

Issue 5, Autumn 2002

INSIDE....

Producer Member Listing ..	2
Join and Enjoy the Many Benefits of the PCI Central Region.....	2
Lunch and Learn Program Feedback	2
Shadyside Hospital	2
Bridge Street	3
Buckheads Mountain Grill.....	3
Calendar of Events	3
Designer's Knowledge Bank	4
Director's Notes	4

www.pcicentral.org

Phone: (937) 833-3900
Fax: (937) 833-3700
Email: phil@pcicentral.org

Oh, the Design Possibilities!

Durability and Low Maintenance

of Precast Concrete

Of the many advantages of using structural and architectural precast concrete for a new structure, **Durability and Low Maintenance** are two great reasons to consider precast.

Precast concrete offers *superior weathering and corrosion resistant* qualities. The high density, prestressing and post tensioning make these elements air and water tight with fewer joints, thus offering excellent protection from climatic conditions.

The *natural durability of concrete* is enhanced by prestressing, resulting in a trouble-free wall that will give decades of service and provide unmatched impact resistance and security. The steel formed interior surfaces provide clean, lightly-colored interior walls especially suitable for clean rooms or food processing facilities.

Precast concrete provides trouble free service. The reduced maintenance characteristics of precast concrete carry over into interior applications. A precast concrete wall panel offers a smooth, dense, and clean surface that minimizes the collection of dirt and bacteria.

Next Issue: Energy Efficiency of Precast

PRECAST CONCRETE
*Design Is Only Limited
By Imagination*

Lunch and Learn Programs

Enjoy an hour-long architectural precast design program in the comfort of your own office. Our Producer Members are available for in-office programs, association meetings, classroom presentations, and production plant tours. To arrange for an AIA/CES presentation in your office, **call the PCI Central Region at 937-833-3900**. Or, contact any producer member to arrange a presentation.

Concrete Technology	(800) 788-2370
Flexicore Systems, Inc.	(800) 225-3539
Gate Bluegrass	(859) 744-9481
Hollowcore Inc	(313) 962-9189
Marietta Structures Corp.	(740) 373-2400
Ohio Valley Precast	(513) 829-1005
Precast Specialties	(260) 623-6131
Rinker Materials	(317) 353-2118
Sidley Precast	(800) 536-3232
Strescore Inc.	(574) 233-1117

WELCOME New MEMBER

Hollowcore Incorporated

PCI Central Region would like to welcome it's newest member:

Hollowcore Incorporated

Paul Phillips, General Sales Manager
P.O. Box 32996
Detroit, MI 48232

Phone: 313-962-9189

Fax: 519-737-6464

Web: www.psi-hci.com

E-mail: prestres@mnsi.net

Producers of: Sound Walls, I-Beams, Box Beams/Voided Slabs, Girders, Beams, Columns, Joints, Structural Wall Panels, Hollow Core Slabs, Double Tees, Single Tees, Stadium Seats

HOLLOWCORE
INCORPORATED

PCI Central Region

Producer Members

Concrete Technology, Inc.

Springboro, OH
Phone: (937) 748-2412
Web: www.ctiprecast.com
Email: dnemanz@ctiprecast.com



Flexicore Systems, Inc.

Huber Heights, Ohio
Phone: (937) 879-5775 ext. 251
Web: www.flexicore.com
Email: lisa@flexicore.net



Gate Bluegrass Precast, Inc.

Winchester, KY
Phone: (859) 744-9481
Web: www.gatebluegrass.com
E-mail: kharrison@gatepetro.com



Hollowcore Incorporated

Detroit, MI
Phone: (313) 962-9189
Web: www.psi-hci.com
E-mail: prestres@mnsi.net



Marietta Structures Corporation

Marietta, Ohio
Phone: (740) 373-2400
Web: www.mariettastructures.com
Email: info@mariettastructures.com



Ohio Valley Precast

Fairfield, Ohio 45377
Phone: (513) 829-1005
Email: ohiovalleyprecast@hotmail.com



Precast Specialties, Inc.

