INDUSTRY NEWS

Student Award Winners

The 6th Annual Architectural Precast Concrete Student Design Awards Program, sponsored by the Prestressed Concrete Institute and Canadian Prestressed Concrete Institute, drew 40 entries from 18 architectural schools. From these entries, three were designated as winners and two received honorable mentions.

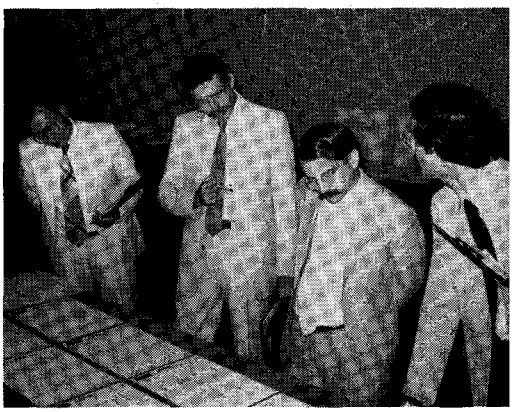
Entries were required to demonstrate an understanding of proper application, function and detailing, using architectural precast concrete as the primary exterior material.

The prominent panel of judges was chaired by **Eugene Kremer,** head of the Kansas State University Department of Architecture and president of the Association of Collegiate Schools of Architecture. Other jurors included: **Richard Rush,** senior editor of *Progressive Architecture* magazine; **George Schipporeit,** head of the Department of Architecture at Illinois Institute of Technology; and **Bernard Bortnick,** Hellmuth, Obata & Kassabaum, Inc.

First place was awarded to a design by **André Boucher** and **Dominique Dubé,** Université Laval, Quebec, Canada, for their design of a housing development project in Mexico. This design solution for the buildings is highly amenable to precasting.

The jury felt their work was ambitious and extremely well conceived. This entry, more than any other, impressed them with the depth of thought that went into it. They thought the architectural characteristics of their solution and the site considerations were excellent.

The designer of the second place project was **Zachary W. Davis,** Washington University, St. Louis, Missouri. Third place was awarded to **Catherine Roha,** University of California at Berkeley.

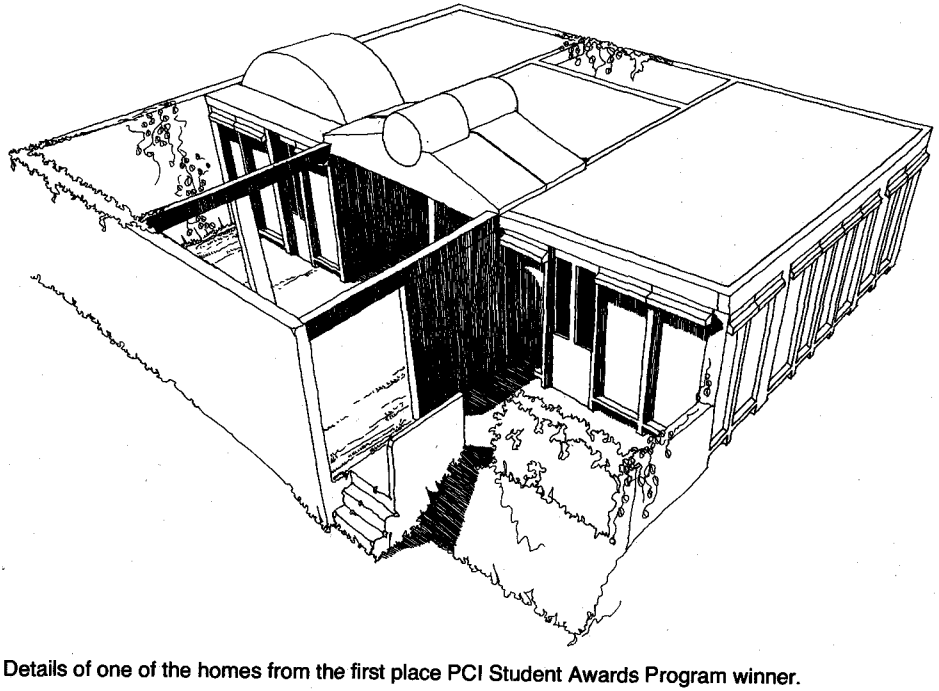


Student awards jury judging entrants: (from left) George Schipporeit, Bernard Bortnick, Richard Rush, and Professor Eugene Kremer.

