1972
ACI
SOUTH FLORIDA
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 notified 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.
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KENNETH D. SIMMONS
CHARLES W. WILSON
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
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 (Committee 347)
2:00 p.m. - 5:00 p.m.
Symposium on Expansive Cement Concretes (Committee 223)
2:00 p.m. - 5:00 p.m.
Committee meetings
6:30 p.m.
"Concrete Mixer"

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)  
Regency North
9:00 a.m. - 12:00 noon  
Symposium on Concrete Floor Finishes  
(Committee 302)  
Regency West
9:00 a.m. - 10:00 p.m.  
Committee meetings  
Regency North
2:00 p.m. - 5:00 p.m.  
Symposium on Expansive Cement Concretes (continued)  
Regency North
2:00 p.m. - 5:00 p.m.  
Symposium on Polymers in Concrete  
(Committee 548)  
Regency West
7:00 p.m. - 10:00 p.m.  
Forum on Reduction of Early Slump Loss of Concrete  
Regency North

Friday, November 3
9:00 a.m. - 12:00 noon  
Abeles Symposium on Fatigue of Concrete  
(Committee 215)  
Regency West
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.  
Jibaro Night  
Pool Area

Saturday, November 4
9:00 a.m. - 12:00 noon  
Puerto Rico General Session  
Salon Borinquen
12:00 noon - 2:00 p.m.  
Luncheon  
Club Caribe
2:00 p.m. - 6:00 p.m.  
Construction Inspection Tour  
Caribar Lounge
7:00 p.m. - 8:00 p.m.  
Rum Cocktail Party
**meetings**

Technical and Educational Committee Meetings

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

**Sunday, October 29  9:00 a.m. to 12:00 noon**

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
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</thead>
<tbody>
<tr>
<td>General Activities Committee — Long Range Planning Task Group (First Meeting)</td>
<td>Lower Sky Room</td>
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<tr>
<td>Board Committee on Membership Recruitment</td>
<td>East Card Room</td>
</tr>
</tbody>
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**Monday, October 30  9:00 a.m. to 12:00 noon**

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
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</thead>
<tbody>
<tr>
<td>Subcommittee II, Creep and Shrinkage in Concrete (State of the Art Report)</td>
<td>Forum</td>
</tr>
<tr>
<td>Proportioning Concrete Mixes (Review Draft on Proportioning Heavy-Weight Aggregate Mixes)</td>
<td>Cafe Crystal</td>
</tr>
<tr>
<td>Evaluation of Results of Tests Used to Determine the Strength of Concrete (Revision of Standard)</td>
<td>Regency North</td>
</tr>
<tr>
<td>Construction of Concrete Pavements and Bases (Committee Report)</td>
<td>Regency North</td>
</tr>
<tr>
<td>Subcommittee I, Standard Building Code</td>
<td>Upper Sky Room</td>
</tr>
<tr>
<td>Sanitary Engineering Structures (New Report)</td>
<td>Senate</td>
</tr>
<tr>
<td>High-Strength Reinforcement in Concrete (TAC Review of Committee Report; Consideration of Draft of &quot;Research Needs&quot;)</td>
<td>Seminar 2</td>
</tr>
<tr>
<td>Concrete Bridge Design (Committee Reports)</td>
<td>Regency East</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
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</thead>
<tbody>
<tr>
<td>Tolerances (Tolerance Problems and the &quot;State of the Art&quot;)</td>
<td>Senate</td>
</tr>
<tr>
<td>Admixtures (State-of-the-Art Report)</td>
<td>Regency North</td>
</tr>
<tr>
<td>Inspection of Concrete (New Edition of ACI Inspection Manual)</td>
<td>Seminar 2</td>
</tr>
<tr>
<td>Construction of Concrete Pavements and Bases (Committee Report)</td>
<td>Upper Sky Room</td>
</tr>
<tr>
<td>Foundations for Equipment and Machinery (Bibliography and Questionnaire)</td>
<td>Room 2</td>
</tr>
<tr>
<td>Bond Stress (Committee Reports in Progress)</td>
<td>Forum</td>
</tr>
<tr>
<td>Shear and Diagonal Tension (Committee Report; Reorganization of Subcommittees)</td>
<td>Regency North</td>
</tr>
<tr>
<td>Lightweight Concrete Masonry</td>
<td>Room 1</td>
</tr>
<tr>
<td>Repair of Concrete (Review of Draft for Guide for Repair of Concrete Bridge Decks)</td>
<td>Regency East</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Committee</th>
<th>Meeting Room</th>
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</thead>
<tbody>
<tr>
<td>Mass Concrete (Committee Report, New Concepts for Concrete Dam Construction)</td>
<td>West Card Room</td>
</tr>
<tr>
<td>Subcommittee II, Creep and Shrinkage in Concrete (State of the Art Report)</td>
<td>Room 1</td>
</tr>
<tr>
<td>Lightweight Aggregate and Lightweight Aggregate Concrete (Revision of ACI 213 Guide)</td>
<td>Mezzanine Theatre</td>
</tr>
<tr>
<td>Hot Weather Concreting (State of the Art Report on Precooling of Concrete)</td>
<td>Embassy</td>
</tr>
<tr>
<td>Consolidation of Concrete (Discussion of Research; Future of Committee)</td>
<td>East Card Room</td>
</tr>
<tr>
<td>Subcommittee D, Standard Building Code (Chapters 7 and 12)</td>
<td>Forum</td>
</tr>
<tr>
<td>Concrete Bridge Decks (Recommended Practice for Construction of Concrete Bridge Decks)</td>
<td>Senate</td>
</tr>
<tr>
<td>Structural Safety</td>
<td>Seminar 2</td>
</tr>
<tr>
<td>Limit Design (State of the Art Report; Current Research)</td>
<td>Upper Sky Room</td>
</tr>
<tr>
<td>Precast Structural Concrete (Draft of Recommended Practice)</td>
<td>Regency North</td>
</tr>
<tr>
<td>E-601 Seminars and Workshops (1973 Seminar Program)</td>
<td>Consul</td>
</tr>
</tbody>
</table>
Tuesday, October 31, 9:00 a.m. to 12:00 noon
Committee: Meeting Room
114 Research and Development (Encouragement of Research and Development; Future Forums) Room 2
222 Corrosion of Metals in Concrete (Paper Session to be held in Atlantic City) Regency North
223 Expansive Cement Concretes (Draft, Recommended Practice) Mezzanine Theatre
303 Architectural Concrete (Discussion of Draft Guide) Senate
304 Measuring, Mixing, Transporting, and Placing Concrete (Future Committee Work; Presentation of Proposed Standard at General Session) Lower Sky Room
318 Subcommittee F, Standard Building Code Seminar 2
318 Subcommittee K, Standard Building Code Seminar 2
347 Formwork for Concrete (Symposium for Formwork for Concrete; Modification to Formwork Manual) Forum
354 Design Practice (Discussion of Draft of "Building Design Process") West Card Room
441 Reinforced Concrete Columns (Subcommittee Reports) Regency East
506 Shotcrete (Review of Proposed "Specification for Shotcrete") Regency North
517 Accelerated Curing of Concrete at Atmospheric Pressure (Draft of Subcommittee Chapters) Room 1

