

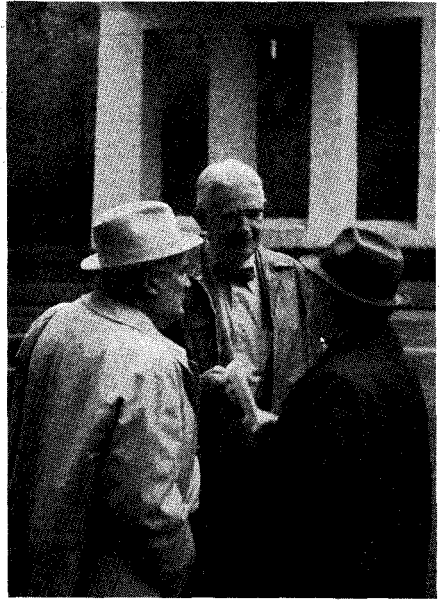
INDUSTRY NEWS

Walnut Lane Bridge Named "Outstanding Achievement"

The Philadelphia Section of the American Society of Civil Engineers (ASCE) honored the first prestressed concrete bridge built in North America by including Walnut Lane Bridge as an ASCE "Outstanding Civil Engineering Achievement."

Ceremonies were held on May 5th at the site of the bridge. Those responsible for the design and construction of Walnut Lane Bridge (considered a daring venture in the late 1940s) included long-time PCI Member **Charles C. Zollman**, then-engineer for the Preload Corporation—fabricators of the bridge's components, **Samuel S. Baxter**, then-chief engineer for Philadelphia's Bureau of Engineering, Surveys and Zoning, and **Max Barossky**, then-assistant to Baxter, in charge of field construction.

In his address at the re-dedication, Samuel Baxter mentioned that 27 years ago this bridge and the concept of pre-

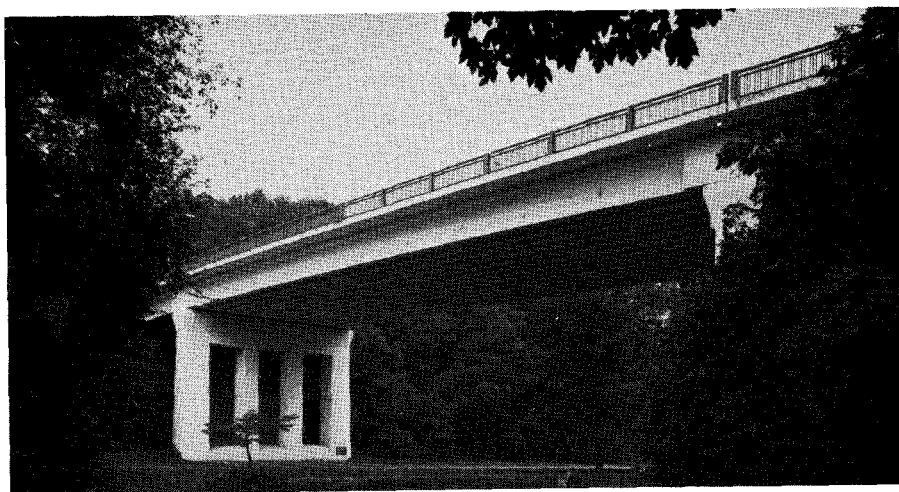


Charles Zollman, Samuel Baxter and Max Barossky (left to right).

stressing was considered futuristic. "I wonder what the next 25 years will hold



Philadelphia officials attending the ceremonies included (l-r), **Robert Rowland**, district engineer for PennDOT, **Sidney Robins**, chairman of the ASCE historical committee; **Brian Lewis**, president of local ASCE; **Robert McConnell**, director of Fairmount Park; **Samuel Baxter**; **Charles Zollman**; and **James McPhillips**, chief engineer and surveyor, Dept. of Streets.



Philadelphia's Walnut Lane Bridge in Fairmount Park.

for prestressed concrete; what other applications will come from this amazing concept."

The bridge was completed in 1950. It is located in a natural setting of Philadelphia's Fairmount Park, the nation's largest park to be contained within city limits. The original intention of the Art Jury for Philadelphia was to construct an arch bridge with stone facing. This proved prohibitively expensive. A feasible alternative, one that stayed within budget and still provided an esthetically and structurally sound design, was to build the structure with prestressed concrete.