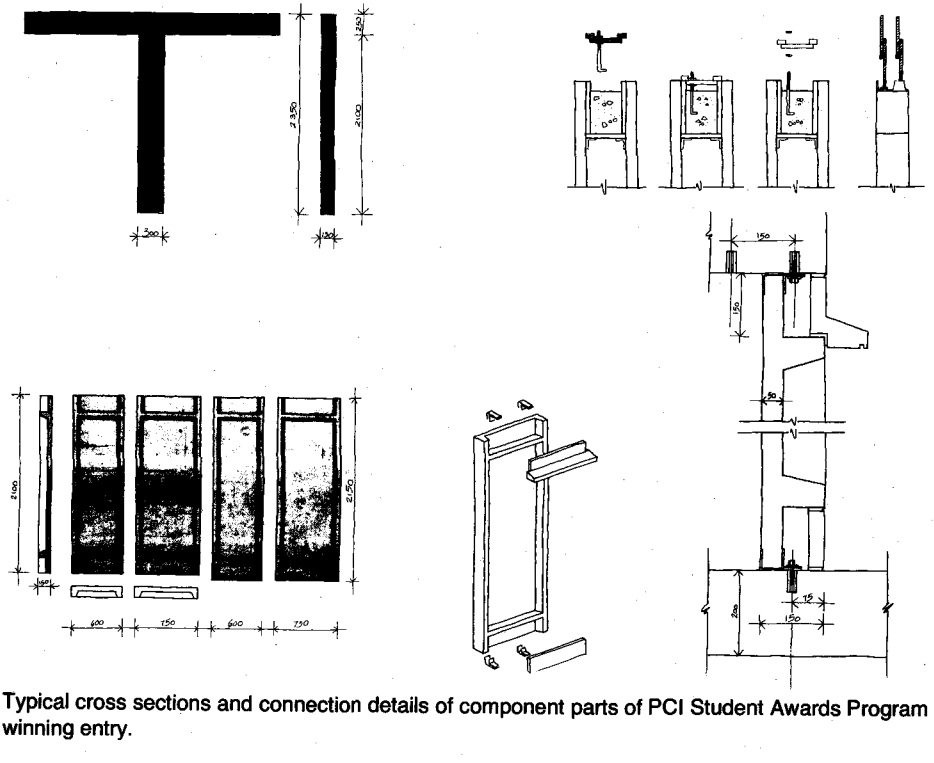
Honorable mentions went to two projects. One designed by **John J. Isch,** Ball State University, Muncie, Indiana, and the other designed by **Cynthia G. Ethington** and **Gregory T. Baum,** University of Wisconsin at Milwaukee.

PCI Technical Committee News

- PCI's Technical Activities Committee, along with 14 of the 17 technical committees, will meet during the PCI Annual Convention in Los Angeles to keep working toward achieving 1981 goals. Of the 14 committees, 8 or 9 will be working on either draft or final committee reports.
- The Research Committee (**John R. Salmons,** chairman) approved a second Research Fellowship program, for the year 1981-82, at North Carolina State University to study "Ultra High Strength Concrete—Applications, Material Properties, Design Criteria." The committee also developed a report on "Research



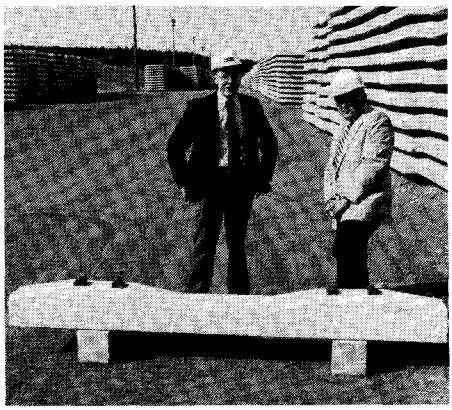
Details of one of the homes from the first place PCI Student Awards Program winner.



Typical cross sections and connection details of component parts of PCI Student Awards Program winning entry.

Needs of PCI for 1982," which is a tabulation of the 10 most needed research topics with general descriptions of the anticipated research. This summary report is based on the industry-wide survey that was conducted by the committee earlier in the year. From the survey, the committee also tabulated new research topics recommended by PCI members responding to the survey, and these will be evaluated by the committee.

- The Building Code Committee (**A. H. Gustaferro,** chairman) received a first draft revision of Chapter 16, Precast Concrete, in the current ACI Building Code (ACI 318-77). Comments will lead to a second draft that will be reviewed in depth at the Convention meeting.
- The Committee on Prestressed Concrete Poles (**T. E. Rodgers, Jr.,** chairman) will consider review comments received from TAC on a "Guide Specification for Prestressed Concrete Poles" and on a committee report on "Guide for Design of Prestressed Concrete Poles." These actions should bring the two reports along to early publication.
- The Committee on Precast, Prestressed Concrete Storage Tanks (**M. Z. Arafat,** chairman) is reviewing a state-of-the-art report on "Precast Concrete Storage Tanks" which summarizes details and information on an imposing list of precast, prestressed concrete storage tanks built in the U.S. and Canada. The first draft was prepared by committee member **Maher K. Tadros.**
- TAC is happy to report that **Suresh S. Gami,** Conrad Associates East, Chicago, Illinois, has accepted appointment through 1983 as chairman of the Committee on Parking Structures. Former chairman **Arthur R. Meenen** was forced to resign because of increased work activity in the consulting firm with which he is associated. The smooth transition should keep this important committee moving forward.



