

DENVER CONVENTION EXHIBITORS & CONTRIBUTORS

Keep up with latest developments in concrete technology, equipment, and materials. Visit the Exhibits daily on the Mezzanine floors of the Brown Palace and Brown Palace West.

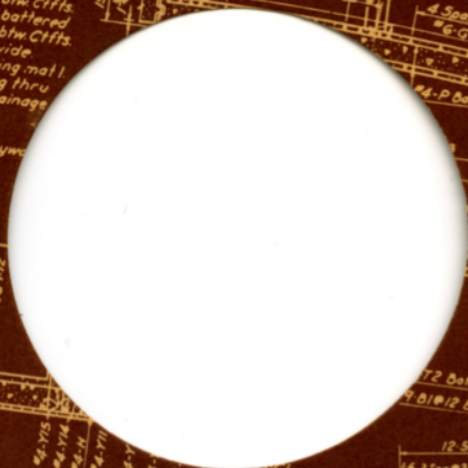
EXHIBITORS

American Steel & Wire Division United States Steel Pittsburgh, Pennsylvania	Intrusion-Prepakt, Inc. Cleveland, Ohio
Cen-Vi-Ro Pipe Corporation Shafter, California	Lee Turzillo Contracting Co. Brecksville, Ohio
Chicago Fly Ash Company Chicago, Illinois	Master Builders Company Cleveland, Ohio
Colorado Fuel & Iron Corp. Denver, Colorado	The Prescon Corporation Corpus Christi, Texas
Edoco Technical Products, Inc. Long Beach, California	Protex Industries, Inc. Denver, Colorado
Expanded Shale, Clay & Slate Institute Washington, D. C.	Rainhart Company Austin, Texas
Furane Plastics, Inc. Los Angeles, California	Rodeffer Industries Pasadena, California
Gates & Sons, Inc. Denver, Colorado	Sika Chemical Corporation Passaic, New Jersey
Ideal Cement Company Denver, Colorado	Soiltest, Inc. Chicago, Illinois
	Sonoco Products Company Hartsville, South Carolina

CONTRIBUTORS

Dewey & Almy Chemical Div. W. R. Grace & Company Cambridge, Massachusetts	Johns-Manville Bldg. Mat'l's Denver, Colorado
Hunt Process Corp. Los Angeles, California	Master Builders Company Cleveland, Ohio
Hunt Process Corp.—Southern Ridgeland, Mississippi	Portland Cement Association Chicago, Illinois

58TH ANNUAL CONVENTION AMERICAN CONCRETE INSTITUTE



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March 12-15, 1962
Brown Palace Hotel
Denver, Colorado

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*Address

AMERICAN CONCRETE INSTITUTE

P.O. Box 4754, Redford Station

Detroit 19, Michigan

CONVENTION REGISTRATION

Monday — Thursday, March 12-15

9:00 a.m. — 5:00 p.m. in Promenade,
Brown Palace West

Registration Fee — \$5.00

All ladies and **registered** nonmember visitors are welcome to attend technical sessions, Awards Luncheon, and social activities.

See bulletin board in registration area for special notices.

NOTES FOR PROGRAM PARTICIPANTS

8:00 a.m. Tuesday — Breakfast for program participants (by invitation) Independence Room, Brown Palace.

8:00 a.m. Wednesday — Breakfast for program participants (by invitation) Coronet Room, Brown Palace.

8:00 a.m. Thursday — Breakfast for Research Session participants (by invitation) Coronet Room, Brown Palace.

Upon recognition by the Chairman, a discussor will please state his name distinctly and go to the nearest microphone so that he may be heard by all.

A "Convention Review" will be published in the News Letter section of the May 1962 ACI JOURNAL.

**ACI CONVENTION
AND PRESS HEADQUARTERS
Room 240, Brown Palace**

SPECIAL EVENTS

Exhibits . . . Monday through Thursday in Brown Palace Hotel and Brown Palace West Mezzanines.

