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summer 12

Precast Gains Architect a Standing Ovation

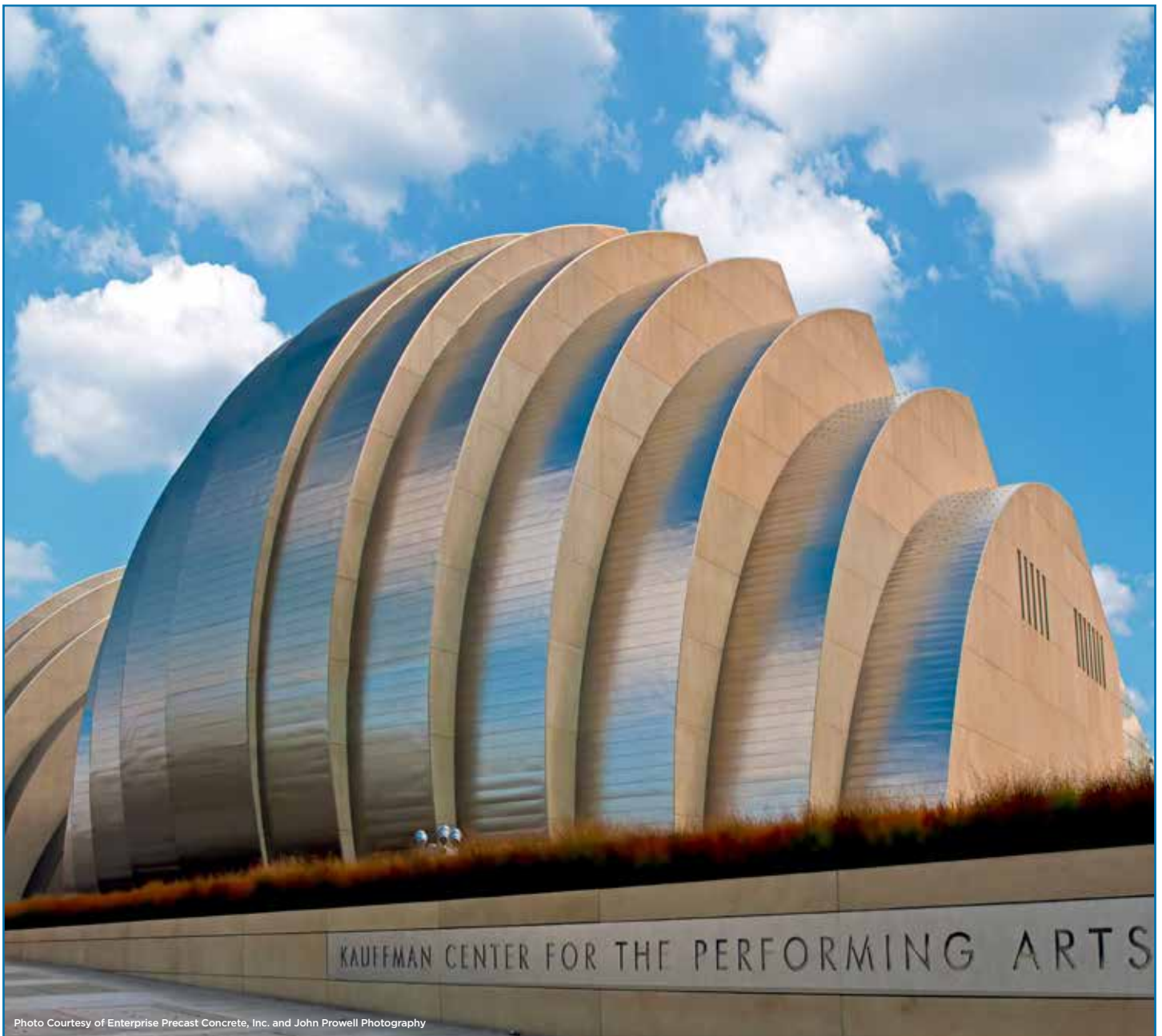


Photo Courtesy of Enterprise Precast Concrete, Inc. and John Prowell Photography

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About PCI Midwest

PCI Midwest serves Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota and Western Wisconsin. Formerly the Midwest Precast Association, the organization was first incorporated in 2003. Its mission is to promote the use of precast/prestressed concrete, to further educate the construction industry about precast/prestressed concrete, and to expand and nurture relationships between industry-related individuals and companies.

Membership in PCI Midwest offers you the opportunity to have your company's name and people in front of the diverse audiences PCI Midwest reaches. In 2011 alone, more than 100 Lunch and Learn box lunch presentations, office visits and seminars were attended by over 2,000 people. In addition to its educational programs, PCI Midwest offers networking opportunities and events so that members and their guests can share ideas, make contacts, build relationships and have fun.