Professor **Gustave Magnel** of Belgium, a prestressing pioneer, was retained as designer. He directed the Preload Corporation in fabricating the components of this bridge with its daring 160-ft spans.

The ceremonies were also attended by **Brian Lewis**, president of the Philadelphia Section of the ASCE, **Sidney Robins**, Chairman and Editor of the Publications Committee and several distinguished officials of Philadelphia's water, transportation, public works and engineering departments.

The year 2000 marks Walnut Lane Bridge's fiftieth anniversary.

PCI Technical Committee News

The Technical Activities Committee (TAC), **John M. Hanson**, chairman, completed its review of the *PCI Design Handbook*, Second Edition and recommended to the Board of Directors that it be published pending a satisfactory "Blue Ribbon" review. The Board accepted this recommendation. The Blue Ribbon review teams (five consulting engineers, seven plant engineers) met on May 15-16 and approved the proposed draft of the Second Edition. Publication is scheduled for the end of August.

TAC has scheduled its summer meeting for June 25-26. A brief report on the decisions reached at this meeting will be given in the next issue of the JOURNAL.

- The PCI Committee on Connection Details, **Donald W. Pfeifer**, chairman, met during Committee Days. Most of the discussions and decisions related to new connection design recommendations that will appear in the *PCI Design Handbook*, Second Edition. The report on a modified, shear-friction design approach by committee member, **A. Fatah Shaikh**, was published in the March-April 1978, *PCI JOURNAL* and

will appear in the Design Handbook. Because the state-of-the-art on connection design is changing, the Committee decided that a second edition of the *Connection Design Manual* should be finalized and published. The Committee is working toward this goal.

- The PCI Committee on Fire, **James R. Gaston**, chairman, met during Committee Days and approved two activities requiring budgeted funds. One is an on-going program of consulting service by The Consulting Engineers Group to monitor and be involved in pertinent topics in the area of fire resistance for the model codes (ICBO, BOCA, SBCC), National Building Code of Canada, Underwriters Laboratories, ASTM Committee E5/E49, ISO, AIA, and other similar organizations that develop fire-related provisions.

The second activity of the Fire Committee is a new program wherein PCI has joined with others in the Concrete and Masonry Industry Firesafety Committee to support a 1-year graduate research assistant of the University of Maryland, Department of Fire Protection Engineering. The research assistant and the faculty staff members will work closely with the Federal government's National Fire Protection and Control Administration (which also provided some support funds) in developing a report on Fire Safety in Low-Rise Multifamily Residential Building. This program is scheduled to begin in July.

The Committee evaluated the successful seminar in February on rational design for fire resistance and decided to schedule a second one for later in the year to include professional engineers and building officials as well as plant engineers.

- The Joint PCI-PTI Committee on Segmental Construction, **Walter Podolny, Jr.**, chairman, met during Committee Days and made significant progress with various chapters of its planned up-dated committee report that will add

recommendations for buildings and other structures to those for bridges.

- The PCI Committee on Tolerances, **Helmuth Wilden**, chairman, also had a spirited discussion during its Committee Days meeting on proposed sections of its new state-of-the-art report. It, too, provided input to the PCI Design Handbook, Second Edition. Significant progress was made on revised product tolerances to be consistent with general industry practice. Other major areas to be included in the report are the difficult questions of interfacing with other materials and of erection tolerances.

- The PCI Research Committee, **John R. Salmons**, chairman, devoted most of its Committee Days meeting time to a review of fellowship research proposals for 1978-'79. Based on these decisions and a subsequent committee ballot, the following research fellowships were accepted:

- "Bearing on Confined Concrete" University of Wisconsin—Milwaukee
- "Anchorage of Web or Tie Reinforcement in Thin Concrete Flanges" University of Washington
- "Deflection of Partially Prestressed Members" West Virginia University

Symposium Planned on Building Systems/Components

The Civil Engineering Department of Vanderbilt University Nashville, Tennessee, is planning an international symposium on the "Behavior of Building Systems and Building Components" for March 8-9, 1979.

The organizing committee is calling for abstracts of approximately 500 words, on topics suitable for the symposium. All abstracts must be received by August 1, 1978. For further information contact, Professor Fred W. Beaufait, P.O. Box 1533, Station B, Vanderbilt University, Nashville, Tenn. 37235.

