

Convention

BREAKING THE MOLD: MATERIALIZING INDUSTRY GROWTH

HIGHLIGHTS OF THE PCI 51ST ANNUAL CONVENTION/EXHIBITION AND THE PCI NATIONAL BRIDGE CONFERENCE, PALM SPRINGS, CALIF., OCTOBER 16–19, 2005

Despite unseasonable rains and a mild earthquake, almost 1300 members and guests attended the 51st Annual PCI Convention/Exhibition and PCI National Bridge Conference (NBC) in Palm Springs, Calif., October 16–19, 2005. The Federal Highway Administration (FHWA) cosponsored the NBC.

This was the third time in recent years that PCI has held its convention in this popular resort town, even though a major earthquake occurred at the last convention in Palm Springs in 1999.

In the days preceding the conference, over 50 committee meetings were held, including meetings of the PCI Board of Directors, the Canadian Precast/Prestressed Concrete Institute, and the Executive Committee. A colorful ribbon-cutting ceremony on Sunday, October 16, by the PCI Board of Directors, signified the official start of the convention.





National Bridge Conference Plenary Session



M. Myint Lwin, director of the office of bridge technology for the FHWA, welcomed bridge conference attendees during the National Bridge Conference Plenary Session held on Monday, October 17. Other speakers at the opening event were **John Dick**, structures director with PCI (who presented the PCI Bridge Design Awards), and several speakers from California—the “spotlight

state.” **Kevin Thompson**, state bridge engineer with California Department of Transportation (CALTRANS), led the proceedings with some opening remarks; **Raymond Wolfe**, senior bridge engineer with CALTRANS, presented some innovative California precast applications; and **Michael Pope**, senior bridge engineer with CALTRANS, spoke about California’s standard precast girder applications. Some 68 papers were presented in the three-day conference; please note that copies of the proceedings are available on CD-ROM.

Complementing the technical and committee events, several social events were hosted for both members and guests. The exhibition hall boasted close to 90 exhibitors and was the central hub for activity surrounding promotional and award presentations, and numerous food and beverage events. Friday, October 14,



Chairman **Thomas J. D'Arcy** and the rest of the PCI Board of Directors ceremoniously cut the ribbon on Sunday to officially open the exhibit hall.



M. Myint Lwin, director of the office of bridge technology for the FHWA, welcomes attendees to the National Bridge Conference during the Plenary Session.



Thomas J. D'Arcy

prior to the official start of the convention, the PCI Education Foundation's 4th Annual Golf Tournament was held at the Desert Willow Golf Resort. An evening reception at the convention hotel followed the outing.

Another popular reception, the Professional Member Get-Together, took place on Saturday night, October 15. **Don Raths** (chair, Professional Member Committee) organized the event. PCI-affiliated consulting firms sponsored all the food, refreshments, and amenities. At the reception, PCI Professional Members receiving awards at the convention were honored.

On Sunday evening, the now traditional Chairman's Dinner was held at the Indian Wells Country Club in Indian Wells. Some 86 guests were present at this festive event, including 22 former PCI chairmen. Chairman **Thomas J. "Tom" D'Arcy** led the guests in singing "Happy Birthday" to **Len Perlmutter** (PCI chairman, 1977), who was celebrating his 80th birthday. In response to this gesture, Perlmutter said that the reason he came to the convention was to celebrate his birthday with his peers and colleagues. It was also a pleasant surprise to see **Chuck Knight, Jr.**, and his wife Ruth. Knight, who was PCI chairman in 1980 and served as TAC chairman in 1971-1972, now resides in the Palm Springs area.

An annual social event, the Architectural Precasters Get-Together Reception hosted members and guests on Monday night. The Women in PCI reception made its debut at the Palm Springs convention, with almost 30 women from the precast/prestressed concrete industry attending.

Participants in the first annual Women in PCI reception held Monday evening.



Theme

The theme of the 51st Annual Convention was “Breaking the Mold: Materializing Industry Growth.” For the first time, technical sessions were held in concurrent learning “tracks” in executive, technical research, marketing, operations, and NBC focus areas.

PCI OFFICERS 2006



Robert S. McCormack,
Chairman



Robert Konoske,
Vice Chairman



James G. Toscas,
President



William F. Simmons,
Secretary-Treasurer

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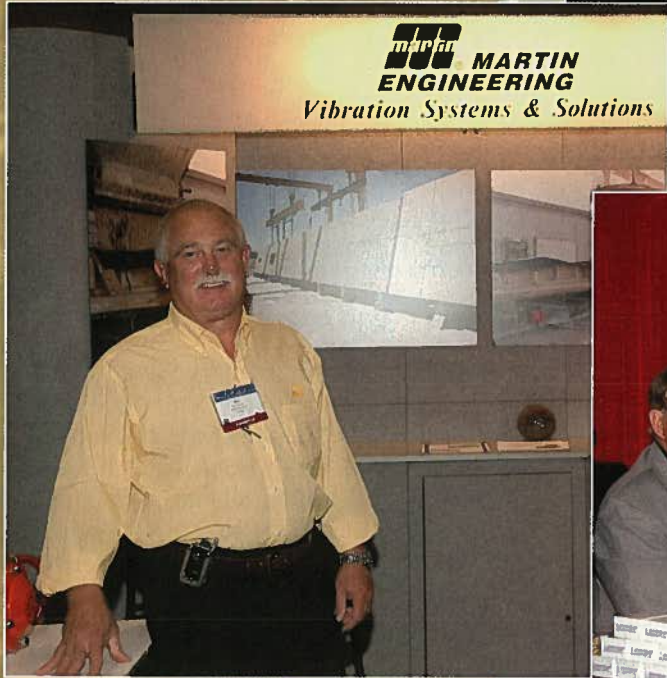
JVI

Salmons PC

Exhibitors

2005







PCI Regional Directors pose in front of the PCI booth, revamped with the new PCI logo. From left, **Chuck Meridyth**, PCI Director of Marketing and Communication; **Phil Wiedemann**, Central Region PCI; **Wally Prebis**, Colorado Prestressers Association; **Marty McIntyre**, Precast/Prestressed Producers of Illinois & Wisconsin (PPPI&W); **Heinrich Bonstedt**, Prestressed Concrete Association of Pennsylvania; **Doug Mooradian**, Precast/Prestressed Concrete Manufacturers Association of California Inc. (PCMAC); **Rita Seraderian**, New England Region PCI; **Peter Finsen**, Georgia/Carolinas PCI; **Monica Schultes**, Mid-Atlantic Precast Association (MAPA); **Edward Gregory**, Michigan Precast Prestressed Concrete Association (MPPCA); and **James Tascas**, PCI president.

