

FOURTH
AIEE
CEMENT INDUSTRY
TECHNICAL CONFERENCE



April 3, 4 and 5, 1962

CHASE-PARK PLAZA HOTEL
St. Louis, Missouri

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Sponsored by
CEMENT INDUSTRY COMMITTEE

J. F. HOWER, Chairman

and

ST. LOUIS SECTION – AIEE

C. E. HOWE, Chairman

SPRING ENGINEERING CONFERENCE

CONFERENCE: An Engineering Conference sponsored by the Cement Industry Committee of the AIEE Industry Division Committee will be held on April 3, 4, and 5, 1962, at the Chase-Park Plaza Hotel, St. Louis, Missouri. The technical sessions will include the presentation of papers on Maintenance and Safety, Power Distribution, Electric Drives, and Automation as related to the Cement Industry. In addition to the technical sessions, arrangements have been made for a Luncheon, Banquet, and an outstanding inspection tour.

CONFERENCE CITY: St. Louis has been chosen as the conference city because of its central location. Airline accommodations to most other cities are good. At this time of year St. Louis should be sprouting out with a few springtime buds. There is much diversification in industry in St. Louis, with two cement plants, several cement terminals, steel mills, chemical mills, a large aircraft factory, several automobile assembly plants, several breweries, and the necessary steam power generating stations.

TECHNICAL SESSIONS: All technical sessions, schoolroom style as last year, will be held in the Khorassan Room on the first floor of the Chase Hotel. The first session will begin at 10:00 A.M., Tuesday, April 3, 1962. Mr. John F. Hower, General Chairman, will preside.

HOTEL RESERVATION: The facilities of the Chase-Park Plaza Hotel are available to the registrants for this meeting. Requests for room reservations should be mailed to the Chase-Park Plaza Hotel, St. Louis, Missouri. The enclosed advance registration and rate card for your hotel accommodations should be used. If the Chase-Park Plaza facilities become overtaxed, they will make reservations for you at nearby hotels. Please make reservations early because rooms at times are scarce.

REGISTRATION: The registration desk will be located on the first floor adjacent to the Khorassan Room and will be open 5:00 P.M. to 9:00 P.M. on Monday, April 2. On April 3 and 4 reservations will be received from 8:00 A.M. to 4:00 P.M. The registration fee will include one bound copy of the Conference papers. The price of the luncheon, banquet, and plant tours will be in addition to the registration fee.

Advance Registration	\$ 8.00
Registration at Door	\$10.00

Students and families of registrants will be admitted to the technical sessions at no charge. Additional tickets for the luncheon, banquet, and plant tour will be available at the Registration Desk.

TECHNICAL PAPERS: Each registrant will receive a copy of all of the papers along with other Conference information at the Registration Desk. Additional copies of papers will be on sale at the Registration Desk at a cost of \$8.00 per set.

LUNCHEON: The luncheon is intended to provide a convenient get-acquainted and eating facility for the Conference, Tuesday, April 3. There will also be an interesting luncheon speaker. Take advantage of this opportunity to meet and converse with your friends in the Industry. Luncheon Fee - \$4.00.

BANQUET: For the last three years, the most popular special event has been the banquet following the technical sessions for all registrants, wives, and guests. It will be held in the spectacular Tiarra Ballroom of the Park Plaza at 7:00 P.M. on Wednesday, April 4. Conference registration is not required for banquet attendance. Banquet Fee - \$8.50.

INSPECTION TRIP: An inspection trip to a very interesting strip mine of the Peabody Coal Company at Freeburg, Illinois, and to the Prospect Hill Plant of Missouri Portland Cement Company has been arranged for Thursday, April 5. The tour buses will leave from the Chase Hotel at 15 minute intervals, starting at 8:00 A.M. and will terminate after both inspections by buses which are routed via the St. Louis Airport, with arrivals scheduled for 3:30 P.M., again at 15 minute intervals: thence to the terminal destination at the Chase Hotel 30 minutes later. A luncheon will be provided jointly by the Alpha, Marquette, Missouri Portland and Universal Atlas Cement Companies. Tour Fee - \$3.00.

HOSPITALITY & INFORMATION CENTER: Ladies will be welcome at any of the Conference activities. Although there is no ladies' program, there are many events in St. Louis to entertain the ladies, from flower exhibits at the St. Louis Botanical Garden to a very interesting local area for window shopping and not far distant, Gaslight Square for evening entertainment. St. Louis springtime should be very pleasant at this time in early April.

An information center will be provided adjacent to the Registration Desk with up-to-the-minute news about current theatrical shows, movies, sport schedules and the entertainment shows of St. Louis' night spots. A bulletin board will be available for posting messages from your office or associates.

INQUIRIES: Any inquiries concerning this technical conference may be directed to the Program Chairman, John B. Woodward, Bendy Engineering Company, 1530 Page Industrial Boulevard, St. Louis 32, Missouri.

A. I. E. E. CEMENT INDUSTRY TECHNICAL CONFERENCE

PROGRAM

MONDAY, APRIL 2

5-9 p. m. — Registration

TUESDAY, APRIL 3

8 a. m. - 4 p. m. — Registration

10 a. m. — General Session

J. F. Hower, General Chairman, Presiding
Lehigh Portland Cement

Introducing

C. E. Howe, Chairman, St. Louis Section

10:30 a. m. — MAINTENANCE AND SAFETY

H. P. Cassell, Moderator, Whitehall Cement Mfg. Co.

A. *Progress Toward Recommended Practices to Improve Electrical Safety in Cement Plants*

H. P. Cassell

Whitehall Cement Mfg. Co., Cementon, Pa.

