



The Broad Museum in Los Angeles, Calif., received the Sidney Freedman Craftsmanship Award. Willis Construction Co. Inc. in San Juan Bautista, Calif., produced the exterior panels.



Bétons Préfabriqués du Lac received an honorable mention for the renovation of the 100-year-old St. Mary's Hall.



Gate Precast Co. in Kissimmee, Fla., received an honorable mention for the LDS temple in Davie, Fla.

Three Projects Win Freedman Craftsmanship Award

CHICAGO, ILLINOIS

Three precast concrete projects were awarded the 2014 Sidney Freedman Craftsmanship Award, a program now in its third year to recognize PCI-certified plants for excellence in manufacturing and craftsmanship of architectural precast and glass fiber-reinforced concrete (GFRC) structures and individual components.

The three 2014 winners were:

- BPDL Bétons Préfabriqués in Alma, QC, Canada, for its work on restoring St. Mary's at Boston College.
- Gate Precast in Kissimmee, Fla., for its work on the Temple of the Church of Latter day Saints in Davie, Fla.
- Willis Construction Inc. in San Juan Bautista, Calif., for its work on the Broad Museum in Los Angeles.

The award recognizes success in overcoming obstacles during production, solutions to formwork or finishing challenges, and quality of the finished products. Structures completed since January 1, 2010, were eligible for the 2014 program.



The new Water Treatment facility for the City of Newport, R.I., features precast concrete panels with a light sandblasted finish and a wide horizontal band of embedded thin bricks breaking up the mass.

Precast Clads Water-Treatment Center

NEWPORT, RHODE ISLAND

Precast concrete architectural insulated sandwich wall panels were selected to clad the new Water Treatment facility for the city of Newport, R.I. The project upgraded the treatment capabilities for the center and another nearby one. Construction is expected to be completed in December 2014.

The facilities provide drinking water to the division's 14,500 retail customers in Newport, Middletown, and Portsmouth, as well as the wholesale customers at Naval Station Newport and the Portsmouth Water and Fire District. The work will improve drinking-water quality and responds to a mandate by the Rhode Island Department of Health to reduce by-products.

The \$67-million, two-facility project is being handled by the design/build team of AECOM and C.H. Nickerson & Co. Both facilities will remain operational during the construction.

The precast concrete panels feature a light sandblasted finish, with a wide horizontal band of embedded thin bricks breaking up the mass. The panels, 11 inches thick, feature two wythes of precast concrete sandwiching 2½ inches of XPS insulation. Coreslab Structures (CONN) Inc. in Thomaston, Conn., fabricated the precast concrete components.

The thin-brick bands were designed to complement existing structures on the sites built with traditional masonry-wall components. Interior exposed faces on the sandwich wall panels received a paint treatment. The load-bearing panels also support the steel roof joists and decking and were supported with temporary bracing while the roof structure was installed. The panels provide the two-hour fire-rating requirement.

Additional 8-inch-thick panels were used for interior nonload-bearing applications. All the panels were reinforced using galvanized reinforcing bars and mesh.

The panels provide a thermally efficient, durable wall section that was erected quickly, and offers all of the structural requirements for these complex installations.

Stresscon Project Earns LEED Gold Designation

COLORADO SPRINGS, COLORADO

The Summit Village Residence Halls at the University of Colorado at Colorado Springs (UCCS) have earned a LEED Gold designation. The two facilities, the first LEED-certified residence halls and the fifth certified project of any type at UCCS, feature total precast concrete structures.

The Copper House and Eldora House residence halls provide suites for 192 students and include multipurpose rooms, administrative space, and the Office for International Affairs. The collaborative design team for the 60,000-square-foot project included H+L Architecture in conjunction with Hanbury Evans Wright Vlattas + Company for architectural design, landscape architecture, and interior design.

Stresscon in Denver, Colo., provided all precast concrete components, including 806 pieces of floors, hollow-core, beams, columns, walls, shafts, and stairs. The precaster also designed 7-inch-thick, gray exterior wall panels with loading-bearing edges on the non-load bearing side for fire protection in the residence halls.

Opened in August 2013, the residence halls incorporate green design practices throughout, including water-efficient landscaping, local and recycled content and sourced materials, construction-waste recycling, and roof fittings for future solar panels.



Pointe Property Group is constructing two new facilities, the 56,616-square-foot, three-story Lee Pointe speculative office building and the 17,037-square-foot, four-story Gunbarrel Suites, using total precast concrete systems.

