

## Call for Entries: 2005 IDEAS Awards

Entries for the 2005 AISC Innovative Design and Excellence in Architecture with Steel (IDEAS) Awards are due April 1. These prestigious awards give national recognition to designers of steel-framed buildings.

Judges will consider each entry based on the following criteria:

- Aesthetic and visual impact of the project;
- Application of innovative design approaches in areas such as connections, gravity systems, lateral load resisting systems, fire protection, and blast;
- Innovative use of architecturally exposed structural steel;
- Technical advancement in the use of structural steel in the architectural expression;
- Creativity and sensitivity in the combination of structural steel elements with other materials.

To be eligible, projects must have been completed between January 1, 2002 and December 31, 2004. A significant part of the framing system must be steel wide-flange structural shapes or hollow structural sections. The building must have been designed by architects licensed in the United States or the project must be located in the U.S. Both new construction and significant renovation projects are eligible.

Project entries are judged in four size categories—less than \$10 million, \$10 million to less than \$25 million, \$25 million to less than \$100 million, and more than \$100 million.

The awards will be presented in May 2005 at the annual American Institute of Architects (AIA) convention in Las Vegas, NV and the winning projects will be featured in an issue of *MSC*.

For more information on the competition, visit [www.aisc.org/awardsideas](http://www.aisc.org/awardsideas) or contact Becky LeDonne at 312.670.5433 or [ledonne@aisc.org](mailto:ledonne@aisc.org). ★

## ASCE Great Lakes Regional Conference in Chicago, IL April 2005

Student chapters of the American Society of Civil Engineers (ASCE) from the Illinois Institute of Technology and the University of Illinois-Chicago will host the 2005 ASCE Great Lakes Regional Conference in Chicago, IL.

The conference will be held April 21-24 at the Illinois Institute of Technology's campus and at Chicago's Lincoln Park. The program will feature educational presentations, social activities, an awards banquet, and, most importantly, six competitive events including the regional concrete canoe and regional steel bridge competitions.

For more information about the ASCE Great Lakes Regional Conference, visit [www.ascegreatlakes2005.org](http://www.ascegreatlakes2005.org), or contact Shani Jallah: [jallah@iit.edu](mailto:jallah@iit.edu) or 312.550.1224. ★

## 2005 AISC Student Steel Bridge Competitions

AISC Student Steel Bridge Competitions are an integral part of student-oriented events held every year in each of AISC's 18 regions. Regional Student Steel Bridge Competitions have been held continuously for 17 years, with 171 universities participating in 2004.

This premier competition brings together everything students have learned in the classroom. Participating students practice basic steel design and fabrication, project scheduling, and management while they gain hands-on appreciation for the strength and versatility of structural steel.

At right is a complete list of the 2005 AISC Student Steel Bridge Competitions by region, host university, and date. ★



Regional Competition Locations	Dates
University of South Carolina	April 7-10, 2005
University of Louisiana, Lafayette	April 7-9, 2005
Illinois Institute of Technology & University of Illinois, Chicago	April 21-23, 2005
Columbia University	April 23, 2005
John Hopkins University	April 23-24, 2005
Southern Illinois University, Edwardsville	March 31-April 2, 2005
California State University, Sacramento	April 9-10, 2005
Iowa State University	March 3-5, 2005
University of Maine	April 2, 2005
University of Michigan	March 31-April 2, 2005
University of Cincinnati	March 31-April 2, 2005
Montana Tech	April 7-9, 2005
California State University, Fullerton	March 31-April 2, 2005
University of Utah	April 7-9, 2005
University of Alabama	April 7-9, 2005
University of Texas, Austin	January 14-15, 2005
Clarkson University	April 8-10, 2005
Virginia Tech	April 7-9, 2005
<b>National Student Steel Bridge Competition</b>	
University of Central Florida	May 27-28, 2005

## A Portable Pavilion for “Today”

By Joseph Castner

With an eye towards re-usability, NBC News “Today” commissioned a temporary, redeployable broadcast studio in 2003. Kling architects and FCL Management, Inc. provided the solution: a 2,800 sq. ft column-free, modular lightweight steel pavilion that could be easily assembled, disassembled, crated, and shipped from site to site. The temporary studio was first used for the 2004 Olympics in Athens, Greece and will be used through 2012 for both summer and winter events.

The pavilion’s studio space accommodates three distinct sets that can be used concurrently. A “home base” set is located in the center of the studio, with an interview set and a production set on either side. Space behind the sets contains engineering and support spaces.

The floor and walls of the pavilion were fabricated in modular panels, nominally 4’ wide. The roofing material is a tensile-type fabric which can be quickly stretched over a light steel frame. Fifty percent of the perimeter wall of the studio is open to the exterior environment. During periods of inclement weather or when broadcasting is not taking place, movable glass panels can slide across the opening to enclose the studio.