BUSINESS MEETING BREAKFAST

At Monday's Business Meeting Breakfast, Chairman D'Arcy formally conducted the business of the Institute as required by PCI by-laws. **Robert H. Konoske**, PCI Secretary-Treasurer, gave the PCI financial report and stated that the Institute is in sound financial condition. After the invocation and the playing of the U.S. national anthem, Chairman D'Arcy asked for a moment of silence for the prominent PCI members who have passed away since the last convention: **G. Paul Jones, Jr.**, **Leslie D. Martin**, **Jean M. Muller**, **Robert Park**, **A. Lester "Patt" Patterson**, **Kenneth J. "Ken" Taran, Jr.**, and **Robert F. "Bob" Wellner**.

Chairman D'Arcy then spoke about PCI changes and accomplishments in 2005, including the forming of the Continuing Education Committee, headed by Chair **Helm Wilden**; the possible formation of a joint Parking Structures Committee with ACI; the re-crafting of the PCI strategic plan by PCI staff; the developing plans for a new PCI headquarters; the start of the Design Handbook Seminars; the successful networking with the Regional Directors; and the retirement of PCI Administration and Finance Director **Gary Munstermann**.



Members of the Leadership PCI Class I receive certificates of completion for the one-year program.

He also highlighted the "Hot Topic" for the convention, where **Ken Simonson**, chief economist for the Association of General Contractors, presented the findings, policy developments, and projections on how cement shortages will affect our industry. At the Hot Topic Session, Simonson led an open discussion on the implications for precast concrete in the wake of Hurricanes Katrina and Rita. D'Arcy closed by asking attendees to renew their commitment to PCI. For further remarks, see his Chairman's Message in the November–December 2005 issue of the *PCI Journal*, p. 13.

Howard Hyden, president of the Center for Customer Focus, gave the keynote address on "Customer Focus." Hyden's presentation discussed methods that would allow companies to compete at the "awesome" level, including trying to satisfy their most demanding customers.

James "Jim" G. Toscas, PCI president, then addressed the membership with his talk, "Breaking the Mold: Materializing Industry Growth." In it, he set the stage for the presentation to follow regarding the new PCI logo and branding initiative. Toscas' presentation was followed by a skit aimed at demystifying the role the architect plays in making precast concrete his or her material of choice.

The crowning event of the convention was the Tuesday night banquet at which the precast producers of the winning projects of the 2005 PCI Design Awards Program were honored. Note that the award winners were featured in the September–October 2005 issue of the *PCI Journal* and also in the fall 2005 issue of *Ascent*.

In addition to the convention's main program, an interesting Guest Program was organized for accompanying persons to enjoy the major attractions of Palm Springs and the surrounding desert wilderness.

James G. Toscas



Keynote speaker **Howard Hyden** addresses the PCI membership at the Monday morning business breakfast meeting.

Keynote

MEMBERSHIP LUNCHEON

The official business of the Institute drew to a close at the completion of the Membership Luncheon on Wednesday, October 19. Certificates of appreciation were presented to retiring Board of Directors members. Chairman D'Arcy passed the gavel to incoming 2006 chairman, **Robert S. McCormack**.

McCormack is the executive vice president of the Spancrete Group Inc., Waukesha, Wis. He has served on the PCI Board of Directors since 2001. He has been a member of the PCI Budget Planning and Review Team, past co-chair for the PCI Hollow-Core Committee, and past member of the PCI Board Nominating Committee and Market Plans-Housing Segment Chair and Promotion Team Leader. He is also treasurer and member of the Steering Committee of Precast Prestressed Producers of Illinois and Wisconsin. McCormack earned his B.S. degree in accounting and finance at the University of Wisconsin.

Serving with McCormack on the 2006 Executive Committee are **Thomas J. D'Arcy**, **Robert H. Konoske**, **William F. Simmons III**, and **James G. Toscas**.



Robert McCormack accepted the chairman gavel from **Thomas J. D'Arcy**.

PCI 2006 Board of Directors: Bottom row, left to right: **Michael W. LaNier** (chair, Technical Activities Committee), BERGER/ABAM Engineers Inc., Federal Way, Wash.; **Thomas M. McEvoy**, High Concrete Structures Inc., Denver, Pa.; **C. Douglas Sutton**, Purdue University, School of Civil Engineering, West Lafayette, Ind.; **Thomas J. D'Arcy** (chairman), The Consulting Engineers Group Inc., San Antonio, Tex.; **Robert H. Konoske** (secretary-treasurer), Coreslab Structures (L.A.) Inc., Perris, Calif.; **Robert S. McCormack** (vice chairman), The Spancrete Group Inc., Waukesha, Wis.; **James G. Toscas** (PCI president), Precast/Prestressed Concrete Institute, Chicago, Ill.; **William F. Simmons, III** (secretary-treasurer), The Shockley Precast Group, Winchester, Va.; **Donna S. Reuter**, Oldcastle Precast Inc., South Bethlehem, N.Y.; **Mark Groff** (Zone 3), Molin Concrete Products, Lino Lakes, Minn.; **John R. Robertson** (Zone 6), Standard Concrete Products Inc., Tampa, Fla.; **Randy Romani** (Zone 5), Newcrete Products, Roaring Springs, Pa.

