PRESTRESSED CONCRETE INSTITUTE

P.C. Items

Vol. 3—No. 3 | *Published Monthly by the* PRESTRESSED CONCRETE INSTITUTE | March, 1957

Vanderbilt University Stages Quality Concrete Conference

The School of Engineering of Vanderbilt University, Nashville, Tenn., in cooperation with the Portland Cement Association, local, state and regional engineering and architectural societies and masonry associations, and the American Concrete Institute, staged a two-day conference on Quality Concrete.

The afternoon session of the opening day was devoted to a panel on prestressed concrete. The Prestressed Concrete Institute was officially represented at the conference by Ross H. Bryan, Consulting Engineer and PCI member. Mr. Bryan served as moderator on the panel, and talked on the "Future of Prestressed Concrete." John Heald, a PCI member and sales engineer of John A. Roebling's Sons Corp., discussed "Wire and Strand for Prestressed Concrete." J. N. Hicks, also a PCI member and vice president of Stressteel Corp., Wilkes-Barre, Penn., spoke on "Methods of Post Tensioning," and R. O. Kasten, Director of Research, Union Wire Rope Corp., an Associate member of PCI, presented "Construction of The Lake Pontchartrain Bridge" as his contribution to the panel. W. H. Baskerville, Concrete Engineering Company, Knoxville, Tenn., chose "Practical Aspects of the Manufacture of Prestressed Units" as his topic. The sessions were presided over by L. J. Mulhall, vice president of T. L Herbert Co., Nashville. Our many thanks to Ross Bryan for representing the PCI at this conference.

PCI Specification Available

The new Revised 1957 PCI Specification for pretensioned prestressed concrete is now available from the Institute Publication Office, 3132 N. E. 9th Street, Fort Lauderdale, Florida. Price of single copies to PCI members—50c; non-members, $1.00. In dozen lots—35c to members, 75c to non-members. In quantities of 100 or more—15c to members, 25c to non-members.

PCI JOURNAL EDITORIAL ADVISORY COMMITTEE NAMED

16-Man Group Will Solicit Original Articles For Publication In Quarterly Book.

The PCI JOURNAL is entering its second year of publication. Vol. 1 has come up to all expectations. Volume 2 will be even better. As part of the improvement program, a Journal Editorial Advisory Committee has been appointed to solicit original manuscripts for initial publication in the PCI quarterly. Martin P. Korn, Executive Secretary, is Chairman of a new, 16-man committee formed for this purpose. Serving with Korn will be Professor A. M. Ozell, Journal Technical Editor, College of Engineering, University of Florida, Gainesville.

Fourteen field editors have been named to serve with Korn and Ozell.

They are: Dr. Emil Schmid, Sika Chemical Corporation, Passaic, N. J.; Phillip E. Balcomb, Concrete Products Co. of America, Pottstown, Pa.; Ross H. Bryan, Consulting Engineer, Nashville, Tenn.; Frank Spangler, Empire Building Material Co., Portland, Ore.; L. L. Gerber, The Prescon Corp., Corpus Christi, Tex.; H. Kent Preston, John A. Roebling's Sons Corp., Trenton, N. J.; Alvin R. Schwab, American Steel & Wire, Cleveland, O.; Richard C. Clark, Southwest Structural Concrete Corp., San Diego, Cal.; R. O. Kasten, Union Wire Rope Corp., Kansas City, Mo.; Charles J. Fox, Rods, Inc., Berkeley, Cal.; H. M. Shaw, N. C. Products Corp., Raleigh, N. C.; M. R. Fornerod, Raymond Concrete Pile Company, New York, N. Y.; Robert E. Peacock, Portland Cement Association, Orlando, Fla.; W. J. Blanton, Concrete Structures, Inc., Richmond, Va.

This truly is a most representative board, with members from all phases of the industry and from all sections of the country.

In announcing appointment of the Editorial Committee, Martin Korn indicated that each member should be on the lookout for interesting jobs being erected, unusual designs or manufacturing operations and anything at all that will advance the design, manufacture and construction of prestressed concrete.

A mimeographed "Instructions to Authors" sheet is available which sets forth the mechanical requirements for submitting articles to the PCI JOURNAL. Copies are available from members of the Editorial Committee, the Executive Secretary, or the PCI Publication Office.

We are on the threshold of one of the greatest years in the history of prestressed concrete in this country. All our readers are urged to seriously consider the editorial needs of the PCI JOURNAL, the official spokesman of the industry. Submit your own articles, or put us on the trail of potential contributors. With the help of all of you, the PCI JOURNAL will remain second to none in its field.

STOP !