Standing by the one-millionth concrete crosstie produced at San-Vel for the Amtrak Northeast Corridor modernization program are **Lewis Troxell** (right), San-Vel president and **Victor Burton,** project director. San-Vel Concrete Corporation is Lone Star's concrete products subsidiary near Boston. The ties are produced there under a joint venture. The 450-mile (724 km) rail trackbed between Boston and Washington is being upgraded for 120-mph (193 km/hr) passenger service.

Goodson Joins Goodson Consulting Engineers

David M. Goodson has joined Raymond L. Goodson, Jr., Inc., consulting engineers of Dallas, Texas, as an associate and manager of the firm's newly-formed Structural Division.

Prior to joining Raymond L. Goodson, Jr., Inc., Mr. Goodson was project manager for the Datum-Moore Partnership in Dallas.

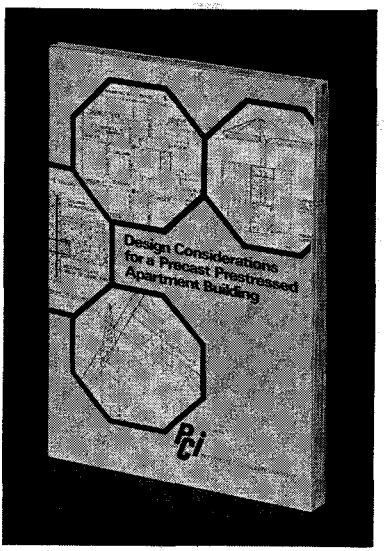
New Engineering Firm

Dr. Douglas S. Porter and **C. Michael Donoghue** have formed Porter Associates, Austin, Texas, a structural and civil engineering firm. They have both been active in the consulting field in the southwest for several years.

Offices of the new engineering firm are located at 402 W. Seventh St., Austin, Texas 78701.

Here-in one place-is a step-by-step design procedure for a high-rise precast prestressed concrete building from concept to construction.

Design Considerations for a Precast Prestressed Apartment Building



Fifteen nationally prominent consulting engineers apply their expertise to the various aspects in the design and erection of a typical high-rise precast prestressed concrete building. *Result*: a clear picture of the design procedure following the usual order of solution by a designer in a typical engineering office.

Although a computer was used to facilitate the calculations, in general, the solutions are presented "long hand" to emphasize the logical steps.

Each of the eight chapters were presented to a group of engineers with varying backgrounds in a seminar. This living test of the clarity and practicality of the explanations assures the usefulness of the book as an easily understandable guide.

The eight chapters are:

Design Problem—Eugene P. Holland, Laurence E. Svab.
States the problem to be solved and discusses the basic design decisions and assumptions required.

Analysis of Lateral Load Resisting Elements—John V. Christiansen.
Presents a detailed analysis of the lateral load resisting elements following the requirements of the Uniform Building Code.

Design of Load-Bearing Wall Panels—Charles H. Raths.
Treats the design considerations and designs procedures used as well as the detailed numerical calculations of a typical wall panel.

Design of Secondary Floor Members—Michael H. Barrett, Neil F. Dunbar, David D. Gillaspie.
Covers the design considerations and solutions for the design of the floor system.

Design of Frame—Richard M. Gensert, Miklos Peller, Kirit Parikh, Richard Y. Fujita.
Gives the step-by-step design calculations for the girders and columns including a commentary on the computations.

Design of Prestressed Concrete Pile Foundations—George C. Fotinos.
Discusses the various design considerations that enter into pile selection and presents the detailed design calculations for a typical prestressed pile foundation.

Design for Erection Considerations—Alfred A. Yee, Fred R. Masuda.
Covers the design decisions regarding equipment and erection procedures and supplements them with detailed numerical calculations.

Design Against Progressive Collapse—Alexander Popoff, Jr.
Proposes a design philosophy and design criteria to guard against progressive collapse from which connection details and reinforcement requirements are derived.

Extremely valuable for both constant use and for easy refererence (the book is fully indexed), this authoritative volume should be readily available to every engineer and architect.

Soft cover, 6x9 in., 224 pp., $10.00 (Originally appeared as a series of articles in the Journal of the Prestressed Concrete Institute.)

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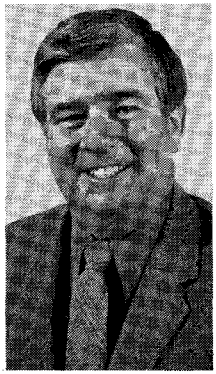
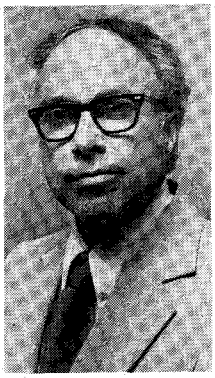
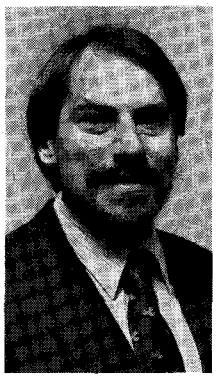
Stan Ruden


Bill Whitcher


J. D. Schafer


Ron Huffman

Stanley Expands

Denver-based Stanley Structures has begun construction on a new $3 million precast prestressed concrete plant in Phoenix, Arizona.