Top row, left to right: **Millard Barney** (Zone 1), Concrete Technology Corp., Tacoma, Wash.; **Hagen Harker** (Zone 4), Mid-States Concrete Products Company, South Beloit, Ill.; **Jason P. Lien**, StructureWorks LLC, Denver, Colo.; **Craig T. Barrett** (Professional Member director), LEAP Associates International Inc., Tampa, Fla.; **Daniel L. Kennedy**, Sidley Precast Group, Thompson, Ohio; **Harry A. Gleich**, Metro-mont Corp., Greenville, S.C.; **Pat Hynes** (chair, Student Education Committee), Morse Bros. Inc., Harrisburg, Ore.; **Thomas A. Conroy** (chair, Management Activities Committee), Oldcastle Precast Inc., Albany, N.Y.; **Robert Roeller** (Associate Member director), Dayton Superior Corp., Miamisburg, Ohio; **Rodney L. Eaves**, Tpac, Division of Kiewit Western, Phoenix, Ariz.; **Heinrich O. "Hank" Bonstedt** (Allied Organization Member director), Prestressed Concrete Association of Pennsylvania, Allentown, Pa.; **David G. Buesing** (chair, Quality Assurance Committee), Wells Concrete Products Co., Wells, Minn.; **James E. Sorenson** (Zone 2), EnCon United, Denver, Colo.; **Mark D. Lafferty**, Concrete Industries Inc., Lincoln, Neb. Missing from photo: **Kenneth Pensack**, (CPCI Chairman), Con-force Structures Limited, Vancouver, B.C.



2005 Design Awards



Chairman Thomas J. D'Arcy and his wife Marie accept gifts of appreciation from PCI.

Terms of office for the new board members begin January 1, 2006. Other incoming members are:

Producer Member Zone Directors

Millard Barney (Zone 1), Concrete Technology Corp., Tacoma, Wash.
James E. Sorenson (Zone 2), EnCon United, Denver, Colo.
Mark Groff (Zone 3), Molin Concrete Products, Lino Lakes, Minn.
Hagen Harker (Zone 4), Mid-States Concrete Products Co., South Beloit, Ill.
Randy Romani (Zone 5), Newcrete Products, Roaring Springs, Pa.
John Robertson (Zone 6), Standard Concrete Products Inc., Tampa, Fla.

Associate Member Director

Robert Roeller
 Dayton Superior Corp.
 Miamisburg, Ohio

Professional Member Director

Craig T. Barrett
 LEAP Associates International Inc.
 Tampa, Fla.

Allied Organization Member Director

Heinrich O. "Hank" Bonstedt
 Prestressed Concrete
 Association of Pennsylvania
 Allentown, Pa.

Chair, Management Activities Committee

Thomas A. Conroy
 Oldcastle Precast Inc.
 Albany, N.Y.

CPCI Chairman

Kenneth Pensack
 Con-Force Structures Ltd.
 Vancouver, BC, Canada

Secretary-Treasurer

William F. Simmons, III
 The Shockey Precast Group
 Winchester, Va.



Jim Clark:
 Best Justice Facility



Dan Kolb: Best Low-Rise
 Multifamily Project



Larry Isenhour: Best High-
 Rise Multifamily Building



Nancy Fogelberg: Best
 Public/Institutional Building



Todd D. Culp, P.E.:
 Best Bridge w/Spans
 Greater Than 135 Ft.

AWARDS PRESENTATIONS

Award recipients for 2005 were recognized Monday, October 17, at the annual Business Meeting Breakfast, and (with the exception of the Fellows) photos were taken after the breakfast in the Exhibition Hall. Awards were given for plant certification program anniversaries, plant safety, outstanding *PCI Journal* papers, distinguished educators, student competitions winners, PCI Fellows, and Associate member contributors.

PCI PLANT CERTIFICATION

Each year, the Institute recognizes those plants in the PCI Plant Certification program that have reached anniversary milestones. This year, PCI recognizes the plants that have achieved 35, 30, and 25 years of plant certification. They are, as follows:

35 YEARS

J.W. Peters Inc.

Subsidiary of the Cretex Comp Inc.
Rochelle, Ill.

Rocky Mountain Prestress Inc.

Structural Plant
Denver, Colo.

TPAC

A Div. of Kiewit Western Co.
Phoenix, Ariz.

30 YEARS

Coreslab Structures (KANSAS) Inc.

Kansas City, Kans.

High Concrete Structures Inc.

Denver, Pa.

Spancrete Industries Inc.

Precast Operations
Waukesha, Wis.

Spancrete Inc.

Valders, Wis.

25 YEARS

Boykin Brothers Inc./Louisiana Concrete Products

Baton Rouge, La.

Central Pre-Mix Prestress Co.

Spokane, Wash.

Concrete Inc.

Subsidiary of Wells Concrete Prod. Co.
Grand Forks, N.Dak.

Concrete Industries Inc.

Lincoln, Neb.

Concrete Technology Corp.

Tacoma, Wash.

National Precast Inc.

Roseville, Mich.

Pomeroy Corp.

Petaluma, Calif.

Prestressed Casting Co.

Springfield, Mo.

Rocky Mountain Prestress Inc.

Architectural Concrete Plant
Denver, Colo.

PLANT SAFETY

Each year, the PCI Plant Safety and Environmental Committee collects and analyzes the Producer Members' accident data from the previous year. All of the winners this year had "0" ratings for Total Case Incidence, Dart Incidence, and Severity Rates during 2004. The Safety Awards are given in categories based on the number of employees in the company.

1-49 EMPLOYEES

Architectural Cladding Systems Inc.

Hollis, N.H.

Baldwin Lighting Inc.

Bay Minette, Ala.

EnCon Bridge LLC

Denver, Colo.

Grace Pacific Precast Inc.

Kapolei, Hawaii

Oldcastle Precast Inc.

Lebanon, Tenn.

Prestress Services Industries, LLC

Henderson, Ky.

Tindall Corporation—Utilities Division

Spartanburg, S.C.

50-99 EMPLOYEES

Bayshore Concrete Products/Chesapeake Inc.

Chesapeake, Va.

PCI
Prestressed Concrete Institute
Plant
Certification
Plant Safety

Associate Member Award

The Associate Member Award recognizes firms that have made a significant contribution to the precast, prestressed concrete industry. This year's award recipient was **JVI Inc.** of Lincolnwood, Ill.

