J. Waling, engineer, Construction Materials Research, Dow Chemical Company, Midland, Michigan

Low Density Plastic Aggregate Concrete

Vincent Sussman, director of research, Acme Chemicals Division, Allied Products Corporation, New Haven, Connecticut

Application of Steel Fibrous Concrete

A. J. Walker, concrete technologist; and D. R. Lankard, project leader, Construction Materials Section, Ceramic Research Division, Battelle, Columbus, Ohio

Some Practical Applications of Steel Fiber-Reinforced Concrete

R. Narayan Swamy, senior lecturer, Department of Civil and Structural Engineering, University of Sheffield, Sheffield, England; and B. Kent, project manager, Wirand Concrete, Johnson and Nephew Ltd., Wakefield, England

T. D. Robson, director, The Lafarge Organization, Ltd., Windsor,

Calcium Aluminate Cement Concrete for Structural Purposes

, England; France	and	R. Rabot,	director of	laboratories,	Ciments	Lafarge,

FRIDAY, NOVEMBER 3, 9:00 a.m.

abeles symposium on fatigue in concrete

Regency West

sponsored by ACI Committee 215

Session Chairman: John D. Antrim, symposium chairman of Committee 215, and professor of engineering, Department of Civil Engineering, Pennsylvania State University, Middletown, Pennsylvania

Dedication of Symposium to Paul W. Abeles

John M. Hanson, chairman, Committee 215, and assistant manager, Structural Development Section, Research and Development Division, Portland Cement Association, Skokie, Illinois

PART I

Introduction to Committee 215's Report, "Guide for Design of Concrete Structures Subjected to Fatigue Loading:"

Fatigue and Fracture of Plain Concrete

S. P. Shah, associate professor, Department of Materials Engineering, University of Illinois at Chicago Circle, Chicago, Illinois

Fatigue Strength of Reinforcing Steel

John M. Hanson, assistant manager, Structural Development Section, Research and Development Division, Portland Cement Association, Skokie, Illinois

Fatigue Characteristics of Prestressing Steels and Anchorages

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

PART II

Recent Experimental Investigations:

Effect of Surface Characteristics on Fatigue Strength of Reinforcing Steel

I. C. Jhamb, graduate student; and J. G. MacGregor, professor of civil engineering, Department of Civil Engineering, University of Alberta, Edmonton, Alberta, Canada

Fatigue Resistance of Prestressed Concrete Beams Subjected to Different Stress Ranges and Miner's Rule

Earl I. Brown II, professor of civil engineering, Department of Civil Engineering, Duke University, Durham, North Carolina; Paul W. Abeles, consulting engineer, London, England; and C. H. Hu, highway engineer, Delaware Department of Highways and Transportation, Dover, Delaware

ACI RECONVENTION

November 3-5, 1972

CARIBE HILTON

San Juan, Puerto Rico

On behalf of ACI, we wish to thank the members and the officers of the ACI PUERTO RICO CHAPTER for planning, arranging and conducting this reconvention. Participation by over 100 people in this program speaks well of their endeavor.

THE PUERTO RICO CHAPTER, ACI

President

MAX FIGUEROA DOMINGUEZ
Max Figueroa Dominguez & Associates

Vice-President

JOHN McMAHON
McMahon Prestress Concrete Inc.

Secretary-Treasurer

FELIPE LOPEZ Hato Rey, Puerto Rico

Directors

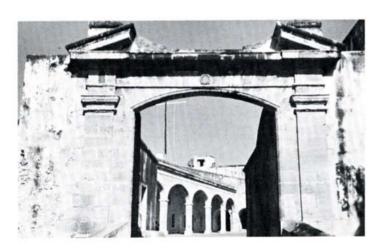
GREGORIO HERNÁNDEZ University of Puerto Rico, School of Engineering

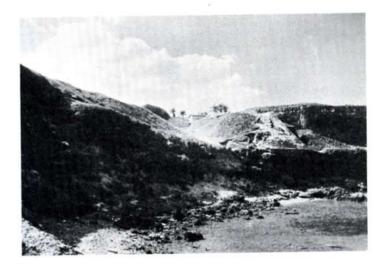
> AUREO GARCIA Ready Mix Concrete, Inc.

IGNACIO MARTIN
Capacete-Martin & Associates

JORGE A. JUNCOS San Juan, Puerto Rico

SAMUEL DIAZ Puerto Rico Planning Board





SATURDAY, NOVEMBER 4, 9:00 a.m.

reconvention

puerto rico general session

Salon Boringuen

sponsored by ACI Puerto Rico Chapter

Panel Discussion: Hot-Weather Concreting

Herbert K. Cook, chairman, ACI Committee 305, and vice-president—engineering, Master Builders, Cleveland, Ohio; Aureo Garcia, general manager, Ready-Mix Concrete, Carolina, Puerto Rico; and Ignacio Martín, partner, Capacete-Martin and Associates, Santurce, Puerto Rico

Problems of Concrete Pumping

Don Taylor, product manager, concrete pumps, Jaeger Machine Company, Columbus, Ohio

Systems Building in Puerto Rico

Gregorio Hernández, professor, School of Engineering, University of Puerto Rico, San Juan, Puerto Rico

2:00 p.m.

puerto rico construction tour

sponsored by ACI Puerto Rico Chapter

The RELBAC Manufacturing Plant

a modular high rise concrete system used in Puerto Rico

The Judicial Center Building

a unique high rise building with an unusual exposed concrete finish

The New El Comandante Race Track Project still under construction

AUXILIARY PROGRAM

events in brief

ladies hospitality suite: East Card Room

MONDAY

9:00 a.m. to 5:00 p.m. Coffee and Danish (ladies hospitality suite) Ladies registration

TUESDAY

9:00 a.m. to 5:00 p.m. Coffee and Danish (ladies hospitality suite) Ladies registration

12:00 noon "Fashion in Wigs" Luncheon with Vincent Douglas. Door prize. Ticket required.

5:30 p.m. "Jungle Queen" Cruise and Dinner Show departure. Tickets required.

WEDNESDAY

9:00 a.m. to 5:00 p.m. Coffee and Danish (ladies hospitality suite) Ladies registration

11:00 a.m. to 11:30 a.m. Departure for "Vizcaya" tour of historic Florida mansion and estate. Ticket required.

6:30 p.m. "Concrete Mixer" Social hour at poolside. Ticket required.

THURSDAY

8:00 a.m. to 9:00 a.m. Newcomers' Breakfast. Meet the Staff and Officers of ACI. Bring your ticket.

9:00 a.m. to 5:00 p.m. Coffee and Danish (ladies hospitality suite)

All tickets may be procured at the ACI registration desk.

SOUTH FLORIDA CONVENTION COMMITTEE

General Chairman John W. Harllee

Vice President Pittsburgh Testing Laboratory

Steering Committee

David A. King Sales Representative Sika Chemical Corporation

R. J. Witenhafer, P. E. Manager, Quality Control MPS Industries, Inc.

Gil Runyan, P. E. Chief Engineer Houdaille-Duval-Wright Division Houdaille Industries, Inc.

The officers, staff, and members of ACI would like to thank the Local Committee, the Hostesses, and the South Florida Chapter of ACI for their part in the 1972 Fall Convention.



