

TECHNICAL ACTIVITIES

Technical Activities Committee

On Tuesday, October 18, 2005, the Technical Activities Committee (TAC)



Michael W. LaNier

(**Michael W. LaNier**, chair) held a meeting during the 51st annual PCI Convention/Exhibition in Palm Springs, Calif. The following discussions took place.

Chair LaNier began with a brief synopsis of the major decisions made by the Board of Directors (BOD) during its meeting on October 16, 2005.

- In the Executive Committee meeting, considerable time was spent discussing a letter from **Thomas D'Arcy** to the Plant Certification Committee. This letter was based on a survey commissioned by the Executive Committee. The Plant Certification Committee is being asked to revisit the program to address a variety of concerns identified with the survey and to determine ways to further improve this industry-leading quality assurance program.
- D'Arcy was approved as the *fib* representative. The *fib* representative will also be a voting position on the PCI TAC.
- There was discussion of the Certified Company Auditor program for the Field Certification program. PCI has decided to bring the management of this effort in-house.
- After determining that Marketing funds were available, funds were released for development of the Fire Notebook.
- PCI staff is advancing work to move its headquarters. If financially feasible, the first preference is to construct a building. A site near O'Hare

Airport in Chicago, Ill., is being evaluated; PCI has made a contingent offer on the site and a due diligence investigation is continuing.

- The new computer system is being implemented at PCI headquarters and is expected to be completely in place by spring 2006. Currently the accounting information is being transitioned to the new system.
- The PCI website is being updated; the structure is complete and the site is being debugged.
- PCI will cosponsor the Manufactured Concrete Products Expo (MCPX) this year.
- Staffing needs at PCI include: a Continuing Education/Foundation Director, a Senior Technical Associate, and a Technical Editor for the *PCI Journal*.
- The Research and Development Committee approved research on welding and pile spirals.
- The Professional Member Committee is proposing a program to offer students a one-year free membership their first year out of school, to be classified as a Professional Associate member.
- Erectors are working on a format for site-specific erection plans that addresses stability during construction. This will be coming to TAC for review.
- PCI Central was accepted as a PCI Chapter affiliation per the new Section 30 procedures of the by-laws.
- The BOD voted to make Erectors a new class of membership in PCI and provided them with two seats on the BOD.
- CPCI indicated it is continuing to investigate a CPCI/PCI merger and is continuing to identify issues/concerns that must be addressed.
- Business is generally good across the country, but many areas are seeing labor shortages and most areas are seeing either cement

shortages or significant cement price increases.

The status of active PCI documents was then discussed by **Jason Krohn**, Technical Director at PCI.

- **Bridge Repair Manual:** The manual is currently in the copyediting stage at PCI. The committee has discussed publishing the manual without photos because it has not been able to obtain high-quality images.
- **Connections Manual:** The technical writing should be finished and balloted by the committee by mid-January and should be ready to go to TAC for its review at Committee Days in April 2006.
- **MNL 124-Fire Manual:** The final production draft is out for review by ICC. Once ICC reviews the document and its comments are incorporated, the document will be printed.
- **Fire Code Notebook:** Agreement has been reached with the Marketing Committee over funding for the writing of the publication.
- **MNL 117-Architectural Quality Control Manual:** The committee met in November to finalize content for this document.
- **MNL 130-GFRC QC Manual:** The document has been balloted by TAC and the comments are currently under review by the committee.
- **Hollow-core Manual:** This document is in the initial drafting stage.
- **Seismic Design Handbook:** Chapters 1 and 5 are edited to proof, Chapter 2 is being edited, Chapters 3 and 4 are under review, and Chapters 6 and 7 are being developed.
- **Total Precast Manual:** The committee is working on a marketing-focused publication to support the Marketing Committee.

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- **SCC Guidelines:** The guide specification for SCC requested by FHWA is being prepared by the Concrete Materials Technology Committee and will be ready for TAC review by June 2006. It was noted that ACI 237 is developing an SCC Standard of Practice that will replace the PCI Interim Guidelines for SCC. Thus, PCI is not planning an update of the Interim Guidelines for SCC.
- **TM 101-Personnel Training Manual:** This document will soon be ready for layout by the PCI production department.
- **Architectural Manual:** This document will be ready for TAC review by January 2006.

The next order of business was a discussion on the model code activities, specifically a preliminary discussion of the results of the 2033 Strategic Code Framework meeting held September 1, 2005, at PCI headquarters in Chicago. The main concern of the TAC was how to implement each of the code strategies identified, specifically, which committees should be assigned to which task. It was decided that it was also impor-

tant to track ongoing/current activities at headquarters to avoid duplication of efforts. At the end of the discussion, TAC members were assigned to brainstorm ideas of how to discuss the draft framework at the winter meeting in February.

