## 2004 AISC I.D.E.A.S. AWARDS



ponsored by the American Institute of Steel Construction, the I.D.E.A.S. awards (Innovative Design and Excellence in Architecture with Steel) recognize architectural designs using structural steel as a prominent architectural feature.

AISC presented each project's architect with their I.D.E.A.S. award at the AIA 2004 National Convention and Expo in Chicago in June. Awards were presented in four categories based on project cost: less than \$10 million; \$10 million and greater, but less than \$25 million; \$25 million and greater, but less than \$100 million; and \$100 million and greater.

→ Structural steel must form a prominent architectural feature of the build-

ing, either as an interior or exterior application.

- → Building construction must have been completed after January 1, 2001.
- → Projects must have been designed by architects licensed in the United States.

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- → Creative use of exposed structural steel in the architectural design
- → Overall aesthetic and visual impact of the project
- → Design resolution demonstrating exemplary sensitivity in the resolution of formal, functional and technical requirements as outlined in the project description
- → Technical advancement in the use of structural steel in the architectural expression
- → Creativity and sensitivity in the com-

bination of structural steel elements with other materials

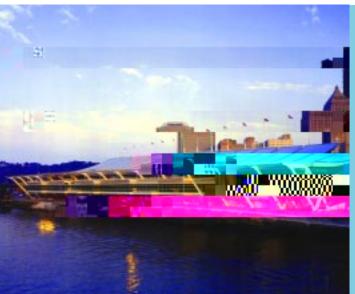
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Senior Editor, Architectural Record, New York City

Principal, Meyer, Scherer & Rockcastle, Ltd., Minneapolis

Principal, Gillies Stransky Brems Smith PC, Salt Lake City

Associate, Astorino, Pittsburgh



© Roman Viñoly, New York City.

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he David L. Lawrence convention center in Pittsburgh is a 1,450,000-sq.-ft, steel-framed convention space. The 900'-long, five-story structure is situated on the Allegheny River, and is part of Pittsburgh's redevelopment plan to generate activity on its waterfront. The facility has two levels and 330,000 sq. ft of exhibition space, (250,000 sq. ft of which is column-free), 53 meeting rooms, 37 loading docks, a large concourse, teleconference and telecommunication capabilities, and open public terraces. The architect and engineer designed a custom roof structural system with suspension-bridge technology. This system provides the main architectural form to the lightweight long-span cable-roof structure, and makes it a distinctive part of the city's skyline. For more information on the David L. Lawrence Convention Center, turn to the article on page 30.



Wood + Zapata, Boston Lohan Caprile Goettsch Architects, Chicago

he challenge of a \$606-million master plan and adaptive reuse project for Soldier Field, home of the Chicago Bears, was squeezing a modern stadium within the confines of an existing historic structure that was approximately 80' narrower than typical stadiums—in just 20 months. The result is an asymmetrical solution, with four levels of skybox suites stacked on one side of the stadium and cantilevered seating bowls. Long spans and cantilevers meet width and height restrictions and provide unobstructed views. Twenty-one tuned mass dampers minimize vibration. The design-build team used 3-D modeling and electronic data interchange technology to complete the project. For more on Soldier Field, see the article on page 36.



Lucien Lagrange Architects, Ltd., Chicago

ising from an urban setting in Chicago's rapidly transforming River North neighborhood, the Erie on the Park condominium building is a 25-story, 124-unit tower. The glass-and-steel residential building consists of a concrete base topped with 21 stories framed in wide-flange shapes, supporting closely spaced steel joists. Complementing this gravity system is a lateral system vin Brand Pring of Spacete shear walls at the base and three-story megabraces in the steel stories. In the north-south direction, the megabraces were moved from the interior to the exterior to resolve torsional issues, presenting an opportunity to make a distinctive statement using exposed steel in architectural design. Read more about Erie on the Park in the May 2002 and June 2003 issues of Modern Steel Construction.

