

# *PROGRAM*

*1969 Fall Convention*

AMERICAN  
CONCRETE  
INSTITUTE



November 2-7, 1969  
PITTSBURGH HILTON  
Pittsburgh, Pennsylvania

**MONDAY, November 3 (continued)**

COMMITTEE	Meeting Room
315 Detailing Reinforced Concrete Structures (Revision of manual)	Ballroom #3
437 Strength Evaluation of Existing Structures (Evaluation of bridges)	Chartiers B
443 Concrete Bridge Design (Proposed design recommendations)	Ballroom # 2 Rear
516 High Pressure Steam Curing (Subcommittee assignments)	King's Plaza
533 Precast Panels (Reports)	Ballroom #2 Front

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

209 Subcommittee II, Creep and Shrinkage in Concrete (State-of-the-art reports)	Rivers
302 Concrete Floor Finishes (Standard draft)	King's Plaza
315 Detailing Reinforced Concrete Structures (Revision of manual)	Ballroom #3
345 Concrete Bridge Decks (Draft recommended practice)	Ballroom #4
408 Bond Stress (Report in progress)	Brigade
443 Concrete Bridge Design (Proposed design recommendations)	Ballroom #2 Rear
533 Precast Panels (Reports)	Ballroom #2 Front
543 Concrete Piles (Chapter II topics)	King's Terrace
544 Fiber-Reinforced Concrete (State-of-the-art reports)	Chartiers A

**7:00 p.m.**

302 Concrete Floor Finishes (Standard draft)	King's Plaza
315 Detailing Reinforced Concrete Structures (Revision of manual)	Ballroom #3
318 Subcommittee 20, Standard Building Code	Rivers
322 Structural Plain Concrete (Draft of standard)	Chartiers B
340 Ultimate Strength Design Handbook	Chartiers A
512 Precast Structural Concrete (Draft of recommended practice)	Ballroom #4
543 Concrete Piles (Chapter II topics)	King's Terrace

**TUESDAY, November 4 9 a.m. to 12 noon**

COMMITTEE	Meeting Room
— Concrete 2000	Brigade
309 Consolidation of Concrete (Recommended practice)	King's Plaza
318 Standard Building Code (Draft of proposed code)	Ballroom #4
351 Foundations for Equipment and Machinery (Outline program; subcommittee assignments)	Chartiers A
443 Concrete Bridge Design (Proposed design recommendations)	Ballroom #2 Rear
503 Adhesives for Concrete (Draft guide)	Chartiers B
523 Insulating and Cellular Concretes (Guide discussion; symposium plans)	Rivers
533 Precast Panels (Reports)	Ballroom #3
543 Concrete Piles (Chapter II topics)	King's Terrace

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

— Board Committee on Education	Chartiers B
— Board Committee on Research	Traders
201 Durability of Concrete (Revision of report)	Ballroom #2 Front
224 Cracking (Subcommittee reports)	Ballroom #1 Front
309 Consolidation of Concrete (Second draft; Recommended practice)	King's Plaza
311 Inspection of Concrete (Upgrading manual)	Ballroom #3
318 Standard Building Code (Draft of proposed code)	Ballroom #4
332 Residential Concrete Work (Task group organization)	Ballroom #2 Rear
444 Models of Concrete Structures (Subcommittee assignments)	Rivers
515 Coatings for Concrete (Reports)	Chartiers A
532 Lightweight Concrete Masonry (Thermal transmission coefficient)	Brigade
543 Concrete Piles (Chapter II topics)	King's Terrace

**7:00 p.m.**

309 Consolidation of Concrete (Second draft; recommended practice)	King's Plaza
349 Criteria for Nuclear Containment Vessels (Design criteria draft)	King's Terrace
426 Shear and Diagonal Tension (Subcommittee reports)	Brigade

**WEDNESDAY, Nov. 5 9 a.m. to 12 noon**

COMMITTEE	Meeting Room
117 Tolerances (State-of-the-art report)	Chartiers B
119 Education (Reevaluation of responsibilities)	Brigade
212 Admixtures (Standard)	King's Plaza
213 Lightweight Aggregate Concretes (Subcommittee reports; 1970 symposium)	Ballroom #2 Front
223 Expansive Cement Concretes (Current research)	Ballroom #3
304 Measuring, Mixing, Transporting and Placing (Revision of recommended practice)	King's Terrace
318 Standard Building Code	Ballroom #4
348 Structural Safety (Subcommittee C)	Traders
439 High-Strength Reinforcement in Concrete (Report on present practice)	Ballroom #1 Front
444 Models of Concrete Structures (Subcommittee assignments)	Rivers