Under old business, two primary items were discussed: the status of the comprehensive strategy on fire and an update on the strand bond issue. For the former item, it was decided that further discussion should take place at the winter meeting; there, **Stephen Pessiki** with Lehigh University will present a white paper he wrote on fire. Regarding the strand bond issue, there was an update at the Strand Bond Task Force meeting where **Bruce Russell** of Oklahoma State University, representing the NASP group of strand suppliers, outlined the status of the NASP strand bond confirmation test he is developing on behalf of the strand supplier group. Russell indicated that his work on this program should be complete in mid-January 2006, and he feels that the test is a viable way to confirm the bonding qualities of strand. At the summer meeting, the PCI BOD authorized funding up to \$50,000 to independently review and confirm that the NASP test is a viable way to confirm the bonding

qualities of strand. A PCI program to accomplish this confirmation of the NASP test will be discussed at the winter TAC meeting.

Under new business, LaNier agreed to request TAC and fire expert review of a code fire provision change proposed by ACI 318-F for **Steve Seguirant**. Also, TAC unanimously voted to propose to the BOD a name change under the PCI by-laws from Professional Intern to Professional Associate.

Building Code Committee

The PCI Building Code Committee (**Roger J. Becker**, chair) held its meeting on Sunday, October 16, 2005, during the 51st annual PCI Convention/Exhibition in Palm Springs, Calif. The following major actions took place.

Kim Seeber identified the International Residential Code as an issue that could be covered under the committee. It was felt PCI should attempt to influence the International Code Council (ICC) to include prescriptive requirements for precast concrete housing to minimize the engineering normally required to design with precast concrete (similar to the approach taken by the Insulating Concrete Form Association [ICFA]). **S. K. Ghosh** indicated that the Federal Emergency Management Agency (FEMA) may support such an effort in light of recent disasters and will contact FEMA regarding solicitation of funds.

On the topic of influencing codes in the seismic design arena, many topics were discussed. **S. K. Ghosh** requested input on the issues and solutions regarding seismic design that the precast concrete industry needs resolved so that he may focus his efforts. Because ASCE will be the standard adopted by the International Building Code, it was emphasized that PCI needs parallel representation with the American Concrete Institute emphasis in that standard.

PCI has formed a new committee on blast and structural integrity, with the hope to influence ASCE-7 on its blast provisions.

The fire subcommittee has completed work on MNL 124 and will move forward on new technical fire topics. **Ed Gregory** presented the work of the fire task force, namely that ICC is looking for help with continuing train-

PCI TOLERANCE COMMITTEE NEEDS YOU

PCI is soliciting a chairman and interested participants for the re-formation of the PCI Tolerance Committee. Previously, this committee developed manual MNL-135, *Tolerance Manual for Precast and Prestressed Concrete Construction*. The publication of this manual established PCI as one of the tolerance leaders in the construction industry. After the publication of this manual in 2000, the committee asked to be discharged, as their mission had been completed.

With the advent of new CAD technology, new connection technology, and the continuing evolution of interfacing building systems, there is a need to take another major step forward to maintain the PCI construction tolerance leadership in the building and bridge construction industry.

This committee needs members with both practical and theoretical tolerance backgrounds and/or interests. Members with a knowledge of precast quality control, field construction quality control, and erection of precast concrete members would also be excellent contributors to the work of this committee.

If you have an interest in this very important subject, contact **Jason Krohn**, PCI Technical Director, at jkrohn@pci.org for appointment to this committee.

ing of building code officials. Gregory will submit another course on precast concrete to the ICC. Per a request by the ICC, **Gregory Force** volunteered to chair a subcommittee that will make recommendations to the ICC on special inspection requirements for precast concrete construction and support the ICC with training programs.

Two other committees were identified that could use PCI representation—ASCE 24 on Flood Resistant Design and ASTM E54 on Homeland Security.

Design Handbook Committee

The PCI Design Handbook Committee met on Sunday, October 16, 2005, in Palm Springs. **Gregory Force**, chair, led the discussion. Major actions included a request of the subcommittees to review the submitted errata on the sixth edition of the Design Handbook. Errata will continue to be collected through March, with review by the committee at Committee Days in April 2006 and publishing in the July-August 2006 issue of the *PCI Journal*. The "Background and Discussion" for the sixth edition is scheduled to be published as a pull-out section in the March-April 2006 *PCI Journal*. The target publication date of the seventh edition of the handbook was set for summer/fall of 2009. An advertisement for an Editor for the seventh edition is posted in the Marketplace section of this issue of the *PCI Journal*.

RESEARCH AND DEVELOPMENT

Nominations for Fellows

It's not too early to begin thinking about nominations for Fellows of PCI for 2006. The Fellows Award is intended to honor current or former PCI Members for outstanding contributions to the precast, prestressed concrete industry and to PCI. Candidates for the award must be, or have been, either employees of Producer or Associate Producer Member firms, Professional or Affiliate Members, or retired PCI staff. Candidates must have been active in one or more of these membership categories for at least 10 years to be considered. Nominations should

be submitted to PCI headquarters on the official application form by **April 28, 2006**, to be considered for the 2006 awards. Application forms are available on request from PCI.