Monroeville, IN 46773
Phone: (260) 623-6131
Web: www.precastspec.com
Email: sales@precastspec.com



Rinker Materials, Inc.

Indianapolis, IN 46203
Phone: (317) 353-2118
Web: www.rinker.com
Email: jclapper@rinker.com

Rinker Materials, Inc.
Lafayette, IN
Phone: (765) 474-1411

Rinker Materials, Inc.
Henderson, KY
Phone: (270) 826-6244

Rinker Materials, Inc.
Fort Wayne, IN
Phone: (260) 432-3568



Sidley Precast Group

Thompson, Ohio
Phone: (800) 536-3232
Fax: (440) 951-1921
Web: www.rwsidley.com
Email: info@sidleyprecast.com

Sidley Precast Group
Youngwood, PA
Phone: (800) 745-6546

Sidley Precast Group / Carr Concrete Corp.
Waverly, WV
Phone: (800) 837-8918



Strescore

South Bend, Indiana
Phone: (574) 233-1117
Web: www.strescore.com
Email: sales@strescore.com



Join Our Organization

And Enjoy the Many Benefits

Producer Member: a firm or a division of a firm regularly engaged in the production of Plant-Produced Precast and Prestressed Concrete.

Associate Member: any individual or firm engaged in supplying goods, services, and information that are used by the industry in the development or production of precast and prestressed concrete products.

Professional Member: any person who is a registered architect or engineer.

Professional Educator Member: any person who is a professional educator.

Student Member: any person who is enrolled in any recognized institution of higher learning.

Visit pcicentral.org for more information.

Lunch & Learn Feedback

We are a small office and were very pleased when PCI was able to present a lunch program for us concerning pre-cast construction. Besides the food being excellent the program was informative, to the point and very professionally done.

The information we came away with was very helpful in understanding the processes of design and of assembly of pre-cast system structures. This was one of a series of possible programs PCI has for presentation and we intend to have others in the series presented in the near future."

Nolan G. Bingham AIA

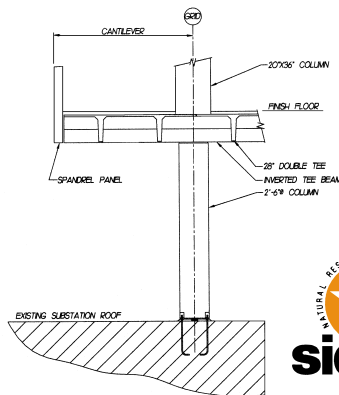
The Paris/Bingham Partnership, Corp.

Shadyside Hospital - Parking Garage Addition

Improving parking without disturbing emergency access

The "L" shaped addition of the Shadyside Parking Garage addition in the Pittsburgh Area provides an additional 340 spaces, bringing the total structure to 770 parking spaces.

Constructed on a normal hilly landscape, the addition consists of a total of 512 precast components, including: double tees, quad-tees, beams, columns, spandrels and brace panels.



Technical Notes: The addition consisted of cantilevering precast beams over the existing transformer substation and providing precast columns, which are supported on existing powerhouse columns.

Shadyside Hospital Parking Garage Addition

Pittsburgh, PA

Precaster: Sidley Precast

General Contractor: P.J. Dick, Inc./Massaro Company

Architect/Engineer: Tasso Katselas



Bridge Street Bridge Project - Southfield, MI

Winner of the **Harry Edwards Industry Advancement Award**

The very first carbon fiber reinforced/prestressed bridge in the United States consisted of the replacement of a failing bridge spanning a river, with two parallel concrete bridges. The construction of the first bridge consisted of using standard AASHTO precast concrete girders and steel reinforcement. The second bridge was constructed of precast concrete

double tee beams, reinforced and prestressed with rods and strands produced from carbon fiber reinforced polymers. Using the carbon fiber as structural reinforcement can dramatically increase the potential service life of highway bridges, thereby reducing safety hazards and annual maintenance costs.