B. *Electrical Maintenance in Cement Plants*

David Rodgers, Jr. Universal Atlas Cement Div.,
United States Steel Corp., Buffington, Ind.

C. *Maintenance of Instrumentation in Cement Plants*

Richard T. Mott

Bailey Meter Co., Philadelphia, Pa.

12 noon — Luncheon (Khorassan Room)

Speaker — A. Carl Weber,
Director of Research Engineering,
Laclede Steel Co.

1:30 p. m. — DISTRIBUTION

R. P. Scott, Moderator
Penn Dixie Cement Co., Nazareth, Pa.

A. *Coordinated Fault Protection and Metering for Cement Plant Electrical Equipment*

J. F. Hower

Lehigh Portland Cement Co., Allentown, Pa.

A. A. Regotti

Westinghouse Electric Corp., Pittsburgh, Pa.

A. C. Lordi

Westinghouse Electric Corp., Pittsburgh, Pa.

B. *A Utility's View of Cement Plant Service*

W. U. Baun

Pennsylvania Power & Light Co., Allentown, Pa.

P. J. Britt

Pennsylvania Power & Light Co., Allentown, Pa.

C. L. Pollard

Pennsylvania Power & Light Co., Allentown, Pa.

C. *Frame Grounding of Electrical Equipment in Cement Plants*

R. C. White

Macdonald Engineering Company, Chicago, Ill.

R. J. Krekel

Macdonald Engineering Company, Chicago, Ill.

D. *Cement Plant Lighting*

Amos Turner

Meissner Engineers, Inc., Chicago, Ill.

Alfred Staub

Dundee Cement Company, Dundee, Mich.

E. *Progress Toward Recommended Practices for Cement Plant Power Distribution*

C. E. Roberts

Westinghouse Electric Corp., Philadelphia, Pa.

4:30 p. m. — Adjourn

WEDNESDAY, APRIL 4

9:00 a. m. — DRIVES AND RELATED PRODUCTS

W. G. Lefferts, Moderator

Allis-Chalmers Mfg., Co., Milwaukee, Wisc.

A. *Coordination of Flexible Coupling and Motor Bearings in Design, Application, Installation and Maintenance*

E. R. Kirkham

Lone Star Cement Corp., New York, N. Y.

B. *Purchaser's Responsibility on Receipt, Storage and Installation of Electrical Equipment*

Walter Wankling Ideal Cement Co., Denver, Colo.

C. *Sealed Insulation Systems and Their Application in Cement Plants*

W. A. Allan

Universal Atlas Cement Div.,

United States Steel Corp., New York, N. Y.

D. W. Hertel

Allis-Chalmers Mfg. Co., Norwood, Ohio

D. *Use and Location of Surge Capacitators and Lightning Arrestors for Machine Protection in Cement Plants*

W. A. Reynolds

Huron Portland Cement Co. Div.,

National Gypsum Co., Alpena, Mich.

E. *Process Sequence Interlocking Including Motion Switching and Bin Level Detection*

J. H. Herz

California Portland Cement Co.

Los Angeles, Calif.

F. *Report on Recommendations for Electric Drives in the Cement Industry*

F. J. Renn

Louisville Cement Co., Speed, Ind.

Wednesday (continued)

12 noon — Lunch

1:30 p. m. — AUTOMATION

P. E. Carlson, Moderator
Lehigh Portland Cement Co., Allentown, Pa.

A. *Experience with a Vacuum X-Ray Spectrometer in the Analysis of Cement and Raw Materials*

E. L. Palmer Ideal Cement Co., Ft. Collins, Colo.

B. *Chemical Analysis and Control of a Cement Plant with X-Ray*

J. W. Pastorius
Whitehall Cement Mfg. Co., Cementon, Pa.

W. S. Hoffman
Whitehall Cement Mfg. Co., Cementon, Pa.

C. A. *Cement Plant Design Most Suitable for Automation*

Gen. H. A. Markle, Jr.
Fuller Co., Catasauqua, Pa.

D. *The Use of Process Control Computers in the Cement Industry*

J. R. Romig
California Portland Cement Co., Colton, Calif.

Dr. G. E. Adams
General Electric Co., Phoenix, Ariz.

W. M. Gaines
General Electric Co., Phoenix, Ariz.

E. *New Trends and Concepts in Automation of Cement Plants*

R. K. Gunsaulus Bailey Meter Co., Detroit, Mich.

F. *Interesting Process and Operational Features of the Prospect Hill Plant*

R. W. Krueger
Missouri Portland Cement Co., St. Louis, Mo.

4:30 p. m. — Adjourn

7:00 p. m. — Banquet (Tiarra Room, Park Plaza Hotel)

R. E. Stropfel, Toastmaster
Invocation: The Rev. Marshall A. Bridwell
Minister, The Ferguson Methodist Church

Address by: W. G. Young
Vice-President, Administration,
Lehigh Portland Cement Co., Allentown, Pa.

THURSDAY, APRIL 5

TOUR

8:00 a. m. — Board buses

3:30 p. m. — First bus return to airport

4:00 p. m. — First bus return to hotel

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G. E. McDONALD, *1963 Program Chairman*
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