When in full operation, the plant will manufacture both architectural and structural components including double tees, beams, columns, and highway bridge girders. This will be the tenth operation for Stanley Structures which manufactures both precast prestressed concrete and structural steel components.

The new prestressed plant will be located on a 47.6-acre site in Phoenix. It will employ approximately 250 people within 2 years.

Stan Ruden, previously sales manager in Colorado, has been named as general manager of the Phoenix concrete plant. Mr. Ruden joined Stanley Structures 12 years ago.

Prior to that, he was a bridge engineer with Ken R. White Company. Mr. Ruden will be managing all sales, engineering, production, erection, and administrative operations of the new plant.

Bill Whitcher has been named sales manager of the new plant, responsible for all sales and estimating activities. Employed by California Portland Cement Company for 10 years, he most recently was vice president of sales of the Spancrete subsidiary.

Replacing Mr. Ruden as sales manager for Colorado operations is **J. D. Schafer,** an 8-year employee with Stanley Structures Denver operations. He will be responsible for sales and estimating for the products of Stanley Structure's two Denver architectural and structural plants. Prior to his appointment as sales manager, Mr. Schafer held a similar managerial position as engineering department manager.

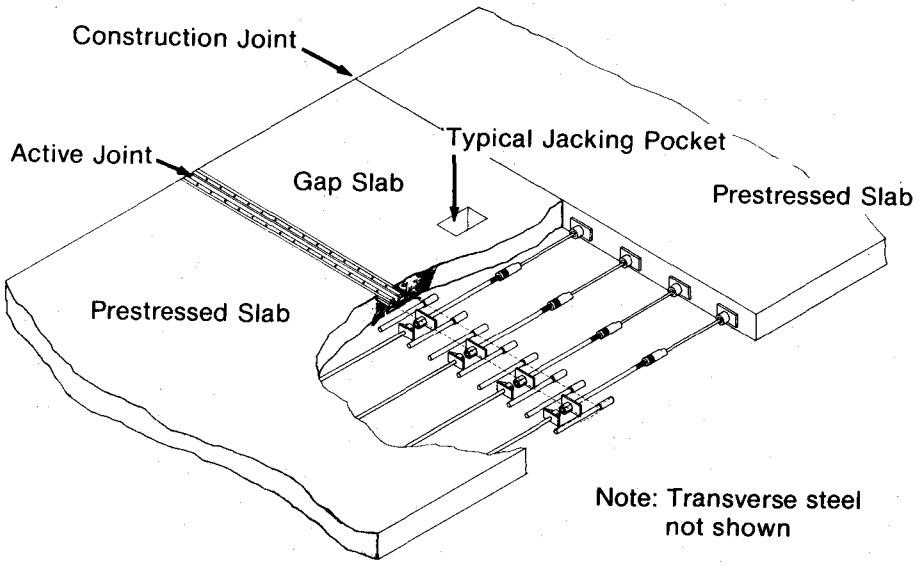
Named to Mr. Schafer's previous position as engineering manager was **Ron Huffman,** who has been with Stanley Structures for 2 years.

Mr. Huffman is responsible for all engineering department projects for Stanley Structure's two Denver plants. He also has 6 years previous experience as a consulting engineer.

Promotions at Fling

Abdul Ghowrwal has been named silo service manager and **Fred A. Hunt** named group manager of R. S. Fling & Partners, Inc., Columbus, Ohio.

The firm recently received a first place citation in the 1981 Engineering Excellence Awards Competition sponsored by the Ohio Association of Consulting Engineers and the American Consulting Engineers Council. The award was for the firm's conversion design of 36 abandoned silos into a Hilton Inn in Akron, Ohio.



Details of joint design for "zero maintenance" highway by PCA's Concrete Technology Laboratories.

Designs Completed for Zero-Maintenance Concrete Pavements

The Concrete Technology Laboratories at the Portland Cement Association has completed work to develop prestressed concrete pavement designs for premium "zero-maintenance" highways. The work was sponsored by the Federal Highway Administration (FHWA).

The project consisted of developing joint designs compatible with prestressed slabs, establishing a thickness design procedure, and preparing design and construction manuals.

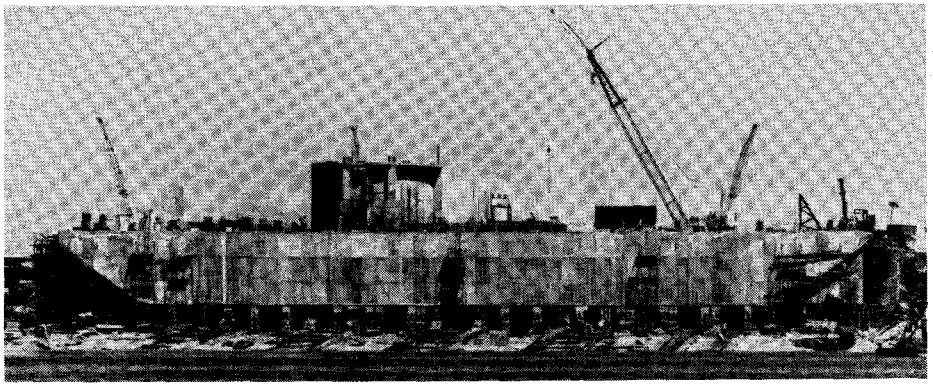
The design manual describes four alternate joint designs. Strip seal, cover plate, or compression seal joints are used with a gap slab. Thickness design takes into account minimum slab longitudinal prestressing and stresses due to differentials in slab temperature and moisture. The construction manual will provide the necessary construction details for contractors unfamiliar with prestressing techniques.