1:00 p.m. to 4:00 p.m.
322 Design of Structural Plain Concrete (Application of Structural Plain Concrete) Upper Sky Room

2:00 p.m. to 5:00 p.m.
223 Expansive Cement Concretes (Draft, Recommended Practice) Mezzanine Theatre
224 Cracking Seminar 2
301 Specifications for Structural Concrete (Conversion of Specification to CSI Format) Regency North
303 Architectural Concrete (Discussion of Draft Guide) Senate
315 Detailed Reinforced Concrete Structures (Draft Report; Reviewing Next Phase) Lower Sky Room
318 Subcommittee G, Standard Building Code Room 2
347 Formwork for Concrete (Symposium for Formwork for Concrete; Modification to Formwork Manual) Forum
506 Shotcrete (Review of Proposed "Specification for Shotcrete") Regency North
546 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 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 York

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.

9
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. Kessler, 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

Board Committee on Chapter Activities
Lower Sky Room

215 Fatigue of Concrete (Committee Report; Proposed Specification; Symposium)
Courier

302 Concrete Floor Finishes
Seminar 2

318 Standard Building Code (Revisions to ACI 318-71)
Mezzanine Theatre

442 Response of Buildings to Lateral Forces (Activities of Seismic and Shearwall Subcommittees)
Senate

444 Models of Concrete Structures (Committee Report)
Forum

503 Adhesives for Concrete (New Committee Assignments)
Delegate

531 Masonry Structures (Specifications; Subcommittee Reports)
West Card Room

548 Polymers in Concrete (Symposium; State 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, West Point 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
Masatone 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, Niigata, 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 Cements
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.

WEST CARD ROOM

FORUM SENATE

WEST DIPLOMATS

S floor:
UPPER SKY ROOM
LOWER SKY ROOM

mezzanine:
ACI REGISTRATION
EAST CARD ROOM
MEZZANINE THEATRE
EMBASSY
CAFE CRYSTAL

32 floor:
CONSUL

31 floor (lobby):
SECRETARIAT
COURIER
DELEGATE
CONGRESS

lobby floor:
REGENCY NORTH
REGENCY EAST
REGENCY WEST
REGENCY SOUTH

lower levels:
SEMINAR 1
SEMINAR 2
SEMINAR 3

EAST DIPLOMAT

N
Thursday, November 2  9:00 a.m. to 12:00 noon

Committee Meeting Room

Reasearch on Plain and Reinforced Concrete
(Sponsored by ACI Committee 115)
See Page 18  Regency North

Symposium on Concrete Floor Finishes
(Sponsored by ACI Committee 302)
See Page 20  Regency West