Architectural Contest . . . A design competition for fourth-year architectural students at the University of Arizona, University of Colorado, Montana State College, and University of New Mexico. Models and drawings on display in exhibit area, Brown Palace Hotel.

Ladies' Program (see schedule, page 25) . . . Daily

Awards Luncheon . . . Silver Glade Room, Cosmopolitan Hotel, 12:15 p.m., Tuesday, March 13 (purchase tickets by 10:00 a.m. Tuesday at the main convention registration desk).

Hospitality Hour . . . Ballroom, Brown Palace West, 6:30 p.m., Tuesday, March 13 (admittance by Registration Badge).

Buffalo Barbecue and Tour of Bureau of Reclamation Engineering Laboratories . . . Building 56, Denver Federal Center, Wednesday, March 14. Busses will leave starting at 5:30 p.m. from the Tremont Street entrance, Brown Palace Hotel. (Purchase tickets by Noon, Wednesday, for barbecue and bus at table in Registration area, Brown Palace Hotel.)

Field Trips . . . Friday, March 16.

Get details and purchase tickets by Noon, Thursday, at table in Registration area, Brown Palace Hotel. Busses leave from Tremont Street entrance, Brown Palace Hotel.

1. Concrete construction in Denver area, morning only; leave at 8:00 a.m.
2. Concrete construction in Colorado Springs area—Visit to Air Force Academy and luncheon at Broadmoor Hotel, all day; leave at 8:30 a.m.
3. Tour of the Idealite Company Plant, near Denver. Morning tour starts at 9:00 a.m.; afternoon tour at 1:30 p.m. (Compliments of the Idealite Company.)

TECHNICAL COMMITTEE MEETINGS

(Meetings to be held in the Brown Palace and the Cosmopolitan Hotel across the street. Visitors welcome at all meetings except at executive and closed sessions. Meeting topics are in italics.)

Monday Morning, March 12

9:00 a.m. — 12:00 Noon

Committee	Meeting Room & Hotel
Board Committee on Chapter Activities (<i>Closed meeting</i>)	238, Brown Palace
116 Nomenclature (<i>Review of definitions and glossary</i>)	Derrick, Cosmopolitan
208 Bond Stress (<i>Progress reports on bond studies with emphasis on relationship between bond strengths and bar diameters</i>)	241, Brown Palace
213 (Sub. I) Lightweight Aggregates (<i>Recommended guide to good practice; sections on lightweight concrete in new Building Code</i>)	Empire, Cosmopolitan
215 Fatigue of Concrete (<i>Research; fatigue failures; design requirements</i>)	232, Brown Palace
315 Detailing Reinforced Concrete Structures (<i>Revisions to Detailing Manual</i>)	234, Brown Palace
323 Prestressed Concrete (<i>Closed meeting—See also p.m.</i>)	Broadway Arms, Cosmopolitan
331 Structures of Masonry Units (<i>Progress on committee report on design, wall movements, construction practices</i>)	Coronet, Brown Palace
340 Ultimate Strength Design Handbook (<i>New handbook</i>)	Directors, Cosmopolitan
342 Lateral Forces on Multistory Frames (<i>Discuss committee mission</i>)	Bonanza, Cosmopolitan
403 Adhesives for Concrete (<i>Recommended practice for use of epoxy resins in conjunction with concrete; research—See also p.m.</i>)	Branding Iron, Cosmopolitan

Committee	Meeting Room & Hotel
505 Reinforced Concrete Chimneys (<i>Discussion of protective materials, design procedures, earthquake criteria</i>)	Governors, Cosmopolitan
624 Portland Cement Plaster (<i>Draft report</i>)	230, Brown Palace
633 Precast Panels (<i>Discussion of committee mission</i>)	Holiday, Cosmopolitan
716 High Pressure Steam Curing (<i>Draft report</i>)	Ballroom A, Brown Palace

Monday Afternoon, March 12

2:00 p.m. — 5:00 p.m.

