LETTERS TO THE EDITOR

Convention Highlights

I enjoyed reading the PCI Convention Highlights in the November-December 2002 PCI JOURNAL. In particular, I thought that Chairman-Elect Mike Quinlan made some very good points in his address “Developing Our Technology and Marketing Our Advantages,” on pp. 20-21.

Richard Weingardt
Denver, Colorado

Twisp River Bridge

While vacationing in the Northwest last fall, during my travels, I happened to see and motor over the Twisp River Bridge. This is a beautiful bridge which very unobtrusively fits into the environment. The one-span structure also creates a comfortable ride without any vibration. The authors wrote a very interesting and valuable article on this project (see “New Deep WSDOT Girders Used for the Twisp River Bridge,” March-April 2002 PCI JOURNAL, pp. 20-31).

Michael Green
San Diego, California

The article on the Twisp River Bridge (March-April 2002 PCI JOURNAL) documents the application of new technology for more efficient, cost-effective, and environmentally acceptable methods of long-span bridge construction in the Pacific Northwest. In a time when state transportation departments are sometimes criticized in the media, it also illustrates a positive effort by the Washington State Department of Transportation (WSDOT) to develop, apply and publicize improved methods of construction for the benefit of the general public.

I’ve always felt that the PCI JOURNAL is one of the best marketing tools that we have in PCI, and our company has chosen to send copies of this article to a number of bridge design consultants, other government agencies and employees of WSDOT. I would encourage other PCI members to do likewise when their local government bridge departments publish such articles in the JOURNAL; we need to publicly recognize these efforts by forward-thinking agencies.

Larry Norton
Concrete Technology Corporation
Tacoma, Washington

DDBD Method for Designing Precast Concrete Buildings

In his usual perceptive way, Nigel Priestley has written an excellent paper on how to calculate the base shear in seismically induced precast/prestressed concrete buildings using the direct displacement-based design method (see “Direct Displacement-Based Design of Precast/Prestressed Concrete Buildings,” November-December 2002 PCI JOURNAL, pp. 66-79). As design engineers become familiar with the DDBD method, real savings will emanate from using this new methodology.

Francisco Morales
Los Angeles, California

Compression Stress Limits

The authors of the article “Elimination of Prestressed Concrete Compression Limits at Service Load” (November-December 2002 PCI JOURNAL, pp. 48-65) have written a very scholarly paper which has practical ramifications to industry practice. We should all take the time to study this paper and report our experiences with a view to modifying or eliminating service load stresses.

The precast, prestressed concrete industry has today reached maturity and a new level of sophistication. Therefore, the time has come to re-examine many of our “sacred cows.”

Peter Taylor
Chicago, Illinois

When the great French prestressing pioneer Eugene Freyssinet introduced prestressed concrete to the world, he characterized the product as a “revolutionary new material, quite distinct from reinforced concrete.” Over the years, this distinction has been diluted. Today, the ACI Code and European Codes of Practice lump “prestressed concrete” and “reinforced concrete” into a single entity, namely, “structural concrete.” And yet in reality, we still cling to service load stresses as if they are our “security blanket.” The time has come to discard our “baby clothes” and move on.

Peter Jennings
Miami, Florida

The authors have written a superb paper on “Elimination of Prestressed Concrete Compression Limits at Service Load” (November-December 2002 PCI JOURNAL, pp. 48-65). Every design engineer should read this paper because it sheds insight as to what the important parameters are in a practical design.

Eugene Smith
Toronto, Ontario
Canada

As has become his trademark, Dr. Tadros and his co-authors have written another masterpiece (see article on “Elimination of Prestressed Concrete Compression Limits at Service Load,” November-December 2002 PCI JOURNAL, pp. 48-65). This is a very thoughtful paper which has been carefully researched and developed. Design engineers should carefully examine the practical ramifications of the authors’ recommendations and correlate the results with their own design practice. The time is ripe for some changes in our industry.

Frank Erskine
Phoenix, Arizona
Kurtz Appointed New Editor-in-Chief of PCI JOURNAL; Nasser Becomes Editor Emeritus

A new editor-in-chief has been named for the PCI JOURNAL, the consummate authority on precast, prestressed concrete research, design, and construction. Franklin S. Kurtz succeeds George D. Nasser, who after more than 30 years as the editor-in-chief will now serve as Editor Emeritus.

Mr. Kurtz brings to the post a diverse range of technical and management credentials within the publishing, association and precast concrete industries. He joined PCI in May 2001 as managing editor of the JOURNAL after more than seven years with the American Concrete Institute.

At ACI, Frank served in a number of capacities, including staff engineer, manager of educational seminars and construction development, editor of educational publications, and engineering editor of Concrete International magazine. A civil engineering graduate of Clemson University, he is a registered professional engineer in the state of South Carolina.

His precast concrete industry experience includes work as a design engineer and quality control manager for the former Arnold Concrete Products and as bridge design engineer for the South Carolina Department of Transportation. He has also written a number of articles on prestressed concrete and other concrete-related topics.

George Nasser began as editor-in-chief of the PCI JOURNAL in 1972 after serving as associate editor of the ACI Journal for twelve years. Earlier, he worked as a structural engineer for several consulting engineering firms after obtaining his BS and MS degrees in civil engineering from the University of Detroit and the University of Michigan, respectively. He is the author of more than 100 technical articles in various engineering publications.

