news

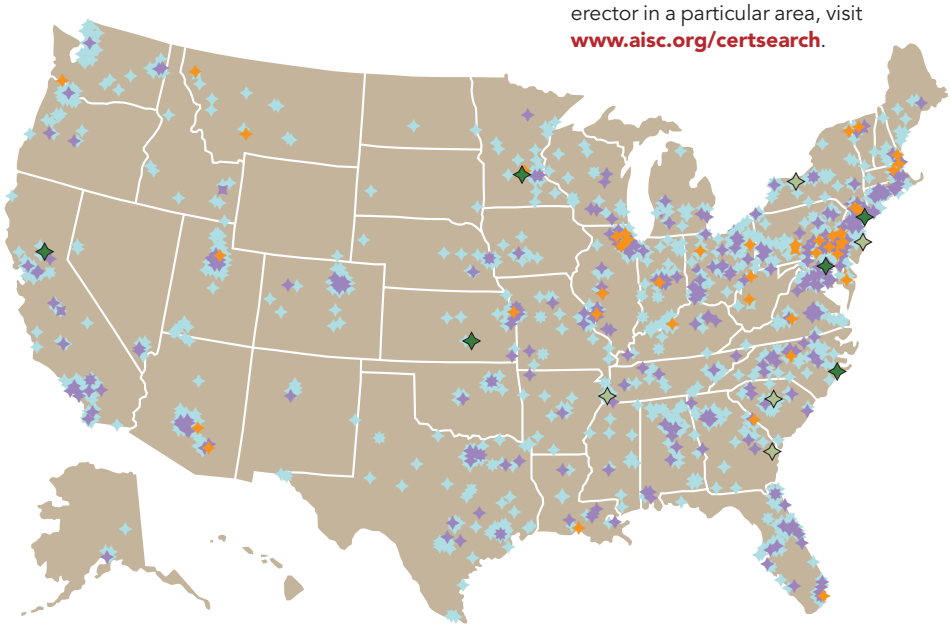
AUGUST 2011

This Month in *MSC*

- What's cool in steel? A new steel observation tower in Europe's "Green Belt," formerly part of the Iron Curtain, provides a visual contrast that looks surprising at home. And a complex steel framework played a starring role in the rock group U2's recent world tour. Coverage of these two projects begins on page 28.
- After the 1995 Oklahoma City bombing FEMA launched an investigation of building performance and resilience. In a subsequent report, steel framing was found to have significant inherent blast resistance. Read more in this summary by AISC chief structural engineer Charles J. Carter, S.E., P.E., Ph.D., beginning on page 34.
- Exhibitors at this year's NASCC: The Steel Conference in Pittsburgh displayed a wide variety of new products for the fabricated structural steel industry. A number of standouts from the conference exhibition are featured starting on page 48.
- COMING NEXT MONTH: Using a single set of falsework towers, Loveland, Colo.-based LPR Construction erected and launched five huge trusses in rapid succession for the retractable roof of the new Marlins Ballpark in Miami.

Newly Certified Facilities: June 1–30, 2011

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 Fabricator Facilities

Dynasty Stainless Steel & Metal Industries Inc., Maspeth, N.Y.
Warrior MFG LLC, Hutchinson, Minn.
Metal Arts LLC, Wichita, Kan.
WSI, Inc./Washington Stair & Iron, Glen Burnie, Md.
LB Construction, Inc.– LB Steel, Roseville, Calif.
Southeastern Steel Construction, Inc., Jacksonville, N.C.

Newly Certified Erector Facilities

South Carolina Steel Erectors, Inc., Columbia, S.C.
Rochester Structural, LLC, Rochester, N.Y.
Steel Erectors, Inc., Pooler, Ga.
Tri-State Ironworks, Inc., Memphis, Tenn.
Spencer Steel Erectors, Inc., Neptune City, N.J.

People and Firms

- **Gerhard Joehnk**, P.E., died on April 24, 2011. A 1953 graduate of the Technical University of Denmark, Joehnk came to the U.S. in 1957 to work in the St. Louis office of Sverdrup and Parcel. In 1988 he moved to the firm's Seattle office where he worked until his retirement in 1995. Among Joehnk's notable projects are the I-205 Columbia River Bridge at Portland, Ore., for which he was the lead designer; the substructure for the 16-mile Chesapeake Bay Crossing; and the Angostura Suspension Bridge over the Orinoco River in Venezuela. He also was a leading authority on cable-stayed bridges.
- **Edward S. Youdell** has been chosen to succeed **Gerald Shankel**, who is retiring October 1, as president and CEO of the Fabricators & Manufacturers Association International. Youdell is currently the group publisher of FMA Communications, FMA's publishing arm.
- **Acrow Corporation**, the Parisippany, N.J.-based bridge engineering and supply company, has merged with AISC member **Milton Steel Inc.**, Milton, Pa., formalizing the close working relationship the firms have maintained since 1995. The newly formed **Milton Steel Company** has become a wholly owned subsidiary of the Acrow Companies.
- **Peddinghaus Corporation** has launched a series of videos under the banner "Peddi-TV" on its YouTube channel. The premier edition features a brief introduction to Peddi-TV along with five segments related to the recent NASCC: The Steel Conference in Pittsburgh. See the video at **http://bit.ly/rtsnrO**.
- **FabSuite** and **Chicago Metal Rolled Products** are among the industry firms that have recently begun posting blog entries on the Web. The FabSuite posts are at **http://blog.fabsuite.com**. CMRP's blog entries are posted on the company's main site, **www.cmrp.com**.
- **Vela Systems** recently hosted a webinar on the use of iPads as a valuable business tool in construction featuring representatives of construction management firm Shiel Sexton and owner Dow AgroSciences. Watch the free on-demand webinar at **http://bit.ly/qRlztn**.