MAKE PLANS NOW TO ATTEND WORLD CONFERENCE

& 3rd ANNUAL PCI MEETING

San Francisco, California

July 29-August 2, 1957

FROM THE PRESIDENT'S PEN

J. Ashton Gray

The 3rd Annual Meeting of the Prestressed Concrete Institute will be held in conjunction with the World Conference on Prestressed Concrete scheduled for San Francisco, July 29-August 2. At this meeting a revised set of By-laws and a new Charter will be presented to the membership to be voted upon. Your comments and suggestions for changes in the By-laws are urgently solicited prior to publication. Please address all comments to the Executive Secretary's office.

Currently it looks as if 900 delegates will attend the World Conference. Mr. Wayne Palmer of Mobile, Alabama, designer of the Lake Pontchartrain Bridge, the world's longest highway bridge, will be among the distinguished speakers addressing the delegates. T. Y. Lin, Chairman of the Program Committee, indicates that the Conference will feature some 70 papers on precast prestressed members, prestressed thin shells and slabs, and research, design and construction in various countries of the world. Also, the Conference will present commercial exhibits of machinery, tools, prestressing wire, anchorages and related materials by American and foreign suppliers.

If your reservations for the World Conference have not yet been made, take care of them immediately. With the anticipated attendance, it is advisable to make early reservations. Write now to: Department of Conferences and Special Activities, University Extension, University of California, Berkeley 4, Cal.

Vol. 3 MARCH, 1957 No. 3

PCI Items

Published Monthly by

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425 N. E. 5th Street
Boca Raton, Florida

Items of interest should be mailed directly to the EDITOR, PCItems, 3132 N. E. 9th Street, Fort Lauderdale, Florida, before the 15th of each month.

Applications Received for Membership

The following named individuals and organizations have applied for membership in the classification shown.

ACTIVE

Joseph F. Gulde
Crowe-Gulde Prestressed Concrete Co.
P. O. Box 926
Amarillo, Texas

ASSOCIATE

Kenneth C. Geerer
Rodgers Hydraulic, Inc.
949 W. Grant Drive
Des Plaines, Illinois

Don Smith
Bucyrus-Erie Company
Hydrocrane Division
South Milwaukee, Wisconsin

PROFESSIONAL

Hiroshi Muguruma
Department of Architecture
Kyoto University
Sakyo, Kyoto, Japan

Richard M. Gensert
R. M. Gensert & Associates
432, The Arcade
Cleveland, Ohio

Juris G. Ziverts
Greaghan & Archibald, Ltd.
1440 St. Catherine St., W.
Montreal, Canada

J. R. Nixon
Nixon Building Products, Ltd.
207 Tiffin Street
Barrie, Ontario, Canada

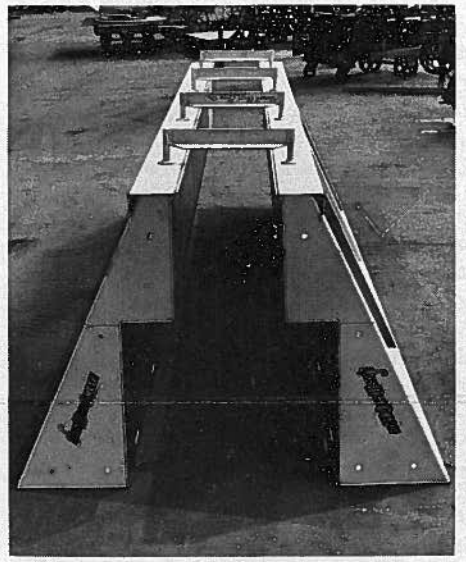
W. C. Sorenson
Neild-Somdal Associates
960 Jordan Street
Shreveport, Louisiana

Henry R. Dunlap
Cherry Lane
Bryn Athyn, Pennsylvania

Horst Orbanowski
10 Plow Lane
Greenwich, Conn.

James Livesey Haydock
c/o H. G. Acres & Co., Ltd.
Dorchester Road, Niagara Falls
Ontario, Canada

PRODUCT NEWS . . .

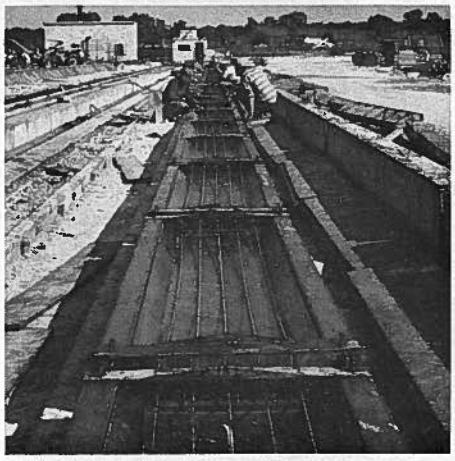


Food Machinery & Chemical Corporation of Lakeland, Florida, has introduced a new "Inverted T" steel casting form. The forms are supplied in 10-ft. lengths which can be connected to provide members of any required length. They are lock-up forms with pilot liners available for various bottom slab thicknesses. The forms produce a prestressed concrete unit designed for use with double tee roof and floor slabs.