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

— Board Committee on Membership Recruitment	Traders
213 Lightweight Aggregate Concretes (Subcommittee reports — 1970 symposium)	Ballroom #2 Front
223 Expansive Cement Concretes (Current research)	Ballroom #3
308 Curing Concrete (Draft of recommended practice)	Rivers
318 Standard Building Code	Ballroom #4
347 Formwork for Concrete	Ballroom #1 Front
348 Structural Safety (Probabilistic design concepts and load factors)	Chartiers A
350 Sanitary Engineering Structures (begins at 1:00 p.m.) (Chapters 3 and 4 of report)	Chartiers B
352 Joints and Connections in Monolithic Structures (Recommendations)	Ballroom #2 Rear
442 Response of Buildings to Lateral Forces (Draft report and symposium)	Brigade
531 Concrete Masonry Structures (Current research)	King's Plaza

**7:00 p.m.**

531 Concrete Masonry Structures (Current research)	King's Plaza
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**THURSDAY, November 6 9 a.m. to 12 noon**

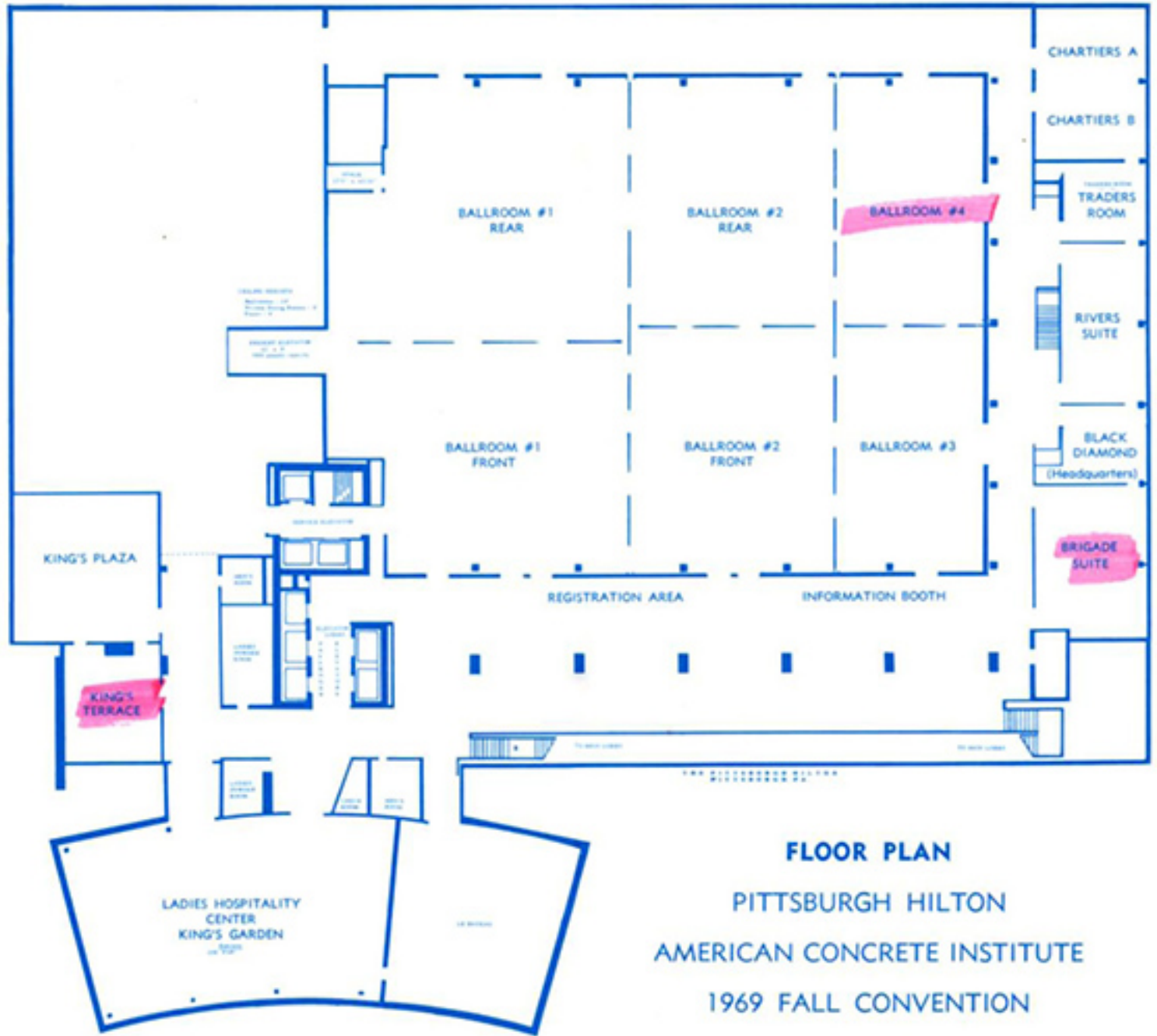
COMMITTEE	Meeting Room
114 Research and Development (R and D projects)	King's Plaza
118 Use of Computers (Programming guide — 1970 symposium)	Rivers
301 Specifications for Structural Concrete (Revision of ACI 301-66)	Ballroom #3
336 Combined Footings and Pier Foundations (Report)	Brigade
348 Structural Safety (Probabilistic design concepts and load factors)	Ballroom #1 Front
354 Design Practice	Chartiers B
438 Torsion (Current research)	Ballroom #2 Front
441 Concrete Columns (Current research)	Ballroom #4
517 Low Pressure Steam Curing (Recommended practice)	Ballroom #2 Rear