PCI Midwest needs the economic resources that its members provide, but it also depends on the talents and expertise that its member's personnel bring to the table. The synergistic relationship that PCI Midwest members enjoy can only improve with more involvement by other industry partners. We invite you to be a part of our organization and look forward to working with you in 2012.

PCI Midwest Officers

Chairman - Gary Pooley, Hanson Structural Precast, Inc.
Vice-Chairman - John Arehart, Enterprise Precast
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Summer's Here!

We'll bring you in a picnic lunch when you schedule a box lunch presentation. We'll even throw in the credits for free! Here's a sampling of our picnic menu:

Precast Concrete Structures and Frames.

After a number of introductory slides the content includes topical coverage of the following:

- Applications of Total Precast Systems in parking structures, residential, offices, manufacturing and institutional settings
- Typical Precast Building Components
- Precast manufacturing
- Construction and erection considerations
- Design considerations
- Benefits of precast concrete relative to long clear spans, high-load capacity, fire resistance, durability, acoustical performance and thermal mass

The Case for Architectural Precast Concrete: Shaping Creative Design.

In this program, participants will learn about color, form and texture of architectural precast concrete, as well as the design flexibility and economy of using precast concrete. After participating in this program, learners will be able to:

- Discuss architectural precast options with owners
- Explain the advantages of using precast concrete to owners, and
- Choose the best design materials for upcoming projects based on the structural and budgetary considerations.

Designing with Precast/Prestressed Concrete: The Basics.

Use the Designing with Precast and Prestressed Concrete binder resource to:

- Research the different precast applications available to them as designers
- Determine if a specific precast application will work in their next design project
- Determine if architectural applications meet their client's needs
- Discuss different precast options relevant to design decision making processes



Place your box lunch order today with PCI Midwest by calling 866-MW-PRECAST or e-mail Mike@PCIMidwest.org. Ask about our expanded menu and specials!

Good Shepherd Health Center – New Addition

This project consisted of the addition of a second floor to the original building which was completed in 1994. This new addition ensures that Good Shepherd remains one of the premier care centers in Northern Iowa. It adds 32 new private rooms – 16 of which are for Alzheimer’s residents.

New dining and activity areas were also added, which bring the square footage of the addition to 21,777.

For the structure of this addition, Bergland & Cram chose cast-in-place concrete walls with a brick exterior, structural steel roof

framing, and 21,430 sq. ft. of a prestressed concrete hollowcore roof system.

Andrews Prestressed Concrete, Inc.
andrewsprestressedconcrete.com



Owner: **Good Shepherd, Inc.** • Architect: **Bergland & Cram, Mason City, IA** • Structural Engineer: **Peterson Engineers, West Des Moines, IA** • Contractor: **Henkel Construction Company, Mason City, IA** • Rendering Provided by: **Bergland & Cram, Mason City, IA** • Location: **Mason City, IA**

Lyndale Commons

The Lyndale Commons apartment project in Richfield, MN, which began construction in the fall of 2011, will offer 94 apartment units with floor plan options from studios up to 3-bedrooms. While many current housing options in Richfield are dated, the Lyndale Commons units will provide modern living options with wonderful amenities, including a roof top garden and sun deck, outdoor grills and landscaping, heated underground parking, and an adjoining transit plaza.

To create the heated underground parking area, the project utilized precast concrete hollowcore plank with four floors of wood framing above. A courtyard area is also supported with hollowcore. The 128,000 square foot building used 12” hollowcore planks along with precast concrete inverted tee beams and columns. Hollowcore planks offer advantages in multi-unit construction projects, including speed, convenience and safety.

Architect for the Lyndale Commons project, Pete Keely of Collage Architects, said hollowcore planks and precast concrete inverted tee beams and columns were selected because the structure contains underground parking. Keely explained that



“precast concrete is the most efficient and cost affordable way to provide clear spans and appropriate fire separations.”

Construction on the Lyndale Commons project is expected to be completed and available for occupancy in the fall of 2012. It is anticipated that the Lyndale Commons apartments will invigorate Richfield’s downtown area by providing alternative housing options and bringing new and active residents to the community.