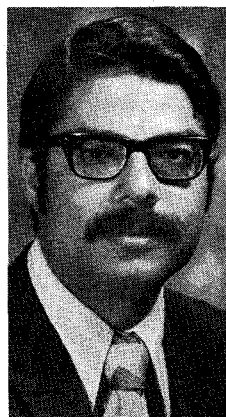
PCI JOURNAL Paper Wins 1978 T. Y. Lin Award

For the fourth time in 5 years, a paper published in the PCI JOURNAL has been awarded the American Society of Civil Engineers' (ASCE) prestigious T. Y. Lin Award for 1978.

The honor this year goes to PCI Member Dr. **Saad E. Moustafa** for his paper "Design of Partially Prestressed Concrete Flexural Members" which was published in the May-June 1977 PCI JOURNAL. The author had previously won PCI's 1977 Martin P. Korn Award for the same paper (see p. 12 of Nov.-Dec. 1977 PCI JOURNAL). A comprehensive discussion of this paper appears in the Discussion Section of this current issue of the JOURNAL (see p. 92). The subject of partial prestressing is an important area of development now being actively pursued on both sides of the Atlantic.

In each 12-month period ending in June, three societies (the American Concrete Institute, American Society of Civil Engineers, and Prestressed Concrete Institute) are invited to nominate a single paper from their respective publications. The three nominated papers are then reviewed by a committee for a grand winner.

Dr. Moustafa is associate professor of civil engineering, University of New Orleans, Louisiana. A PCI Professional Member, he currently serves on PCI's Technical Activities Committee and the Research Committee. He was associated for 7 years with Concrete Technology Corporation of Tacoma, Washington, most recently as manager of structural research. During that period, he provided PCI with valuable data on prestressed concrete piling. Dr. Moustafa graduated from the University of Cairo, Egypt, and received his MS degree from Cornell University and his PhD from the University of California at Berkeley.



Saad E. Moustafa

Wallace WeiHING of Spancrete Inc., Dies

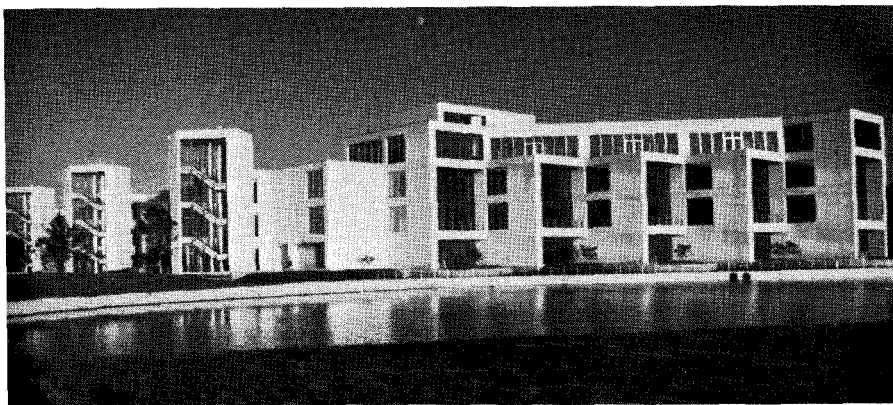
Wallace H. WeiHING, director of operations for Spancrete Industries, Inc., (a PCI Producer Member) of Milwaukee, Wisconsin, died of cancer at age 37 on April 28.

Mr. WeiHING joined Spancrete as engineer and draftsman in 1965 and later became assistant chief engineer, chief engineer and director of operations.

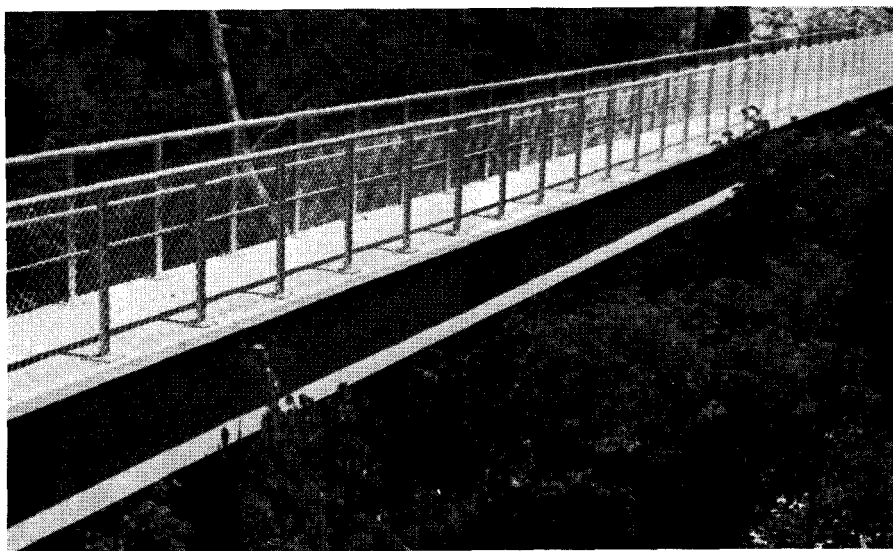
He was an exceptional person, well liked by all who knew him and because of his ability, he was respected by his peers. He played a vital role in the success of Spancrete and was very much involved in the planning and implementation of a unique building systems program as well as an on-going research and development program.