JVI Inc. is recognized not just for its products and services but for the extraordinary employee commitment to PCI over the years. Each employee is encouraged by JVI president **Jim Voss** (a PCI Titan) to actively participate in PCI committees, planning, and regional associations. Over the years, JVI has been a major contributor to the *PCI Journal* with its advertising and published research

work. It is doubtful that any PCI member firm has as many employees as JVI that are so dedicated to our industry.

Why the staunch dedication? To quote Voss: "The ideas are to help PCI increase its reach and influence and thus increase our market share. In doing so, we help each member increase their slice of the market pie."

Student Engineering Design Competition

The PCI Engineering Design Competition (Big Beam Contest) is organized by the PCI Student Education Committee (**Pat Hynes**, chair) and sponsored by **Sika Corporation**, with \$25,000 in prize money. Official rules and guidelines were initially developed by Professor **Richard A. Miller** from the University of Cincinnati, and are updated every year with input from **Maher Tadros**, **Keith Kaufman**, and other members of the Rules Committee. The objective is for student teams to fabricate and test a precast, prestressed concrete beam with the help of local PCI Producer Members. Prizes



Jim Voss (center) receives the Associate Member Award on behalf of his company, JVI Inc., from PCI President **James Toscas** (left) and 2005 PCI Chairman **Thomas D'Arcy** (right).



Students from the University of Nebraska (Team #2) were unable to attend the 2005 PCI Convention. Pictured from left, **Brian Peterson**, Coreslab Structures Inc.; **Andy Flanagan**; **Ryan Grasse**; **Maher Tadros**, faculty advisor; **Nick Clinebell**; and **Michelle Berger**.

2005 Design Awards



Enrique Escalante:
Best Office Building



McCall Carley:
Best All-Precast Solution



John Dobbs: Best Bridge
w/Spans Greater Than 135 ft.



Paul Carrara: Best Bridge
w/Spans Between 65-135 ft.





Ashton Duggins, Southern Illinois University, accepts the award for the Student Architectural Precast Design Competition. From left, student Ashton Duggins; Thomas D'Arcy, PCI chairman; and Norm Lach, faculty advisor.



Professor Pierre Jampen, McGill University, accepts the award for the Student Architectural Precast Design Competition in the Total Precast Solution Category. From left, student Caroline Alain; Thomas D'Arcy, PCI chairman; Jampen; Pat Hynes (Student Education, chair), Morse Bros. Inc.

are awarded for the most efficient design, highest load capacity, best report, and other categories.

Prizes are awarded to the first, second, third, and fourth place winners in all PCI and International Zones. The first place teams from each zone are then judged in the National Championship.

The National Championship Award this year goes to the University of Nebraska (Team #2), Omaha. The faculty advisor is Professor **Maher Tadros** and the student team members are **Michelle Berger**, **Nick Clinebell**, **Andy Flanagan**, and **Ryan Grasse**. The precast, prestressed beam was fabricated and tested with help from PCI Producer **Coreslab Structures Inc.**, Omaha (**Brian Peterson**).

Student Architectural Design Competition

This program was developed and organized by Professor **Norm Lach**, Southern Illinois University, and sponsored by **AXIM Concrete Technologies Inc.** and **Fister Quarries Group Inc.**, with \$12,500 in prize money. The design problem for 2005 was "Fisheries Building Precast Challenge." Cash prizes are awarded to the first, second, and third place winners in both the Student and IDP Intern Categories.

First place in the Student Category is awarded to **Ashton Duggins** of Southern Illinois University, School of Architecture, Carbondale, Ill. The faculty advisor is Professor **Norm Lach**.

First place in the IDP Intern Category is awarded to **Darren Schretter**, of PHN Architects, Wheaton, Ill. The supervisor is **Daniel Nicholas**.

In the Student Category-Total Precast Solution, the first place team is **Nicolas Chan**, **Hélène Boyer**, **Cynthia Carbonneau**, and **David Clavey**, from McGill University, Montreal, QC, Canada, with faculty advisor **Pierre Jampen**.

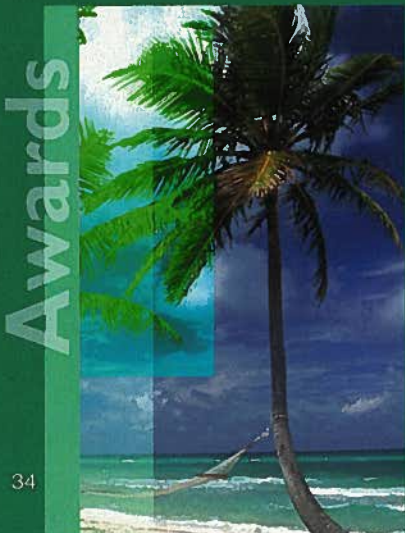
PCI JOURNAL AWARDS

Each year, PCI bestows four awards to authors for outstanding papers published in the *PCI Journal* during the previous 12 months (September–October through July–August). The Journal Awards Committee (**Donald C. Raths**, chair) selects the award-winning papers.

Martin P. Korn Award

The Martin P. Korn Award, named in honor of the first executive director of PCI, recognizes the paper that offers the greatest contribution to the advancement of precast and prestressed concrete in the area of design and research. This year, the award went to **Stephen J. Seguirant**, vice president and director of engineering, Concrete Technology Corp. (CTC), Tacoma, Wash.; **Richard Brice**, bridge software engineer, Washington State Department of Transportation, Olympia, Wash.; and **Bijan Khaleghi**, concrete specialist, Washington State Department of Transportation, Olympia, for their paper, "Flexural Strength of Reinforced and Prestressed Concrete T-Beams," which was published in the January–February 2005 *PCI Journal*.

This paper examines the fundamentals of T-beam behavior at nominal flexural strength, and compares the results of American Association of Highway Transportation Officials Load-Resistant Factor Design (AASHTO LRFD) Bridge Design Specifications and AASHTO Standard Specifications for Highway Bridges (STD) with more rigorous analyses, including the *PCI Bridge Design Manual (PCI BDM)* method and a strain compatibility approach using nonlinear concrete compressive stress distributions. For pretensioned T-beams of uniform strength, a method using a mixture of LRFD and STD is investigated. For T-beams with different con-



crete strengths in the flange and web, the *PCI BDM* method is compared with the nonlinear strain compatibility analysis.

