

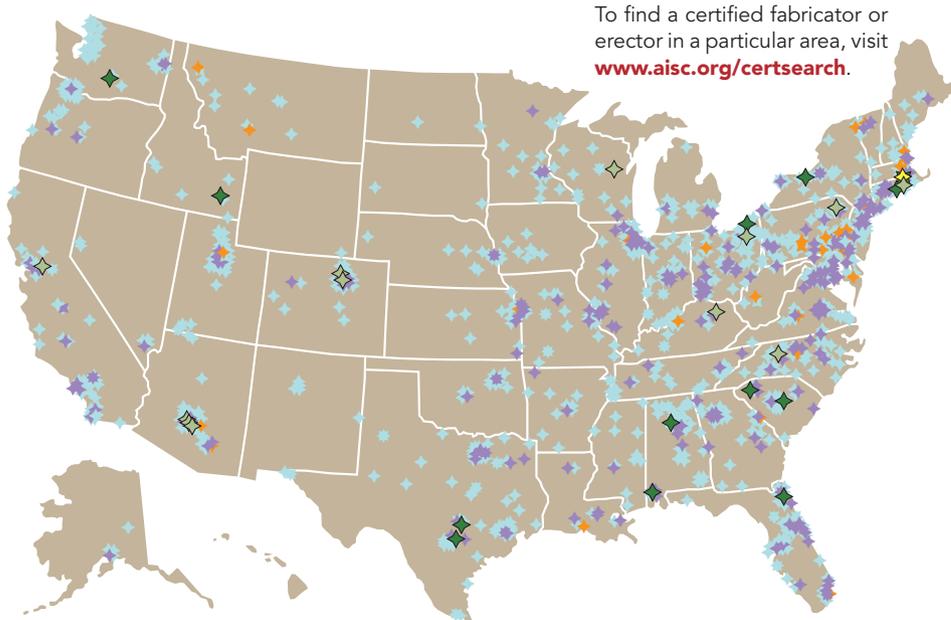
MARKETING

Web Popularity – Do You Agree?

The Construction Marketing Association has launched a comprehensive rating of the Internet presence of top construction brands based on more than 50 variables. This Construction Brand Internet Index (CBII) identifies how effective a specific website domain is relative to other websites. Ratings are based on key search engine data, website meta structure, traffic, social media integration (use of blogs, Facebook, Twitter, YouTube, etc.), inbound links, indexed pages and more. Initial index ratings can be viewed at <http://constructionmarketingblog.org>.

“Overall, the top construction brands rate high due to high volume website traffic and large quantities of links, however a number of missed opportunities were identified with highly rated websites,” reports CMA chairman Neil Brown. “As we evaluate the top construction brands, it is apparent that we (construction) lag other sectors in Internet best practices.” He says the association can help in addressing these opportunities with programs and training.

Newly Certified Facilities: May 1–31, 2010



To find a certified fabricator or erector in a particular area, visit www.aisc.org/certsearch.

- Existing Certified Fabricator Facilities
- Existing Certified Erector Facilities
- Existing Certified Bridge Component Facilities

- Newly Certified Fabricator Facilities
- Newly Certified Erector Facilities
- Newly Certified Bridge Component Facilities

Newly Certified Fabricator Facilities

- Bellingham Metal Works, LLC, Bellingham, Mass.
- Campbell Steel Company, Inc., Cayce, S.C.
- Daniel Metals, Inc., Birmingham, Ala.
- FitzLord, Inc. dba Vulcan Steel, Jacksonville, Fla.
- G.A West & Co., Inc., Chunchula, Ala.
- Miscellaneous Steel Industries, Inc., Kyle, Texas
- Mohawk Northeast, Inc., Groton, Conn.
- Rast Iron Works, Schertz, Texas
- Rochester Structural, Rochester, N.Y.
- Sierra Metals USA, Inc., Mentor, Ohio
- SME Steel, Inc., Pocatello, Idaho
- Tate Steel, Inc., Piedmont, S.C.
- Yakima Steel, Yakima, Wash.

