2012
Cast Stone Institute
Excellence Awards
~ Winners ~
Residential Excellence
Missouri Residence
Springfield, Missouri

Producer Member:
Architectural Cast Stone, Inc. (KS)

Architect: Hetherington Design & Consulting
Mason: John Gill Masonry
What is the scope of the project?
A newly build residence inspired by the home owner’s travels.

Excellence Award Winners
What is the role of Cast Stone?
The cast stone on this project included, a balustrade system with a ramp and twist feature, custom shadow boxes, archways, columns, window surrounds, bands, wall coping, caps, corbels, keystones, cornices, stair treads, risers, veneer, and custom front entry.
How was Cast Stone critical to the success of this project?

It gives that worldly look that was inspired by homeowner’s travels.
Judges Comments

• The entry was the strongest element of the design and promotes the grand entrance feel to the home.

• The use of the cast stone helped to bring together the various design styles.
Residential Excellence

Taylor Residence
York, Pennsylvania

Producer Member:
York Lintel & Cast Stone

Architect: Williams & Ports
Mason: Don Miller Masonry

Excellence Award Winners
What is the scope of the project?

This new building project featured a significant amount of door and window surrounds, keystones, balustrades, columns, ornate balcony supports, capitals, panels, pilasters, piers, pier caps, sills, and coping.
The role of Cast Stone was to complement and accentuate the architectural details of the design, highlighting the elegance of the structure. The Cast Stone creates a stately transition to the outside spaces with a grand balcony, shapely balustrades, and Cast Stone surrounds for the oversized windows.

What is the role of Cast Stone?

Excellence Award Winners
How was Cast Stone critical to the success of this project?

This mansion sits perched atop a hill with sweeping views of the central PA countryside. The owner wanted a structure that could be seen for miles and provided an impactful residence for entertaining large groups.
Judges Comments

- Although the home is well done, the garage photo showed the style quite nicely as well.

- Without the Cast Stone, this project would not have been nearly as impressive.
Commercial Excellence

Rockwall County Courthouse

Rockwall, Texas

Producer Member:
Advanced Cast Stone, Inc.

Architect: Harold Sargent/Brinkley Sargent Architects
Mason: Mike Blackburn/ DMG Masonry, Inc.

Excellence Award Winners
What is the scope of the project?
This is a new county building housing courtrooms and the administration for Rockwall County, Texas.

Excellence Award Winners
The courthouse was designed in a gothic architecture style using cast stone and brick. Cast Stone provided the classical features including a massive gable at the entry, four-story Tuscan columns, the formal base and accents for pilasters and roof coping. It also features significant cast stone ornamentation including a cast stone book of justice. The rear entry was designed for at-grade access using a series of 5 openings, all designed with 3 stepped-down cast stone arches.

What is the role of Cast Stone?

Excellence Award Winners
How was Cast Stone critical to the success of the project?

Cast stone provided the architectural detail to enhance the overall classical design of the building. While there were many cast stone features, two uses of cast stone deserve special consideration. The first, is the perfect understanding the architect had about the effect of sun light on the structure. Every cast stone feature of the building was exaggerated to provide contrast through the effect of shadow. The architect for this building used cast stone to shadow and thereby contrasts the building features. The second, a detailed ornamentation at the front gable. A cast stone carved book, with “the flaming torch of justice” imposed on it, is the primary insignia of the structure.
Judges Comments

• This project includes a significant amount of Cast Stone but it was a good and restrained use.
Commercial Excellence

Dallas Country Club

_Dallas, Texas_

Producer Member:
Advanced Cast Stone

Architect: MAI Design Group Architects & Image Design Architects
Mason: David Barnes/Dee Brown, Inc.

Excellence Award Winners
What is the scope of the project?