Mills Joins Misener Marine

Harry L. Mills has become manager of engineering for Misener Marine Construction, Inc., St. Petersburg Beach, Florida. Mr. Mills was previously with Figg & Muller Engineers, as the resident engineer on the Long Key Segmental Bridge, and with the Corps of Engineers. His primary responsibility in his new job will be development and management of design-build projects.

Corotia Joins John Hopkins

Dr. Ross B. Corotia has joined the faculty of Johns Hopkins University as professor of civil engineering in the Department of Civil Engineering, Materials Science, and Engineering. Prior to coming to Johns Hopkins he was associated with the Department of Civil Engineering at Northwestern University in Evanston, Illinois, for 11 years.



"Football field size" barge under construction.

Giant Concrete Barge Floats From Singapore To California

A Hawaii structural engineering firm has designed an unusual concrete barge utilizing "honeycomb" construction. The barge was recently launched in Singapore and is now "floating" its way across the seas to Baja, California.

The architectural concept and engineering design were developed by Alfred A. Yee & Associates of Honolulu, Hawaii. This innovative development is believed to advance the state of the art and technology of prestressed concrete barges and platforms. This particular barge is nearly the size of a football field and measures 260 x 110 x 24 ft (79.3 x 33.5 x 7.3 m).

The first honeycomb barge to be built will be used as a floating platform support for a phosphate mining/processing facility. It was constructed by Robin Shipyard in Singapore under the supervision and design of the Yee firm. The barge will be owned and operated by Roca Fosforica Mexicana, a phosphate mining and processing firm in Baja, California.

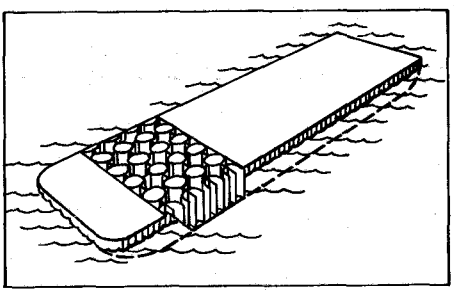
The concept of the honeycomb barge is being used for other applications including transport vessels, oil storage platforms, drilling platforms, and even LNG plants.

Alfred A. Yee, president of the design firm said that: "Concrete barges offer many advantages. The barges need relatively low capital investment and will be virtually maintenance free, requiring no drydocking or "down time."

The honeycomb design concept for concrete is indeed unique. The system incorporates a honeycomb "sandwich" panel concept with the core being multiple interconnected cylindrical cells, compositely joined top and bottom by prestressed concrete slabs.

The initial construction to the date of launch required 14 months for the facility to be completed. The time required for towing the enormous facility across the Pacific Ocean from Singapore to Baja, California is estimated to be 66 days.

Once in place the floating plant is expected to provide service for at least 80 years without drydocking.



Details of "Honeycomb" design of barge.

Messer Dies

Elizabeth Messer, the manager of The Jayhawk Fibre Form Co., Division of Lawrence Paper Co., Lawrence, Kansas, died on August 12, 1981. She was 48 years old.

Her career with The Lawrence Paper Company began in June, 1950. She worked her way up through the ranks to become the manager of the Construction Products Division, a position she held for twenty years.

Ms. Messer had a special loyalty to the prestressed concrete industry. Largely through her efforts, The Jayhawk Fibre Form Division received the "Associate Member Award" from the Prestressed Concrete Institute at the 1979 PCI Annual Convention.

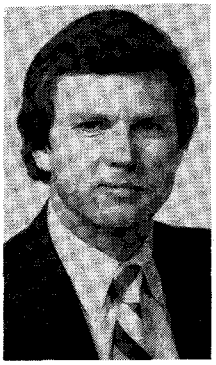
Short and Medium Span Bridge Conference

The Canadian Society for Civil Engineering along with several other organizations is sponsoring an "International Conference on Short and Medium Span Bridges," August 8-12, 1982 in Toronto, Canada.

The conference is intended to provide a world wide, state-of-the-art forum on short and medium span bridges. The emphasis of the program will be on aspects of immediate interest to the practicing bridge engineer. The sponsors are interested in obtaining papers on the following subjects: evaluation and rehabilitation of bridges, project description, project analysis and design, bridge maintenance, bridge codes, full-scale and model testing, bridge construction, research and development, bridge aesthetics and historical bridges.