County Materials Corp.
countymaterials.com

Architect: **Collage Architects, Minneapolis, MN** • Engineer: **BKBM Engineers, Minneapolis, MN** • Contractor: **Stonebridge Companies, Apple Valley, MN** • Location: **Richfield, MN**

Kauffman Center for the Performing Arts

Although still relatively new to the downtown Kansas City skyline, the Kauffman Center for the Performing Arts is already a key recognizable addition. The 286,031 square foot facility is a combination of steel, concrete, glass, metal panel and approximately 89,000 square feet of architectural precast concrete. Form follows function in the dual domed facility that houses two performing art center auditoriums. "This project was envisioned as precast from day one," recalled one of the key members from the architectural team. The design team paid close attention to Municipal Auditorium, the Kansas City Convention center, the World War I museum and other limestone landmarks in the surrounding area (taking special note of the tone and finishes). The design team worked with the precaster through an extensive

sampling process exploring various sands and aggregates to find the appropriate balance to complement the traditional existing with this new modern structure.

The project was highly architectural in nature, utilizing complex panels with little repetition. There was a combination of insulated panels along with solid panels. 8'-0" x 12'-0" panels were incorporated on the side walls to achieve a monumental and robust scale.

Curved shaped pieces were shipped to the jobsite on specially-made racks

to avoid damage. The end result was an internationally recognized Performing Arts Center that is helping to bring the arts back to Kansas City in full force.

Enterprise Precast Concrete, Inc.
enterpriseprecast.com



Architect: **Safdie Architects** • Architect: **BNIM** • Contractor: **JE Dunn Construction** • Structural Engineer: **Structural Engineering Associates (SEA)** • Specialty Precast Engineer: **Rupprecht Engineering** • Photo: **John Prowell Photography** • Location: **Kansas City, MO**

Total Precast Homeless Shelter

The new Higher Ground homeless shelter in Minneapolis shows how precast concrete panels can provide architectural finish, meet load-bearing structural requirements, and even serve as truss elements.

A total-precast building, components include insulated wall panels, prestressed hollow-core planks, and precast stairs. The wall panels are load-bearing, but also provide an exterior acid-etched, colored architectural finish. Precast panels surrounding one vertical section of windows have a white finish. Another vertical section features deep returns with windows surrounded by thin-brick covered precast panels and spandrels supported off the returns. Cantilevered bay windows are featured at the end of each floor. Hollow-core floors are covered with a sound mat and polished concrete topping.

The most interesting feature is a second floor roof area. Exterior of each upper floor consists of horizontal, architectural-finished precast panels. The panels covering the third floor also work as trusses spanning 40 feet and resting on columns below. At their bottom, these panels support hollow-core planks to one side that form a second level roof deck and, to the interior, support the planks of the third floor. At the top of the panels, a bearing angle picks up the hollow-core planks forming the fourth floor level.

Cermak Rhoades Architects had not done a precast building before. "It was very exciting," says Todd Rhoades, AIA, LEED AP. "The exterior precast panels are not only structural, they are insulated. They also perform as architectural panels. And, the building went up literally in just a few months. We did an analysis early in the



process. With the given time schedule, we realized that we could save a couple of hundred thousand dollars if we went with precast over conventional building systems."

Hanson Structural Precast Midwest, Inc.
hansonstructuralprecast.com

Owner: **Catholic Charities of St. Paul & Minneapolis and Community Housing Development Corp.** • Architect: **Cermak Rhoades Architects** • Engineer: **Mattson McDonald Young Inc.** • Contractor: **Ferichs Construction Co.** • PSE: **Ericksen Roed & Associates** • Location: **Minneapolis, MN**

Sun Well Service, Inc.



When Sunwell Service moved forward with their building project they consolidated their shop and office space under one roof...a move they desired for some time. Precast quickly became their structural system of choice for a few reasons:

- Looks and longevity
- Open shop floor plan
- Structural capacity for a 20-ton overhead crane that spanned the length of the shop