Monograph Committee (<i>Closed meeting</i>)	238, Brown Palace
115 Research (<i>Executive group only</i>)	241, Brown Palace
212 Admixtures (<i>Editorial committee only—See also evening</i>)	Governors, Cosmopolitan
213 (Sub. II) Lightweight Aggregates (<i>Discussion of joint report with Comm. 716</i>)	Empire, Cosmopolitan
213 (Sub. III) Lightweight Aggregates (<i>Recommended practice for insulating fills</i>)	Directors, Cosmopolitan
317 Reinforced Concrete Design Handbook (<i>Revisions to handbook</i>)	234, Brown Palace
318 Subcommittee 8 (<i>Closed Meeting</i>)	240, Brown Palace
322 Structural Plain Concrete	232, Brown Palace
323 Prestressed Concrete (<i>Subcommittee work; chapter in new Building Code on prestressed concrete—See also a.m.</i>)	Broadway Arms, Cosmopolitan
334 Shell Structures (<i>Report on recommended practices—See also evening & Tuesday</i>)	Derrick, Cosmopolitan
339 High Strength Reinforcement (<i>Form of report</i>)	Bonanza, Cosmopolitan

Committee	Meeting Room & Hotel
341 Reinforced Concrete Columns (<i>Problems of design; discussion of information on the problem of axial load combined with bending about 2 principal axes.</i>)	Holiday, Cosmopolitan
401 Specifications for Structural Concrete (<i>Final check of committee report</i>)	Coronet, Brown Palace
403 Adhesives for Concrete (<i>See also a.m.</i>)	Branding Iron, Cosmopolitan
714 Concrete Bins and Silos (<i>Preliminary draft of recommendations for foundations, wall, and bin bottom design</i>)	230, Brown Palace
805 Pneumatically Applied Mortar (<i>Discussion of draft of report on dry process shotcrete; plans for evaluating wet process shotcrete</i>)	Ballroom A, Brown Palace

Monday Evening, March 12

7:00 p.m.

Chapter Problem Forum (<i>For chapter officers and those interested in forming chapters</i>)	241, Brown Palace
201 Durability of Concrete in Service (<i>Committee report</i>)	Coronet, Brown Palace
209 Creep and Volume Changes (<i>Interpretation of creep data; recent research</i>)	232, Brown Palace
212 Admixtures (<i>Editorial committee only—See also p.m.</i>)	Governors, Cosmopolitan
213 (Sub IV) Lightweight Aggregates (<i>Closed Meeting</i>)	Empire, Cosmopolitan
318 ACI Building Code (<i>Closed meeting</i>)	Holiday, Cosmopolitan
328 Limit Design	238, Brown Palace
334 Shell Structures (<i>Closed meeting—See also p.m. & Tuesday</i>)	Derrick, Cosmopolitan
336 Combined Footings (<i>Committee report</i>)	Branding Iron, Cosmopolitan

Committee	Meeting Room & Hotel
343 Concrete Piles	Bonanza, Cosmopolitan
609 Consolidation of Concrete (<i>Revision of committee report</i>)	Directors, Cosmopolitan
611 Inspection of Concrete (<i>Recommended practice for inspection; slides illustrating results of good & bad practices</i>)	Ballroom A, Brown Palace
616 Coatings for Concrete (<i>Report on coatings to prevent chemical attack on concrete</i>)	230, Brown Palace
623 Cellular Concrete	234, Brown Palace
717 Low Pressure Steam Curing	Broadway Arms, Cosmopolitan

Tuesday Morning, March 13

9:00 a.m. — 12:00 Noon

ACI-PCI Liaison Committee (<i>Closed meeting</i>)	232, Brown Palace
207 Mass Concrete (<i>Planning symposium</i>)	238, Brown Palace
212 Admixtures (<i>Committee report</i>)	Ballroom A, Brown Palace
213 Lightweight Aggregates (<i>Summary of subcommittee activities</i>)	Broadway Arms, Cosmopolitan
214 Evaluation of Strength Tests	Empire, Cosmopolitan
216 Fireproofing or Fire Protection of Structures (<i>Future work</i>)	Governors, Cosmopolitan
321 Reinforced Concrete Slabs (<i>Present state of research</i>)	234, Brown Palace
334 Shell Structures (<i>Closed meeting—See also Monday</i>)	Derrick, Cosmopolitan