The Dallas Country Club is the oldest golfing club in North Texas situated in an exclusive residential area of Dallas. The new building is in the style of an English Country Manor House or Hunting Lodge. Interestingly the structure uses a medley of quality construction materials including cast stone, natural stone, brick, hewn wood, and copper.
While cast stone did accent the building at many locations, its role was one of a unifying element for diverse products and a specific style statement. Cast stone was also used to transition the exterior and interior of the club house. Cast stone was used extensively on the interior in the entry, dining, hallways and spa areas including 6 large fireplace surrounds. Other than two matching fireplaces on either side of the main dining area, all fireplace surrounds were designed to coordinate with the architecture of the room.

What is the role of Cast Stone?

Excellence Award Winners
How was Cast Stone critical to the success of the project?

Cast Stone provided the architectural details of the building. A great example is the largest bay window featuring an intricate design which was then scaled to each other bay window providing both exacting scale and continuity throughout the building. The success of cast stone is particularly important at the porte cache at the entry and the banquet areas, the chimneys, the art panels at all bay windows, and the fireplace surrounds.

Excellence Award Winners
Judges Comments

- This project shows an impressive and appropriate use of Cast Stone while supporting the design.
- There is an exceptional fireplace surround in the interior application.
- The project was very well executed and the building designed in a way that it looks as though it has been there for many years.

Excellence Award Winners
Restoration Excellence

Richmond Hall - Towson University
Towson, Maryland

Producer Member:
York Lintel & Cast Stone

Architect: Einhorn Yaffee Prescott
Mason: Watts Restoration

Excellence Award Winners
What is the scope of the project?

This high-profile restoration project is underway at one of the original campus buildings at Towson University. Cast stone was used for quoins, window surrounds, roof trim, finials, panel outcroppings, and cast ornamental lions.
What is the role of Cast Stone?
To fully restore this historic building to its original appearance.

Excellence Award Winners
How was Cast Stone critical to the success of the project?

Built in 1914, this structure was in various states of decay. Hundreds of sample pieces were carefully removed from the structure and shipped to the York Cast Stone facility for mold takeoffs. Because of the high profile of this project, the architect and engineering firms were forcing close scrutiny of each piece to ensure exact duplication was met. Of particular note are the cast ornamental lions and ball finials that are perched atop several cornices on the building. The university trustees are thrilled with the authentic recreation of this restoration project’s needs, and the adherence to the original materials appearance of the cast stone.
Judges Comments

- This was a large project involving intricate pieces.
- The reproduction of the lion on the roof was exceptional.
Restoration Excellence

Bucknell University
Carnegie Building

Lewisburg, PA

Producer Member:
Sun Precast Co., Inc.

Architect: Bucknell University Construction and Design Team
Mason: Eagle Ridge Contracting, Inc.

Excellence Award Winners
What is the scope of the project?

This restoration project is a cast stone replacement of the original brownstone steps and knee walls to the historical Carnegie Building on the campus of Bucknell University. The scope includes the complete replacement of the existing brownstone steps, landing, and wall coping.
What is the role of Cast Stone?

The role of Cast Stone was to replicate the severely deteriorated original brownstone elements, which were damaged beyond repair, due to years of weathering and use. With natural brownstone becoming more difficult to source, cast stone was selected for its ability to replicate the natural stone in both color and texture.
How was Cast Stone critical to the success of the project?

The replacement Cast Stone entry is a perfect replication of the original structure. The original top landing of the entry was structural in nature, spanning the entire width of the entry. In order to meet this challenge, the cast stone landing was designed to be structural, at an overall dimension of 5’3” wide x 13’ 8” long x 6 ¾” thick. This project is a perfect example of how cast stone can also be used in structural applications, while still maintaining its architectural appeal in replicating natural stone.
Judges Comments

- The restoration stayed true to the aesthetic intent of the original stairs.
- The fact that the stairs spanned the underground walkway made the project difficult.
Hardscape Excellence
Flight 93 Memorial
Shanksville, Pennsylvania

Producer Member: Royal Stone LLC
Architect: Paul Murdoch Architects
Mason: Cost Company

Excellence Award Winners
What is the scope of the project?