In his more than three decades as editor-in-chief, George witnessed revolutionary changes in the precast, prestressed concrete industry while also leading the bimonthly JOURNAL through ever-evolving changes in the publishing industry. In 1972, the JOURNAL was produced in a black-and-white, 6 x 9 in. format using mechanical paste-up techniques; today, it is produced in its current standard magazine size using state-of-the-art desktop publishing technology.

Under George’s leadership, the JOURNAL has earned the highest accolades. In 19 times out of the last 24 years, PCI JOURNAL papers have won the prestigious T.Y. Lin Award from the American Society of Civil Engineers (ASCE). This annual award is the top honor for papers submitted to publications of the ASCE, ACI and PCI.

George has had a profound impact on the advancement of the precast industry over the years. Through his “gentle and untiring persistence,” he has consistently been able to persuade the industry’s pre-eminent engineers and researchers to quickly author papers for the JOURNAL on their most significant works, thereby spurring timely transfer of technology to real-world applications.

This mutual respect between author and editor has been the cornerstone of the JOURNAL’s tradition of excellence and has helped advance the careers of many industry professionals worldwide.

We will present comprehensive highlights of George Nasser’s prolific career in a future issue of the PCI JOURNAL.

Dr. Maher Tadros and his colleagues from the University of Nebraska have written an excellent paper (see article on “Elimination of Prestressed Concrete Compression Limits at Service Load,” November-December 2002 PCI JOURNAL, pp. 48-65). The document is truly a “thinker’s essay” because it puts into perspective what really is important in the design of a prestressed concrete member. Design engineers can all benefit from studying this paper which hopefully will translate into modifying our codes of practice.

Ted Baxter
St. Louis, Missouri
THE TECHNICAL ACTIVITIES COMMITTEE NEWS

The following is a summary of the technical meetings and PCI JOURNAL manuscript activity since the PCI Convention in Nashville, Tennessee, this past October:

- A new ad hoc committee of quality control managers on quality improvement of precast concrete products held a meeting in Dallas, Texas, in November. This was the committee's third such meeting this past year.

- The manuscript by Stephen Pessiki and Alexander Mlynarczyk on “Experimental Evaluation of the Composite Behavior of Precast Concrete Sandwich Wall Panels” has been accepted for publication and is scheduled to appear in the March-April PCI JOURNAL. A follow-up paper based on this article and ongoing research at Lehigh University is being developed by Kim Seeber (Consultant), Stephen Pessiki (Lehigh University) and Rex Donahey (CTI). The title of this manuscript is “Analytical Procedure for Predicting Composite Action in Sandwich Wall Panels.”

- The Fast Team on Self-Consolida-
ging Concrete (Michael LaNier, chair) has held several meetings and has already developed a preliminary report on “Guidelines for Using Self-Consolidating Concrete.” This report will be further refined before it becomes an official PCI document.

- With increasing interest in the seismic behavior and design of precast diaphragms, two manuscripts authored by Robert Fleischman and Kenneth Farrow are currently under peer review:
  - “Effect of Dimension and Detail on the Capacity of Precast Parking Structure Diaphragms.”
  - “Seismic Design Recommendations for Precast Concrete Diaphragms in Long Floor Span Construction.”

- The strut-and-tie method is a powerful approach for analyzing complex concrete structures and yet there is little published design guid-

- Another subject of keen interest to the industry is curing temperatures of high strength concrete. Currently under revision, the paper by John Roller, Henry Russell, Robert Bruce, and Bryan Hassett titled “Curing Temperatures in High Strength Concrete Bridge Girders” will shed new light on this important topic.

- During the recent PCI-sponsored PRESSS (Precast Seismic Structural Systems) seminars, the report “Design Guidelines for Precast Concrete Seismic Structural Systems,” was handed out to the registrants. This very comprehensive document, which was developed by John Stanton and Suzanne Nakaki, summarizes the PRESSS findings and puts them in a form which can be applied by structural engineers. Therefore, to give this report wider dissemination, it will be published (with some revision) in a forthcoming issue of the PCI JOURNAL.

LANIER IS NEW TAC CHAIR

Starting January 1, Michael W. LaNier is the new chair of the Technical Activities Committee (TAC). His term of office will be two years. He replaces C. Douglas Sutton, who served TAC with distinction during the past four years. The main function of TAC is to oversee the missions and chairs of the various technical committees, review technical reports and manuals, and guide the Institute regarding technical issues facing the industry.

Mr. LaNier has been executive vice president of BERGER/ABAM Engineers, Federal Way, Washington, since 1971. He served on the PCI Board of Directors as a Professional Member from 1984 to 1985. He was chair of the Tolerances Committee and has been a member of the Plant Certification, Tolerances, Professional Member, and Technical Activities Committees.

He has also been a major contributor to the Tolerance Manual, Architectural Plant Quality Manual and Structural Plant Quality Manual. Two years ago, he initiated the PCI Student Intern Program, which led to the publication of two articles in the PCI JOURNAL on this subject. Currently, he is developing Guidelines for Self-Consolidating Concrete.