For more information on the conference or submitting a paper contact: **Dr. Roger Dorton,** Chairman, Organizing Committee, Structural Office, Ontario Ministry of Transportation and Communications, 1201 Wilson Avenue, Downsview, Ontario M3M 1J8 Canada.

Elizabeth Messer



William E. Jennings

Jennings Becomes VP at Metromont

William E. Jennings has been promoted to vice president at Metromont Materials Corporation in Greenville, South Carolina.

Mr. Jennings will continue as general manager of the Prestress Concrete Division and the Crane and Rigging Services Division, both in Greenville, South Carolina. Prior to joining Metromont in 1976 Jennings was associated with Gifford-Hill, Atlanta. He has been actively involved in the prestressed concrete industry and related fields for over 18 years.

FIP 1982 Congress

A new tax law and a special PCI tour will make attending the Ninth International Congress of the FIP in Stockholm, June 6-10, 1982, less costly than previously realized.

The PCI Board of Directors has voted to meet in Stockholm just prior to the FIP Congress, and all other members are invited to join them. Members wanting to attend should contact PCI quickly.

The new tax law on foreign conventions, H.R.5973, will allow PCI Members attending the FIP the same deductions as a meeting held in the United States. The PCI tour to Stockholm will reduce transportation costs as well.

The FIRST comprehensive design manual on architectural precast concrete

Architectural Precast Concrete contains information never before available. It deals in depth with precast concrete design problems and solutions. Packed with facts, photographs and design details!

Many years of practical experience of knowledgeable designers and producers have been distilled into fundamental principles. This hard-won insight into design problems and solutions provides you with explicit guidelines to help you achieve your design objectives quickly, easily and economically.

Logical Format. You're taken through a logical progression of design development from concept to specifying. Guidelines for economical precast concrete design are included. Plus vital "do's" and "don'ts" of precast concrete design.

PARTIAL CONTENTS

Design Concepts. Total wall analysis. Load-bearing and self-supporting wall panels. Panels used as formwork, shear walls, curtain walls. Repetition and the master mold concept. Cost factors, quality and economics. Typical applications.

Design Considerations. Shape, form and size considerations. Colors and textures. Weathering effects. Structural design and erection considerations. Tolerances and joints. Performance specifications. System building trends.

Detailing. Examples of working drawings. Comprehensive coverage of finishes, weathering, reinforcement. Connections, tolerances and joints. Relations to other systems and materials.

Specification Considerations. Design, materials and quality control. Manufacture, handling, transportation and erection. Joints and joint sealants. Related specifications. Short-form specification for small projects is included.

Hard cover, 8½" x 11", 173 pages packed with 175 photographs and 115 drawings!

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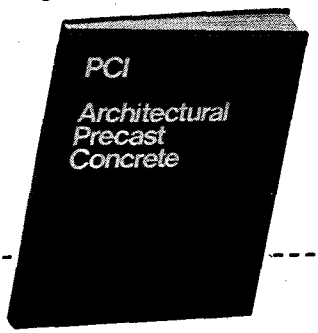

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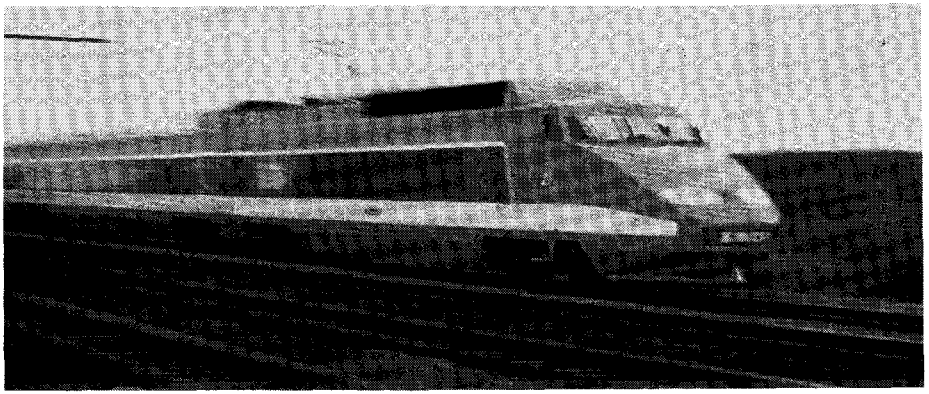


France's new high speed train on its inaugural run.

Transportation Breakthrough

A new era in transportation opened September 22 when France's new high speed train, the fastest in the world, made its inaugural run from Paris to Lyon at speeds of up to 156 miles per hour (250 km/hr).

The bullet-nosed TGV (*train a grande vitesse* or high speed train) made the 300-mile (480 km) trip in 2 hours 32 minutes, an hour and 12 minutes faster than a regular express and even quicker than a plane when trips to the airport are taken into account. The fare will also be less than air travel.

A key to this transportation breakthrough was the development of a special track system. It is interesting to note that part of this system consisted of precast two-block reinforced concrete ties.

PCI Seminars Attract 250

The two seminars on Precast and Prestressed Concrete Uses and Design Concepts for Buildings and Bridges had a total attendance of 250 individuals.