He also gave freely of his time and abilities in other areas of the industry. A registered engineer, he served on the PCI Hollow-Core Slab Committee, the PCI Design Handbook Committee, the ACI ASCE Committee for Precast Structural Concrete and contributed to the success of many other technical committees.

He graduated from Valparaiso University, Indiana in 1965.



Metropolitan Life Midwestern Head Office Building in Miamisburg, Ohio, won the 1977 Ohio Prestressed Concrete Association's Award in the building category.



Indian Run Aerial Sewer and Pedestrian Bridge, winner in the Bridge's category, has a dual function.

OPCA Awards Program Winners

A distinguished jury of Ohio architects and engineers recently named the top award winners in the 1977 Ohio Prestressed Concrete Associations' Awards Program.

Winning entries were selected for their achievements in esthetic expression,

function and economy using precast and prestressed concrete.

Award winner in the building category is the Metropolitan Life Midwestern Head Office Building in Miamisburg, Ohio. Owners of the building requested large, wide-open and flexible spaces for office functions. Other requests were for an early occupancy and a low budget. The selection of precast architectural

concrete panels for the exterior skin was a decision based on esthetics and its long term low maintenance qualities.

Jury Comments were: "The overall design is clean and simple! . . . The expression of the precast is purely stated . . . The simple concept is camouflaged by the configuration of the stair towers and the west end of the building overlooking the pond which identifies the corporate offices . . . A pleasant place to work for everyone!"

Architect and engineer was Lorenz and Williams, Inc. Structural prestressed concrete was provided by Price Brothers of Dayton, Ohio. Architectural Precast Concrete by American Precast Concrete, Inc., of Indianapolis, Indiana.

Award winner in the bridges category was the Indian Run Aerial Sewer and Pedestrian Bridge, Dublin, Ohio. (See March-April 1978 PCI JOURNAL, p. 83.)

The special feature of this project is the dual purpose functions of the precast and prestressed concrete box girder. The primary function is to carry a 24-in. diameter sanitary sewer across a steep sided ravine. A secondary function is to provide a pedestrian walkway on the structure due to its proximity to a public school.

Jury comments were: " . . . The structure's pleasant, clean lines are esthetically appropriate to the ravine surroundings. It also provided minimal construction damage to the environment."

Design engineer was Burgess and Niple, Ltd. of Columbus, Ohio. Prestressed concrete was supplied by Reliance Universal, Inc., also of Columbus.

Tang Joins DRC Consultants

PCI member, **Dr. Man-Chung Tang** has joined DRC Consultants, Inc., of New York City, as executive vice president. Formerly, Dr. Tang was vice president and chief engineer for Dyckerhoff & Widmann, Inc. and Dywidag Canada Limited.



Man-Chung Tang

PTI Office to Move to Phoenix

The Post-Tensioning Institute office, which is currently located in Glenview, Illinois, will be relocated in Phoenix, Arizona, this coming August.

Chessie System to Install 15,000 Prestressed Cross-Ties

Blakeslee Prestress, Inc. of Branford, Connecticut (a PCI Producer Member), was awarded a major contract to provide the Chessie Systems with 15,000 prestressed concrete cross-ties. The Chessie System has been active in the prestressed concrete cross-ties test program and presently has a test track in operation in Lorain, Virginia.

These cross-ties are scheduled for installation in two areas by the winter of 1978: 5000 cross-ties will be placed in existing mainline tracks in Pennsylvania and the other 10,000 ties are to be installed as part of a new construction project in Kentucky.