Newly Certified Erector Facilities

- Advanced Metal Sales, Phoenix, Ariz.
- B & C Steel, Inc., Denver, Colo.
- Best Steel, LLC., Longmont, Colo.
- Forest City Erectors, Inc., Twinsburg, Ohio
- H B Welding, Inc., Pawtucket, R.I.
- Kesler Erection & Welding, Inc., Lexington, N.C.
- Mid-Valley Contracting Services, Inc., Moscow, Penn.
- MW Erectors, Inc., Peoria, Ariz.
- Nexus Steel LLC & Inc., Tempe, Ariz.
- O'Brien Steel Erectors, Inc., Stockton, Calif.
- Red Cedar Steel Erectors, Inc., Menomonie, Wis.
- The Walker Company, Mt. Sterling, Ky.

Newly Certified Bridge Component Facilities

- Bellingham Metal Works, LLC, Bellingham, Mass.

People and Firms

- **David C. Jeanes, P.E.**, has retired as president of the Steel Market Development Institute (SMDI), a business unit of the American Iron and Steel Institute (AISI), after 34 years of distinguished service with the organization. Jeanes began his career working for a land developer and a steel erection firm. After serving in the U.S. Army, he joined AISI in 1976 as a codes and standards engineer and subsequently held a number of positions in the organization. Among other accomplishments, Jeanes was involved in the development of durable, cost-effective high-performance steel for bridges, which is now in use in more than 300 bridges in 44 states.

- **David Ruby, P.E., S.E.**, has been named the 2010 Structural Engineer of the Year by the Structural Engineers Association of Michigan. Ruby is founder of Farmington Hills, Mich.-based Ruby + Associates and a nationally recognized pioneer in constructability. Early in his career, Ruby was the structural project manager for Chicago's John Hancock Building and the Sears Tower. He is the author of AISC's *Steel Design Guide 23: Constructability of Structural Steel Buildings*, published in 2009.



- **Raymond S. Milman, P.E.**, senior structural staff engineer with Cleveland-based Middough, was selected as the 2010 recipient of the Association for Iron & Steel Technology (AIST) Distinguished Member and Fellow Award. Established in 1975, the award recognizes AIST members who have attained eminent distinction in advancing the technical development, production, processing and application of iron and steel and/or related activities of the industry and have performed meritorious service to the association. Milman was recognized for his expert methodology in structural analysis and for sharing this knowledge through AIST presentations, committee activities and published technical papers. His work has resulted in major economic savings and expanded steel industry knowledge relative to mill building design and construction.

PUBLICATIONS

New Companion Materials for Steel Construction Manual Now Online

The Design Examples and Shapes Database material contained on the CD Companion V13.0 included with the 13th edition AISC *Steel Construction Manual* have been updated and are now available on the AISC website. Additionally, the references from the *Manual* also are now available at www.aisc.org/epubs.

The new version of the Design Examples can be found at www.aisc.org/designexamples. The package includes 151 examples illustrating the application of both the 2005 AISC *Specification for Structural Steel Buildings* and the tables included in the 13th edition AISC *Steel Construction Manual*. The download is free for AISC

members and \$70 for non-members.

The up-to-date AISC Shapes Database V13.2 is at www.aisc.org/shapesdatabase. It includes most of the dimensions and properties of the shapes listed in Part 1 of the *Manual*. Free for AISC members; non-member cost is \$20.

PUBLICATIONS

New Steel Design Guide for Hollow Structural Section Connections

Steel Design Guide 24, Hollow Structural Section Connections, is now available as a free download by AISC members at www.aisc.org/dg or can be purchased by others. This new guide addresses bolting and welding issues for connections involving hollow structural sections (HSS), as well as providing design provisions for various configurations of HSS connections and the applicable limit states. Some of the topics included are:

- Moment connections, including W-shape beams to HSS columns, continuous beams over HSS columns, through-plate connections, and directly welded connections.
- Tension and compression connections, including end tee connections, slotted HSS/gusset connections, end plates on round HSS, and end plates on rectangular HSS.
- Branch loads, line loads and

concentrated forces on HSS.

