news

MAY 2011

This Month in MSC

➤ Each year the IDEAS® awards program highlights innovative design in engineering and architecture using structural steel. Read about this year’s 14 outstanding projects beginning on page 22.
➤ “Green” isn’t just about materials any more. Today it’s a design and construction philosophy. Learn about how one project is raising the bar for sustainable construction (p. 54) and how you too can make your designs green (p. 52).
➤ How does a robotic solution compare with CNC equipment? (Do you still prefer to work in DOS?) One proponent of advancing the state of the art explains the flexibility advantage that robots offer, beginning on page 58.
➤ When does a structure need one or more expansion joints? And what’s the best place to put them? These and other related considerations are the subject of this month’s SteelWise, beginning on page 60.
➤ COMING NEXT MONTH: An industry expert in field bolting discusses proper installation of galvanized bolts and nuts, and how to troubleshoot the most common field problems associated with their use.

Newly Certified Facilities: March 1–31, 2011

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

Newly Certified Fabricator Facilities
Bell Bros. Steel Inc., Riverside, Calif.
CB&I Inc. (Island Park Fabrication Facility), Beaumont, Texas
Duluth Steel Fabricators, Inc., Duluth, Minn.
Grumau Metals, Oak Creek, Wis.
Peter J Rozell Mechanical, Ltd., Queensbury, N.Y.
Standard Iron & Wire Works, Inc., Monticello, Minn.

Newly Certified Erector Facilities
Amfab Steel Erection Division, LLC, North Salt Lake, Utah
Bear Steel Erectors, Inc., Oakdale, Conn.
Highland Steel, LLC, Phillipsburg, N.J.
MR Metals, Inc., Frederick, Md.

Newly Certified Bridge Component Facilities
Standard Iron & Wire Works, Inc., Monticello, Minn.

People and Firms

➤ **AISC member Hirschfeld Industries** has partnered with **Martifer Energy Systems**, based in Portugal, to manufacture wind towers at a new plant under construction in San Angelo, Texas. When completed in 2013, the plant will be able to produce 400 towers per year and will service the North American continent. The wind energy market has grown dramatically, and the joint venture has secured multiple orders for towers.

➤ **Applied Bolting Technology**, manufacturer of Squirter DTIs and an AISC member firm, offers a set of eight short videos on its website (www.appliedbolting.com) that explain various aspects of direct tension indicator (DTI) washers. Two videos describe how the technology works, with one specifically for engineers and another for inspectors. Several others focus on questions frequently fielded by the company, including common reasons for not being able to “squash the bumps.”

➤ **Buro Happold North America** has received Diamond Awards for Excellence in two categories from the American Council of Engineering Companies New York. The firm’s design for the Curtis R. Priem Experimental Media and Performing Arts Center at Rensselaer Polytechnic Institute in Troy, N.Y., was honored in the Structural Systems category. In the Special Projects category ACECNY recognized the firm for its design of the Expanding Video Screen for U2’s 360° Tour of 2009. Buro Happold NA also received two additional awards in the Building/Technology Systems and Research and Consulting categories.

➤ **EYP Architecture and Engineering** has established expanded headquarters and operations at the College of Nanoscale Science and Engineering of the University at Albany, N.Y., in its new “green” high-tech buildings. The company’s new address is NanoFab East, 257 Fuller Road – 1st Floor, Albany, NY 12203. The telephone number is 518.795.3800.
ACSA and AISC Celebrate 10-Year Collaboration

At its 99th annual meeting, held March 3-6 in Montreal, the Association of Collegiate Schools of Architecture presented AISC with a plaque in recognition of AISC’s 10 years of continued sponsorship support of the Steel Design Student Competition. Nancy Gavlin, AISC director of education, and AISC president Roger Ferch accepted the plaque from ACSA president Daniel S. Friedman, Ph.D., AIA. For more information, visit http://bit.ly/i8lwfk.

Obituary

Larry Don Pope, 67, Past President of NISD

Larry Don Pope died Sunday, January 16, 2011, in Lewisville, Texas. He was 67. Pope was a longtime resident of Arlington, Texas. A graduate of Mineral Wells High School and the University of Texas at Arlington, he was a professional architect and steel designer for 40 years. Pope was named the National Institute of Steel Detailers’ man of the year in 1985, and served as NISD president from 1995 to 1999. Memorials can be made to Hope Lodge of American Cancer Society, Lubbock, Texas.
CMC Steel Products, in cooperation with the American Institute of Steel Construction and Bentley Systems, Inc., presents its 2011 Structural Engineering Seminar Series, “Working Smarter in Today’s Marketplace,” in 16 cities nationwide. This half-day seminar consists of industry experts presenting the following topics:

➤ A rapid-fire look at what the new challenges and opportunities will be for structural engineers as the construction economy recovers. Topics will include economic conditions, material costs and availability, changing expectations in the marketplace, 3D modeling, sustainability, collaboration, specifications, codes, standards, delivery systems, modularization, off-site fabrication, innovative systems and robotics—and where structural steel fits into this changing environment.

➤ Smartbeam System—a review of the castellated and cellular beam product that has revolutionized the structural steel industry. Topics will include the design of the Smartbeam, introduction of new design software, case studies, and applications in floor and roof construction.

➤ Bentley Systems will present the aspects of the latest RAM Structural System version 14.03.02 showcasing steel building design in a completely integrated environment including foundations, connections, CAD drawings, and BIM based on current codes and standards.

Each attendee will receive informative AISC handouts and new CMC Smartbeam structural design software. CMC and Bentley will provide a certificate for 4.0 PDHs for each engineer who attends. Breakfast is provided. There is no cost for the seminar, but registration is required. To register, go to www.cmcsteelproducts.com. Seating is limited and attendance is on a first-come, first-served basis.

STANDARDS
Nuclear Spec Available for Public Review

A draft of the 2011 AISC Specification for Safety-Related Steel Structures for Nuclear Facilities (AISC N690) is now available for public review on the AISC website. This document is written as a supplement to the 2010 AISC Specification for Structural Steel Buildings; therefore, the primary revisions are related to revisions in that standard.

The document and public review form are available on the AISC website at www.aisc.org. Please submit your comments electronically to duncan@aisc.org using the review comment form, or mail to Cynthia Duncan, AISC, 1 East Wacker Drive, Suite 700, Chicago, IL 60601-1802 by May 30, 2011. A hard copy is also available for a nominal fee of $15 by calling 312.670.5411 or by emailing cummins@aisc.org.