Topics of the seminars included: recent developments in bridge design; fire resistive construction with precast prestressed concrete; up-to-date design considerations: PCI Design Handbook (Second Edition); and connections. Featured speakers included: **James M. Barker,** Lochner Setec, Inc.; **Sidney Freedman,** Prestressed Concrete Institute; **Leslie D. Martin,** The Consulting Engineers Group, Inc.; and **Walter J. Prebis,** Colorado Prestressers Association.

The Prestressed Concrete Institute and the Precast/Prestressed Producers of Illinois sponsored the seminars held on September 15 and 16, 1981, in Chicago and Springfield, Illinois.

McCune Named VP at 3D/International

James McCune has been named vice-president of civil and structural engineering for 3D/International in Houston, Texas. Mr. McCune is a graduate of the University of Dublin, Ireland.

Newlon Heads Research Council

Howard H. Newlon, Jr., is the new head of the Virginia Highway and Transportation Research Council. Mr. Newlon joined the council staff in 1956. He spent 14 years in charge of concrete research and since 1972 has headed the council's history research. He was named assistant head of the council in 1968 and has been associate head since 1975.

SEGMENTAL CONCRETE BRIDGE CONFERENCE

The "Segmental Concrete Bridge Conference" will be held March 9-10, 1982 at the Hilton Airport Plaza Inn in Kansas City, Missouri. (This conference has been renamed from the "Second Long Span Concrete Bridge Conference.")

Similar to the conference held last year in Hartford, the PCI will be co-sponsoring the event along with the PCA, PTI, CRSI, and FHWA.

The purpose of the conference is to present and discuss the latest information on the design, construction and economics of long span segmental bridges.

For more information on this conference contact the PCI.

TECHNICAL PROGRAM

TUESDAY, MARCH 9, 1982

8:30 a.m.

Welcome and Introductions, *Gordon K. Ray,* Portland Cement Association.

Update—What is Going on in North America? *Daniel P. Jenny,* Prestressed Concrete Institute.

9:00 a.m.

Session 1—Evolving Concepts

Presiding: *Stanley Gordon,* Chief, Bridge Division, Federal Highway Administration, Washington, D.C., Secretary, AASHTO Subcommittee on Bridges and Structures.

Keynote, *Jean Muller,* Figg and Muller Engineers, Inc.

Status of Segmental Bridges in Europe, *Peter Matt,* Losinger, Ltd., Switzerland.

General Types and Considerations, *James M. Barker,* Figg and Muller Engineers, Inc.

Design Considerations for Segmental Bridges, *John E. Breen,* University of Texas.

Standardization of Prestressed Concrete Segmental Box Girder Segments, *Felix Kulka,* T. Y. Lin International.

1:30 p.m.

Session 2—Design Specifics

Presiding: *John Hanson,* Wiss, Janney, Elstner & Assocs., Chairman, TRB Committee A2C03-Concrete Bridges.

Design of the 1205 Bridge, *Allen C. Harwood,* Oregon Department of Transportation.

Segmental Bridges from the Contractor's Viewpoint, *John Otter,* Kilmer, Van Nostrand Co., Ltd., Canada.

A Concrete Cable Stayed Bridge Over the Ohio River, *Arvid Grant,* Arvid Grant and Associates.

What Have We Learned from Instrumentation of Box Girder Bridges, *Henry Russell,* Portland Cement Association.

Specifications for Segmental Concrete Bridges—A Panel Discussion, *Lynn Kirby,* Guy F. Atkinson Company; and *Hubert Janssen,* BVN/STS, Inc.

WEDNESDAY, MARCH 10, 1982

8:30 a.m.

Session 3—Construction

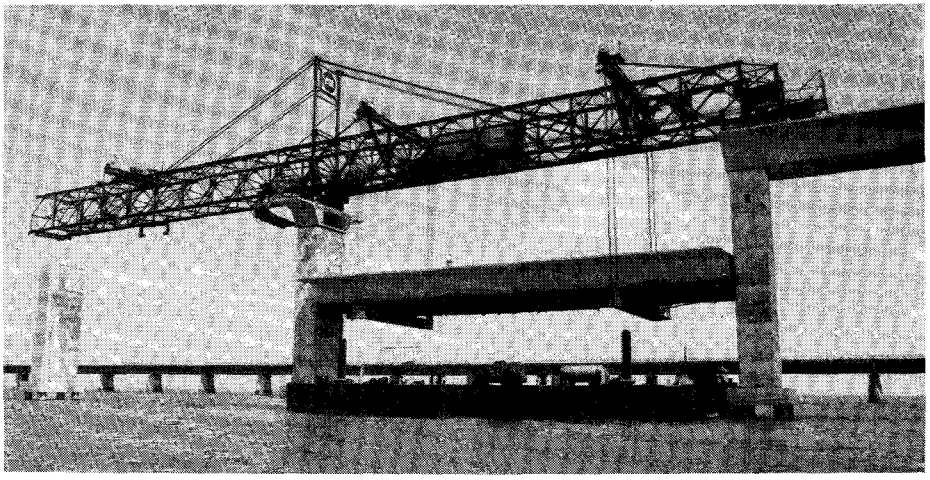
Presiding: *John Kohnke,* S. J. Groves Company.