- HSS-to-HSS truss and moment connections.

The design guide references the 2005 *Specification* and the 13th edition *Manual*. The design provisions of the 2005 *Specification* are presented in a convenient tabular form for easy reference and the examples give both load and resistance factor design (LRFD) and allowable strength design (ASD) solutions.

COMPETITION

Joist Design Awards Program Launched

The Steel Joist Institute is now accepting entries for its 2010 Design Awards. The winning entries will be announced in November 2010, and the company with the winning project in each category will be awarded a \$2,000 scholarship in its name to a school of its choice for an engineering student.

Awards will be presented in three categories:

- Industrial (i.e., distribution centers, warehouses and light manufacturing)
- Non-industrial (i.e., office buildings, schools, and churches)
- Unique applications (i.e., projects with a unique application of steel joists)

To enter a project, visit www.steeljoist.org/awards

by August 2, 2010, for an online entry form and a complete listing of rules.

Eligible projects must be located in the U.S., Canada or Mexico, and the steel joists and/or joist girders must be manufactured by an active member of the Steel Joist Institute. A list of members can be found here: www.steeljoist.org/members. Also, projects must have been constructed within the last three years. Eligible projects include new buildings and major retrofit or expansion projects. Companies can submit more than one entry, and each will be judged separately. Projects will be evaluated based on flexibility, speed of construction, value and aesthetic considerations.

COMPETITION

Student Photo Contest Now Open

In conjunction with SteelDay 2010, AISC is again sponsoring a Student Photo Contest. The contest is designed to capture the essence of SteelDay and is open to any student currently enrolled in a graduate or undergraduate program at an accredited domestic college or university.

Each entry should include a set of three photographs that together pictorially demonstrate the combination of structural steel

and the theme "Interact. Learn. Build." A brief explanation, completed application form and signed release form also are required. There is no entry fee.

Deadline for entries is Saturday, September 18, 2010. The winner will be announced on SteelDay 2010 (September 24). The winning photos will be published in *Modern Steel Construction*. For information and to enter, go to <http://bit.ly/9pjYaU>.

COMMUNITY INVOLVEMENT

Foundation Funds New Central American Bridges

The Thornton Tomasetti Foundation has awarded two \$5,000 grants to Engineers Without Borders (EWB-USA) for their critical work on the design and construction of bridge projects in Central America. Central Michigan University's student chapter of EWB and the Wisconsin Professional Partners chapter, in collaboration with Marquette University's student chapter, were selected as grant recipients for the construction of bridges in Gualindo Arriba, El Salvador and Joyabaj, Guatemala.

"We are so proud to support Engineers Without Borders' extraordinary efforts in Central America," said Richard Tomasetti, chairman of the foundation. "The construction of the bridges is critical to the regions' infrastructure and will greatly revitalize these communities and boost economic and social opportunities."

The Thornton Tomasetti Foundation

recently partnered with EWB-USA's Project Sponsor program and committed to contributing \$25,000 to the organization in 2010 through the EWB Thornton Tomasetti Foundation Grant. The Foundation distributed \$10,000 for this spring's grant cycle and will distribute the remaining \$15,000 in this fall's grant cycle. The grants are endowed to meet the mission of the Thornton Tomasetti Foundation and to provide financial support for those pursuing philanthropic activities related to engineering, design or technology for buildings and bridges. EWB-USA student and professional chapters working on projects that meet the criteria can apply for the grants.

The economic, educational and social development of more than 20,000 people has been impeded by the lack of safe and efficient means of crossing the polluted Rio Chiquito in Guatemala.