Steven J. Seguirant earned his bachelor's degree in civil engineering from St. Martin's College, Lacey, Wash., and a master's degree in civil engineering

from the University of Washington, Seattle. A registered civil engineer in Washington, Seguirant began his career at CTC in 1979 as a project engineer. In his 26 years with CTC, he has held various posts including project manager, chief project manager, and director of project management and quality assurance. Currently, he is an active member on PCI Bridges, Prestressed Concrete Piling, and Research and Development committees. He represents PCI as a member of ACI Committee 318, Building Code Requirements for Structural Concrete. This is Seguirant's second Korn Award. In 1999, he won the award for his paper, "New Deep WSDOT Standard Sections Extend Spans of Prestressed Concrete Girders," which was published in the July–August 1998 *PCI Journal*. This same paper won the American Society of Civil Engineers' T. Y. Lin Award in 2000. A long-time reviewer of prospective *PCI Journal* manuscripts, he is also the author of numerous *Journal* papers.

Richard Brice received his bachelor's degree in civil engineering from St. Martin's College, Lacey, and a master's degree in civil engineering from Texas A&M University, College Station.

Bijan Khaleghi is currently the concrete specialist at the Washington State Department of Transportation in Olympia. He received his Masters (1981) and Doctor of Engineering (1984) from the National Institute of Applied Sciences of Lyon, France. Khaleghi has over 18 years of experience in bridge design and is a member of the PCI Bridge Committee, AASHTO T-10 Committee on Concrete Bridges, and Transportation Research Board's Concrete Bridge Committee. He is a registered civil and structural engineer in Washington.

Robert J. Lyman Award

The Robert J. Lyman Award (named in honor of the Institute's third president) recognizes the paper that offers the greatest contribution in the area of plant production, site erection, or general construction using precast and prestressed concrete.

This year's award was presented to **Ali Asnaashari**, design engineer, CALTRANS, Sacramento, Calif.; **R. Jon Grafton**, president, Pomeroy Corp., Petaluma, Calif.; and **Mark Johnnie**, project manager, Balfour Beatty Construction, Wilmington, N.C., for their paper, "Precast Concrete Design-Construction of San Mateo–Hayward Bridge Widening Project," which was published in the January–February 2005 *PCI Journal*.

The award-winning San Mateo–Hayward Bridge Widening Project is a 4.9-mile (7.9 km) twinning of an existing 30-year-old bridge in an active seismic area over the environmentally sensitive San Francisco Bay. The only viable solution was an all-precast concrete substructure and superstructure consisting of driven cylinder piles, bent cap shells, bulb-tee girders, and stay-in-place deck panels. This article describes the design, production, and erection



Steven J. Seguirant and Richard Brice accepted the Martin P. Korn Award from **Donald C. Rath**. Co-author **Bijan Khaleghi** is missing from photo.

2005 Design Awards



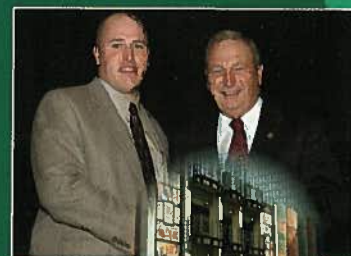
Millard Barney; Harry H. Edwards Industry Advancement Award



Dave Chapman: Best Bridge w/Spans Less Than 65 ft.



Jack Wellborn: Best Non-Highway Bridge



Brian Goebel: Best Parking Structure



Peter Yurkiw; Harry H. Edwards Industry Advancement Award



R. Jon Grafton accepted the Robert J. Lyman Award from Donald C. Rath. Coauthors Ali Asnaashari and Mark Johnnie are missing from photo.

challenges and the decisive advantages of precast concrete construction in environmentally sensitive and earthquake-prone regions.

Ali Asnaashari is a design engineer with CALTRANS in Sacramento, Calif.

R. Jon Grafton received his bachelor's degree in structural engineering from the University of Calgary, AB, Canada in 1979 and joined Con-force Structures as a design engineer. In 1990, he moved to California to join Pomeroy Corp., serving in several capacities until his current role as president. Grafton was formerly a member of the PCI Bridge Design Manual steering committee, and he is an active member of the PCI Bridge and Bridge Producers committees. He was recently appointed to the PCI Bridge Coordinating Committee and has participated in many industry research programs, most recently as a committee member for the PRESSS Program, NCHRP 12-57, and NCHRP 12-74. He has been involved on several projects, two of which have won PCI awards: the PRESSS Test Building, which won the Harry H. Edwards Industry Advancement Award in 2001; and the San Mateo-Hayward Bridge, which won the Best All-Precast Design Award in 2004.

Mark Johnnie is a project manager with Balfour Beatty Construction, Wilmington.

Charles C. Zollman Award



Neil Hawkins and S. K. Ghosh accepted the Charles C. Zollman Award from Donald C. Rath.

Established in 1981 as the state-of-the-art award, the award recognizes those meritorious papers that advance the general understanding and knowledge of precast, prestressed concrete by bringing together all available knowledge of a specific topic in a single report. The award is named in honor of the Institute's first TAC chair, **Charles C. Zollman**, who played a prominent role in the design and construction of the Walnut Lane Memorial Bridge, the first major long-span prestressed concrete bridge in North America.

The 2005 award goes to **Neil Hawkins**, professor emeritus, Department of Civil and Environmental Engineering, University of Illinois, Urbana, Ill.; and **S. K. Ghosh**, president, S. K. Ghosh Associates Inc., Palatine, Ill., for their paper, "Acceptance Criteria for Special Precast Concrete Structural Walls Based on Validation Testing," which was published in the September-October 2004 issue of the *PCI Journal*.

This paper presents acceptance criteria, background, and commentary for use with the 2003 Edition of the National Earthquake Hazards Reduction Program (NEHRP) provisions, which permits the use of structural (shear) walls of jointed construction in regions of high seismic risk with validation testing. The future direction of non-emulative design of precast concrete walls is also discussed.

