

# news

## MEMORIAL

### World Trade Center Beams for an Indianapolis Memorial

Two 22-ft-long steel beam sections from the World Trade Center will be the focus of a new memorial in Indianapolis scheduled for dedication on September 11, the tenth anniversary of the terrorist attacks in New York. Indianapolis firefighter and paramedic Greg Hess initiated the campaign to establish the memorial 18 months ago. As part of Indiana Task Force 1, a FEMA search and rescue team, Hess spent eight grueling days laboring alongside other rescue workers in New York following the collapse of the towers.

As the beams made their way to Indiana from storage in a hangar at John F. Kennedy International Airport in New York, they were accompanied by a motorcade estimated to include more than 11,000 motorcycle riders stretching over 50 miles. The website of one Indiana motorcycle club includes photos and video of the procession at <http://bit.ly/oH16rc>.

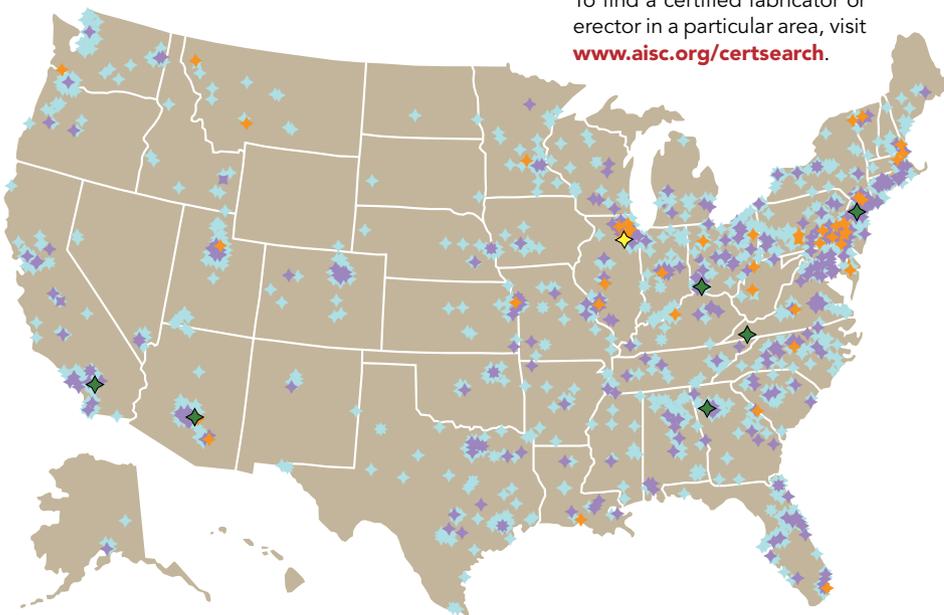
AISC member Indiana Steel Fabricating, Inc., Indianapolis, received the beams on July 18 and installed the necessary base plate assemblies. The beams will be erected as two columns at the memorial. A life-size bronze American Bald Eagle will sit atop one of them with its wings outstretched and looking toward New York. To see a rendering of the memorial, visit the project website, [www.project911indianapolis.org](http://www.project911indianapolis.org).



▲ Two beams from the World Trade Center that will be the focus of the Indianapolis 9/11 Memorial arrive in Indianapolis.

### Newly Certified Facilities: July 1–31, 2011

To find a certified fabricator or erector in a particular area, visit [www.aisc.org/certsearch](http://www.aisc.org/certsearch).



Existing Certified Fabricator Facilities

Existing Certified Erector Facilities

Existing Certified Bridge Component Facilities

Newly Certified Fabricator Facilities

Newly Certified Bridge Component Facilities

#### Newly Certified Fabricator Facilities

American Steel Corporation,  
Apache Junction, Ariz.  
Blazing Industrial Steel, Inc., Riverside, Calif.  
DSI Underground Systems, Inc., Abingdon, Va.  
ICM Georgia, Inc., Austell, Ga.  
Northbend Architectural Products, Inc.,  
Cincinnati, Ohio  
Piermount Iron Works, Inc., Wayne, N.J.