Research Fellowship Proposals Solicited

Requests for proposals for 2006–2007 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 2006.

Proposals must be received at PCI headquarters by **March 1, 2006**. Proposals will be initially evaluated by the PCI Research and Development (R&D) Committee (**C. Douglas Sutton**, chair) and the final selections will be made during PCI Committee Days, April 27–29, 2006.

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 **Paul Johal** at (312) 360-3213, email: pjohal@pci.org.

Research Proposals Solicited

The PCI Research & Development Committee (**C. Douglas Sutton**, chair) invites proposals for conducting research on "Development of Rational Design Methodology for Spiral Reinforcement in Prestressed Concrete Piles in High Seismic Regions."

The scope of work includes:

- Review existing research data and evaluate current code provisions on requirements for spiral reinforcement in prestressed concrete piles used in high seismic regions.
- Perform analytical studies, and develop a simple design procedure to determine the minimum quantity of Grade 60 spiral reinforcement to achieve a minimum target ductility.

- Prepare a final report summarizing the analytical work and the recommended design equations, including examples and language for modification of ACI 318 and other applicable codes.

The proposals must be received at PCI headquarters by **March 15, 2006**. To obtain a copy of the Project Research Statement and RFP, contact PCI Research Director **Paul Johal** at (312) 360-3213, email: pjohal@pci.org.

Engineering Student Design Competition: Big Beam Contest

The PCI Student Education Committee (**Pat Hynes**, chair) is inviting entries from engineering students to participate in the PCI Engineering Student Design Competition for the year 2006. With the help of local PCI Producer Members, students will construct and test 16-ft (4.9 m) span precast, prestressed concrete beams. The awards program, sponsored by Sika Corp., will include

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Bridge Engineering. Top to Bottom.	
PSBeam™	Prestressed Concrete Bridge Girder Design
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NEW APPOINTMENTS TO PCI COMMITTEES

The following individuals have accepted appointments to PCI committees. We appreciate their interest and voluntary participation.

Blast Resistance and Structural Integrity Committee

Chris Kercksmar, P.E.

Schwab Structural Engineering Inc.
New Braunfels, Tex.

Sanaa Alaoui

Consulting Engineers Group Inc.
San Antonio, Tex.

Corresponding Member

David Wan

Oldcastle Precast Building Systems
South Bethlehem, N.Y.

Parking Structures Committee

Erich Martz

Coreslab Structures
Marshall, Mo.

Skip Francies

Meadow Burke
Tampa, Fla.

Charles Lowe

Meridian Precast & Granite Inc.
Waco, Tex.

Precast Sandwich Wall Panels Committee

Rex C. Donahey

American Concrete Institute
Farmington Hills, Mich.

Seismic Committee

Kamal R. Chaudhari

LEAP Associates International Inc.
Tampa, Fla.

Student Education Committee

Chris Kercksmar, P.E.

Schwab Structural Engineering Inc.
New Braunfels, Tex.

Wael Zatar

West Virginia University
Montgomery, W.Va.

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cash prizes for the most efficient design, highest load capacity, best report, and other categories. Applications are due at PCI headquarters by **March 15, 2006**, and reports by **June 15, 2006**. PCI Producer Members are urged to encourage their local engineering schools to participate in this program. For more information on official rules and application forms, go to the PCI website at www.pci.org (education) or contact PCI Research Director **Paul Johal** at (312) 360-3213, email: pjohal@pci.org.

Young Educator Achievement Award

The PCI Student Education Committee (**Pat Hynes**, chair) invites nominations from PCI members for the PCI 2006 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 1, 2006**. For nomination forms and additional information, contact PCI Research Director **Paul Johal** at (312) 360-3213, email: pjohal@pci.org.

Distinguished Educator Award

The PCI Student Education Committee (**Pat Hynes**, chair) invites nominations from PCI members for the PCI 2006 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 1, 2006**. For nomination forms and additional information, contact PCI Research Director **Paul Johal** at (312) 360-3213, email: pjohal@pci.org.

Architectural Student Design Competition

The PCI Student Education Committee (**Pat Hynes**, chair) invites entries from architectural students and IDP interns for the PCI 2006 Architectural

Student Design Competition. The program, sponsored by AXIM Italcementi Group and Fister Quarries Group Inc., includes cash prizes for the best design and other categories. This year's competition will be the design of a new School of Architecture and University Museum Complex. The design project must be completed and submitted by **May 1, 2006**. For competition information and submittal requirements, visit the PCI website at www.pci.org (education). The entries will be judged by a special jury at the 2006 PCI Design Awards Judging Program in Chicago, and the winners will be recognized at the 2006 PCI Annual Convention in Grapevine, Tex. 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) 360-3213, email: pjohal@pci.org.