In recognition of his many contributions to the PCI and industry, last year, Mike LaNier was named a PCI Fellow at the PCI Convention in Nashville, Tennessee.
R&D COMMITTEE NEWS

Summarized below are the proposed research programs for the year 2003 and beyond:

Research Programs for 2003

The PCI Board of Directors has approved a budget that will allow for all the proposed projects to be carried out during 2003. The proposed research programs include:

• Five Daniel P. Jenny Research Fellowships for the 2003-2004 academic year at $18,000 each.
• Three high-priority projects on torsion design of concrete, volume change and development of proper design methodology for precast concrete diaphragms.
• A discretionary fund to investigate catastrophic events such as earthquakes, bridge collapses, and other projects of extreme emergency.
• Support and involvement as industry advisors in the codification process based on research coming out of the Advanced Technology for Large Structural Systems (ATLSS) program at Lehigh University and the Precast Seismic Structural Systems (PRESSS) research that has been carried out at various universities and research institutions across the United States.

In addition, PCI is actively involved in the following research programs:

• Improved Phi-factors for Precast, Prestressed Concrete – University of Michigan
• Development of Precast/Prestressed Concrete Research Database – Purdue University
• Performance of Precast, Prestressed Parking Structures During the Northridge Earthquake – University of Illinois at Urbana-Champaign
• Influence of Diaphragm Behavior on Performance of Precast Parking Structures During the Northridge Earthquake – Lehigh University
• ATLSS Research Programs – Lehigh University
• Several research projects to support code issues and PCI Standard Design Practice

RESEARCH FELLOWSHIP PROPOSALS SOLICITED

Requests for proposals for 2003-2004 Daniel P. Jenny Research Fellowships have been sent out to the civil engineering departments of universities in the United States and Canada. PCI will offer several $18,000 awards for the academic year beginning September 2003.

Proposals must be received at PCI headquarters by March 10, 2003. Proposals will be initially evaluated by PCI’s Research and Development (R&D) Committee (Thomas J. D’Arcy, chair) and the final selections will be made during PCI Committee Days, April 24-26, 2003.

The PCI Research Fellowship Program was established in 1972 to support graduate civil engineering students interested in research related to precast and prestressed concrete. Fellowships generally conclude with a master’s degree thesis and a summary paper published in the PCI JOURNAL. For more information regarding the PCI Daniel P. Jenny Research Fellowship program, contact PCI Research Director Paul Johal at (312) 786-0300.

CALL FOR NOMINATIONS – DISTINGUISHED EDUCATOR AWARD

The PCI Student Education Committee (Alvin C. Ericson, chair) invites nominations from PCI members for PCI’s 2003 Distinguished Educator Award. The objective is to recognize distinguished educators in the fields of engineering, architecture and construction technology who have made significant contributions to the precast/prestressed concrete industry. Nominations must be received at PCI headquarters by March 31, 2003. For nomination forms and additional information, contact PCI Research Director Paul Johal at (312) 786-0300.

CALL FOR NOMINATIONS – YOUNG EDUCATOR ACHIEVEMENT AWARD

The PCI Student Education Committee (Alvin C. Ericson, chair) invites nominations from PCI members for PCI’s 2003 Young Educator Achievement Award. The objective is to recognize young educators in the fields of engineering, architecture and construction technology who have made significant contributions in their early careers to the precast/prestressed concrete industry. Nominations must be received at PCI headquarters by March 31, 2003. For nomination forms and additional information, contact PCI Research Director Paul Johal at (312) 786-0300.

CALL FOR ENTRIES – ENGINEERING STUDENT DESIGN COMPETITION (Big Beam Contest)

The PCI Student Education Committee (Alvin C. Ericson, chair) is inviting entries from engineering students to participate in PCI’s Engineering Student Design Competition for the year 2003. With the help of local PCI Producer Members, students will construct and test 9 x 12 in. x 15 ft (229 x 305 mm x 4.6 m) precast concrete beams. The awards program, sponsored by Sika Corporation, will include cash prizes for the most efficient design, highest load capacity, best report and other categories. Applications are due at PCI headquarters by March 15, 2003 and results by June 1, 2003. PCI Producer Members are urged to encourage their local engineering schools to participate in this program. For additional information and application forms, contact PCI Research Director Paul Johal at (312) 786-0300.
### 2003 COMMITTEE DAYS SCHEDULE

April 23-27, Holiday Inn, Chicago Mart Plaza  
350 North Orleans Street, Chicago, IL 60654  
Phone: (312) 836-5000, Fax: (312) 836-0007  
*(see p. 139 for registration forms)*