Neil M. Hawkins received a Ph.D. in civil engineering from the University of Illinois, Urbana, and a bachelor's degree in civil engineering from the University of Sydney, Australia. He is a current member of PCI Student Education, Research, and Development, and Seismic committees and was named a "Titan" of the precast/prestressed concrete industry in 2004. Involved in many organizations, Hawkins is the current vice president of the Structural Engineering Institute for ASCE and a member of ACI, ASCE, PTI, and EERI.

Satyendra K. Ghosh earned a Ph.D. in structural engineering from the University of Waterloo, ON, Canada. He is active on numerous PCI committees, including TAC, Research and Development, Seismic, Building Code, Blast, and Continuing Education. The author of numerous papers in the *PCI Journal* and elsewhere, Ghosh was recently named a "Titan" of the precast/prestressed concrete industry. A PCI Fellow, he was given the Zollman award in 1998.



Coauthor **John F. Stanton** stands with **Laura Lowes** and **Gregory Banks** as they accepted the George D. Nasser Award from **Donald C. Rath**.

George D. Nasser Award

This award recognizes the paper published in the *PCI Journal* that is most "worthy of special commendation for its merit on the design, research, production, or construction of precast/prestressed concrete structures" for authors who are 40 years of age or younger.

The 2005 award goes to **Laura Lowes**, assistant professor, University of Washington, Department of Civil Engineering, Seattle; and **Gregory Banks**, engineer, BERGER/ABAM Engineers Inc., Federal Way, Wash., for their paper "Analysis and Design for End Effects in Twisted Double Tees," which was published in the May-June 2005 issue of the *PCI Journal*.

This paper, also coauthored by **John F. Stanton**, professor, University of Washington, Department of Civil Engineering, Seattle, identifies the important modes of deformation of prestressed concrete double tees set on non-parallel supports and presents an analysis of the stresses and deformations caused by twisting. A new theory of torsion that includes those deformations is developed, and a parametric study is carried out to show the effect of variations in the dimensions of the member. Finally, based on the new theory, the paper presents several graphs that facilitate the computation of the twist angle that causes cracking in a double tee of common dimensions.

Laura Lowes is an assistant professor at the University of Washington, Department of Civil Engineering, Seattle.

Gregory Banks earned bachelor's and master's degrees in civil engineering from the University of Washington, Seattle.

DISTINGUISHED EDUCATOR AWARD

Norman "Norm" Lach, assistant professor, Department of Architecture and Interior Design, Southern Illinois University, Carbondale (SIUC), was conferred with the PCI Distinguished Educator Award for 2005. The award, developed by the Student Education Committee, recognizes distinguished educators in the fields of engineering, architecture, and construction technology who have made significant contributions to the precast, prestressed concrete industry.

Lach has headed the PCI architectural design competition since 2003, presented PCI and IDP architectural design programs, and presented papers for the CSI Convention "Innovations in Precast Concrete." He presented the

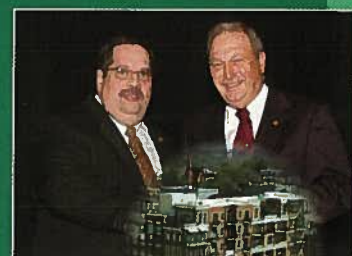
2005 Design Awards



Mike LaNier: Harry H. Edwards Industry Advancement Award



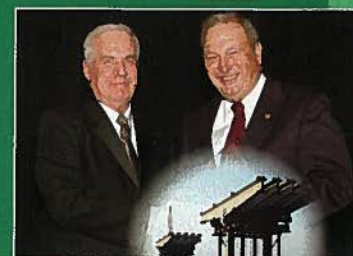
Paul Carrara: Best All-Precast Solution



Harry Gleich: Best All-Precast Concrete Award



Peter Yurkiw: Best Custom Solution



Don Theobald: Harry H. Edwards Industry Advancement Award



Norm Lach accepted the Distinguished Educator Award from 2005 PCI Chairman Thomas D'Arcy (right).

award at the PCI architectural design competition at the AIA seminar and trade show in September 2004. Lach has presented SIUC exhibits at PCI, CSI, and AIA functions. He has been the St. Louis CSI proctor for CSI certification exams, served on the PCI Education Committee and AIA Illinois Foundation Committee, was a PCI Education Foundation board member, and was co-education chair of North Central Region CSI. He was awarded the Illinois AIA Excellence in Education Award in 2002 and the AIA Educator of the Year Award in 2003. Lach is a faculty advisor to the SIU-PCI and SIU-CSI Student Chapters and received books from PCI for architectural students at SIU. He is a licensed Illinois architect and a member of five professional associations/institutes.

YOUNG EDUCATOR ACHIEVEMENT AWARD

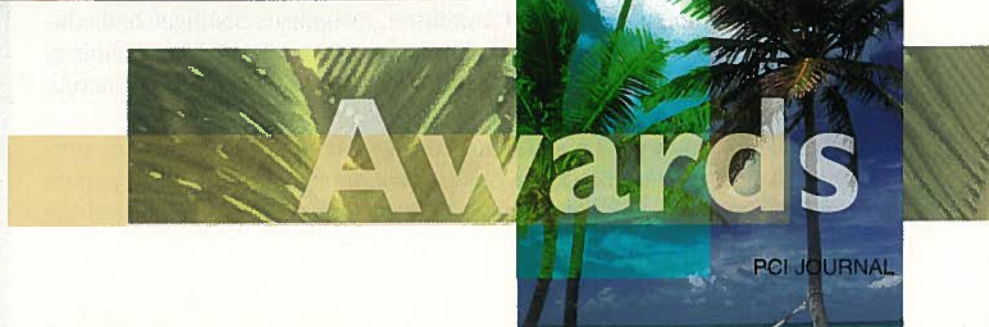
Yahya (Gino) Kurama, associate professor of civil engineering and director of graduate studies in the Department of Civil Engineering and Geological Sciences at the University of Notre Dame, Ind., is being conferred with the PCI Young Educator Achievement Award. The award acknowledges young educators in the fields of engineering, architecture, and construction technology who have made significant contributions in their early careers to the precast/prestressed concrete industry.