The Flight 93 Memorial Project presented many challenges in both the design, and manufacturing processes.
What is the role of Cast Stone?

The Wet Cast Stone on this project was pretty much the key to this phase of the memorial. From the Moat Wall, to the Benches, our product was, and is the focal point of the memorial walkway area.
How was Cast Stone critical to the success of the project?

From a design and manufacturing process, there was a compound slope to the walkway area, that required rendering the entire job site in 3D in order to correctly orient the moat wall pieces in our formwork, so they would sit correctly on site, relative to the cross slope, and running slope of the walkway area. In addition, our pieces were to be installed with a fairly steep angle on the face, so all of this had to be taken into account.
Judges Comments

- Cast Stone was used in a modern application which was interesting to see.
- The consistency of the black color was impressive.
- The jointery was crisp and well done.
- This unique use of Cast Stone including the benches made the project outstanding.
Hardscape Excellence

SMU Quadrangle Plaza
Dallas, Texas

Producer Member:
Stone Legends / Stone Magic / CSCS

Architect: Robyn Dunn Jacobson & Marilen Mendez / Kevin Sloan Studio
Mason: Fred Miller / TST Construction Services, LLC

Excellence Award Winners
What is the scope of the project?

Two structures were part of this project, the Cooper Centennial Fountain, and the Turner Centennial Pavilion.
What is the role of Cast Stone?
Both structures were built as gifts to the university to celebrate its 100th anniversary. The signage commemorates these supporters of the school.
How was Cast Stone critical to the success of the project?

The cast stone took a plain grassy area between buildings and turned it into a beautiful plaza celebrating the entire history of the school, and gave the structures a look of permanence.
Judges Comments

• This is a well executed project that was designed appropriately for the intended style.

• The crisp exterior hardscapes and the interior applications were both very well done.

Excellence Award Winners
Architect’s Choice
Sanford Heart Hospital Lobby
*Sioux Falls, South Dakota*

Producer Member:
American Artstone Company

Architect: AECOM Architecture
Mason: Walter Ree Masonry

Excellence Award Winners
What is the scope of the project?

The Sanford Heart Hospital was an addition to the existing Sanford Hospital and was designed with a high profile entry requiring massive cast stone arches to be installed in a curved wall. The arches support the decorative cast stone panels and architectural woodwork above them. The integral columns supporting the arches are cast stone with an in-set which received limestone installed by the masonry contractor in the field.

The Cast Stone is: 2-large cast stone arches with jambs and 2-small cast stone arches with jambs, 2-large decorative panels (medallions) and 2-small decorative panels, and the columns bases for the adjacent hallways leading into the hospital.
The highly refined cast stone components provide a decorative and elegant entrance to the facility by using the Cast Stone and accenting it with architectural woodwork and natural stone veneer. This combination of materials gives the lobby atrium area and adjacent hallways leading into the building a character and establishes the post-modern architectural style desired by the design team.

Excellence Award Winners
How was Cast Stone critical to the success of the project?

The feature wall is curved and required curved decorative arches and curved decorative panels (medallions) with refined details to provide the ribbing and architectural elements. The cast stone base panels installed at the hallway columns carry the elegant yet heavy character of the cast stone as you move away from the lobby atrium and into the facility.

When we met with the design team, the foundations and structural steel floor members were already being installed. The loads from the wall above the arched openings required some strategic structural considerations. By designing these uniquely complicated profiles as large 1-piece arches, we achieved the structural requirements and also helped the contractor reduce field installation hours.
Judges Comments

- This is an impressive project and use of cast stone in an interior application.
- The lighting incorporated into the design was very well done.
- The unique and complex piecing together of the stone to create the look of the wall is excellent.
Manufacturing Excellence
Sanford Heart Hospital - Lobby
_Sioux Falls, South Dakota_

Producer Member:
_American Artstone Company_
What is the scope of the project?