<table>
<thead>
<tr>
<th>Date and Time</th>
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<tr>
<td><strong>Wednesday, April 23</strong></td>
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<td>1:00 p.m. - 5:00 p.m.</td>
<td>PCI Education Foundation</td>
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<td>Architectural Precast Concrete</td>
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<td><strong>Thursday, April 24</strong></td>
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<td>8:00 a.m.</td>
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<td>Bridges</td>
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<td>Housing Segment</td>
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<td>Plant Safety</td>
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<td>Industry Handbook</td>
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<td>Personnel Training &amp; Certification</td>
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<td>Architectural Precast Concrete</td>
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<td>12:00 noon - 1:30 p.m.</td>
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<td>1:30 p.m. - 5:00 p.m.</td>
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<td>3:00 p.m. - 5:00 p.m.</td>
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<td><strong>Friday, April 25</strong></td>
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<td>8:00 a.m. - 11:45 p.m.</td>
<td>PCI 50th Anniversary</td>
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<td>8:00 a.m. - 11:45 a.m.</td>
<td>TAC Multi-Family Housing Fire Task Force</td>
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<td>8:00 a.m. - 12:00 noon</td>
<td>Prestressed Concrete Piling</td>
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<td>ATLSS/PRESSS</td>
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<td>9:00 a.m. - 12:00 noon</td>
<td>TAC Strand Task Group (Closed)</td>
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<td>10:00 a.m. - 4:30 p.m.</td>
<td>Field Certification</td>
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<td>1:30 p.m. - 4:30 p.m.</td>
<td>Journal Advisory</td>
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<td>1:30 p.m. - 5:00 p.m.</td>
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<td>Financial Performance/Contracts</td>
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<td>6:00 p.m. - 9:00 p.m.</td>
<td>Bridge Manual (Closed)</td>
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<td><strong>Saturday, April 26</strong></td>
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<td>7:45 a.m.</td>
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<td>Productivity</td>
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<td>8:00 a.m. - 4:00 p.m.</td>
<td>Bridge Deck Panel Task Force</td>
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<td>8:00 a.m. - 5:00 p.m.</td>
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<td>High Performance/Durability Concrete</td>
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<td>Parking Structures - Technical Group</td>
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<td>Precast Sandwich Wall Panels</td>
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<td>Prestressed Concrete Poles</td>
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<td>Research and Development</td>
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### CALL FOR ENTRIES – ARCHITECTURAL STUDENT DESIGN COMPETITION

The PCI Student Education Committee (Alvin C. Ericson, chair) is inviting entries from architectural students to participate in PCI’s Architectural Student Design Competition for the year 2003. The awards program, sponsored by AXIM Concrete Technologies, Inc., Fister Quarries Group, Inc., and PCE Emmanuel, Inc., will include cash prizes for the best design and several other categories. The design project must be completed and submitted by April 10, 2003. For specific competition information and submittal requirements, contact the PCI Web site at www.pci.org (education). The entries will be judged by a special jury and the winners will be recognized at the 2003 PCI Annual Convention to be held in Orlando, Florida, this year. PCI Producer Members are urged to encourage their local architectural schools to participate in this program. For additional information, contact PCI Research Director Paul Johal at (312) 786-0300 or Professor Norm Lach, Southern Illinois University, at (618) 453-1128.

### Precast Diaphragm Project Awarded to a University Consortium

PCI’s R&D Committee (Thomas J. D’Arcy, chair) has selected a consortium of three universities to conduct research on one of the committee’s and industry’s highest priority projects titled “Development of Proper Design Methodology for Precast Concrete Diaphragms.”

The winning consortium consists of:
- University of Arizona, Tucson, Arizona
- Lehigh University, Bethlehem, Pennsylvania
- University of California at San Diego, La Jolla, California

The objective of this research is to develop an industry-endorsed recommended practice for the design and
Call For Papers

3rd International Symposium on High Performance Concrete
together with the
PCI Bridge Conference
October 19-22, 2003
Deadline for Abstracts March 7, 2003

The Symposium is jointly sponsored by the Federal Highway Administration (FHWA) and the Precast/Prestressed Concrete Institute (PCI). The Bridge Conference is sponsored by PCI. They will be conducted together and held in conjunction with the 49th PCI Annual Convention and Exhibition in Orlando, Florida.

The PCI/FHWA International Symposium will address the research, design, construction, performance, and benefits of High Performance Concrete (HPC). HPC is engineered to achieve enhanced durability and/or strength characteristics while ensuring adequate constructibility. Associated technologies will also be covered.

The PCI Bridge Conference will feature precast and prestressed concrete bridges and bridge components from design to fabrication and construction.

Approximately nine technical sessions will feature state-of-the-art topics fresh from design boards, research laboratories and construction sites, presented by experts from all facets of the concrete industry. A Proceedings will be published following the Symposium/Conference and will be provided to all attendees.

Socially, the Symposium/Conference will feature ample time for networking with colleagues and making new acquaintances. Social events include receptions, breakfasts, luncheons, an awards banquet, and guest program.

Call For Papers

Papers are invited on any topic related to concrete bridges and transportation structures. Ideas can be found in the lists that follow. Abstracts must not be longer than one, double-spaced, typewritten page. Your abstract should state that you will attend and present your paper if it is chosen. If multiple authors are listed, the statement must identify the presenter. Please identify if high performance concrete is a component of your topic even if it is not the subject.

The deadline for receipt of abstracts is March 7, 2003. Submit your abstract according to the instructions at www pci org. Written papers are due July 15, 2003. For more information, contact Paul Johal or John Dick at PCI, 209 W. Jackson Blvd., Suite 500, Chicago, IL 60606. Tel. 312-786-0300; Fax 312-786-0353; e-mail: info@pci.org.

Ideas for topics for papers may be taken from the following topics.