Kurama received his B.S. in civil engineering from Bogazici University, Istanbul, Turkey, in 1990, and his M.S. and Ph.D. in civil engineering from Lehigh University, Bethlehem, Pa., in 1993 and 1997, respectively. His research interests include the seismic behavior and design of precast/prestressed concrete, cast-in-place reinforced concrete, and steel-concrete hybrid wall and frame building structures. Kurama is a registered engineer in Indiana. He is the corecipient

of the PCI Martin P. Korn Award in 2002 and the ASCE T. Y. Lin Award in 2003 for the paper, "Design of Rectangular Openings in Precast Walls Under Combined Vertical and Lateral Loads," published in the March–April 2002 *PCI Journal*. He received a National Science Foundation CAREER Award in 1998 to study the use of supplemental energy dissipation in non-emulative precast concrete structures.



Yahya "Gino" Kurama accepted the Young Educator Achievement Award from 2005 PCI Chairman Thomas D'Arcy (right).



PCI Fellows

FELLOWS OF THE PRECAST/PRESTRESSED CONCRETE INSTITUTE

For recognition of PCI members for their distinguished contributions to the precast, prestressed concrete industry and to PCI, within the areas of education, research, design, production, quality, erection, marketing, and management.

Catherine E. French

Catherine E. French is a professor in the Civil Engineering Department, University of Minnesota, Minneapolis. For more than 15 years, French has taught a course in prestressed concrete design, researched precast and prestressed concrete, and is deeply involved in technical committee work. She received a B.S. degree in civil engineering from the University of Minnesota and an M.S. and Ph.D. from the University of Illinois at Urbana. PCI, the National Science Foundation, the Minnesota Department of Transportation, and the Minnesota Precast/Prestressed Concrete Association have all sponsored her research. Her research contributions include the development of strong and ductile connections between precast elements in seismic regions, strand release methodology to reduce end stresses, high-strength concrete for prestressed girders, and implementation of self-consolidating concrete for prestressed applications. Since 1986, French has served on the PCI Seismic Committee and is a former member of the PCI High-Strength Concrete Committee. Currently, she is chair of ACI 318-B, Reinforcement and Development; a member of ACI Committee 318, Building Code Requirements for Structural Concrete; and ACI Committee 445, Shear and Torsion. She is the author of numerous technical papers, including several that have been published in the *PCI Journal*. In recognition of her many achievements, French has been honored with the Richard P. Braun Distinguished Service Medal, the Raymond Reese Research Award, and the Henry L. Kennedy Award for her contributions to the prestressed concrete industry.

Neil M. Hawkins

Neil M. Hawkins is professor emeritus, University of Illinois, Urbana-Champaign, Ill. During his distinguished professional career, Professor Hawkins served as head of the Civil and Environmental Engineering Department at the University of Illinois and on the faculty of civil engineering at the University of Washington, Seattle. Born in Sydney, Australia, he received his B.S. degree in civil engineering from the University of Sydney, and after coming to the United States, obtained a Ph.D. from the University of Illinois at Urbana. He is the author of more than 200 technical papers published in various engineering publications including many in the *PCI Journal*. He has received the Charles C. Zollman Award on two occasions (1994 and 2005) for outstanding papers published in the *PCI Journal*. In recognition of his contributions and influence in education, PCI bestowed upon him the PCI Distinguished Educator Award in 2001. In October 2004, at the PCI Convention in Atlanta, he was honored as one of the 50 Titans of the past half century. In 1988, he received the T. Y. Lin Award for his paper, "Seismic Performance of Precast Prestressed Concrete Piles." In addition to PCI, Hawkins has also been active with the ACI, ASCE, PTI, and EERI, serving in several board and technical committee capacities. Currently, he is a member of PCI committees on Student Education, Research and Development, Seismic, and ATLSS-PRESSS programs, and he is a reviewer of prospective *PCI Journal* manuscripts. In addition, Hawkins was instrumental in developing the "NEHRP Recommended Provisions for Seismic Regulations for Precast Concrete Structures" and is deeply involved in the codification and validation testing of precast concrete structures.

"What I like the most about precast/prestressed concrete is that it involves out-of-the-box thinking. For example, when I take students to precasting plants and on-site visits they are able to see how their design calculations and paper drawings become three-dimensional products and subsequently become real world structures. This experience is an awakening for many students. I want to express my deep appreciation to the PCI for all it has done in sponsoring research not only at my university but also other universities across the country. This shows a very forward looking industry which also helps to educate students. Another important program which the PCI sponsors with industry support is the Big Beam Contest. This program gives students hands-on experience on a project which can lead to further education or a possible career in the industry."

Cathy French
PCI Fellow (2005)

"I have been involved in the precast/prestressed concrete industry for nearly 50 years. It has been a fantastic journey to have seen this industry grow and change and to realize that it gave me a rewarding career for which I was able to contribute something. I am very proud of the fact that so many of my students (Paul Johal, Jason Krohn and David Nasser, to name a few) entered the precast concrete industry and are doing such a wonderful job. One thing I have learned is that we should never underestimate people's capabilities because everybody has something meaningful to contribute and this may come in many different shapes and forms."

Neil Hawkins
PCI Fellow (2005)

"My involvement in PCI goes back to the late sixties when I was in Canada working for precast concrete producers. The PCI organization is very unique because it encourages manufacturers to become involved in research, the results of which translate into design practice. A good example of this is the PRESS research program which has resulted in out-of-the-box thinking in the seismic design area. This effort has brought forth design concepts which allows precast/prestressed concrete to be regarded as a structural material with its own special merit. Thank you for honoring me as a PCI Fellow."

Vilas Mujumdar
PCI Fellow (2005)

"By becoming an involved member of the PCI family, you meet a lot of people, exchange a lot of ideas, and make lifelong friends. During our meetings, we always talk about how we solve difficult problems or refine our techniques and details. Because of this interaction, we ended up with a much superior product. I personally benefited from being active in the PCI and I applaud those companies that encourage their young staff members to become active in PCI committee work and other activities. This commitment will pay dividends for the future of our industry."