318  Standard Building Code (Revisions to ACI 318-71)
    Mezzanine Theatre

336  Combined Footings and Pier Foundations
    Specifications for Pier Construction
    Seminar 2

421  Design of Reinforced Concrete Slabs
    Reorganization and Subcommittee Assignments
    Consul

423  Prestressed Concrete Post-Tensioned Slabs;
    Redistribution of Moments in Post-Tensioned
    Structures
    Embassy

438  Torsion (Design Recommendations; Current
    Research)
    Upper Sky Room

531  Masonry Structures
    Specifications; Subcommittee Reports
    West Card Room

533  Precast Concrete Wall Panels (Final Draft
    of Recommended Practice)
    Seminar 1

E-601  Seminars and Workshops (1973 Seminar Program)
      Senate

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

Symposium on Expansive Cement Concretes
(Sponsored by ACI Committee 223) (continued)
See Page 22  Regency North

Symposium on Polymers in Concrete
(Sponsored by ACI Committee 548)
See Page 21  Regency West

120  History of Concrete (Proposed Activities)
    Seminar 3

318  Standard Building Code (Revisions to ACI 318-71)
    Mezzanine Theatre

325  Structural Design of Concrete Pavements for
    Highways and Airports (Review of Progress
    on "Design of Pavements")
    Seminar 2

340  Ultimate Strength Design Handbook
     (Revision of Handbook)
     Senate

356  Industrialized Concrete Construction
     Subcommittee Reports; Plan for Convention Symposium
     Secretariat

423  Prestressed Concrete Post-Tensioned Slabs;
    Redistribution of Moments in Post-Tensioned
    Structures
    Embassy

438  Torsion (Design Recommendations; Current
    Research)
    Lower Sky Room

515  Coatings for Concrete (Drafts of
    Subcommittee Reports)
    West Card Room

516  High Pressure Steam Curing (Silica Flour
    Specifications; Committee Mission)
    Forum

523  Insulating and Cellular Concretes (Draft of Guide
    for Cellular Concretes above 50 pcf and Aggregate
    Concretes above 50 pcf with Compressive Strengths
    Less than 2500 psi)
    Consul

533  Precast Concrete Wall Panels (Final Draft
    of Recommended Practice)
    Seminar 1

E-702  Enchiridia — Design (Preparation of
      Educational Materials)
      Seminar 3

E-704  Enchiridia — Building Code (Progress of Drafts
      of Enchiridia)
      Upper Sky Room

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

Forum on Research Needed on Reduction
of Early Slump Loss of Concrete
(Sponsored by Committee 114) See Page 23  Regency North

Meeting Room

318  Standard Building Code (Revisions to ACI 318-71)
    Mezzanine Theatre

340  Ultimate Strength Design Handbook
     (Revision of Handbook)
     Senate

355  Anchorage to Concrete (Results of Questionnaire
     to Industry)
     Embassy

356  Industrialized Concrete Construction
     Subcommittee Reports; Plan for Convention Symposium
     Secretariat

515  Coatings for Concrete (Drafts of
     Subcommittee Reports)
     West Card Room

516  High Pressure Steam Curing (Silica Flour
     Specifications; Committee Mission)
     Forum

533  Precast Concrete Wall Panels (Final Draft of
     Recommended Practice)
     Seminar 1

E-702  Enchiridia — Design (Preparation of
      Educational Materials)
      Seminar 3

E-704  Enchiridia — Building Code (Progress of Drafts
      of Enchiridia)
      Upper Sky Room
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

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

Design of Spandrel Beams in Frames
Thomas T. C. Hsu, associate professor, Department of Civil Engineering, University of Miami, Coral Gables, Florida
THURSDAY, NOVEMBER 2, 9:00 a.m.
symposium on concrete floor finishes
Regency West

sponsored by ACI Committee 302

Session Chairman: William H. Kuening, 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 re-
search physical scientist, U. S. Bureau of Recla-
mination, 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, King-
ston, 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, Brook-
haven National Laboratory, Upton, New York

A Study of Partially Impregnated Polymerized Concrete Specimens
Birger Søndergaard, 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 Chemi-
cals Inc., Tokyo, Japan

Properties of Polymer-Fiber-Concrete Systems
R. Narayan Swamy, senior lecturer, Department of Civil and Struc-
tural 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
symposium on expansive cement concretes (second session)  

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

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

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 loss.

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.
new developments in construction materials

Regency East

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

Lightweight Castable Materials for Housing Modules
Stephen J. Walting, 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. J. Kent, project manager, Wirand Concrete, Johnson and Nephew Ltd., Wakefield, England

Calcium Aluminate Cement Concrete for Structural Purposes
T. D. Robson, director, The Lafarge Organization, Ltd., Windsor, Berks, England; and R. Rabot, director of laboratories, Ciments Lafarge, Paris, France

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
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

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Capacete-Martín & Associates

JORGE A. JUNCOS
San Juan, Puerto Rico

SAMUEL DÍAZ
Puerto Rico Planning Board

SATURDAY, NOVEMBER 4, 9:00 a.m.
reconvention
puerto rico general session

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 García, general manager, Ready-Mix Concrete, Carolina, Puerto Rico; and Ignacio Martín, partner, Capacete-Martín 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 rican 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

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   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.