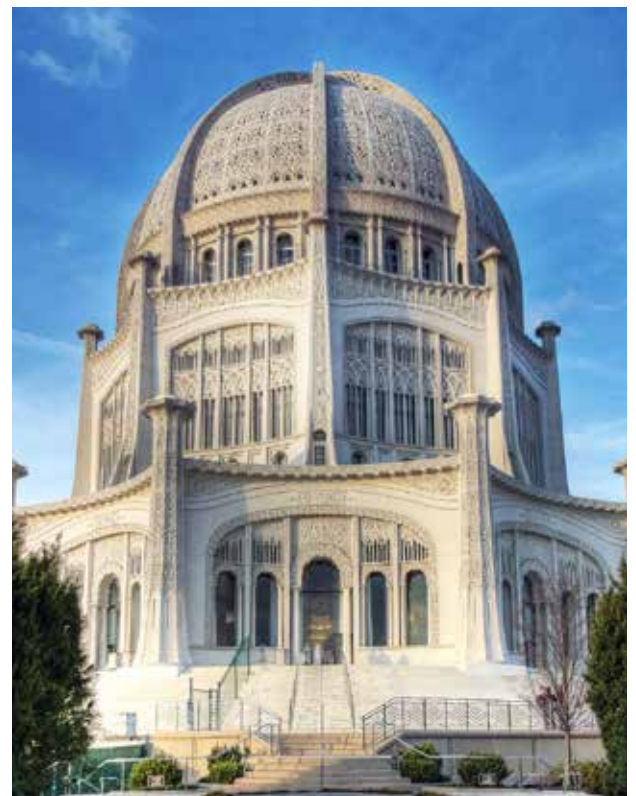
Wells Concrete
wellsconcrete.com

General Contractor: **Tofte Brothers Construction** • Architect: **AT Architecture** • Location: **Williston, ND**

ARCHITECTURAL PRECAST CONCRETE OFFERS **DESIGN FLEXIBILITY**

ARCHITECTURAL PRECAST concrete products, through their finish, shape, color, or texture, contribute to a structure's architectural expression. These products may be custom designed or feature standard shapes. They may be manufactured with conventional mild-steel reinforcement, or they may be pretensioned or post-tensioned. These products typically have more stringent requirements for dimensional tolerances, finish variations, and color consistency.

Precast concrete is a visually rich material that allows the architect to be innovative and attain design objectives that cannot be achieved with any other material. The architect's selection of color, form, and texture is critical to the aesthetic appearance of architectural precast concrete components. The choice of appropriate aggregates and textures, combined with well-conceived production and erection details, can achieve a wide variety of design objectives. Design flexibility is possible in both the color and texture of precast concrete by varying aggregate and matrix color, size of aggregate, finish processes, and depth of aggregate exposure. Combining color with texture accentuates the natural beauty of aggregates. With the vast array of colors, textures, and finishes available, designers can use precast concrete to achieve almost any desired effect.



Associate Members

American Spring Wire Corporation

26300 Miles Road, Bedford, OH 44146-1072
www.amspringwire.com
Rep: Jim Rudolph 800-683-9473 ext 269

Architectural Polymers, Inc.,

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Palmerton, PA 18071
610-824-3322 www.apformliner.com
Marshall Walters marshall@apformliner.com

Ash Grove Cement

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www.ashgrove.com 913-451-8900

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www.basf-admixtures.com

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www.sparklewashcmn.com
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Rep: Mark Joslyn 612-290-7109

Cheesebrough Brokerage Inc.

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Rep: Patrick Cheesebrough 651-717-6060

The Consulting Engineers Group, Inc.

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937-866-0711 www.daytonsuperior.com
Bob Roeller bob.roeller@daytonsuperior.com

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www.dwsteel.com

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www.elematic.com 262-798-9777

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www.endicott.com
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Rep: Gary Davis 402-729-3315

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www.fisterquarries.com 800-542-7393

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www.hayden-murphy.com
952-884-2301

Helser Industries

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503-692-6909

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Eden Prairie, MN 55344
www.holcim.com
800-562-3989

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www.hughesbros.com
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www.insteel.com

Iowa Steel & Wire Company

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www.okbrandwire.com
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www.landwehrconstruction.com
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www.lehighcement.com
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www.metrothinbrick.com
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www.plantarchitects.com
210-569-9262

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Randy Wilson
614-880-9955
randy@selectthinbrick.com

Shuttlelift

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www.shuttlelift.com
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Sparkle Wash Construction Services

726 N Frontier Dr, Papillion, NE 68046
402-573-5939
Rep: Craig Christensen
Rep: Sandy Hall

Splice Sleeve North America, Inc.

38777 W Six Mile Rd #106, Livonia, MI 48152
www.splicesleeve.com 877-880-3230
Rep: Toshi Yamanishi

Standley Batch Systems, Inc.

PO Box 800, Cape Girardeau, MO 63702-0800
www.standleybatch.com

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Sumiden Wire Products Corporation

710 Marshall Stuart Drive, Dickson, TN 37055
www.sumidenwire.com
336-940-6652

Thermomass

1000 Technology Drive, Boone, IA 50036
www.thermomass.com 800-232-1748

Topping Out, Inc.

5910 S 27th Street, Omaha, NE 68107
www.daviserection.com 402-731-7484

TSA Manufacturing

14901 Chandler Road, Omaha, NE 68138
www.tsamfgomaha.com
800-228-2946

If you are an PCI Associate Member and need to update your listing or if your company is interested in becoming an PCI Associate Member, please contact Mike Johnsrud at Mike@PCIMidwest.org.

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Kansas City, MO*

*Total Precast Homeless Shelter
Minneapolis, MN*

*Sun Well Service, Inc.
Williston, ND*



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