Bill Richardson
PCI Fellow (2005)

Gerd H. Marohn

Gerd H. Marohn, formerly president of the construction products division of Carolina Steel Corp., Greensboro, N.C., retired in 1992 after 35 years of service to the company and the precast/prestressed concrete industry. A native of Germany, he obtained an MBA degree from the Free University of Berlin. He came to the United States after World War II and worked at various jobs before entering the precast concrete business. He became president of PCI in 1973, after having served as vice president and secretary treasurer, respectively, the previous two years. Later, he served as chairman of the PCI Structural Precast Division. During his career, he was involved in many diverse activities including secretary-treasurer of the Span Deck Manufacturers Association.

Vilas Mujumdar

Vilas Mujumdar is program director for the National Science Foundation in Arlington, Va. He received his Ph.D. in Public Administration/Public Policy (seismic risk) from the University of Southern California, Los Angeles; an MBA from Santa Clara University, Calif.; and an M.S. degree in structural engineering from the Indian Institute of Technology, Roorkee, India. A licensed structural engineer and civil engineer in California and a professional engineer in many states, Mujumdar currently serves on the PCI Seismic Committee and has previously served on the Blue Ribbon Review Committee for the *PCI Design Handbook*. He is a member of the ASCE 7 Committee; serves on ACI Committee 318-B, Reinforcement and Development; chaired the ACI/ASCE Committee 550, Precast Concrete; serves on the ACI Board International Committee; and chairs the ACI International Publications Committee. Mujumdar also served on the Technical Activities Committee for the Masonry Society and on the Building Seismic Safety Council. The author of two books (one on design of concrete structures and the other on reinforced masonry design), he was formerly executive director of the Concrete Masonry Association of California and Nevada, and immediately prior to that, was chief of operations for the Division of the State Architect for California for nine years. In addition to being a long-time PCI Professional Member, he is also a member of IABSE, SEAOC, the Masonry Society, and a Fellow of ACI, ASCE, and the Institution of Structural Engineers (United Kingdom). He is listed in *Who's Who in Science and Engineering*, *Who's Who in America*, and *Who's Who in the World*.

William C. Richardson Jr.

William C. Richardson Jr. is president of Richardson Consulting Services, Colorado Springs, Colo., a firm he founded in 2003. For many years, he was president of Stresscon Corporation in Colorado Springs. Richardson also served as executive vice president and chief operating officer of EnCon United in Denver, Colo. Richardson obtained B.S. and M.S. degrees in civil engineering from Virginia Polytechnic Institute in Blacksburg. He served as PCI chairman in 1999, having served two terms on the board of directors. He currently serves on the PCI Professional Member, Sandwich Wall Panels, and Student Education committees. He is also a past member of the PCI Hollow-Core Slab Producers and Industry Design Handbook committees. A registered professional engineer in seven states, Richardson is a former president of both the Colorado Prestressers Association and the Spancrete Manufacturers Association. In addition to his involvement with PCI, he is a member of the Civil Engineering Advisory Board for Virginia Polytechnic Institute and the Associated General Contractors of Colorado.

Stephen J. Seguirant

Stephen J. Seguirant is vice president and director of engineering for Concrete Technology Corp., Tacoma. He earned his B.S. degree in civil engineering from St. Martin's College, Lacey, and an M.S. degree in civil engineering from the University of Washington, Seattle. A registered civil engineer in Washington,



Seguirant began his career at CTC in 1979 as a project engineer. In his 26 years with CTC, he has held various posts including project manager, chief project manager, and director of project management and quality assurance. Currently, he is an active member on PCI Bridges, Prestressed Concrete Piling, and Research and Development committees. He represents PCI as a member of ACI Committee 318, Building Code Requirements for Structural Concrete. He is also a member of ACI, ASCE, ICC, and SEA of Washington. He was recently named among the eight "Technology and Materials Innovators" in the ARTBA elite list of America's Top 100 Private Sector Transportation Design and Construction Professionals of the 20th Century. A long-time reviewer of prospective *PCI Journal* manuscripts, he is also the author of numerous papers published in the *Journal*. In 1999, he won the Martin P. Korn Award for his paper "New Deep WSDOT Standard Sections Extend Spans of Prestressed Concrete Girders," which was published in the July–August 1998 *PCI Journal*. The same paper won the ASCE T. Y. Lin Award in 2000. This year, he again won the Martin P. Korn Award for a paper on "Flexural Strength of Reinforced and Prestressed Concrete T-Beams," published in the January–February 2005 *PCI Journal*.

"What I enjoy most about the PCI is the Convention, Committee Days, and the *PCI JOURNAL*. The codes contain many arbitrary provisions which are difficult to understand or know how they originated. However, I have found that working through technical committees and especially by writing articles for the *PCI JOURNAL* there is the opportunity to change some of these obscure specifications. From a technical perspective, PCI has much to offer. In the seismic area, for instance, there is considerable research going on that will have a direct bearing on the way we design and construct buildings and bridges. The objective, of course, is that the results of this research will help us build more precast, prestressed concrete structures especially in high seismic regions."

Steve Seguirant
PCI Fellow (2005)

Gerd Marohn was unable to attend the 51st annual PCI Convention/Exhibition.

Bill Richardson and Tom D'Arcy, two colleagues of Gerd Marohn, share the following stories about him:

"I was in the Carolinas in the sixties and recognized Gerd as a brave competitor and someone who really cared about the precast concrete business and did a good job. The products he produced were excellent. As a former president of PCI, he served the industry well, and I believe he contributed to the growth of the industry."

Tom D'Arcy

"Gerd was a real innovator, and when I went down there to visit his plant as a young man, I was in admiration of the things he was doing. He was one of the great leaders of PCI and our industry."

Bill Richardson

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and the PCI National Bridge Conference

OCTOBER 22-25 at the

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Next Stop—Grapevine, Tex.

Preparations are under way to organize sessions and programs for the 52nd PCI Convention/Exhibition and the PCI National Bridge Conference to be held at the Gaylord Opryland Resort and Convention Center, Grapevine, Tex., October 22–25, 2006. Mark these dates on your calendar and be on the lookout for more details from PCI in the coming months.