Committee	Meeting Room & Hotel
335 Deflection of Concrete Building Structures (<i>Deflection of beams</i>)	Bonanza, Cosmopolitan
337 Strength Evaluation of Existing Structures	Directors, Cosmopolitan
404 Joint Sealants (<i>Problems</i>)	Holiday, Cosmopolitan
612 Curing Concrete (<i>Draft report for recommended practice</i>)	Coronet, Brown Palace
613 Proportioning Concrete Mixes (<i>Relations of water-cement ratio, maximum-size of coarse aggregate, admixtures</i>)	Branding Iron, Cosmopolitan
622 Formwork (<i>Recommended practice; formwork manual</i>)	241, Brown Palace
712 Precast Structural Concrete (<i>Joints and connections</i>)	230, Brown Palace

Tuesday Afternoon, March 13

2:00 p.m. — 5:00 p.m.

AASHO Road Test Bridge Panel (<i>Closed meeting</i>)	238, Brown Palace
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Tuesday Evening, March 13

7:00 p.m.

AASHO Road Test Bridge Panel (<i>Closed meeting</i>)	238, Brown Palace
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Do a Better Job in Concrete

... Visit the Exhibits Daily

Tuesday, March 13

AWARDS LUNCHEON

12:15 p.m.

SILVER GLADE ROOM, COSMOPOLITAN HOTEL

Presentation of Awards

HENRY C. TURNER MEDAL to

KARL P. BILLNER

"For notable achievements in the concrete industry."

HENRY L. KENNEDY AWARD to

ROBERT C. JOHNSON

"For outstanding technical and administrative service to the Institute."

LEONARD C. WASON MEDAL FOR MOST MERITORIOUS PAPER to

DR. HUBERT RUSCH

for his paper, "Researches Toward a General Flexural Theory for Structural Concrete," published in the July 1960 ACI JOURNAL.

CONSTRUCTION PRACTICE AWARD to

ANDRE PADUART

AND

JEAN VAN DOOSSELAERE

for their paper, "Design and Construction of the Civil Engineering 'Arrow' at the Brussels International Exhibition," published in the July 1960 ACI JOURNAL.

Announcement of Election to Honorary Membership

ALBERT T. GOLDBECK

INGE M. LYSE

Presentation of Student Awards

Recognition of Retiring Officers

Report of Tellers and Introduction of New Officers

Presentation of Memento to Retiring President

TUESDAY AFTERNOON MARCH 13

FIRST GENERAL SESSION

2:30 p.m. — 5 p.m.

Ballroom,
Brown Palace West

Retiring President's
Address

Report on RILEM
International Symposium
on the Durability of
Concrete
(Prague)

Report on 2nd Conference
on Fundamental Research
in Plain Concrete
(University of Illinois)

Report on 7th International
Congress on Large Dams
(Rome)

Evolution of Prestressed
Concrete in Europe

CO-CHAIRMEN

Lewis H. Tuthill

Concrete Engineer

Division of Design and Construction
California Department of
Water Resources

Sacramento, California
(Retiring President)

Walter H. Price

Chief Research Engineer

U. S. Bureau of Reclamation
Denver, Colorado
(Past President & Chairman,
Denver Convention Committee)

Lewis H. Tuthill

Hubert Woods

Director of Research

Research and Development
Laboratories
Portland Cement Association
Skokie, Illinois

Bryant Mather

Chief, Special Investigation
Branch

Concrete Division
U. S. Army Engineer
Waterways Experiment Station
Jackson, Mississippi