Because the pavilion will be used in various countries and climates over an extended period of time, it is adaptable to each location and event. Provisions for utilities and environmental control are integrated into the structural systems,



allowing conditioned air and electricity to feed in from trailers behind the pavilion.

The 2,000 sq. ft enclosed portion of the pavilion is covered by a roof structure that sits on five pipe columns. Three columns are located across the back wall of the pavilion and two are on either side of the set area. Columns are laterally braced with tensioned cables on either side of the stage area and between two of the columns at the back of the pavilion. This allows for access into the back of the pavilion between the two unbraced columns and an unobstructed studio space at the front and center of the pavilion. A “ring beam” in the form of lightweight trusses sits on top of the columns, completing the lateral force resisting system. The ring beam trusses were fabricated from square HSS to simplify detailing.

A series of parallel and radial “Fink”-type trusses create the remaining framing for the roof. Black iron pipe, used for suspension of the studio light fixtures, is also used as bracing for the roof trusses’ bottom cords. A curved truss provides additional bridging and allows the front of the roof to cantilever over the studio. Round sections were used in the roof trusses to provide soft edges for wrapping the fabric roofing material. ★

*Joseph Castner is a principal and director of architectural services for Kling.*



### AISC Seminars: Coming to a City Near You!

In 2005, AISC will continue to offer its popular seminars *Fire, Blast, and Progressive Collapse, Field Fixes*, and *Bolting and Welding*, as well as two new seminars: *Steel Design After College* and *Seismic Braced Frames - Design Concepts and Connections*. As always, leading industry experts will serve as featured speakers for each of the seminars.

AISC will once again offer its successful “Bring a Buddy” program. Each paid registrant can bring one colleague for only \$100 more. New in 2005 is the ability to register online and save \$5 off the registration fee. Visit [www.aisc.org/seminars](http://www.aisc.org/seminars) to register or to obtain more information. ★

### NASCC 2005, Montreal—Register Today!

The North American Steel Construction Conference (NASCC), April 6–9, 2005 in Montreal, Quebec will feature the newest innovations in structural steel engineering, fabrication, detailing, and erection. More than 40 technical sessions offer a variety of educational opportunities. The NASCC exhibit hall is also the ideal place to view the tools you use everyday. This year’s exhibit hall will feature more than 120 exhibits including software (engineering, detailing, and fabrication), fabrication equipment, bolts, safety equipment, coatings, and more. Join 2,500 of your peers for the steel industry’s biggest event! Get more information and register online at [www.aisc.org/nascc](http://www.aisc.org/nascc). ★

## SSTC Offers Steel Seminars in 2005

The Steel Structures Technology Center (SSTC) will offer three seminars at locations throughout the United States in 2005: **Structural Steel Inspection**, **Steel Connections: Seismic Applications**, and **Structural Welding: Design and Specification**.

The **Structural Steel Inspection** seminar includes inspection of structural steel, steel fabrication and erection, welding, bolting, metal decks, steel bar joists and joist girders, shear connectors, and fabrication plant qualification—all as applicable under the building code. The requirements and application of AISC, AWS, RCSC, SJI, SDI, and ICC standards are discussed in detail. A certificate awarding 1.5 CEUs or 15 PDHs will be given to attendees completing the course.

The **Steel Connections: Seismic Applications 2005** seminar focuses on the details and construction of welded and bolted connections incorporating the new AISC *Seismic Provisions* for 2005, the

new AISC standard entitled *Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications*, and the draft American Welding Society standard D1.8 for seismic applications, with references to FEMA 350 *Recommended Seismic Design Criteria for New Steel Moment-Frame Buildings*, and FEMA 353 *Recommended Specifications and Quality Assurance Guidelines for Steel Moment-Frame Construction for Seismic Applications*. A certificate awarding 0.65 CEUs or 6.5 PDHs will be given to attendees completing the course.

The **Structural Welding: Design and Specification** seminar incorporates the AWS *D1.1 Structural Welding Code- Steel*, the new AISC *Specification for Structural Steel Buildings* for 2005, and recent research. Course topics include welding processes and procedures, welding economics, constructability, welding symbols, weld design, weld joint details, use of prequalification, fabrication criteria, inspection functions and quality accep-

tance criteria, nondestructive testing, retrofitting existing structures, and fatigue design. A certificate awarding 0.65 CEUs or 6.5 PDHs will be given to attendees completing the course.

All three of these seminars qualify as appropriate training for certification renewal for active legacy and ICC Certified Special Inspectors of Structural Steel and Welding.

For information about dates, locations, registration, and group discounts for the 2005 SSTC seminars, call the Steel Structures Technology Center at 248.893.0132, fax at 248.893.0134, or visit the SSTC web site at [www.steelstructures.com](http://www.steelstructures.com). ★

### Correction

In the advertisement on page 14 of the February issue of *MSC*, Ritner Steel, Inc. of Carlisle, PA was inadvertently omitted from the list of AISC Certified fabricators certified to the new Building Standard. Ritner was first certified to the Standard in 2003. ★