International Symposium on HPC
- HPC History, Background, Definitions
- HPC Materials and Mix Designs
- HPC Research and Project Monitoring
- Quality Control/Assurance Programs and Experience
- Construction Techniques and Experience
- Designing with HPC
- Quality, Fabrication, Transportation Experience
- Structural Performance and the Codes/Specifications
- Follow-up of the FHWA HPC Showcase Projects
- The FHWA Innovative Bridge Research and Construction (IBRC) Projects
- Cost, Life Cycle, Promotion and Implementation Studies
- Case Studies
- Designing, Detailing and Constructing for Durability

PCI Bridge Conference
- Creative Precast Concrete Bridge Solutions
- LRFD Specifications Issues and Comparisons
- Repair and Rehabilitation; Monitoring Bridge Condition
- Bridge Aesthetics
- Public & Customer Involvement
- Spliced Girder Bridges
- Precast Deck Solutions
- Precast Concrete Design Theory
- Designing for Seismic Forces
- Contractor Alternates and Value Engineering
- Research in Action
- Owner Agency Designs/Case Studies
- Uniquely Functional Solutions
- Design-Build Projects
- Projects and Designs to Facilitate Fast Construction
- Case Studies
construction of diaphragms that use precast/prestressed concrete components. The recommended practice would cover pretopped and topped diaphragms constructed using both double tee and hollow-core units.

Since the program calls for matching funds from the National Science Foundation (NSF), the proposals were solicited from qualified United States universities only.

STUDENT EDUCATION

Post Your Summer Internships

The goal of the PCI Summer Intern Program is to bring together engineering and architecture students looking for summer employment with PCI producer plants, industry suppliers, consulting engineering firms, and architecture firms.

Before summer is upon us, make time to post positions that your company would like to fill this summer.

Once posted on the PCI Web site, students can browse the listings and contact you. (See article on “Industry Leaders Plant Seeds Today to Reap Talent Tomorrow — Launching an Internship Program,” November-December 2002 PCI JOURNAL.) More information can be found on the Internet at www.pci.org/summer_intern/faq.cfm.

Holmes Named President of PBM Concrete

Thomas Holmes has been appointed president of PBM Concrete, Inc., Rochelle, Illinois. Mr. Holmes will direct the company’s daily operation, spearhead the development of new products and services, and explore growth opportunities throughout the Midwest.

A 20-year veteran in the precast/prestressed concrete industry, Mr. Holmes has held positions in sales and marketing, estimating, business development and operations. He most recently served as senior vice president for High Concrete Structures, Inc., Denver, Pennsylvania.

“Tom Holmes is truly a heavyweight in the precast industry,” said John G. Nanna, president of parent company Cretex Construction Products Group. “Throughout the years, he has earned a great deal of respect by capitalizing on his diverse background and by demonstrating strong leadership abilities.”

Construction Products Group Adds Hodgson

The Construction Products Group, Burlington, Wisconsin, recently named Glen A. Hodgson marketing director of justice facilities. Mr. Hodgson will be responsible for expanding the group’s presence in the justice facility market by extending its precast/prestressed product offering, monitoring new growth opportunities and maintaining ongoing contact with key decision-makers within a 17-state region in the central United States.

Mr. Hodgson has over 30 years of experience in the construction industry and has worked with more than 150 architectural/engineering firms. Prior to this appointment, he served for more than 20 years with the Illinois Department of Corrections, Springfield, Illinois, most recently as manager of its capital programs unit.

Earlier, he held positions with Ferry and Henderson Architects and Cook Associates Architects, both of Springfield, Illinois. Mr. Hodgson is a member of the American Institute of Architects (AIA), is involved with the American Correctional Association and participates in other organizations.

“Our precast products lend themselves extremely well to the justice facility market,” said John G. Nanna, president of Cretex Construction Prod-

ucts Group. “With the addition of Glen, we hope to increase our market share, offer innovative new products and improve the level of service we provide.”

Raider Precast Adds Biderman

Raider Precast Concrete, Inc., West Burlington, Iowa, has appointed George Biderman as regional sales manager. Mr. Biderman will oversee sales and marketing and pursue new opportunities in the Midwest.

“George comes to Raider with a thorough understanding of the construction industry,” said Colin Waggenbach, president of Raider Precast. “He also possesses the knowledge and necessary relationships to expand our presence in a number of key markets.”

Mr. Biderman is a fellow in the Society of Marketing Professional Services and brings significant sales and marketing experience to Raider Precast. He served as director of sales and marketing for a construction management/design-build firm and worked in business development for a leading construction company. He also serves as sales and marketing consultant to construction, architectural and subcontractor firms across the United States.

Wilbur Smith Hires Staton

Rick E. Staton has joined Wilbur Smith Associates’ Raleigh, North Carolina, office as senior designer/technician. Mr. Staton’s responsibilities include preparing roadway and structural drawings. He received an associate of science degree in civil engineering technology from Wake Technical College, Raleigh, North Carolina. He previously worked at the same office from 1987 to 1997. His experience and background include preparation of structural and roadway drawings using MicroStation and GeoPak Software.

O’Hagan Joins Ralph Whitehead Associates

David O’Hagan has joined the firm of Ralph Whitehead Associates, Inc., Charlotte, North Carolina, as trans-
transportation group leader, project manager and senior bridge engineer in its Tallahassee office.