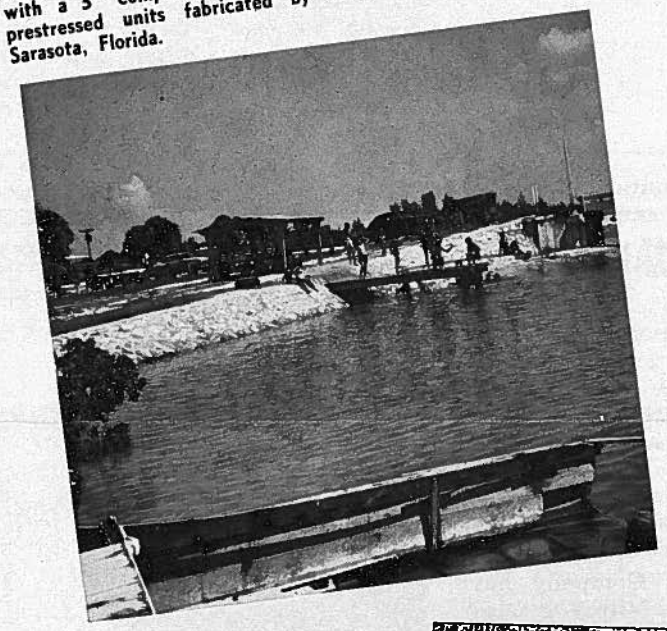
In use, the "Inverted T" members are placed on supporting pillars across the width of the building in as many rows as are required at 60-ft. intervals. The double tees are then placed perpendicularly with the ends supported by the wings of the "Inverted T." When the double tees are in place, the stem section of the "Inverted T" member is sandwiched between the ends of the double tees with consequent greater stability of construction.

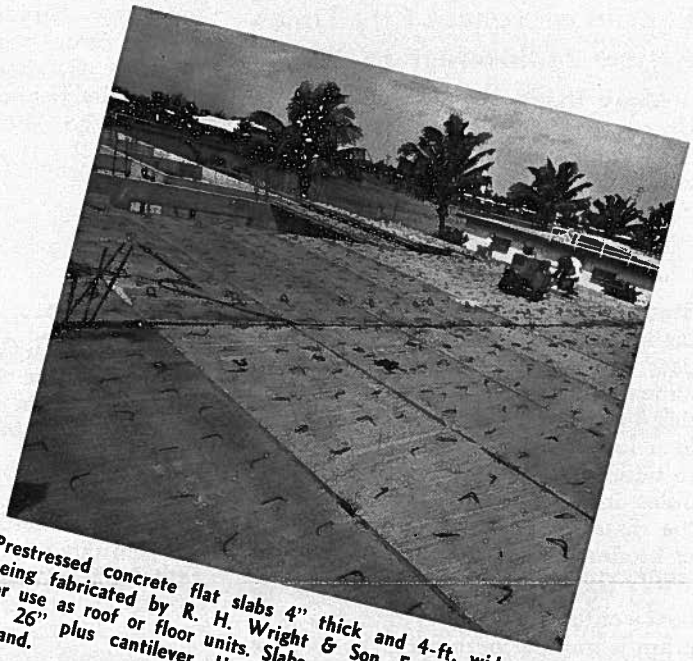
* * *

Plant City Welding & Tank Co., Plant City, Florida, has introduced a new steel barrier form used to cast concrete slabs for groins. The slabs are used in conjunction with "H" piling and are overlapped in installation to provide a quickly erected, sturdy groin. The forms come in 10-ft. sections. The installation shown in the photograph is at the yard of Florida Prestressed Concrete, Inc., Tampa, Florida, and is 230-ft. long.



Picnic cabana of prestressed concrete double tees set on reinforced concrete bents. Table and seats are also of prestressed concrete. Diving dock shown in foreground is made of two prestressed concrete double tee roof sections covered with a 3" compressive slab set on prestressed piling. All prestressed units fabricated by West Coast Shell Corp., Sarasota, Florida.