Two Pointe Projects Feature Total-Precast Design

CHATTANOOGA, TENNESSEE

Pointe General Contractors, the in-house construction division of developer/property manager Pointe Property Group, is working with Metromont in Dalton, Ga., to construct two concurrent properties using a total-precast concrete structural system. The system was specified after a review of several options, including steel frame and brick veneer.

Lee Pointe, a 56,616-square-foot, three-story speculative office building, will feature double-tee flooring and roof components plus wall panels with continuous insulation to provide a thermally efficient envelope. The walls feature a combination of embedded thin-brick veneer and a sandblast finish of a limestone precast mix. The project comprises 168 precast concrete pieces, including stairs, stair boxes, and elevator boxes, which were erected in 20 working days. The project will open in December.

The company also decided to use this system with its new Gunbarrel Suites, a four-story office building with an Egg & I restaurant on the first floor, after assuring the restaurant group that the project would be ready for occupancy in August 2014.

The four-story building, with 17,037 square feet of floor space, features the precaster's Metrodeck prestressed deck system for its flooring and roofing. The precast concrete wall panels feature continuous insulation with a sandblast finish. Two pigments were used, a charcoal mix for the first level, to delineate the base of the building, and a travertine color mix for upper floors. A total of 168 pieces were fabricated, including stairs, stair boxes, and elevator boxes. The precast was erected in 15 working days.

Correction

The structural-engineering services on the 2550 North Lakeview Drive residential project in Chicago, featured in a case history in the Summer 2014 issue of *Ascent*, were miscredited. The structural engineer on the project was SK&A Structural Engineers in Potomac, Md.



BioMed Realty Trust is currently constructing a 246,000-square-foot total-precast concrete parking structure to house 823 cars on its campus. To be completed in October, it will serve two new facilities being built and is clad with architectural precast concrete panels.

Regeneron Campus Adds Buildings, Parking

TARRYTOWN, NEW YORK

BioMed Realty Trust's two new buildings on its Tarrytown, N.Y., campus will cover 297,000 square feet. To handle parking needs for the two facilities, a laboratory and office space, designers created a four-story total precast concrete parking structure that will be waiting for the buildings' tenants when the facilities are ready for occupancy in 2015. The buildings also will be clad with precast concrete architectural panels.

The 246,000-square-foot structure offers space for 823 cars and will include several sustainable-design features, including a solar array on the roof and charging stations on the first floor. A steel bridge will be constructed to connect the upper parking levels to the buildings once they are completed.

The total precast concrete structure includes 523 components, comprising double tees, girders, columns, shear walls, lite walls, spandrels, stairs, slabs, and wall panels. The wall panels feature a sandblast finish with several pigments and white cement. The mix was designed to complement the architectural precast concrete panels to be erected on the façade of the two new buildings, which are nearby. Blakeslee Prestress fabricated the components for the parking structure, while Coreslab Structures (CONN) Inc. is casting the wall panels for the two buildings.

The four-bay structure's double tees feature carbon-fiber grid reinforcing in their flanges, notes Peter Bertolini, project manager for Blakeslee. This technique is being used more often, as it provides more durability and a more competitive price.

The project was designed by Perkins+Will in New York City, with a joint venture of John Moriarty & Associates in Farmington, Conn., and C.W. Brown Inc. in Armonk, N.Y., serving as general contractor. The structure is on track to be completed in October 2014, well ahead of the buildings' planned completion in June 2015.



A 29,581-square-foot Kia dealership is being constructed in McDonough, Ga., using 143 9-inch-precast concrete panels with a pigment and medium sandblast finish.

Precast Revs Up Kia Dealership

MCDONOUGH, GEORGIA

Owners of the McDonough Kia dealership needed their new property to be built quickly to begin operations faster while providing an attractive design. To achieve these goals, designers at architectural firm Innovo Inc. specified precast concrete architectural panels for the façade.

The 143 9-inch flat panels feature colored concrete with a medium sandblast finish and a variety of reveals. Atlanta Structural Concrete Co. in Buchanan, Ga., fabricated the precast concrete components.

The 29,581-square-foot dealership is located between two existing dealerships, for Toyota and Honda, so the work had to be contained and move quickly to avoid disturbing business at the other facilities. The pieces were erected in 12 days, with the dealership planning to open later this year.



