STRUCTURAL ENGINEERS ASSOCIATION

OF SAN DIEGO

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Structural Engineers Association of San Diego Recognizes Excellence in Structural Engineering

San Diego, CA – The Structural Engineers Association of San Diego (SEAOSD) recently recognized two recipients of the organization's 2006 Excellence in Structural Engineering Awards. Project submissions were judged by a local panel of three expert structural engineers: Tony Court, of Curry Price Court; Jim Amundson, of Hope Engineering; and Carl Josephson, of Josephson Werdowatz. The winning projects were chosen for their demonstration of engineering excellence performed by structural engineers. Recognition was given for creativity and innovation in design, efficiency in use of materials and labor, suitability of the design to the performance objectives of the project, and addressing any unusual challenges of the project. The award winners by category were:

Conventional Technology in New Construction
Carson Tahoe Hospital
Architect: Moon Mayoras Architects
Structural Engineer: Degenkolb Engineers
This three-story hospital in Carson City, Nevada, was designed for a Zone 4 earthquake. Although steel braced frames were originally proposed, it was re-designed with the unconventional use of concrete tilt-up walls. This allowed for an open, flexible interior plan as well as more available locations for window openings. The walls are among the largest tilt-ups ever, at up to 292,000 pounds and 83' tall.

Conventional Technology in Retrofit/ Alteration
Rebuild Pier 4 at San Diego Naval Station
Structural Engineer: Blaylock Engineering Group
Pier 4 was built in 1943 and is a concrete deck supported on concrete piles. The pier and piles were badly damaged by corrosion of the reinforcing. The innovative solution was to pour a new deck on top of the old deck, which was used as a form and not repaired. The piles were repaired. This extends the life of the pier another 50 years at half the cost of demolishing and building a new one.

SEAOSD also awarded three Certificates of Merit to projects for their creativity and use of practical solutions in structural engineering design.

Conventional Technology in New Construction
Cathedral Catholic High School
Architect: Architects MDWF
Structural Engineer: SDSE Engineers
This new high school campus in Carmel Valley has 12 buildings including a library, chapel, gymnasium and theater. Exposed masonry walls up to 45' high and steel roof and floor systems were used. Special attention was paid to detailing, which allowed all masonry work on each building to be completed before steel work began. This greatly helped the schedule and flow of construction.

Conventional Technology in New Construction
National City Public Library
Architect: Carrier Johnson Architects
Structural Engineer: KPFF Consulting Engineers
The geometry of the 49,000 square foot library is complex. The main area is elliptical in plan and is a single story with high ceilings. Connected to it are two two-story rectangular modules. Steel framing with a combination of moment and braced frames was chosen for its light weight and ability to accommodate floor-to-ceiling glazing at exterior walls.

Landmark Structures
Garden Buildings at Petco Park
Architect: Antoine Predock
Structural Engineer: Burkett & Wong Engineers
The two four-story garden buildings house concessions and facilities for the ballpark, and are adjoined to the main stadium by pedestrian ramps. They also support planters and water features. They are constructed of concrete frames covered in stone cladding. The shape and placement of the garden buildings is meant to evoke the natural landscape of San Diego, with its canyons and cliffs.

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Note to Editors: High resolution photos available upon request.
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