INDUSTRY PEOPLE

PCI Adds New Graphic Designer, Information Management Director

Edward Derwent recently joined PCI as a graphic designer in the production department. Ed designs layouts for the *PCI Journal*, marketing materials, and numerous other PCI publications. He has over 25



Edward Derwent

years of experience in desktop publishing and the print production industry. Formerly with Computer Discount Warehouse, Ed was responsible for setting up the original CDW in-house advertising department. At SciTech International, a computer software distributor, he was responsible for producing two quarterly catalogs and web graphics. Ed has an M.F.A. from the School of the Art Institute of Chicago and his glass tapestries have been exhibited throughout the United States, most recently at the Isabella Stewart Gardner Museum in Boston, Mass.

Allyn Okun is the new Information

Management Director for PCI. Allyn brings nearly 10 years of experience in the information technology industry to PCI. Previously, he has worked for technology consulting firms, a software company, and an electronic trading firm and most recently has worked as an independent consultant. He has been actively involved in strategic and tactical planning in working to help many businesses grow. Allyn has an M.S. from the Center for Information and Communication Sciences at Ball State University, Muncie, Ind., and a B.S. in Telecommunication from Ball State University.



Allyn Okun

Ben C. Gerwick Inc. Promotes Henrik Dahl to Vice President

Henrik Dahl, P.E., was promoted to vice president of **Ben C. Gerwick Inc. (BCG)** on July 7, 2005. Since joining BCG in 1993, Dahl has played key roles in the construction of several major marine structures, as lead design engineer during the design phase and engineering manager during the construction



Henrik Dahl

phase of the seismic retrofit of the Richmond-San Rafael Bridge in California; as lead analysis engineer (developing the finite element model) on Braddock Dam near Pittsburgh, Pa.; as lead engineer for VE design of the float-in foundation caissons for the main towers on the Carquinez Suspension Bridge in Crockett, Calif.; as lead engineer for the design of the substructure for a 3000-ft-long berth using performance-based criteria on Port of Oakland berths 57 and 58 in California; as lead engineer for the design-build deck of Navy Pier 10/11 San Diego, Calif., which finished under budget and eight months ahead of schedule; and as project manager for

BCG for the support and design of the precast yard on Olmsted Dam in Illinois.

Before joining BCG in 1993, Dahl worked for BCG parent COWI Consulting Engineers and Planners AS of Copenhagen, Denmark. He has 18 years of experience in structural design and analysis of marine structures, including bridges, piers/wharves, and dams.

Dahl graduated from the University of Aalborg, Denmark, with an M.S. in civil engineering in 1987.

AXIM Cofounder Don Lane Promoted to General Manager

Don Lane, cofounder of **AXIM Concrete Technologies Inc.**, was promoted to general manager. In this role, he will provide strategic direction to deliver the company's excellence in products and unique service offerings. Lane has a long record of innovative product solutions, which have placed AXIM on the forefront of concrete admixture technology. Among these solutions is the only patented air-entraining admixture for concrete, CATEXOL A.E. 260. The company has several other initiatives under way to strengthen development capabilities, increase quality, broaden information technology, and offer the most comprehensive concrete materials product line.



Don Lane

Lane is a contributing member of ASTM, ACI, ACPA, NRMCA, the Masonry Society, and Cement Chemist Society.

INDUSTRY FIRMS

ACI Honors and Awards Programs

The **American Concrete Institute (ACI)** is seeking your nominations for its Honors (Honorary Member and Fellow of the Institute) and Awards Programs (Personal Awards for individual merit or to an organization and for the Young Member Award for Professional Achievement).

To nominate an individual or organization, go to www.concrete.org/about/ab_awards.htm, where you can choose the honor (ACI Honors) or awards category (Awards & Scholarships) for which you would like to nominate someone. Links to nomination forms for each honor or award may be found on the individual websites.

If you have any questions regarding the nomination process, please contact: **Diane Pociask**, administrative assistant, ACI Honors and Awards Program, at ACI Headquarters, 38800 Country Club Drive, Farmington Hills, MI 48331; tel.: (248) 848-3831; fax: (248) 848-3768; or email: diane.pociask@concrete.org.

Please submit nominations by **February 15, 2006**.

International Conference on Long-Life Concrete Pavements

Papers and conference presentations are being solicited for the International Conference on Long-Life Concrete Pavements, to be held October 25–26, 2006, in Chicago, Ill.

Submissions are desired on a range of topics dealing with technologies that result in long-life concrete pavements, including pavement analysis, design, and construction; concrete ma-

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terials; pavement performance; repair and rehabilitation; user expectations; and life-cycle cost analysis. Papers on international experiences and practices are especially welcomed. Papers and presentations dealing with emerging topics related to long-life concrete pavements are also encouraged.

Paper acceptance is on the basis of manuscript peer review. The presentation and manuscript must not be of a commercial nature, must not have been previously published, and should be no more than 7500 words or 25 pages in length. Each table and figure will count as 250 words. The paper review copies should be submitted as a PDF file or a Word document, either format not to exceed 10 MB in size. Papers will be prepared using Times Roman, 12 pt. font, and the text will be single-spaced.