South Dakota State University architecture students work with Gage Brothers as part of its Precast Studio.

SDSU Students Create Precast Project

BROOKINGS, SOUTH DAKOTA

Students participating in the PCI Foundation–sponsored architectural studio and construction management class at South Dakota State University partnered with the rural town of Mobridge, S.D., to create a gathering place in a square used for local celebrations.

The class worked with Gage Brothers in Sioux Falls, S.D., to not only design the project but also help to fabricate and erect it. “We’ve built a very nice town square with precast concrete,” says Prof. Brian Rex, who led the team.

A new project is already being planned for the architectural and construction management schools in South Dakota. “We are finalizing our agreement with Huron, S.D., to erect a façade on their main street,” Rex says.

Minnesota State University Adds Precast Program

MANKATO, MINNESOTA

Minnesota State University has become the 10th school to receive a grant to start a precast concrete education program. The program, to be housed in the Schools of Engineering and Construction Management, will teach precast and prestressed concrete concepts to civil-engineering and construction-management undergraduate students.

“We are excited to see how our programming is expanding from just single schools of architecture to construction management and engineering programs working in collaboration,” says Douglas Sutton, Academic Council chair for the PCI Foundation.

Professor James Wilde will lead a team of professors to advance students’ knowledge of materials, methods, and design principles of prestressed concrete. The program also will serve as a resource for professionals in both basic and advanced topics of precast/prestressed concrete. PCI member Wells Concrete in Albany, Minn., will work closely with the program.



From left are James Wilde of the Minnesota State University (MSU) School of Civil Engineering, Mike Johnsrud of PCI Midwest, Farhad Reza of the MSU School of Civil Engineering, Gregg Jacobson of Wells Concrete Inc., and Mohamed Diab of the MSU School of Construction Management.

Spancrete Partners With AltusGroup

WAUKESHA, WISCONSIN

Spancrete has partnered with AltusGroup to market CarbonCast brand Enclosure Systems in the Midwest. The precaster joins the current 16 precast companies that develop, manufacture, and market precast concrete enclosures nationwide. The firm will produce CarbonCast High Performance Wall Panels and CarbonCast Insulated Architectural Cladding at its Wisconsin plant.

Northeast Prestressed Wins Clark Award

CHICAGO, ILLINOIS

Northeast Prestressed Products in Pottsville, Pa., has been named the winner of the 2014 T. Henry Clark Award, presented by the Precast/Prestressed Concrete Institute. The award recognizes exceptional procedures in quality control at a precaster's plant.

The award is named for T. Henry Clark, (P.E., SE), who was instrumental in the development and implementation of PCI's Plant Certification and Quality Control Personnel Certification programs.

Clemson Creates Design Studio

CLEMSON, SOUTH CAROLINA

The School of Architecture at Clemson University in Clemson, S.C., has created a design studio, as well as a variety of courses that focus on a southeastern high-speed rail line built with precast concrete components.

Led by Assistant Professor Carlos Barrios, the program addresses design scenarios associated with a project of this magnitude, allowing design and research teams comprising both faculty and students to investigate design and material innovations associated with infrastructure and transportation options.

The program, to begin in the fall, will work with local partners to gain industry insight. Peter Finsen of the Georgia/Carolinas PCI will coordinate from the industry side.

PCI Foundation introduces Professors Seminar

CHARLOTTE, NORTH CAROLINA

The PCI Foundation will hold a program on January 4 to 6 in Charlotte, N.C., for architecture professors who wish to learn more about precast concrete design and how it can be taught in the university classroom or studio.

The program, to be held at the University of North Carolina at Charlotte, will include instruction from college professors teaching precast concrete as part of grants received from the PCI Foundation. Input from industry experts and architects with precast concrete experience also will make presentations.

Attendees will be given tools to assist in teaching precast concrete concepts to students. These include Precast in a Box, a resource designed to offer professors a variety of teaching tools from which they can select those to use in the classroom.

Those attending will visit the UNCC Solar Decathlon project, which is being reassembled on campus, and tour a precasting plant and precast concrete project. The program is free to qualified participants. Registration is available through local PCI region or PCI member companies or through the PCI Foundation, via Marty McIntyre at martymci@pci-foundation.org or 708/386-3715.

Submit your headline news for consideration in a future issue of *Ascent* to Stephanie Corrigan at scorrigan@pci.org.