Ralph Whitehead Associates is a 120-person civil/structural engineering firm headquartered in Charlotte since 1961. The firm has branch offices in Jacksonville and Tallahassee, Florida; Atlanta, Georgia; Kansas City, Kansas; Pittsburgh, Pennsylvania; Charleston and Rock Hill, South Carolina; and Richmond, Virginia.

Iowa Prestressed Concrete Appoints Doran

Iowa Prestressed Concrete, Inc. (IPC), Des Moines, Iowa, recently named Dan Doran as manager of sales and marketing. Mr. Doran will oversee the company’s sales and marketing initiatives and identify and establish relationships with new markets.

"Dan has a track record of success in a variety of sales and marketing capacities," said Scott Heuvel, president of IPC. "He possesses a well-rounded background and an in-depth understanding of the precast/prestressed concrete industry. Dan is an important part of our company and will help continue its longstanding tradition of first-rate service and growth."

Prior to joining IPC earlier this year, Mr. Doran was vice president of sales and marketing for Composite Technologies Corporation, a major supplier to the precast/prestressed concrete industry. He also has served as a business development manager at Ayars & Ayars, Inc., a design/build general contracting firm.

SGH Expands Team

Simpson Gumpertz & Heger Inc., (SGH) Waltham, Massachusetts, has added three new members to its staff.

Stephen K. Harris has been named senior project manager. With almost two decades of experience in building design and performance-based seismic engineering, his projects range from historic landmarks to high-rise commercial structures and incorporate innovative design approaches and technologies.

David L. McCormick brings 22 years of structural engineering experience to the position of senior staff engineer. He has worked with seismic risk assessment, design and retrofit of buildings, post-earthquake assessment, and loss prediction. His projects include water and wastewater facilities, biotechnology buildings, commercial structures, and specialization in the seismic performance of equipment and precast buildings.

Craig B. Goings has been appointed senior staff engineer. He brings 15 years of experience in the design and retrofit of buildings and bridges. Specializing in seismic rehabilitations using a performance-based design approach, his projects include complex retrofit analyses and subsequent retrofit design of major structures, including high-rise buildings and landmark bridges.

Gerwick Receives Honors

Ben C. Gerwick, Jr. was elected to the National Academy of Construction, on August 9, 2002, in Denver, Colorado. Mr. Gerwick is a former president of PCI and the Fédération Internationale de la Précontrainte (FIP), predecessor of the Fédération Internationale du Béton (fib).

The Ivan Holand Award was presented to Mr. Gerwick by the Norwegian Concrete Association at the ACI 2002 Fall Convention held in Phoenix, Arizona.

Gerwick Inc. Names New Management Team

Ben C. Gerwick, Inc., San Francisco, California, has announced changes in their firm. Paul E. Bach, president for almost 15 years, has moved to the COWIGroup. Effective January 1, 2003, Robert B. Bittner, former vice president and chief engineer, takes over as president. Dale E. Berner, former vice president, takes over as chief engineer and chief financial officer.

Mr. Bittner graduated from Stanford University with a bachelor of science degree in 1969 and a master of science in civil engineering in 1970. A professional engineer with more than three decades of experience in construction engineering and project management on major marine structures worldwide, he joined Ben C. Gerwick, Inc., in 1996. The focus of his work has been to minimize construction costs of marine structures through the design and development of innovative construction methods and equipment.

Dr. Berner joined Ben C. Gerwick, Inc., in 1983 and has provided expertise in the areas of marine and construction engineering, corrosion protection, underwater concrete installations and underwater concrete repair techniques. He received a bachelor’s degree in 1978, a master’s degree in 1982, and a Ph.D. in 1984, all in civil engineering from the University of California, Berkeley.

LEAP Software Expands Operations

LEAP Software, Tampa, Florida, has been steadily growing as it continues its commitment to provide outstanding customer service and technical support while developing quality engineering software solutions. To that end, they recently added two new engineers, Nicolas Mangon and Hamid Ikram. The addition of these engineers means quicker releases, new products, and increased technical support capabilities. New administrative personnel have also been added to provide increased customer service.

Justus Joins Facility Engineering Associates

Jim Justus has joined Facility Engineering Associates (FEA), Greenville, South Carolina, as a senior project manager. He joins FEA with 18 years of civil/structural engineering and project management experience. Mr. Justus is opening an office in the Southeast to further develop and support FEA’s national business and clients. Headquartered in Washington, D.C., FEA has locations in Houston, Texas, and San Diego, California.

Mr. Justus has served as a South Carolina state board member and chapter president of the National Society of Professional Engineers. He is also affiliated with the PCI, American Concrete Institute and American Society of Civil Engineers.
Fanella Complements S.K. Ghosh Associates


Dr. Fanella received his bachelor's, master's and Ph.D. in structural engineering from the University of Illinois at Chicago. A registered professional engineer and structural engineer in the state of Illinois, he taught at the School of Architecture, University of Illinois, Chicago, and worked as a design engineer prior to joining the PCA in 1993. He has authored or co-authored PCA structural publications and authored a series of articles for Structural Engineer magazine on time-saving design tips for reinforced concrete, which received the 2002 Meritorious Publication Award from the Structural Engineers Association of Illinois. His e-mail address is dfanella@skghoshassociates.com.