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FACILITIES

Nucor Breaks Ground for New Mill

Nucor Corporation has broken ground on a new direct reduced iron (DRI) making facility in St. James Parish, La., between Baton Rouge and New Orleans. The company received its air permit from the Louisiana Department of Environmental Quality in January, enabling it to move forward with construction.

The company initially will build one DRI plant, expected to create 150 permanent jobs, but it has been permitted for the construction and operation of two plants with a combined annual DRI production of 5.5 million tons.

Direct reduction technology converts natural gas and iron ore pellets into high-quality direct reduced iron used along with recycled scrap to produce numerous high-quality steel products such as sheet, plate and special bar quality steel. The DRI facility is the first phase of a multi-phase plan that may include a coke plant, blast furnace, pellet plant and steel mill.

To read the Nucor press release about the new DRI facility, go to **http://bit.ly/gYL2lv**.

PUBLICATION

New Steel Design Guide for Web-Tapered Members

Steel Design Guide No. 25, *Frame Design Using Web-Tapered Members*, is now available as a free download for AISC members and for purchase by others at **www.aisc.org/dg**. This latest addition to the AISC design guide series provides guidance on the application of the provisions of the AISC *Specification for Structural Steel Buildings* to the design of web-tapered steel members and steel frames composed of web-tapered members. It includes a discussion of fabrication as well as a detailed description of stability design requirements for web-tapered members.

Although *Design Guide 25* is based on the 2005 AISC *Specification for Structural Steel Buildings*, the recommendations in this document apply equally to the 2010 AISC *Specification*, even though some section and equation numbers have changed.

CALL FOR PAPERS

Engineering Journal Call For Papers

AISC is always looking for *Engineering Journal* articles on interesting topics pertinent to steel design, research, and fabrication methods. We are especially seeking technical articles with practical applications in the steel industry. If you have a new idea or an improvement on an old idea, please submit a paper to AISC for publication in *EJ*. Contact Keith Grubb by sending an email to **grubb@aisc.org** for more information.

To download author guidelines or view the latest edition of *EJ* online, go to **www.aisc.org/ej**.

BOOK REVIEW

New A Scientific Approach to Taking the Luck out of Safety

Safe By Accident: Take the Luck out of Safety—Leadership Practices that Build a Sustainable Safety Culture, by Judy Agnew and Aubrey Daniels. Published November 1, 2010, by Performance Management Publications (hard cover, $21.95) and available at **www.safebyaccident.com**.

A new book entitled *Safe By Accident*, by Judy Agnew and Aubrey Daniels, offers a scientific approach to improving workplace safety based on the science of human behavior. Agnew is senior vice president at Aubrey Daniels International (ADI) and holds a Ph.D. in applied behavior analysis. Daniels is the founder and chairman of ADI and an internationally recognized authority on management, leadership and workplace issues.

Safe By Accident was written for the leadership of companies who are interested in taking their organizations to the next level in safety. It is very informative on the science behind behavioral-based safety programs. Managers and leaders of organizations who currently do not have or are just starting to look at a behavioral-based safety process would find this book very helpful.

Although it calls into question the effectiveness of many "time-honored" safety programs—calling them a waste of time and money and potentially creating a less safe work environment—it does offer suggestions on what to do instead. It is likely that most who read this book will find it hard to reject all the items that the authors feel are ineffective. With that being said, however, it does leave the reader with a more in-depth thought process around the "why" employees work at-risk and what a proactive organization can do to change a culture where that is accepted. At the very least readers of this publication will come away with two or three new ideas or thought processes that will help them to achieve a culture of safety.

—Reviewed by Kris Chipman, environmental, health, & safety professional at Cianbro Fabrication & Coating Corporation, on behalf of the AISC Safety Committee.

*This review is one of a series of book, training and product reviews available at **www.aisc.org/safety**. Please visit the AISC safety page and take advantage of resources there. If you have safety ideas, products that deserve a review, or improvements to our model safety program elements, please send them to **schlafly@aisc.org**.*

CONTEST

Student Photo Contest for SteelDay

In conjunction with SteelDay 2011, AISC is again sponsoring a Student Photo Contest as one way for students to get involved in the industry's largest educational and networking event. The contest is designed for students to capture photos that best pictorially celebrate the visual experience of steel and is open to any student currently enrolled in a graduate or undergraduate program at an accredited domestic college or university.

To be eligible, students must submit a photograph and a completed application form, including a brief description of the photograph. The description can include information such as details regarding the photo subject, interesting elements in the photo and/or how this photo celebrates the visual experience of steel. There is no fee to enter, and the number of complete submissions per student is not limited.

Deadline for entries is September 17, 2011. The winner will be announced on SteelDay 2011 (September 23) and the winning photos will be published in *Modern Steel Construction* magazine.

For more information and to download the full rules and application form, visit **www.aisc.org/photocontest**.

STANDARDS

AISC, SSPC Collaborate on Standard for Paint Shop Certification

AISC and SSPC have developed a joint certification standard for shop application of protective coatings. The standard, *Certification Standard for Shop Application of Complex Protective Coating Systems*, AISC 420-10/SSPC-QP 3, describes requirements for certification of firms that apply complex painting systems.

The new standard is the culmination of several years of work by a joint committee of coatings and steel industry professionals representing both organizations. It's available now for free download on AISC's website at **www.aisc.org/JointPaintStandard**. To read the full press release, go to **http://bit.ly/fS6xyy** .