Each selected paper will be peer reviewed by members of the Technical Program Subcommittee of the Conference Steering Committee. Final selection will be made after the completed papers have been reviewed. All papers selected for presentation at the conference will be distributed to conference attendees on a CD and as part of the printed conference proceedings.

One-page abstracts are due **March 1, 2006**. Authors will be notified of acceptance by March 15, 2006. Completed papers are due for review by **April 15, 2006**, with notification of final disposition of papers (and review completed) by June 1, 2006. Electronic versions of final papers are due **July 1, 2006** and electronic presentations due **September 15, 2006**.

Paper abstracts should be submitted to: **Seungwook Lim, PE**, Construction Technology Laboratories, Inc., at 5565 Sterrett Place, Suite 312, Columbia, MD 21044; tel.: (410) 997-0400; fax: (410) 997-8480; or email: swlim@CTLgroup.com.

Please note that abstracts are due by **March 1, 2006**.

2006 PCA Concrete Bridge Awards

The **Portland Cement Association (PCA)** is seeking nominations for its tenth biennial Bridge Awards Competition. The program, cosponsored by

Roads & Bridges magazine, recognizes excellence in design and construction of concrete bridges.

All types of bridges in which the basic structural system is concrete—highway, railway, and pedestrian—are eligible. Entries are encouraged for cast-in-place or precast concrete bridges with short, medium, or long spans. Newly constructed, reconstructed, or widened structures qualify for the competition.

Submitted bridges will be judged by a jury of distinguished professionals, including representatives from the Federal Highway Administration and state departments of transportation. PCA and *Roads & Bridges* will announce the winning projects at the American Concrete Institute Fall Annual Convention, November 5–9, 2006.

Public and private organizations may submit as many bridges as desired. Structures must have been essentially completed between June 2004 and March 2006 and must be located within the United States or Canada. Entries are due by **March 31, 2006**.

Entry forms are available for download (PDF) at www.cement.org/bridges. For more information, contact: **Shri Bhide** at PCA, tel.: (847) 972-9100; or email: sbhide@cement.org.

Slag Cement Association 2006 Awards

The **Slag Cement Association (SCA)** announces a call for entries for its 2006 awards. The awards, given annually, are open to any concrete structure that uses slag cement, including buildings, bridges, dams, infrastructure, pavements, and more. SCA will present awards in four categories: strength, beauty, durability, and sustainability.

Entry forms are available online at www.slagcement.org. Entries must be postmarked or emailed no later than **January 16, 2006**, to be considered. SCA will present the awards at its annual meeting in spring 2006. Projects must have been completed between January 2003 and December 2005 to be eligible.

Previous winners include Milwaukee's Kilbourn Tower, a 34-story, residential high-rise overlooking Lake Michigan that utilized performance concrete made with ternary portland

cement/slag cement/fly ash mixtures in virtually all of the concrete in the building; Delaware Route 1, a new toll road leading vacationers to Delaware's popular beaches, which defeated alkali-silica reaction in its pavements and structures through the use of slag cement in quantities up to 50% of cementitious material; and the Appleton, Wis., site of a We Energies' former manufactured gas plant, in which a 75% slag cement/25% portland cement blend was used for in-place stabilization operations that helped turn the brownfield into a site where future recreation and development can take place.

For more information and an entry form, visit www.slagcement.org or call SCA at (281) 340-8550.

SCC 2005 Conference Success in Chicago

More than 500 design engineers, materials technologists, academics, manufacturers, and admixture suppliers from North America and around the world attended the Second North American Conference on the Design and Use of Self-Consolidating Concrete (SCC) and the Fourth International Rilem Symposium on Self-Compacting Concrete at the Westin Hotel in Chicago, Ill., October 30 to November 2, 2005.

The symposium was organized by the Center for Advanced Cement-Based Materials at Northwestern University. Professor **Surendra P. Shah**, director of the Center for Advanced Cement-Based Materials, was chairman and chief organizer of SCC 2005. PCI was a cosponsor of the symposium, with several PCI professional members participating in the symposium and making presentations. Ten major topics were covered, and there were 150 presentations.

ASW Announces Major Capital Investment Program

American Spring Wire Corp. (ASW) plans to invest over \$12 million in capital improvements over the next 15 months. This capital will be spent, in addition to significant investments recently made in tooling and die making, surface shaving, and equipment, to improve the efficiency of oil tempering.

A significant portion of the investment is intended for the Bedford

Heights, Ohio, production facility, which manufactures valve and commercial-grade spring wires, and prestressing strand. The remainder of the investment will be spent for a new wire drawing line, a new stranding line, and pickling capability improvements at its Houston, Tex., manufacturing facility. The new equipment will allow the company to decommission some aging machinery.

Timothy Selhorst, president and CEO of ASW, said, "As the primary producer of prestressing strand in the important Texas market, we recognize the necessity to use the world's best machinery and technology, thereby strengthening the already strong commitment we have to the prestress and post-tensioning community." He also said that the capacity of the factory will increase but that the primary objective of the investments is to be able to grow with the expanding requirements of ASW customers. ASW has owned the Houston operation since 1997 and makes only prestressing strand at that location.