Blakeslee Prestress Inc., has long been involved in the development and production of prestressed concrete cross-ties and currently produces the BW-2 Cross-tie. This cross-tie is now installed at the Department of Transportation Test Track at Pueblo, California.

ACI Elects New Officers, Confers Awards at Toronto

The 1978 American Concrete Institute annual convention was held in Toronto, April 9-14, with over 800 attending.

Several PCI Members were elected ACI officers and directors and many were bestowed other honors and awards.

Elected ACI President was **John L. Goetz**, senior vice-president of Southwestern Portland Cement Co., Los Angeles, California.

Vice-President is **Charles J. Pankow**, president and treasurer of the contracting firm of Charles J. Pankow Inc., Altadena, California.

Two PCI Professional Members were made ACI Honorary Members.

T. Y. Lin, chairman of the board of T. Y. Lin International, San Francisco, California for his "... unique contributions to the early development of prestressed concrete in the United States and to the continued growth and maturity of its use throughout the world."

Alfred A. Yee, president of Yee & Associates, Inc., Honolulu, Hawaii, was honored for his "distinguished contributions to the development and application of prestressed and precast concrete ..."

Dr. Arthur Anderson, senior vice president of Concrete Technology Corp.,



John L. Goetz



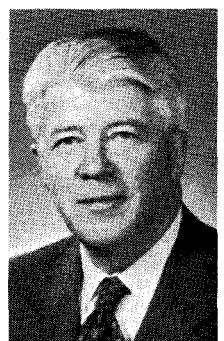
Charles J. Pankow



Alfred A. Yee



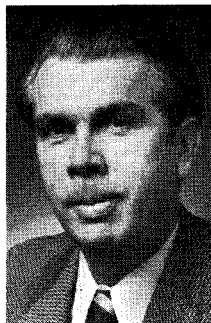
T. Y. Lin



Arthur Anderson



Eugene P. Holland



W. Gene Corley



Mark Fintel

Tacoma, Washington, received the Henry Turner Medal for his "... inspiring leadership in the Institute, challenging ideas and many technical innovations, in precast and prestressed concrete."

Mark Fintel, director, Advanced Engineering Services, Portland Cement Association, Skokie, Illinois, received the Alfred E. Lindau Award for significant contributions to design of reinforced concrete structures particularly with respect to effects of volume change and seismic loads."

Frank G. Erskine was awarded the Cedric Wilson Award for "distinguished pioneering contributions to the advancement of technology required for the use of lightweight concrete in structural applications." Now retired, Mr. Erskine was managing director of Expanded Shale, Clay and Slate Institute, Washington, D.C. for 25 years.

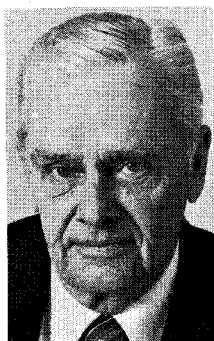
The ACI Chapter Activities Award was given to **Edward G. Nawy**, professor of civil engineering, Rutgers University, Piscataway, New Jersey, for "Meritorious service in ... the New Jersey Chapter of ACI ..."

The Delmar Bloem Distinguished Service Award recognizes noteworthy work on technical committees by a current (or recent) chairman. **Eugene P. Holland** (also elected to the ACI Board of Directors) received the award for his contribu-

tions to the ACI Building Code Committee which recently completed the revisions and reformatting of the "Building Code Requirements for Reinforced Concrete."

W. Gene Corley, director, Engineering Development Department, Portland Cement Association, Skokie, Illinois, was similarly honored for "noteworthy service as chairman of the ACI Committee on Concrete Bridge Design since 1972."

Elected to the ACI Board of Directors were PCI Professional Members **Ashby T. Gibbons**, vice-president and secretary of Linfield, Hunter and Gibbons, Inc., consulting engineers, New Orleans, Louisiana; **Eugene P. Holland**, president of Wiesinger-Holland Ltd., struc-



Frank G. Erskine

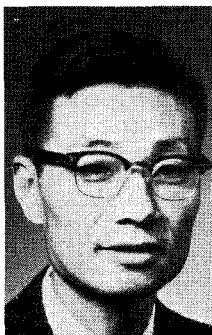
tural engineers, Chicago, Illinois; **Paul Zia**, professor and associate head of the Department of Civil Engineering at North Carolina State University, Raleigh; and **Cutberto Diaz-Gomez**, director of Instituto Mexicana del Cemento y Concreto, Mexico City, Mexico.