The Wisconsin Professional Partners' chapter of EWB-USA joined forces with students from Marquette University in Milwaukee to conduct a site survey in preparation for a new bridge location. The EWB team met with community leaders and received a firm commitment to move forward with the project, which will provide a new steel girder bridge as an alternative to relying on the existing narrow, old bridge. Labor, financial and material resources were offered by the community to begin construction of the bridge. The estimated completion date for the project is January 2011.

The other current project is located in the mountains of eastern El Salvador, where the Central Michigan University students expect to complete that bridge in March 2011.



Steve Graziano

Community leaders of 17 of the outlying communities along with the mayor of Joyabaj gathered to discuss needs and involvement/commitment to project.



Adrianna Stanley

This existing bridge was built more than 60 years ago designed as an 8-ft-wide pedestrian walkway. The new bridge will unite the outlying communities with the city of Joyabaj and provide safer access to medical care facilities, post elementary schools, and markets.

COMPETITION

Entries Sought for BIM Awards Program

The annual North America Tekla Structures BIM Awards (formerly Tekla Model Competition) program is now accepting entries. Award categories include:

- Category 1 – Industrial/Civil Model – Steel and/or Concrete
- Category 2 – Commercial/Institutional Model – Steel
- Category 3 – Commercial/Institutional Model – Concrete
- Category 4 – Collaborative Project

Each participant will receive a special gift and winning projects for each category will receive a Tekla Structures Viewer and two tickets to the 2011 Tekla User Meeting. All North American winners are automatically entered into the Tekla Global BIM Awards.

All Tekla Structures users are encouraged to participate. There is no fee to enter, but projects must be submitted on or before July 23, 2010.

For more information from the Tekla website, go to www.tekla.com/us/Documents/UM10/model.html.

CORRECTION

The detailer for the IDEAS² award-winning L.A. Live project was incorrectly identified in the May 2010 issue of *MSC* (page 49). The steel detailing should have been attributed to Steel Systems Engineering, Inc., Sherman Oaks, Calif.

A Question About Design Guide 1

Q. I noticed that *Design Guide 1* was taken offline for awhile and now it's back. Is there a list of what changes were made to the document compared to the second edition from 2006?

A. Thanks for the question. Actually, the new printing is a full revision. There were many changes made on nearly every section of the document, so please just review the entire document for changes to clearly understand it, prior to using it.

AISC's *Steel Design Guide 1*, Second Edition (corrected second

printing), is now available online at www.aisc.org/dg. As with all the design guides, it is a free download for AISC members. Non-members can download the document for \$60. This design guide, titled *Base Plate and Anchor Rod Design*, provides a useful discussion on options for dealing with short, bent and misplaced anchor rods.

What methods do you use for short, bent and misplaced anchor rods? Have you faced unique field challenges in this arena that have required some "out of the box" approaches? Share your insights and experience with others at www.steeltools.org.

CODES AND STANDARDS

Updated Seismic Standard for Cold-Formed Steel

The American Iron and Steel Institute (AISI) has published an update to its S110-07-S1-09, *Standard for Seismic Design of Cold-Formed Steel Structural Systems—Special Bolted Moment Frames With Supplement No. 1*. The standard addresses the design and construction of cold-formed steel seismic force-resisting systems (SFRS) in buildings and other structures, with focus on the special bolted

moment frame (CFS-SBMF) system.

Cold-formed steel special bolted moment frames have been widely used in industrial platforms, and the system is potentially suitable for a broad range of construction applications. Revisions and additions were made in *Supplement No. 1* to ensure that the application of the design provisions remains within the configurations used in the initial research

of special bolted moment frames. The commentary on the standard is also included, which provides important background information. This standard should be used in conjunction with AISI S100-07, *The North American Specification for the Design of Cold-Formed Steel Structural Members*. All of these publications are available for purchase online at AISI's Publications Bookstore at www.steel.org.