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

301 Specifications for Structural Concrete (Revision of ACI 301-66)	Ballroom #3
305 Hot Weather Concreting (Final draft and annotated bibliography)	King's Terrace
350 Sanitary Engineering Structures (Chapters 3 and 4 of report)	Chartiers B
421 Reinforced Concrete Slabs (Subcommittee reports)	Ballroom #4
438 Torsion (Current research)	Ballroom #2 Front
506 Shotcreting (Second draft of specifications)	Brigade

**6:30 p.m.**

"Concrete Mixer" - social hour  
... Ballroom #1



**FLOOR PLAN**  
**PITTSBURGH HILTON**  
**AMERICAN CONCRETE INSTITUTE**  
**1969 FALL CONVENTION**

FRIDAY, Nov. 7, 1969 9:00 a.m.-12:00 noon

### GENERAL SESSION

CHAIRMAN: Deane W. Hillegass, president, ACI Pittsburgh Area Chapter, and district manager, Sika Chemical Corporation, Pittsburgh, Pennsylvania

1. **Proposed ACI Standard:**

"Specifications for Cast-in-Place Nonreinforced Concrete Pipe" by Committee 346. Proposed standard published in April 1969 JOURNAL; presented by Carl R. Wilder, member of Committee 346 and manager, Public Works and Transportation Section, Portland Cement Association, Skokie, Illinois

2. "Shrinkage-Compensating Concrete in Walls" by Donald W. Pfeifer, manager, Concrete Products Research Section, Research and Development Division, Portland Cement Association, Skokie, Illinois

3. "CETAC—A Plan to Fill the Middle Level Manpower Gap" by Ellis S. Viesser, chairman New Jersey Civil Engineering Technology Advisory Council and marketing manager, Duncan Thecker Associates, Asbury Park, New Jersey, and Paul J. Brienza, managing director, Building Contractors Association of New Jersey, Newark, New Jersey

4. "Long-Span Structures in San Paulo" by J. C. deFigueiredo Ferraz, professor and structural engineer, Construction Department, Escola Politecnica, University of San Paulo, San Paulo, Brazil

5. "Co-op City: One Million Cubic Yards of Concrete" by Nicholas Farkas, Farkas, Barron & Partners, Consulting Engineers, New York, New York

### Proposed ACI Standard: Specifications for Cast-in-Place Nonreinforced Concrete Pipe By ACI Committee 346

These specifications are a reference standard which the engineer or architect may make applicable to any cast-in-place pipe project by citing them in the project specifications. Individual chapters or sections should not be copied into project specifications since their meanings will be changed by taking them out of context.

The specifications need to be supplemented by designating or specifying individual project requirements. A list is provided indicating places in these specifications and items that will require, or may require, specific treatment by the specification writer.

## CONCURRENT SESSION

FRIDAY, Nov. 7

2:00 - 5:00 p.m.