PCA Announces New Appointments

The Portland Cement Association (PCA), Skokie, Illinois, has appointed Edward J. Sullivan as chief economist in the economic research department and Ryan M. Pickett as manager of media relations.

Mr. Sullivan is responsible for tracking and forecasting trends in the economy affecting the cement and construction industry in the United States and Canada and will act as the economic spokesperson for the Association. He served as a partner for Wexford Management Consultants, Philadelphia, Pennsylvania, and vice president of a market research unit at Wharton Econometrics and at Standard & Poor/ DRI.

Mr. Puckett's responsibilities as manager of media relations will be to communicate news, current developments and other information affecting the cement and construction industry. He comes to PCA from the Chicago public relations office of Publicis Dialog, where he served as account executive. His prior experience includes public relations, marketing communications and public affairs. Mr. Puckett holds a master's degree in integrated marketing communications from Northwestern University and a bachelor's degree in marketing from Indiana University.

PCI Members Honored at ASCE 2002

Eight PCI members were recognized as recipients of the American Society of Civil Engineers “2002 Society Honors and Awards,” held in Washington, D.C., at the ASCE Convention. The awards emphasized exceptionally meritorious achievement.

Panya Noppakunwijal, Maher K. Tadros, Zhongguo “John” Ma, and Robert F. Mast were recognized as winners of the T.Y. Lin Award for their paper "Strength Design of Pretensioned Flexural Concrete Members at Prestress Transfer," which appeared in the January-February 2001 issue of the PCI JOURNAL.

R. Shankar Nair was winner of the George Winter Award for his many engineering achievements and for his active participation in support of a variety of social issues as well as history and cultural activities in the Chicago area.

John M. Hanson was recognized as a 2002 honorary member for his outstanding contributions as a researcher, practicing engineer, and educator in the fields of structural and forensic engineering. A PCI Fellow, Dr. Hanson was the recipient of PCI's Martin P. Korn Award in 1978.

Gajanan M. Sabnis received 2002 honorary membership for his untiring global efforts and his dedication to excellence in civil engineering through teaching, research, and entrepreneurial skills.

Richard G. Weingardt was recognized as a 2002 honorary member for his superlative contributions to the design of major structures and the enhancement of the professional practice of structural engineering.

StructureWorks is Newly Formed

MSC Technologies, Finfrock Industries, Rocky Mountain Prestress, and PTAC Consulting Engineers have formed a new company named Struc-
Bryant Mather 1917 – 2002

Bryant Mather, long-time director of the Structures Laboratory of the U.S. Army Corps of Engineers in Vicksburg, Mississippi, died on December 4, 2002, at the age of 85. Starting with the Waterways Experiment Station in 1946, he served the Corps of Engineers with distinction for nearly 60 years. While director, he managed a staff of 200 employees with a research program of approximately $50 million. After retiring in 2000, Dr. Mather continued to serve as director emeritus of the Structures Laboratory until his death.

Former President Jimmy Carter made Dr. Mather a charter member of the Senior Executive Service in 1979. He was named the U.S. Army Corps of Engineers Civilian Employee of the Year in 1992. He was also the recipient of the Army’s Meritorious Civilian Service Award and the Decoration for Exceptional Civilian Service (twice).

Dr. Mather was an honorary member and past president of both the American Concrete Institute and the American Society for Testing and Materials. He was also an honorary member of the American Society of Civil Engineers. He received numerous scientific awards and honors from professional organizations and societies throughout his distinguished career. He authored and co-authored nearly 800 technical reports and professional papers. A noted “wordsmith” and “perfectionist” in the English language, he also contributed to the PCI JOURNAL.

A native of Baltimore, Maryland, he obtained a bachelor’s degree in geology from Johns Hopkins University and did graduate studies at Johns Hopkins and American Universities. He received an honorary doctorate from Clarkson University in 1978.

An amateur entomologist and honorary life member of the American Museum of Natural History, eight species of insects are named matheri in his honor. Friends, co-workers, and professional colleagues worldwide will miss him.

[EK & GDN]

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[EK & GDN]

January-February 2002

Credits

The two photographs of the Parthenon (Nashville, Tennessee) that appeared in the November-December 2002 PCI JOURNAL, pp. 16 and 18, were taken by PCI Professional Member Ed McDougle of Ross Bryan Associates, Inc. We inadvertently missed crediting Ed for contributing these pictures in the Convention Highlights.
County Materials Corporation Created

Effective January 1, 2003, County Concrete Corporation and Wisconsin Brick and Block will operate as one entity under the name of County Materials Corporation. Its headquarters will be in Marathon, Wisconsin.

County Concrete Corporation has been in the construction industry since 1946, when it began manufacturing concrete block in Marathon. It has consistently achieved growth by serving new markets and becoming the materials resource for industry professionals.

Established in Madison nearly 100 years ago, Wisconsin Brick and Block has been one of southern Wisconsin’s major brick and concrete products resources.