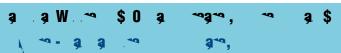


Hammel, Green and Abrahamson, Inc., Minneapolis

he new Corporate World Headquarters for ADC is designed to facilitate employee collaboration and comfort. The first phase includes a four-story building with laboratories and offices, cafeterias, a parking deck, and an auditorium. Skyways and a tunnel provide climate-controlled access to all campus elements. The steel-framed facility is adaptable to a number of work configurations, ensuring its viability throughout its life cycle. The building conserves energy through skylights, atriums, a raised-floor air-distribution system with personal energy modules, and efficient lighting and mechanical systems. The building's transparent plan, with stacked glass-wall conference rooms and ample stairways, provides connec-



© Werner Sagarra, Phoenix.



Swaback Partners, Scottsdale, AZ

he Airmore Hangar One project in Scottsdale, AZ is a private club for jet owners. Twin 30,000 sq.-foot hangars accommodate up to 15 personal and corporate aircraft. A fully integrated 68,500 sq.-ft multi-purpose space includes below-grade parking, pilot and staff offices, aircraft maintenance facilities, a gallery, a garage for the display of vintage cars, and space for everything from small parties to large gatherings. Two fabric-shade canopies feature 80'-long cantilevers composed of twenty 16"-deep exposed square HSS. A steel-framed, aluminum-clad, 120'-long "paper airplane" makes a signature architectural statement. Steel HSS columns are anchored to concrete walls, the assembly of which transfers gravity, lateral wind, and wind uplift forces into concrete diaphragms and shear walls. For more information, see the article on page 43.



Courtesy Tom Fox and SWA Group.



Williamson Pounders Architects, Memphis

he Tunica RiverPark allows tourists and residents to view and experience the Mississippi River. Its three major components are a harbor, a visitors center and a "Nature Experience" trail area. The curving harbor shelters a custom-designed floating steel dock that accommodates excursion riverboats and small leisure craft. Secured by three 80'-tall steel towers, the dock rises and falls with the changing river levels. A 200'-long steel HSS truss gangway bridge is hinged to accommodate the dock's vertical movement. The Visitors Center is a two-story steel-framed building that showcases the river's life and history. Its "sail" is framed with a curving horizontal truss attached to vertical three-dimensional trusses and veneered with perforated aluminum panels. The four-story-high observation platform within the sail structure provides spectacular vistas of the river. Read more about the Tunica RiverPark on page 45.



© Farshid Assassi, Santa Barbara.



he 30,000 sq.-ft conservatory is organized about a pergola-like circulation "street" that recalls elements and materials from the existing adjacent botanical gardens. In the Butterfly Wing, a large triangular shaped truss forms the "body" of a butterfly and rests on two tapered piers. Smaller arched-bottom steel pipe trusses span from the main truss to a series of steel pipe columns at the perimeter of the structure, forming the "wings" of the butterfly. Diagonal bracing in the walls was avoided to emphasize the vertical and horizontal elements of the structure. Field-welding of the steel pipe and HSS components helps give the buildings a unified look—as if the entire structure were brought to the site in one piece. Read more about the Reiman Gardens Consrvatory complex in the April 2004 issue of Modern Steel Construction.



Frederick Phillips and Associates, Inc., Chicago

uilt on a thought-to-be-unbuildable, triangular lot on the edge of Chicago's Cabrini Green neighborhood, this 1,200-sq.-ft house consists of two principal components: a four-story exposed steel structure on a 13' plan module and a 10'-square, 40'-tall concrete-block stair tower connecting the four levels of the steel structure. The first and fourth levels of the steel structure are open, and the second and third levels are fully enclosed. The house is vertically inverted with the principal outdoor space occupying a fourth-level roof terrace. The first level provides space for parking and covered access to the front door at the base of the concrete block tower. Since Chicago codes do not allow unprotected steel, Fire-T6 -783 reW n" n