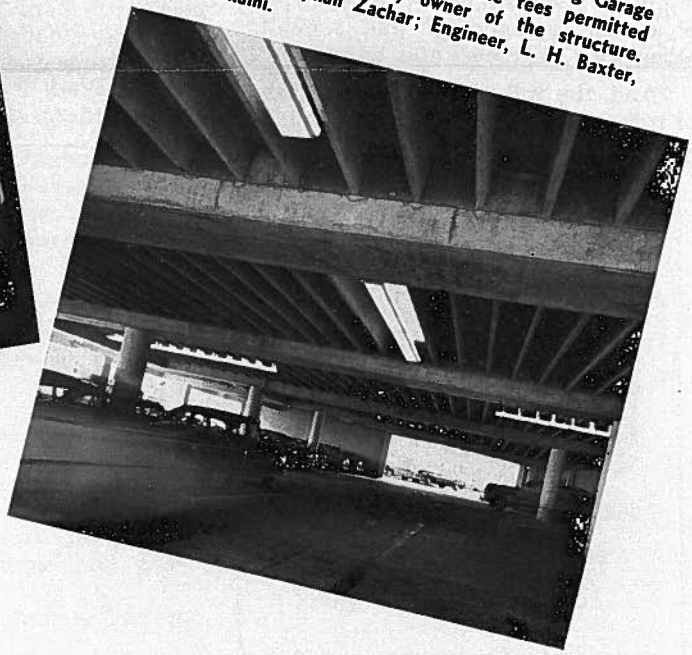


Prestressed concrete flat slabs 4" thick and 4-ft. wide are being fabricated by R. H. Wright & Son, Fort Lauderdale, for use as roof or floor units. Slabs are available in spans up to 26' plus cantilever. Units are pretensioned with 3/8" strand.

Producers' Showcase

Erecting 6' wide, 40' long, 4" thick lightweight pretensioned, prestressed continuous design roof slab for Queen of the Valley Hospital, Napa, Cal. Floor slabs for this three-story precast concrete structure are of similar continuous design. All precast and prestressed units were fabricated and erected by Basalt Rock Co., Inc., Napa, Cal.

Lewis Manufacturing Company furnished prestressed concrete double tees for the Sunshine Parking Garage in Miami, Florida. Use of the double tees permitted column spacing required by owner of the structure. Architect was Stephan Zachar; Engineer, L. H. Baxter, both of Miami.



Reprint of Kansas City Times Article of Interest to PCI

Many thanks to R. O. Kasten of Union Wire Rope Corp. for sending along to us the Kansas City Times article which is reprinted here.

"The Year of Build-up For The Highway Era"

"This is the year that the United States will get ready to build the highway system of the future. By all past standards it is a program of almost fantastic scope. A country that has counted its modern freeways in a few hundred miles is preparing to build an arterial system of 41,000 miles in 13 years. And for most of the distance the goal is construction as modern as the turnpikes.

"At this early stage you begin to hear conflicting reports that the program is moving both remarkably fast and discouragingly slow. Apparently the opinions depend on what each individual expected of the first year. According to prevailing estimates 1957 will show a total construction increase of around 600 million dollars over last year, a substantial step-up on the side of the optimists.

"Such a vast program is a challenge to the national economy. At the start contractors are being forced to wait for delivery of steel with delays of six or eight months in some cases. And this is the situation in the early construction stage. According to the Wall Street Journal this bottleneck may necessitate a shift from steel to prestressed concrete. When construction approaches its peak it will produce a tremendously increased demand for everything, for many types of machinery, cement and asphalt, along with engineers and labor.

"And, the full plan of the program of today may be only a broad hint of tomorrow. Building to the scale of such a vision creates its own demand for more and more. This year, in fact, marks the beginning of an unprecedented era and no limits are in sight."

PCItems . . .

The Prescon Corporation of Corpus Christi, Texas, has announced the opening of an office in Atlanta, Georgia, with William A. Noble in charge.

The Prescon Corporation manufactures post-tension tendons for prestressed concrete. The Atlanta office will furnish engineering and sales service as well as job supervision.

* * *

Calaveras Cement Company has appointed William G. Jeffrey as sales manager and also has set up two regional divisions.

Jeffrey has been manager of Calaveras dealer sales since 1954. He joined the company in 1949.

The new regional division managers will be James Casey, former supervisor of contractor salesmen, and Jack Gordon, former contractor sales representative in Oakland.

* * *

B. A. Hesketh, Professional Engineer with many years' experience in prestressed concrete, wishes position in prestressed concrete field. Write B. A. Hesketh, P. O. Box 101, Victoria Station, Montreal P.Q., Canada.

PHOTOGRAPHS NEEDED!

Concrete Manufacturer magazine is looking for photographs of prestressing layouts for a future article. They want close-ups of various equipment used, such as forms, jacks, tensioning devices, vibrators, camber control devices, cable depressors, strand and other equipment or material used in the fabrication of precast prestressed concrete.

Active and Associate members of PCI are urged to send such photographs to: Mr. Roy Peck, Editor, Concrete Manufacturer, 431 So. Dearborn St., Chicago, Ill. Mention this article when corresponding with him, please.

Capitol Concrete Co., Jacksonville, Florida, is currently producing prestressed concrete piling 20" square at the rate of 400 linear feet per day for State Road Department bridge over Trout River at Jacksonville's north city limits. The 732-ft.-long bridge will require a total of 7,800 lin. ft. of piling varying in lengths from 59 to 66 ft. Duval Engineering & Construction Co. holds the $483,-514 contract.