County Concrete has been adding locations across the state, including the acquisition of Wisconsin Brick and Block in 2001. “Continued growth and product line diversification have made it timely to merge the two companies,” says Tim Sonnentag, general manager of County Materials Corporation. “We believe this new merger will better position our company in the construction industry.”

Combined, the two companies have provided more than 155 years of customer service and product innovation to the industry. County Materials Corporation will operate 20 locations in Wisconsin and eastern Minnesota and will manufacture and supply a broad range of commercial and residential construction products, including standard and decorative concrete block, brick, landscaping products, ready-mixed concrete, precast products such as hollow-core roof and floor systems, prestressed concrete bridge beams and other heavy construction products.

The new company plans to open a third location in the Milwaukee area in the spring of 2003. An office and HomeScape Studio showroom will be located in Waukesha, Wisconsin. Last year the company added a sales office, showroom and storage yard at its Burlington manufacturing facility.

Mixer Systems and Fleming Manufacturing Co. Form Joint Venture

Mixer Systems, Inc., Pewaukee, Wisconsin, has entered into an agreement with Fleming Manufacturing Co., of Cuba, Missouri, to market equipment manufactured by the other.

Mixer Systems’ products include batch plants, automated batch plant controls and the TravelKrete® line of overhead concrete delivery systems.

Fleming Manufacturing Co. is recognized for its “Eagle” brand casting machines, molds and related equipment, and forms for making products such as roof tile, paving stone, block, brick and decorative castings.

Bill Boles, Mixer Systems president, says the arrangement has benefits for the customers of both companies: “The combination of equipment from the two companies offers users the complete package – everything they need to produce quality concrete and a wide range of quality precast concrete products.”

Sika Receives Two Awards

Sika Corporation, Lyndhurst, New Jersey, has earned two International Concrete Repair Institute (ICRI) Awards of Excellence in two categories.

• The Fermi National Accelerator Laboratory project in Batavia, Illinois, received the Award of Excellence in the High Rise category.
• The I-80 Seismic Upgrade in Salt Lake City, Utah, received the Award of Excellence in the Transportation category.

ICRI conducts an awards program annually to honor and recognize outstanding projects in the concrete repair industry. Entries are received from around the world, and the winning projects are honored each year at the annual ICRI Awards Dinner and Reception held during ICRI’s Fall Convention.

FMI Launches Project Management Academy

The FMI Corporation of Raleigh, North Carolina has founded a project management Academy to help less-experienced project managers improve their management capabilities. The Academy uses case-study based training to provide students with the knowledge and experience to confidently and consistently guide projects to completion.

The Academy will be held twice a year at FMI’s Raleigh headquarters and will consist of four 10-hour days in which students are exposed to schedule and budget development and maintenance, change order management, client relations, team coordination and other topics that project managers encounter. With case studies
developed from real construction projects, using real-life documents and situations, the Academy allows students to face and resolve project crises-free of financial risk.

David Stone, FMI senior consultant and coordinator of the Academy says, "Students are guided through a rigorous behavioral analysis to identify and take full advantage of their communication and personality styles."

Two versions of the Academy are available. A version for general contractors is scheduled for January 26-29, 2003, and one for specialty trade contractors will be held February 9-12, 2003. For more information, contact Marcia Benane at (800) 877-1364.

PCA's Structural Concrete Guide Reflects New Design Standard

The Portland Cement Association (PCA), Skokie, Illinois, has released a new edition of its mainstay structural engineering resource, the 1000-page PCA Notes on 318-02 Building Code Requirements for Structural Concrete with Design Applications. Written to help engineers and architects design structural concrete buildings, this eighth edition has been updated to reflect code changes introduced in the latest version of Building Code Requirements for Structural Concrete (ACI 318-02) and Commentary (ACI 318R-02). The new version of the code was published earlier this year and incorporates the most comprehensive changes to ACI 318 since 1963.

All design examples in PCA Notes have been revised to reflect the new load and strength reduction factors and the unified design provisions for reinforced and prestressed concrete members under flexure and axial load.

This edition introduces two new appendices: Appendix A, Strut-and-Tie Model, and Appendix D, Anchoring to Concrete. In addition to cast-in anchors, Appendix D addresses the design of post-installed anchors.

Copies are available from PCA's Web site at www.cement.org/notes.

Molin Concrete Products Supplies Hollow-Core Slabs to School

Molin Concrete Products, Lino Lakes, Minnesota shipped 18,718 sq ft (1740 m²) of 12 in. (305 mm) hollow-core slabs to the New Superior Middle School in Superior, Wisconsin. Hollow-core slabs were selected for their durability, noise and fire resistance, and ability to accommodate long spans at a reasonable cost. The hollow-core slabs were used to create three large mezzanines designed for storage, offices, and accommodation of mechanical and electrical equipment.

The architect was Architectural Resources, the structural engineer, Krech & Ojard, both principals from Duluth, Minnesota. Reuben Johnson & Son was the general contractor for the project.

SALES PROFESSIONALS

Clark Pacific is a Sacramento, California based architectural and structural precast producer. We are currently seeking a motivated, results-oriented sales professional to develop and follow up on design/build projects and build long-lasting relationships with clients. Our ideal candidate is a civil engineer or architect experienced in precast parking garages and architectural precast concrete with 5+ years of proven sales experience. Excellent benefit package.

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