### DESIGN CRITERIA FOR CONCRETE NUCLEAR REACTOR CONTAINMENT STRUCTURES by ACI Committee 349

CHAIRMAN: Paul E. Mast, chairman, ACI Committee 349

1. "Mission of ACI 349 and Liaison with ASCE, ASME and AEC" by Paul E. Mast, manager, Design Research Section, Portland Cement Association, Skokie, Illinois

2. "Design Philosophy" by Myer Bender, director, General Engineering Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, and R. Seidensticker, manager of quality assurance, Argonne National Laboratory, Argonne, Illinois

3. "Design Criteria and Methods of Analysis" by Darrel W. Halligan, chief structural engineer, Power and Industrial Division, Bechtel Corporation, San Francisco, California, and T. Y. Lin, professor, Department of Civil Engineering, University of California, Berkeley, California

4. "Material Performance Requirements for Structure and Liner" by Eric C. Smith, superintendent, Structures and Services Branch, Atomic Energy of Canada, Sheridan Park, Ontario, Canada

5. "Documentation and Testing Requirements Prior to Operation" by Hans Lorenz and Don K. Croneberger, respectively, chief structural engineer and structural engineer, Gilbert Associates, Reading, Pennsylvania.

## CONCURRENT SESSION

FRIDAY, Nov. 7

2:00-5:00 p.m.

### RESEARCH SESSION ACI Committee 115

**CHAIRMAN:** Adrian Pauw, chairman ACI Committee 115, acting dean and professor of civil engineering, College of Engineering, University of Missouri-Columbia, Columbia, Missouri

**SECRETARY:** J. H. Walker, secretary ACI Committee 115, vice-president for research and development, Portland Cement Association, Skokie, Illinois

1. **A Progress Report from Committee 114** by Richard C. Mielenz, chairman, ACI Committee 114 and vice-president for product development, Master Builders, Cleveland, Ohio
2. **"Sulfate Resistance of Asbestos-Cement Pipe Specimens"** by S. B. Helms, research engineer, Research Laboratory, Lehigh Portland Cement Company, Coplay, Pennsylvania
3. **"Accelerated Strength Tests"** by Robert R. Larson, graduate student, and T. W. Brockenbrough, assistant dean; Civil Engineering Department, College of Engineering, University of Delaware, Newark, Delaware
4. **"Ultrasonic Measurements for Detection of Microcrack Propagation"** by S. P. Shah, visiting associate professor, Department of Civil Engineering, Massachusetts Institute of Technology, Cambridge Massachusetts, and S. Chandra, visiting assistant professor, University of Illinois at Chicago Circle, Chicago, Illinois
5. **"Creep of Maturing Cement Paste"** by J. Timusk, associate professor, Department of Civil Engineering, University of Toronto, Toronto, Ontario, Canada, and R. S. Ghosh, Research Division, Hydro Electric Power Commission of Ontario, Toronto

## CONCURRENT SESSION

FRIDAY, Nov. 7

2:00-5:00 p.m.

### RESEARCH SESSION (continued)

6. **"Study of Composite Beams with Lightweight Concrete Slabs"** by James W. Baldwin, Jr., professor and chairman, and J. B. McGarraugh, assistant professor, Department of Civil Engineering, University of Missouri-Columbia, Columbia, Missouri
7. **"Nature of Bond Splitting in Reinforced Concrete"** by James Chinn, professor of civil engineering, University of Colorado, Boulder, Colorado; P. S. Harvill, Jr., tenure associate professor of engineering mechanics, U.S. Air Force Academy, Colorado; and Ernest C. Harris, senior staff engineer, Ken R. White Company, Denver, Colorado
8. **"Composite Columns—Preliminary Report on the State of the Art"** by Richard W. Furlong, associate professor, Department of Civil Engineering, University of Texas, Austin, Texas
9. **"Development of an Integrated Building System for Hospitals"** by Richard S. Levine, associate professor of architecture, and Hans Gesund, professor of structural engineering; University of Kentucky, Lexington, Kentucky
10. **"Prestressed Concrete Beams under Combined Bending and Torsion"** by H. V. S. GangaRao, assistant professor, Department of Civil Engineering, West Virginia University, Morgantown, West Virginia, and Paul Zia, professor and associate head, Civil Engineering Department, North Carolina State University, Raleigh, North Carolina

**Pittsburgh**  
**HOSTESS COMMITTEE**  
**CHAIRMAN**  
**Mrs. Robert A. Anderson**

**WELCOME . . .**

We're glad you are able to attend and hope that your stay is pleasant and enjoyable. Our committee has attempted to arrange a program which you will enjoy while leaving ample time for individual exploration of our lovely city and its many fine shops and restaurants.