Figg's Susquehanna Bridge Makes Top 10 in Roads & Bridges Magazine

Roads & Bridges named Figg's Susquehanna Bridge one of the Top 10 Bridge Projects for 2004.

The 5900-ft-long bridge for the Pennsylvania Turnpike Commission will be the first precast concrete vehicular bridge in the state. The bridge is under construction and is scheduled to open in 2007.

Figg's Penobscot River Bridge for the Maine Department of Transportation and the Indian River Bridge for the Delaware Department of Transportation also received top honors from *Roads & Bridges* magazine.

Poured-in-Place Wall Demo Features Form Liner, Rim Snap®, and Self-Consolidating Concrete

The American Society of Concrete Contractors held its annual meeting in September in Westminster, Colo. Scott System joined forces with Meva Forms, Agilia Concrete, Baker Concrete, and Colorado Hardscapes to demonstrate the use of self-consolidat-

ing concrete with form liners and integrally cast brick in a two-sided wall. The 4 ft x 6 ft wall featured a form liner texture with a wheat and fossil pattern on one side and a unique brick pattern on the other side. The form liners and Rim Snap system were easily attached to the Meva forms, to which were added a mild-steel reinforcement and a black Agilia concrete. The forms stripped easily, and the finished wall revealed all of the fine details of the form liner products in a poured-in-place wall. Information on the demo is posted on the website at www.scottsystem.com.

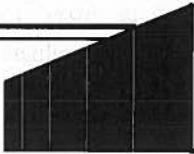
Sika Wins Four ICRI Awards and Five ASBI Awards

Sika Corp. of Lyndhurst, N.J., announced that it received four **Inter-**

national Concrete Repair Institute (ICRI) awards: Award of Excellence in the Historic Category for Alcatraz Cellhouse in San Francisco, Calif.; Award of Excellence in the High-Rise Category for One and Four Longfellow Towers in Boston, Mass.; Award of Merit in the Parking Deck Category for 6th Street Parking Deck in Louisville, Ky.; Award of Merit in the Longevity Category for Baldwin Reservoir in Cleveland, Ohio.

ICRI conducts an annual awards program to honor and recognize outstanding projects in the concrete repair industry. Entries are submitted from around the world and are judged on uniqueness, use of state-of-the-art

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methods, use of materials, functionality, value engineering, and aesthetics.

Sika also announced that at the 2005 **American Segmental Bridge Institute (ASBI)** Convention in Washington, D.C., it received five ASBI Bridge Awards of Excellence for its SR 9/I-95 Palm Beach International Airport Interchange, West Palm Beach, Fla.; Victory Bridge between Perth Amboy and Sayreville, N.J.; Four Bears Bridge, New Town, N.Dak.; JFK Airtrain, Queens, N.Y.; and Route 365 Creve Coeur Lake Memorial Park Bridge, St. Louis County, Mo.

The ASBI biennial awards program recognizes bridges that show excellence in concrete segmental bridge design and construction. Judging is based on innovation of design and/or construction, rapid construction, aesthetics and/or harmony with the environment, cost competitiveness, and minimization of construction impact on the traveling public.

For more information, contact: **Nicole Figuccio**; tel.: (201) 933 8800; fax: (201) 933 6225; or email: figuccio.nicole@sika-corp.com.

Tindall Completes Edgewood Retail/Parking Project

Tindall Corp. of Spartanburg, S.C., has completed a major portion of the Edgewood Retail District, a high-density retail development in metro Atlanta, Ga., according to **Gregory F. Force**, P.E., president, and COO.

The project required a unique approach to parking. Although the structures were part of a high-density, urban retail development, the major design goal was to hide as much parking as possible to maintain the look and feel of a small-town atmosphere.

Tindall accomplished the goals by minimizing street-level parking and parking deck size while maximizing underground parking. Stairs and elevators allow access from the underground parking to the front of all stores. Shoppers in the lowest level have the same distance or less to walk as those in the aboveground deck or street-level spaces.

Liteframes were used in the multi-level parking deck to provide as much

openness in the deck as possible, an additional safety feature for shoppers.

For more information, contact: **Dean Campbell** of Shorey and Associates, tel.: (864) 242-5407 or fax: (864) 242-5456.

CONTINUING EDUCATION

Joints, Bearings, and Devices Seminar Offered by ASCE

The new Joints, Bearings and Devices (JBD) seminar offered by the **American Society of Civil Engineers (ASCE)** will be February 2–3, 2006, in Las Vegas, Nev., and March 2–3, 2006, in Philadelphia, Pa.

Attendees will gain an understanding of JBD, including theory, design, installation, and maintenance; practice JBD mechanics; learn what transportation departments are doing with JBD; review benchmark JBD independent studies and surveys; evaluate JBD durability using reliability-based design techniques; review failure mechanisms, including fatigue and corrosion fundamentals; and perform seismic analyses with various JBD configurations.