Zilwaukee Bridge Construction, *Gerald J. Casey,* Michigan Department of State Highways and Transportation.

Construction Problems and Solutions on the I205 Columbia River Bridge, *Ben C. Gerwick, Jr.,* Consultant.

Houston Ship Channel Bridge Construction, *Steve Quinn,* HNTB.

Seven Mile Bridge Construction, *Dave Swanson,* VSL Corporation.



Segmental Construction Procedures, *Don Ward,* Dywidag Systems International.

Bidding Practices for Major Bridges—A Panel Discussion, *Martin Kelley,* Peter Kiewit Sons' Co.; *Walter Podolny, Jr.,* Federal Highway Administration; and *Theodore H. Karasopoulos,* Maine Department of Transportation.

1:30 p.m.

Session 4—Construction

Presiding: *Jack Freidenrich,* Chief Engineer, New Jersey DOT, Chairman, AASHTO Subcommittee on Bridges and Structures.

Development of the Concrete Quality Control Procedures on a Segmental Bridge, *Donald W. Pfeifer,* Wiss, Janney, Elstner & Associates.

Post-tensioning of Segmental Bridges, *Clifford L. Freyermuth,* Post-Tensioning Institute.

Geometry Control During Construction, *Brice Bender,* BVN/STS, Inc.

Epoxies for Segmental Construction, *Henrik Graham,* ICBA-Geigy-Canada Ltd., Canada.

Wrap Up: Segmental Concrete Bridges—Some Design Issues and their Optimization for American Constructors, *T. Y. Lin,* T. Y. Lin International.

Shah Joins Northwestern University

Dr. Surendra P. Shah has joined the faculty of Northwestern University as a professor of civil engineering.

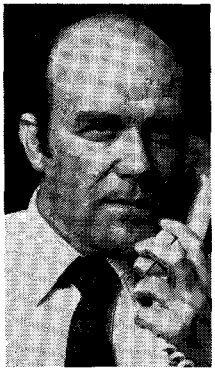
Prior to joining Northwestern, he was professor of civil engineering at the University of Illinois at Chicago Circle. Dr. Shah is heavily involved in teaching and research in concrete materials and structures, both nationally and internationally.

Professor Shah is a member of the PCI Committee on Glass Fiber Reinforced Concrete Panels.

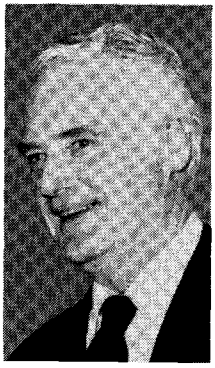
Kelly Appointed Chief Engineer

David L. Kelly has been appointed chief engineer for the Concrete Accessories Group of The Burke Company, headquartered in San Mateo, California.

Mr. Kelly has held various engineering positions with The Burke Company since joining the firm in April 1960. He was named district engineer with responsibility for managing customer engineering for Northern California in June 1963 and stepped up to division engineer in October 1967 with management duties covering three divisions.



Skip Hall



A. A. MacDonald

Hall Promoted at Preco

Skip Hall has been named manager of the Steel Molds Division of Preco Industries, Ltd., headquartered in Plainview, New York. The appointment follows the recent acquisition by Preco of exclusive, worldwide distribution and marketing rights to Norwalk Steel Molds for concrete products.

Mr. Hall has been actively involved with product design, sales, and many other aspects of the mold business for over 10 years.

Promotions at Macon

John H. Grogg, Jr. has been named district manager, sales, and **Lawrence D. Gilbert** named production manager of Macon Prestressed Concrete Company's Columbia, South Carolina, plant.

The changes represent major responsibilities for Messrs. Grogg and Gilbert in a period of growth and expansion in the market and sales efforts in the South Carolina and Eastern Georgia areas, according to William C. Boswell, Jr., executive vice president.

Mr. Grogg, a Macon 8-year employee, has worked in the prestressed concrete industry since 1955. He has six years experience in sales with Macon Prestressed Concrete Company, four of which were in sales in the Atlanta area and two as sales manager at the Columbia plant. In 1978 he became plant manager, Columbia, and held this position until his current promotion.

Mr. Gilbert began his employment at Macon Prestressed Concrete Company in 1964 at the Macon plant. Twelve of his fifteen years were in the capacity of plant superintendent, the position which he held at the Columbia plant until his latest promotion. He has also worked as production coordinator and has done time studies. He is a graduate of Southern Tech, Marietta, Georgia.

In addition to the Columbia plant, Macon Prestressed Concrete Company maintains two plants in the Atlanta area and one plant in Macon, Georgia.

Patterson and Cowan Open Chicago Office

Patterson and Cowan Associates have opened a new office at 20 North Wacker Drive, Chicago, Illinois. According to **John D. Cowan,** "This expansion will allow us to better serve the Chicago market area and our many customers." The firm handles products for the prestresser.