The Ladies Hospitality Center is in the King's Garden, and each day, Monday through Thursday, coffee and Danish will be available at 9:30 a.m. and 3:00 p.m. Also each day we have planned an exciting program for your entertainment. Ladies, Pittsburgh's Golden Triangle awaits . . .

**Monday, November 3**

- 9:00 a.m. Registration
- 9:30 a.m. Juice, Coffee & Danish
- 2:30 p.m. Herbert D. Ferguson will present "A Picture Fantasy of Pittsburgh." Mr. Ferguson utilizes three synchronized slide projectors, tape recorders and screens to present a fascinating introduction to Pittsburgh today!

**Tuesday, November 4**

- 9:00 a.m. Registration
- 9:30 a.m. Juice, Coffee & Danish
- 12:30 p.m. Luncheon, followed by Harriet Woodcock in her "One-Star Playhouse." A thoroughly entertaining presentation by a most talented performer.
- 3:00 p.m. Coffee & Danish

**Wednesday, November 5**

- 9:00 a.m. Registration
- 9:30 a.m. Juice, Coffee & Danish
- 10:30 a.m. Beginning with a visit to Point Park and the historic Fort Duquesne, then a breathtaking ride up the Mt. Washington incline for a panoramic view of Pittsburgh's fabulous "Golden Triangle" and climaxed by a visit to the world famous Nationality Rooms at the University of Pittsburgh.

**Thursday, November 6**

- 9:00 a.m. Registration
- 9:30 a.m. Juice, Coffee & Danish
- 12:30 p.m. Luncheon, Top of the Towers Restaurant, with Fashion Show Cocktail Hour.
- 3:00 p.m. Coffee & Danish
- 6:30 p.m. The Concrete Mixer in the Hilton, Ballroom #1. Attend with your husband.

**Friday, November 7 — ALL DAY IS YOUR DAY.**

The Ladies Hospitality Center will be open with juice, coffee and Danish, being served at 9:30 a.m. and 3:00 p.m.

**PITTSBURGH CONVENTION COMMITTEE**

**General Chairman**

Bartlett L. Couch  
Pittsburgh Testing Laboratory  
P.O. Box 1646  
Pittsburgh, Pennsylvania 15230

**Finance**

Harold L. Wright  
Linco Supply Company  
Parkway West  
Pittsburgh, Pennsylvania 15235

**Publicity**

Andrew T. Fertal  
Master Builders  
119 Federal Street  
Pittsburgh, Pennsylvania 15212

and

Professor John E. Campbell  
139 Maryland Drive  
Carnegie, Pennsylvania 15106

**Ladies Program**

Mrs. Robert A. Anderson  
c/o Robert A. Anderson  
Shufflin & Green  
210 S. Monroe Street  
Butler, Pennsylvania 16001

This convention would not have been possible without the complete cooperation and dedicated work of the officers and members of the Pittsburgh Area Chapter of the American Concrete Institute.

# European Tour Set for 1970

## SYSTEMS BUILDING IN AN INDUSTRIALIZED SOCIETY

An All-Inclusive  
Post-Convention Seminar-Technical Tour  
April 18 - May 9, 1970

London, England	Frankfort, Germany
Milan, Italy	Copenhagen, Denmark
Munich, Germany	Paris, France

The following schedule is representative of the plans we have made:

We meet with the Cement and Concrete Association in London where papers will be presented on Systems Design, Construction Methods, Economics and Costs, and Management.

Following the seminar in each city, construction site tours are scheduled along with visits to Systems Building factories and ample time provided for study and discussion.

. . . and while the men are busy, the ladies will be visiting the birthplace of Shakespeare, Stratford-on-Avon; the lovely isle Isola Bella, in the Northern Lakes region near Milan; Oberammergau, near Frankfort, scene of the world-famous passion play; to Odense, where Hans Christian Andersen was born; to Copenhagen; and while in Paris, side trips to Versailles and Fontainebleau.

For further information regarding this **complete package seminar tour**, write American Concrete Institute, 22400 West Seven Mile Road, Detroit, Michigan 48219.