HOLLOWCORE
INCORPORATED

Bridge Street Bridge - Southfield, MI

Precaster: Hollowcore Inc.

Consulting Engineers: Hubbell, Roth & Clark, Inc.

in conjunction with Dr. Nabil Grace,

Lawrence Technological University

General Contractor: Angelo Iafate Construction Company

Technical Note: Each bridge used 3 spans over 62 m (204 ft) in length to carry one-way traffic in a boulevard configuration.

Buckheads Mountain Grill

Spanning a River and Beautifying a City

With the development of river property across from Cincinnati, Ohio in Bellevue, Kentucky, many restaurants are taking advantage of the river atmosphere.

To save money on land and create more parking space, these restaurants are building platforms that extend out over the steep river bank. Because of this steep incline contour columns on this project ranged from 3' to over 25'.

Precast concrete was chosen to withstand various weather conditions, high, fast river currents, and the impact of heavy river debris.



Buckheads Mountain Grill

Bellevue, KY

Precaster: Ohio Valley Precast

General Contractor: Derek Engineering

Technical Notes: Buckhead's platform was a combination of two concrete systems. The columns and beams utilized Poured in Place System and the floor used Hollowcore Precast Concrete Slabs.



I'm Glad I Used **PRECAST** because...

"Products made of CFRP, carbon fiber reinforced polymer, are made from very thin fibers of carbon, about the diameter of a human hair. These fibers are woven together and enveloped in epoxy, similar to how fiber-glass is made using strands of glass. Carbon fibers are much stronger than glass fibers, and almost as strong as steel. The chief advantage of CFRP over steel in construction, is that it's non-corrosive. Without corrosion, we can expect reinforced concrete to last much longer."

Frederick C. Navarre, P.E.

Hubbell, Roth & Clark, Inc.

Consulting Engineers

Upcoming Events

October 18 AIA Indiana/AIA Kentucky Annual Convention and Trade Show
Columbus, IN

October 21 Board of Directors Steering Committee Meeting

October 22 PCI Central Membership Meeting at Ohio Valley Precast
Fairfield, OH

October 28-31 PCI Quality Control School for Levels I/II, III, CFA
Palatine, IL (Chicago)

December 9 PCI Board of Directors/ Steering Committee Meeting at Flexicore Systems
Huber Heights, OH

January 29-30, 2003 The Central Ohio Construction Expo / Columbus Builders Exchange
Columbus, OH

March 31, 2003 PCI Central Membership Spring Golf Outing
Lexington, KY

April 1, 2003 PCI Central Membership Meeting at Gate Bluegrass Precast
Winchester, KY



Phil Wiedemann
Executive Director

Director's Notes

The PCI Central Region is providing **Lunch and Learn Programs**, University Classroom Presentations and Professional Support in the markets of Indiana, Kentucky, Ohio and the western portions of Pennsylvania and West Virginia.

Please call us to schedule a Lunch and Learn Program. These programs earn AIA/CES credits and are an effective way to learn more about designing with precast in the convenience of your office.

Our web site at pcicentral.org is continually developing to include useful information for you. Our newest feature is a **product button** which allows you to find the producer member who can manufacture the product you need. Also, keep up-to-date with regional activities and programs.

(937) 833-3900



PCI FREE Design Resource

The Designer's Knowledge Bank is a FREE internet site created to assist design and construction professionals in understanding precast, prestressed concrete products and structures.



The contents of the Designer's Knowledge Bank include the following:

- Peer-reviewed technical papers
- Industry recommended practices
- Research & articles
- Online presentations
- Books & manuals

Visit www.pcicentral.org



PCI Central Region

9626 Upper Lewisburg Salem Road
Brookville, OH 45309

PRESORTED
STANDARD
U.S. POSTAGE PAID
LOWELL, OH
PERMIT NO. 5