Walter H. Price

Chief Research Engineer

U. S. Bureau of Reclamation
Denver, Colorado

Andre Paduart

Professor of Statics,
Concrete and Bridge
Construction

University of Brussels
Brussels, Belgium

WEDNESDAY MORNING (Continued)

Prestress Loss as Affected by Type of Curing

J. A. Hanson
Senior Development Engineer
Research and Development Lab
Portland Cement Association
Skokie, Illinois

Experience with Expanded Shale Aggregate

Arthur G. Wood
Sales and Service Engineer
The Idealite Company
Denver, Colorado

WEDNESDAY AFTERNOON MARCH 14
CONCURRENT SESSIONS

2 p.m. — 5 p.m.

(1) PROPOSED CHANGES IN ACI BUILDING CODE
Ballroom,
Brown Palace West

(Continued from Wednesday morning; see morning schedule for subjects and speakers)

(2) COMMITTEE 207 SYMPOSIUM ON MASS CONCRETE

Silver Glade Room,
Cosmopolitan Hotel

CHAIRMAN
S. D. Burks
(Chairman, ACI Committee 207)
Manager, Construction Chemicals Division
Dewey and Almy Chemical Division
W. R. Grace & Company
San Leandro, California

Historical Account of Mass Concrete in U. S. Dams

Raymond E. Davis
Director Emeritus
Engineering Materials Laboratory
University of California
Berkeley, California

Concrete Is What We Make It

F. R. McMillan
Consulting Engineer
Asheville, North Carolina

Present Bureau of Reclamation Practices in Mass Concrete Technology

Walter H. Price
Chief Research Engineer
Elmo C. Higginson
Chief, Concrete Laboratory Branch
U. S. Bureau of Reclamation
Denver, Colorado

Corps of Engineers Experience with Pozzolans in Mass Concrete

William R. Waugh
Chief, Concrete Branch Office, Chief of Engineers
Washington, D. C.

THURSDAY MORNING MARCH 15
CONCURRENT SESSIONS

9 a.m. — 12 Noon

(1) COMMITTEE 207 SYMPOSIUM ON MASS CONCRETE

Century Room,
Cosmopolitan Hotel

(Continued from Wednesday afternoon)

Temperature-Instrumentation Observations, Pine Flat Dam and Folsom Dam

A. R. Mead
Supervising Materials Engineer
U. S. Army Engineers District
Corps of Engineers
Sacramento, California

Limiting Values for the Height of Straight Gravity Concrete Dams without a Vertical Joint or Joints Parallel to the Axis of the Dam

B. W. Steele
Consulting Engineer
Coral Gables, Florida

Mass Concrete for Oroville Dam

Lewis H. Tuthill
Concrete Engineer
Robert F. Adams
Supervisor, Concrete Laboratory

Donald R. Mitchell
Research Engineer
California Department of Water Resources
Sacramento, California

Mass Concrete Practices in France

J. Orth
Chief, Service Studies and Hydroelectric Projects
Electricité de France
Paris, France

M. Pierre Jacquin
Chief, Concrete Testing Laboratory
Electricité de France
Albertville, France

English translation presented by:

Mrs. Margaret Corbin
Assistant Research Engineer
Research and Development Lab
Portland Cement Association
Skokie, Illinois

(2) COMMITTEE 325
SYMPOSIUM ON
HIGHWAY PROBLEMS

Ballroom,
Brown Palace West

CHAIRMAN

Henry Aaron
(Chairman, ACI Committee 325)
Chief Engineer
Reinforced Concrete
Pavement Division
Wire Reinforcement Institute
Washington, D. C.

Trends in Concrete
Pavement Design

Harry D. Cashell
Highway Physical
Research Engineer
U. S. Bureau of Public Roads
Washington, D. C.