For more information, contact: **ASCE Continuing Education**, P.O. Box 79536, Baltimore, MD 21279-0536; tel.: (800) 548-2723 or (703) 295-6300; fax: (703) 295-6144; email: conted@asce.org; or website: www.asce.org/conted/.

Fundamentals of Structural Design for Architects, Builders, and Technicians Course Offered by University of Wisconsin-Madison

The University of Wisconsin-Madison Department of Engineering Professional Development will offer Fundamentals of Structural Design for Architects, Builders, and Technicians, March 27–31, 2006, in Las Vegas, Nev.

This course will benefit technical support staff members in design/construction fields who want to learn how to solve routine building structural problems, building inspectors, plan reviewers, designers and drafters, technicians, materials suppliers, architectural interns, and builders/constructors.

Attendees will discuss forces and

how to resolve them to solve simple beam, column, truss, and frame problems; learn how to estimate dead, live, and other loads and where to find load information; construct free-body, shear, and moment diagrams and learn how to use them to size and select members; study the basics of strength of materials; and learn about centroids, moment of inertia, section modulus, and radius of gyration and find out why these properties are important to beam and column selection.

For more information, contact: **Bruce D. Kieffer**; tel. (608) 262-2624; email: kieffer@epd.engr.wisc.edu; or website: www.epdweb.engr.wisc.edu/WEBH216.

Structural Design for Non-Structural Engineers Course Offered by University of Wisconsin-Madison

The University of Wisconsin-Madison Department of Engineering Professional Development will offer Structural Design for Non-Structural Engineers, March 27–31, 2006, in Las Vegas, Nev.

This course will benefit architectural and non-structural engineers, plant engineers, and others who want to learn about structural systems and solving routine structural problems.

Attendees will learn structural design basics for concrete, steel, and wood buildings and industrial facilities; understand, compare, and evaluate alternative structural systems, review recent code changes affecting structural design, and develop shear and moment diagrams; determine and apply loads; select appropriate systems and materials; calculate member sizes; solve day-to-day incidental structural problems; design footings, foundations, columns, beams, floor systems, shear walls, and diaphragms; evaluate structural requirements; design simple structures; and size equipment supports and components.

For more information, contact: **Bruce D. Kieffer**; tel. (608) 262-2624; email: kieffer@epd.engr.wisc.edu; or website: www.epdweb.engr.wisc.edu/WEBH217.

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PROFESSIONAL MEMBERSHIP APPLICATION

MAIL TO:

PCI MEMBER SERVICES
209 WEST JACKSON BLVD., SUITE 500
CHICAGO, ILLINOIS 60606
PHONE: 312-786-0300 • FAX: 312-786-0353
E-MAIL: memberservices@pci.org
WEB: www.pci.org

Professional Member: Any person who is a registered architect or engineer, or any person who is deemed by the Board of Directors to have abilities or credentials equal to or above the registration qualifications.

Check One:

REGISTERED ENGINEER

☐

REGISTERED ARCHITECT

☐

APPLICANT NAME		CREDENTIALS (check all that apply) ☐ AIA ☐ RA ☐ PE ☐ SE ☐ PhD ☐ Other _____	
ADDRESS FOR RECEIPT OF MAIL			
CITY, TOWN OR POST OFFICE, STATE AND ZIP CODE			
PHONE		FAX	
E-MAIL			
ORGANIZATION		TITLE	
COMPANY ADDRESS (IF OTHER THAN ABOVE) NUMBER AND STREET			
CITY, TOWN OR POST OFFICE, P.O. NUMBER IF APPLICABLE			
NATURE OF COMPANY'S BUSINESS AND/OR PRODUCTS			
WEB ADDRESS			
I HOLD REGISTRATION NUMBER _____ IN THE STATE OF _____			
PRIMARY OCCUPATION (check all that apply) ☐ Academic ☐ Architect ☐ Bridge Engineer ☐ Consultant ☐ Contractor ☐ Design/Build ☐ Governmental ☐ Precast Manufacturer ☐ Structural Engineer ☐ Other _____			
PRIMARY EXPERTISE (check all that apply) ☐ Concrete Materials ☐ Drafting ☐ Design ☐ Research ☐ Codes/Standards ☐ Education ☐ Hollow Core ☐ QA/QC ☐ Management ☐ Marketing/Sales ☐ Disaster Mitigation (fire, seismic, blast, etc.) ☐ Specialty Products (poles, piles, soundwalls, ties, etc.) ☐ Other _____			
ANNUAL FEE = \$110 (NON-U.S. = \$140) (U.S. ACADEMIC EMPLOYEE = \$50). PAYMENT IN U.S. DOLLARS DRAWN ON A U.S. BANK MUST ACCOMPANY THIS APPLICATION. Fee is not deductible as charitable contributions for federal income tax purposes, but may be deductible by members as a business expense.			
NON-PRODUCER APPLICANTS		PRODUCER APPLICANTS	
PAYMENT REQUIRED FOR NON-PRODUCER PROFESSIONAL APPLICATIONS ☐ Check: ☐ MasterCard ☐ Visa Card Number _____ Exp. Date _____ Card Holder's Name as Appears on Card _____ Billing Address: _____		PRODUCER MEMBER EMPLOYEES NO FEE — PRODUCER AUTHORIZED SIGNER REQUIRED Authorized Signer Name _____ Authorized Signature _____	

Repair of Concrete Course Offered by University of Wisconsin-Madison

The University of Wisconsin-Madison, Department of Engineering Professional Development will offer a course Repair of Concrete, April 4-6, 2006, in Madison, Wis.