The Sanford Heart Hospital was an addition to the existing Sanford Hospital and was designed with a high profile entry requiring massive cast stone arches to be installed in a curved wall. The arches support the decorative cast stone panels and architectural woodwork above them. The integral columns supporting the arches are cast stone with an in-set which received limestone installed by the masonry contractor in the field.

We provided components including; 2-large cast stone arches with jambs and 2-small cast stone arches with jambs, 2-large decorative panels (medallions) and 2-small decorative panels, and the columns bases for the adjacent hallways leading into the hospital.
The feature wall in the lobby atrium is curved and required the architectural cast stone panels (medallions) and arches to be cast at the same radius. The 4-arches were cast in 1-piece per arch and were required to carry rotation loads from the large wall above and be supported by the cast stone jamb pieces. The arches and jambs are also exposed front and back, requiring additional consideration for finishing. Our molds were fabricated from wood and foam by veteran craftsmen with the uniquely complicated profiles requiring up to four weeks to build a single mould. Our metal fabrication crew was also challenged with creating huge very complicated reinforcing cages and embeds for these unique curved shapes. The sheer size of the arches required “just-in-time delivery” so they could be hoisted directly from the truck into place on the building.
Degree of Difficulty

We were involved in the design process and were invited to make recommendations related to profiles, piece sizes and connections. In addition to those challenges mentioned above, we were confronted with scheduling and sequence challenges during construction, requiring coordination of which products needed to be cast in sequence to be able to ship appropriate products as needed. The sheer size and weight of many of the pieces required critical planning to insure just in time delivery, allowing these specific pieces to be picked and swung into place on arrival. Because the exterior walls and much of the interior were constructed prior to the delivery of the large cast stone arches and medallion panels, design of pick points and embeds were critical to allow these pieces to be lifted and pulled into their final locations.

Excellence Award Winners
Due to the enormous size of the arches and the rotating loads from the curved wall, we started designing and drawing certain elements many months in advance of anticipated deliveries, in order to allow enough mould building time to meet the critical delivery requirements. Creating moulds and reinforcing cages for the 2-different size compound (curved) arches was also a challenge. The architects’ and owner representatives desire for the inclusion of the massive decorative arches, columns and base panels to establish the elegant heavy character of the facility was decided very late in the project, after significant structural elements were already in place. The design was successfully accomplished with the use of our customer service and quality cast stone products.
Manufacturing Excellence
Richmond Hall - Towson University
Towson, Maryland

Producer Member:
York Lintel & Cast Stone

Excellence Award Winners
What is the scope of the project?
This high-profile restoration project is underway at one of the original campus buildings at Towson University. Cast stone was used for quoins, window surrounds, roof trim, finials, panel outcroppings, and cast ornamental lions.
What special molding or casting techniques were necessary to illustrate the Architect’s concept on the project?

Built in 1914, this structure was in various states of decay. Hundreds of sample pieces were carefully removed from the structure and shipped to the our facility for mold takeoffs.

Because of the high profile of this project, the architect and engineering firms were forcing close scrutiny of each piece to ensure exact duplication was met. Of particular note are the cast ornamental lions and ball finials that are perched atop several cornices on the building. The university trustees are thrilled with the authentic recreation of this restoration project’s needs, and the adherence to the original materials appearance of the cast stone.
Degree of Difficulty

High. Due to the extreme scrutiny of providing exact replica pieces; careful packaging & shipping of large panel outcroppings; and designing replacement lion ornamentals.

Excellence Award Winners
Richmond Hall - Towson University

Manufacturing Excellence Award Entries

Were there unique project requirements that presented particular challenges and how were they met?

Shipping the huge beveled panel outcroppings required significant structural elements so the units wouldn’t crack during shipping. Also, since there were some original cast pieces to remain on several areas of the structure, we had to go to great lengths to acid wash the new units to bring the color and texture into spec with the original pieces on the building.