Continuously Reinforced
Concrete Pavements
(Committee 325,
Subcommittee 7 Report)

J. D. Lindsay
Materials Engineer
Bureau of Materials
Illinois Division of Highways
Springfield, Illinois

Performance of
Bonded Concrete
Overlays

R. W. Gillette
Senior Airport
Engineer
Portland Cement Association
Chicago, Illinois

Structural Design of
Concrete Overlays

Frank M. Mellinger
Director
Ohio River Division Laboratories
Corps of Engineers
Cincinnati, Ohio

RESEARCH SESSION

2 p.m. — 5 p.m.
Ballroom,
Brown Palace West

(This Annual Open Meeting of
ACI Committee 115 differs from
general sessions in that the infor-
mation is not released for publica-
tion. Request is made that the
proceedings be regarded as CON-
FIDENTIAL.)

Shear Strength of
Prestressed Concrete
I-Beams with Deflected
Strands

CHAIRMAN

Chester P. Siess
(Chairman, ACI Committee 115)
Professor of
Civil Engineering
University of Illinois
Urbana, Illinois

S. J. Chamberlin
(Secretary, ACI Committee 115)
Professor of
Engineering Mechanics
Iowa State University of
Science and Technology
Ames, Iowa

Yield Hinges in
Reinforced Concrete
Columns

B. G. Eppes
Assistant Professor of
Engineering Mechanics
University of Texas
Austin, Texas

The Splitting
Phenomenon in
Bond Failure

J. W. Baldwin, Jr.
Department of
Civil Engineering
University of Missouri
Columbia, Missouri

Very Small-Scale
Reinforced Concrete
Models of Complex
Structures

M. Xanthakis
Department of
Civil Engineering
University of Illinois
Urbana, Illinois

Beam Deflection Creep
Rates under Repeated
Loads

John R. Verna
Assistant Professor of
Civil Engineering
Syracuse University
Syracuse, New York

Cracking Resistance of
Concrete Masonry Walls

Richard O. Hedstrom
Development Engineer
Research and
Development Laboratories
Portland Cement Association
Skokie, Illinois

Effect of Lightweight
Aggregates on
Strength and Durability
of Concrete

D. O. Woolf
~~Harry D. Cusick~~
Highway Research
Physical Engineer
U. S. Bureau of Public Roads
Washington, D. C.
*Chief Concrete Section
Physical Res. Division*

Energy Dissipating
Characteristics of
Lightweight Concrete

J. Neils Thompson
Professor and Director
Balcones Research Center
University of Texas
Austin, Texas

False Set in Cement

T. G. Clendenning
Research Engineer
Hydro Electric Power Commission
of Ontario
Toronto, Ontario, Canada

Water Reducers in
Lean Mass Concrete

Thomas B. Kennedy
Chief, Concrete Division
U. S. Army Engineer Waterways
Experiment Station
Corps of Engineers
Jackson, Mississippi

NOTES

LADIES' PROGRAM

Reception Room 920, Brown Palace Hotel

Monday, March 12

9:00 to 10:30 a.m. Coffee, Fortunes, and Prizes.
Information available regarding amusements, points of interest, shopping, etc.

Tuesday, March 13

9:00 to 10:30 a.m. Coffee, Fortunes, Prizes, and Cards.

12:15 p.m. Awards Luncheon — Ladies welcome.

6:30 p.m. Hospitality Hour (informal dress) —
Brown Palace Tower Ballroom.

Wednesday, March 14

9:00 to 10:00 a.m. Coffee. Board busses 11:00 a.m. at Tremont Street entrance, Brown Palace Hotel, for Noon luncheon, Pinehurst Country Club.

6:30 p.m. Buffalo Barbecue, Bureau of Reclamation Engineering Laboratories. Board busses, Tremont Street entrance, Brown Palace, starting at 5:30 p.m.

Thursday, March 15

9:00 to 10:30 a.m. Coffee, Fortunes, and Prizes.
Free Day.

LADIES COMMITTEE

MRS. W. H. PRICE, *Chairman*
MRS. E. W. THORSON, *Vice Chairman*
MRS. J. L. GILLILAND, *Vice Chairman*
MRS. O. O. PHILLIPS, *Vice Chairman*

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