#### Newly Certified Bridge Component Facilities

Trinity Bridge & Iron, Inc., Coal City, Ill.

## People and Firms

- **Justin M. Spivey, P.E.**, has joined Wiss, Janney, Elstner Associates, Inc., as a senior associate in the firm's Princeton, N.J. office. Spivey specializes in the condition assessment, renovation, repair, and adaptive reuse of existing structures, and has worked with historic steel bridges and wrought iron roof trusses. He is a licensed professional engineer in California and Connecticut and an AISC Professional Member.

- **Mark A. Coggin, P.E., LEED AP**, has been accepted for membership into the prestigious Carpenters' Company, a guild of prominent architects, contractors and structural engineers founded in 1724. The organization is the oldest guild in the U.S. and is located in Philadelphia's historic Carpenters' Hall, which hosted the First Continental Congress in 1774 and subsequently housed the first and second national banks. Coggin is a principal with Thornton Tomasetti in the firm's Philadelphia office and an AISC Professional Member.



- **Vishay Precision Group Inc.** offers three new training videos on its website demonstrating key procedures that are the basis for using strain gages. The short videos cover surface preparation, bonding, and soldering lead wires and can be viewed at <http://bit.ly/rnt0H0>.

- AISC Professional Member **Steven M. Edwards, P.E.**, has been promoted to firm wide manager of structural services for the Industrial and Building Services Group at architecture and engineering firm Barge, Waggoner, Sumner, and Cannon, Inc. (BWSC), Nashville, Tenn. Previously manager of structural services for the firm's Nashville office, Edwards will now be responsible for structural engineering groups in all BWSC offices.



- **HGG**, headquartered in Middenmeer, Netherlands, has a new subsidiary based in Charleston, S.C. **HGG Profiling Equipment** will offer a wide variety of CNC machines and other associated machinery, as well as providing sales and service support for HGG customers throughout the Americas.

# 2011 AISC fall seminars

Ever since AISC introduced the completely new 13th Edition *Steel Construction Manual* in 2005, they promised the next edition would feature minimal changes. And by all accounts AISC succeeded with the 14th Edition *Steel Construction Manual*, which was published in July. Which then begs the question, “Why should anyone attend an eight-hour seminar on the new *Specification* and *Manual*?”

According to Nancy Gavlin, AISC’s director of education, there are three compelling reasons.

**1** Every designer, whether they are three weeks out of school or have been practicing for three decades, benefits from a greater understanding of the theory behind and practical application of the equations and information in the *Specification* and *Manual*. Similarly to the extremely popular 13th Edition lecture that was attended by more than 10,000 designers when it was introduced five years ago, this seminar provides designers with the advanced foundation needed to improve their designs. “This lecture offers a comprehensive refresher on the AISC *Specification* and *Manual*,” Gavlin explained, “including a chapter-section-by-chapter-section review of the changes in the *Specification*.” Of course, the seminar also focuses on practical applications through design examples that illustrate the application of the *Specification* to design using the 14th Edition *Manual*.

**2** AISC has brought out its top talent for this seminar. It was written by Louis F. Geschwindner, who not only wrote the 13th Edition lecture but also the wildly popular LRFDD seminar from 1999. Geschwindner’s success on those projects as well as his work

## CONTINUING EDUCATION

### Three Reasons You Need to Attend the New AISC 14th Edition *Manual* Seminar

as a leading steel professor at Penn State and tenure as an AISC vice president led AISC to honor him by renaming its main lecture series after him. “Lou is consistently graded as outstanding by seminar attendees, both for his presentation style and for his development of a fantastic seminar,” Gavlin stated. “He’s renowned for his ability to concisely capture the essentials of a subject.” In addition to academic qualifications, Geschwindner is a member of the AISC Specification Committee, chair of its technical committee on member design, and a previous recipient of the AISC T.R. Higgins Lectureship Award. Geschwindner serves as the main speaker in many venues. Other outstanding lecturers are involved, including W. Samuel Easterling from Virginia Tech, James M. Fisher from Computerized Structural Design (and former chair of the Specification Committee), Clint O. Rex from Stanley D. Lindsey and Associates, and Jules Van de Pas and Michael A. West, both with Computerized Structural Design.