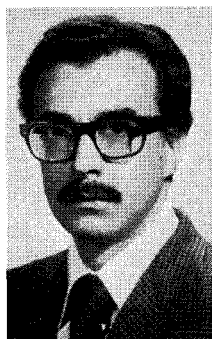
Edward G. Nawy



Ashby T. Gibbons



Paul Zia



C. Diaz-Gomez

LeMessurier Elected to National Academy

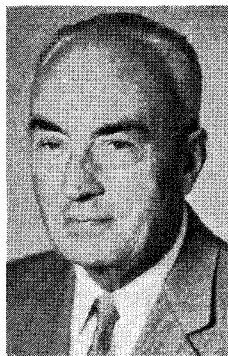
PCI Member **William J. LeMessurier** of Sippican Consultants International, Inc., Cambridge, Massachusetts, was elected a Member of the U.S. National Academy of Engineering. Mr. LeMessurier was cited for his contributions to "teaching, research, and practice of structural design for buildings, with special concern for the relationship of structures to total architecture."

Also elected to the Academy were other individuals that have been prominent in the prestressed concrete industry: **Kiyoshi Muto** (Muto Institute of Structural Mechanics, Inc., Tokyo); **Alexander C. Scordelis** (University of California at Berkeley); and **Bruno Thürlimann** (Swiss Federal Institute of Technology, Zurich).

Election to the Academy is the highest professional distinction that can be conferred on an engineer and honors those who have made important contributions to engineering theory and practice or who have demonstrated unusual accomplishments in the pioneering of new and developing fields of technology.

Roy Peck Dies

Roy L. Peck, first recipient of the PCI Medal of Honor Award, passed away on



Roy L. Peck

April 28 at age 78. Mr. Peck retired as Editor of *Modern Concrete* magazine in 1972.

His frank, perceptive reporting of the industry's progress since 1954 is regarded as a "major force" in accelerating the use of precast, prestressed concrete in the United States.

Before joining *Pit and Quarry Publications*, Mr. Peck was an engineer for the Illinois Department of Highways and with PCA. He served with the U.S. Air Force in both World Wars, attaining the ranks of "Ace" and Lt. Colonel.

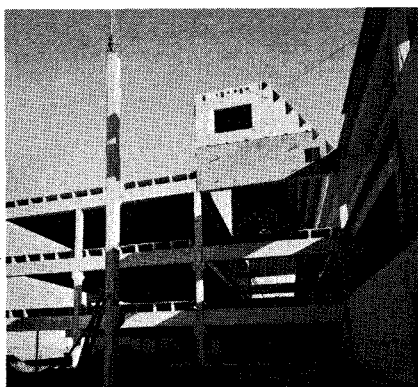
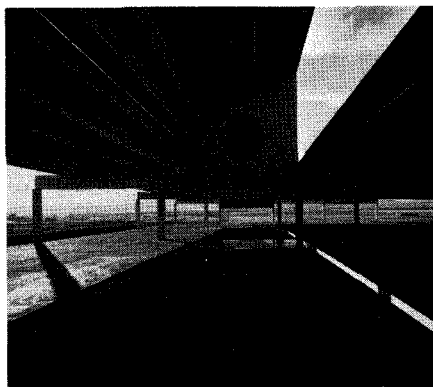
Everman Appoints Sales Representative

Lewis Elkins has been named sales representative for Everman Corporation (a PCI Producer Member) in Texas. Mr. Elkins was formerly Everman's chief draftsman. He has worked as a draftsman for both Texas Industries, Inc. and B & E Drafting before joining Everman in 1973.

In other news, Everman was awarded five contracts totaling \$2,685,000. The company will supply precast concrete for firms in Dallas, Houston and Fort Worth, Texas.

Macon Prestress Promotes Grogg

John H. Grogg, Jr. has been appointed plant manager of the Macon Prestressed Concrete Company (a PCI Producer Member) plant in Cayce, South Carolina. Mr. Grogg formerly served as district sales manager and has been with Macon Prestressed for over 4 years. He brings 20 years of experience in the prestressed concrete industry to the position.



Solar Heated Facility Uses Precast Concrete—Shown here is the solar panel support structure made of precast concrete walls and double tees for the Community College of Denver/North Campus Facilities. This 282,000 sq ft facility is reportedly the largest solar heated structure of its type in the world. These concrete supports will house about 35,000 sq ft of solar collectors.