This intensive, three-day course for concrete contractors, engineers, architects, and other decision makers dealing with concrete repair will bring you up to date on cost-effective repair methods.

Attendees will discuss what causes concrete to fail and how to ensure good concrete construction from the beginning, how to assess the extent of concrete damage or deterioration on your project, what repair materials and methods to use for specific concrete failures, what methods to use for effective structural repairs, how to employ polymer materials for concrete repairs and how to select cost-effective concrete repair procedures.

For more information, contact: **Raymond C. Matulionis**; tel.: (608) 263-3372; email: matulionis@epd.engr.wisc.edu; or website: www.epdweb.engr.wisc.edu/WEBG674.

INDUSTRY PRODUCTS

Slag Cement Association Publishes LEED-NC Guide

The Slag Cement Association announces the release of a new publication designed to make it easier to use slag cement to earn points toward certification in the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED™) Green Building Rating System. *LEED-NC 2.1 Guide: Using Slag Cement in Sustainable Construction* was released in conjunction with the Greenbuild International Conference & Expo in Atlanta, Ga., November 9-11, 2005.

Designed to assist engineers and architects in specifying slag cement, the publication offers step-by-step guidance on using slag cement to earn points toward Sustainable Sites, Materials & Resources, and Innovation &

Design credits. Sidebars examine successful sustainable projects and their incorporation of slag cement to meet specific goals. Technical guidance refers designers to strategies for getting the most out of the material. Starting November 9, the guide will be available for download at www.slagcement.org.

For more information, contact: **Jan Prusinski**, executive director; tel.: (281) 340-8550; or email: jprusinski@slagcement.org; or **Jennifer Prokopy**, media relations manager; tel.: (773) 935-9246; or email jenni@orange-grovedmedia.com.

Huron Introduces Concrete Mold Release Agent for Decorative Concrete Products

Through more than five years of research, testing, and use at its customer locations, **Huron Technologies Inc.** of Huron, Mich., announced the introduction of its Release Coating 6187, which is formulated to make it easier to release decorative concrete products from their molds. This new agent is designed to reduce the ongoing problem of concrete sticking to molds and to produce a smooth, complete product that retains its original design, including intricate details.

Huron says that Release Coating 6187 is especially effective on large parts and parts with extremely vertical surfaces. The coating contains solvent and silicone release materials for in-plant concrete product production lines and is available in 5 gal. containers and 55 gal. drums. For more information, contact: **Val Nelson**, tel.: (517) 589-0300; fax: (517) 589-0390; or email val.nelson@hurontech.com.

Sika Releases New One-Component Color Card

Sika Corp., based in Lyndhurst, N.J., released a new One-Component Color Card. The pamphlet displays the 19 standard colors that Sika supplies for its line of building sealants. The brochure includes a list of Sika products and in which color each product is available.

For more information, contact: **Nicole Figuccio**; email: figuccio.nicole@sika-corp.com.



Technical Editor PCI Journal

The Precast/Prestressed Concrete Institute (PCI), a Chicago-based leading national association, is seeking a Technical Editor for the *PCI Journal*.

The Editor will be responsible for the technical edit of accepted manuscripts for the bi-monthly *Journal*. Ideal candidates will have a BSCE with 3 to 5 years of engineering design experience, preferably in the design of concrete structures (an MSCE and/or PE is a plus). Prior editorial experience is preferred, but not necessary.

Primary duties will include:

- Checking accuracy of figures for manuscripts;
- Preparing reference cards, keywords, and coming ahead items;
- Preparing annual author and subject index;
- Checking and assisting in writing of industry news and technical features, including coordination of freelancers;
- Acting as staff liaison of association committee(s); and
- Maintaining and cultivating interest in precast/prestressed concrete with community of authors and reviewers.

The Technical Editor will also assist the Editor-in-Chief in his or her duties including:

- Performing review and selection of outside reviewers of submitted manuscripts;
- Preparing *Journal* cover design;
- Developing staff-written articles, including technical and non-technical;
- Reviewing outside technical publications;
- Preparing contents page;
- Planning future articles/issues;
- Managing *Journal* awards program; and
- Assisting chair of *Journal* advisory committee.

Please reply via email to careers@pci.org, attaching your resume as well as a cover letter indicating your compensation requirements. Local candidates preferred.