**3** While AISC and its Committees on Specifications and Manuals worked extensively to minimize changes, there are still important updates and additions that make the 2010 AISC *Specification* and 14th Edition AISC *Manual* more complete, easier to use, and more readily understood. These include:

- Higher bolt shear strengths and slip resistance values.
- Improvements to the weld provisions with clarification of the PJP weld strength limit states in Section J2.4, clarification of the requirements of weld groups designed by using the instantaneous center of rotation

method, and improvements to the eccentric weld tables.

- New provisions in the *Specification* and discussion in the *Manual* on structural integrity requirements.
- Improvements in *Specification* Appendix 6, which covers stability bracing for columns and beams.
- Improved *Specification* provisions and more useful information in the *Manual* for the design of composite beams, columns and beam-columns.
- Refinements and simplifications to the landmark provisions introduced in 2005 for design for stability.
- Tabular revisions to streamline and simplify the provisions in the *Specification* for the design of HSS connections.
- A new *Specification* Chapter N on Quality Control and Quality Assurance that is now the basis for quality requirements in the 2012 *International Building Code*.

The registration fee for AISC members is \$350 (\$550 for non-members) and AISC members can bring a “buddy” for just \$200 more. In addition, attendees at the seminar can purchase the new 14th Edition *Manual* for just \$100—a savings of \$75 from the member price of \$175.

Seminars are currently scheduled for Jacksonville, Fla., Hartford, Conn., Baltimore, Dallas, Chicago, Portland, Ore., Albany, Pittsburgh, Minneapolis, Houston, Atlanta, Milwaukee, St. Louis, and Little Rock, Ark.

For more information or to register for the seminar, please visit [www.aisc.org/seminars](http://www.aisc.org/seminars).

## PUBLICATIONS

### 2011 NASCC Proceedings Now Available

While there’s no substitution for attending NASCC: The Steel Conference in person, AISC offers the next best thing. The proceedings document much of the material presented at the conference, including a synchronization of the speakers’ voices along with their PowerPoint presentations. The 2011 proceedings from The Steel Conference are now posted at [www.aisc.org/2011nascconline](http://www.aisc.org/2011nascconline).

Previous conference seminars also are available online by visiting [www.aisc.org/freepubs](http://www.aisc.org/freepubs) and clicking on “online conference proceedings.”

Technical sessions from the 2011 Structural Stability Research Council’s Annual Stability Conference (held in conjunction with The Steel Conference for the 10th consecutive year) are also now avail-

able on a flash drive. Visit SSRC’s website at [www.stabilitycouncil.org/html/pub2011.html](http://www.stabilitycouncil.org/html/pub2011.html) for more information.

Note that next year The Steel Conference is co-locating with the World Steel Bridge Symposium in Dallas, April 18-21. Find out more about the 2012 NASCC: The Steel Conference at [www.aisc.org/nascc](http://www.aisc.org/nascc).

# news

## CONTEST

### Entries Sought for the 2012 NSBA Prize Bridge Competition

Entries are now being accepted for the 2012 National Steel Bridge Alliance Prize Bridge Competition. The program, which began in 1928, honors significant and innovative steel bridges constructed in the U.S. in a variety of categories based on structure type and span.

To be eligible a bridge must be built of fabricated structural steel and located within the United States (defined as the

50 states, the District of Columbia, and all U.S. territories). It must also have been completed and opened to traffic between May 1, 2009 and September 30, 2011.

There is no fee to enter, and entries may be judged in more than one category, but an entry can only receive one award. An independent panel will judge entries based on innovation, aesthetics, design and engineering solutions.

The 2012 Prize Bridge Award winners will be announced at the 2012 World Steel Bridge Symposium, scheduled for April 18-21 in Dallas and co-located with NASCC: The Steel Conference.

To submit a bridge project for consideration, please download the 2012 Prize Bridge Award entry form at [www.steelbridges.org/PrizeBridgeAwards](http://www.steelbridges.org/PrizeBridgeAwards). The deadline for entries is November 30, 2011.

## ADVOCACY

### Supporting Domestic Steel and Domestic Jobs

The National Steel Bridge Alliance (NSBA) in July issued detailed statements outlining its objections to the *New York Times* article, "Bridge Comes to San Francisco With A Made-In-China Label," and related projects that plan to use federally provided funding to purchase foreign steel and off-shore fabrication. Read NSBA's response to the article, in the July edition of NSBA's online newsletter at <http://bit.ly/9D5CCh>.

NSBA also recently issued a press release challenging the use of federal funds for foreign materials on the Alaska Railroad Corporation's \$190 million Tanana River crossing project, which you can access at <http://bit.ly/qJpBgk>.

NSBA and AISC encourage the steel community to take action on this issue and contact their local representatives at [www.aisc.org/action](http://www.aisc.org/action).

## RESOURCES

### Iowa DOT Adds Rolled Steel Beam Standards

The Iowa DOT has added a series of RS40-10 rolled steel beam bridge standards to its acceptable bridge design configurations. These off-the-shelf standards make it easier for bridge engineers to specify steel beams and are expected to drive better costs from fabricators as designs are built from standard templates, as well as reducing overall maintenance through the use of integral abutments, weathering steel girders and low-maintenance bearings.

Developed by Stanley Consultants in cooperation with the Iowa DOT, the new RS40-10 rolled steel beam bridge standards replace the previous short-span design standards. The new standards cover multiple spans for bridges up to 340 ft long and include base sheets and bridge standards designed for LRFD specifications. The standards cover pile bent piers, tee piers, skew bridges (0°, 10°, 20°, 30° and 45°), 160-ft to 340-ft bridge lengths and symmetrical/asymmetrical 40-ft-wide bridge decks.

Although engineers still have to deal with geometry and coordination, the templates provide as much as 90% of the design and should reduce design and construction time. For example, to call out a

specific bridge, the bridge engineer puts together a cover sheet that references the appropriate bridge standard sheet numbers. Follow-up sheets might include upgrades to substructures and foundations. The contractor pulls these same sheets from the website to determine quantities.

The DOT believes these standards should allow contractors and fabricators to develop consistent techniques and practices that will produce economies of scale and drive greater competition. Furthermore, the standardization of bridge design components should give all parties confidence in the performance and durability of bridges constructed throughout Iowa.

The rolled steel beam bridge standards can be found at [www.iowadot.gov/bridge/v8ebrgstd.htm](http://www.iowadot.gov/bridge/v8ebrgstd.htm) (scroll to the bottom of the page). These standards join other Iowa DOT bridge designs, all of which use standards defined by the DOT and are approved by the state's chief bridge engineer. They also are available to county engineers.

Additional information is available from the Short Span Steel Bridge Alliance at [www.shortspansteelbridges.org](http://www.shortspansteelbridges.org).

## CONTEST

### Reminder: SteelDay Student Photo Contest

In conjunction with this year's SteelDay, AISC is again sponsoring a Student Photo Contest as one way to involve students in the industry's largest educational and networking event. The contest encourages students to capture photos that best pictorially celebrate the visual experience of steel and is open to students enrolled in a graduate or undergraduate program at an accredited U.S. college or university.

There is no fee to enter, but the deadline for entries is Saturday, September 17, 2011. For more information and to download the full rules and application form, visit the AISC website at [www.aisc.org/photocontest](http://www.aisc.org/photocontest), where you can also view last year's winning photos.

## AWARDS

### Winners Announced in Steel Design Contest

Igor Bialorucki, a student at Warsaw University of Technology/University of Detroit Mercy, and Yekaterina Artemchuk of McGill University have been awarded first place in the 2010-2011 Steel Design Student Competition. Administered by the Association of Collegiate Schools of Architecture (ACSA) and sponsored by the American Institute of Steel Construction (AISC), the program challenges students to explore a variety of design issues related to the use of steel as the primary structural material in design and construction.

To view the award-winning designs on the ACSA website go to <http://bit.ly/r5ypqQ>. For more information on the ACSA/AISC Steel Design Student Competition, go to <http://bit.ly/i8lwfk>.