

## Engineering Journal Adds Research Coverage

Structural steel research is being pursued aggressively all over the world, and many of these efforts offer ideas and practical solutions for steel design. AISC is pleased to announce a new activity for its flagship technical periodical, the *Engineering Journal* (EJ), which last year completed 40 years of publication. Starting with the 2005 First Quarter issue, every EJ will feature a "Current Steel Research" article focusing on international state-of-the-art projects and their implications and applications for U.S. practice.

**Reidar Bjorhovde** has been appointed Research Editor for the *AISC Engineering Journal*. A well-known engineer, researcher and educator, he is president of The Bjorhovde Group, a consult-

ing firm and international engineering consortium located in Tucson, AZ. With doctoral degrees from the Norwegian Institute of Technology and Lehigh University, Bjorhovde was a professor at the University of Alberta, the University of Arizona and the University of Pittsburgh for a number of years. He has conducted extensive research on steel and composite structures, including landmark work on the stability and reliability of columns.

The author of more than 200 publications, Bjorhovde has received a number of awards, including AISC's 1987



Reidar Bjorhovde

T.R. Higgins Award and the 2004 George Winter Award from the American Society of Civil Engineers. A Fellow of ASCE and IABSE, he was recently named an Honorary Fellow of the Singapore Structural Steel Society. Bjorhovde is a member of the AISC Committee on Specifications and several other AISC committees. He is also a past chairman

of the Structural Stability Research Council and of the Executive Committee of the Technical Activities Division of the ASCE Structural Engineering Institute. ★

## The 2005 Steel Conference – Montreal, Quebec

The 2005 North American Steel Construction Conference (NASCC) is set for April 6–9, 2005 in Montreal, Quebec. The Steel Conference will feature the newest innovations in structural steel engineering, fabrication, detailing and erection.

This once-a-year event is an opportunity for design and construction professionals to learn how to apply the latest technology and techniques to everyday work; to discover new product offerings from leading industry vendors; and to network with peers, customers and future employees. This year's Steel Conference will once again incorporate the Structural Stability Research Council (SSRC) Annual Stability Conference.

More than 40 technical sessions offer a variety of educational opportunities. Learn about topics ranging from improving detailing business practices to innovative steel design systems to practical information on serviceability design considerations. Some sessions focus on technical engineering issues (Designing to Prevent Progressive Collapse in Steel Structures), while others focus on fabrication (Castellated Beams: Fabrication, Applied Research, and

Innovative Applications), erection (OSHA Subpart R Revisited), or detailing (What Detailers Need to Know about Welding and Weld Symbols). The conference offers pre- and post-conference Short Courses on steel design, seismic design in Canada, and managing the impact of delays. A tutorial on the fire resistance of structural steel framing is also offered. The advance program in this issue of *MSC* has more detailed information.

NASCC speakers are selected both for their expertise on the subject matter and the quality of their presentations. The Steel Conference features such industry notables as Jim Malley, Pete Carrato, Sam Easterling, Larry Griffis, Mark Holland, Rafael Sabelli and Eddie Williams.

The NASCC is also the ideal place to view the tools you use everyday. This year's exhibit hall expects to feature more than 120 exhibits. Displays will include 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! Register online at [www.aisc.org/nascc](http://www.aisc.org/nascc). ★



## Cast Your Vote for the Best Engineering Journal Paper

Go to [www.aisc.org/ejsurvey](http://www.aisc.org/ejsurvey) to cast your vote for the best *Engineering Journal* paper of 2004 and enter your name in a drawing to win a complimentary trip to the 2005 North American Steel Construction Conference (NASCC). One entrant will win round trip airfare, free conference registration, and a one-night hotel stay to the conference, April 6–9, 2005 in Montreal, Quebec. The deadline for voting is December 31, 2004. Only one entry per person will be accepted.

All articles published in the *Engineering Journal* in 2004 are eligible for the award. The winning author will also receive free registration to the 2005 NASCC, round trip airfare, travel expenses, and one night stay at the conference hotel. The winning author will be announced in January and will receive the award at the NASCC in Montreal. ★

## Modern Steel Construction Seeks Technical Articles

MSC editors are seeking articles that cover the technical aspects of steel design. Have you developed creative ways to address designing steel members or connections? Share your tips and tricks with 53,000 other *MSC* readers.

E-mail Keith Grubb, [grubb@modern-steel.com](mailto:grubb@modern-steel.com), for more information about writing for *MSC*. ★

## Guide to Fire Exposures Available Free to AISC Members

AISC members can now download at no charge the Society of Fire Protection Engineers' newest engineering guide, which provides the information necessary to the fire protection engineer to aid in the first important step of this process: estimating the fire boundary conditions.

Design methods, their limitations and examples of their application are provided for fully developed exposure fires and for fire plumes, the two fire exposures of most importance in the design of structures for fire.

An engineering analysis to evaluate the response of a structure during a fire must consider both the heat transfer from the fire to the structural members and the structural response of these members under the defined threat. The focus of this engineering guide, *Fire Exposures to Structural Elements*, is to define the heat flux boundary condition due to the fire used in the heat transfer analysis portion of this problem. Guidance is provided for two potential fire threats: fully developed enclosure fires and local fire plumes.

AISC members can download this publication at no charge by visiting [www.aisc.org/exposures](http://www.aisc.org/exposures). Non-members can purchase the guide for \$80 by visiting [www.sfpe.org](http://www.sfpe.org). For more information on AISC membership, visit [www.aisc.org/membership](http://www.aisc.org/membership). ★

## In Memoriam

**Clarence Arvid Johnson**, formerly of Thomaston, Kensington, and Boca Raton, FL, passed away October 22, 2004. Born in 1913 in New Haven, CT, he began his career at age 10 as a water boy for Berlin Steel Construction Co. (Berlin, CT) and completed his career 57 years later as chairman of the board for the same company. After serving as an ironworker, foreman, superintendent and executive vice president, he became president in 1970 and chairman in 1979. He was an active citizen of Berlin, serving on the police commission, as director of the Berlin Savings Bank, and as an active member of the Berlin Lions Club. ★

## Students Restore Campus Landmark



**Top:** VU's "Kissing Bridge" in its new location, prior to installation of the timber deck and guard rails.

**Inset:** Those present on the day the bridge was lifted into position—back row: professors Andy Longino, Kenneth Leitch, and Michael Hagenberger, along with students Jamie Acton, Colin Simpson, and Reid Gillette; center row: students Kristine Martin, Ashley Young, Faith Dunn, and Brett Iafigliola; front row: Mrs. Marshall and the crane operator from G.E. Marshall Excavating, Inc.

Thanks to a team of Valparaiso University (VU) engineering students and contributions from the steel industry, a once-condemned bridge has been restored as a campus icon.

The Student Bridge, widely known as the "Kissing Bridge" among VU students, was originally constructed between 1859 and 1867. Its first campus location spanned from the Pennsylvania Railroad tracks to Sagers Lake and provided a viable access point for recreational water activities.

Before long, the bridge became a centerpiece of VU college life—not only as a crossing path but also as a place to take part in an everlasting tradition. Brett Iafigliola, the project's team leader, explained, "The tradition is that if a VU couple walked across the bridge at the same time a train passed below, he got to kiss the girl."

After the Valparaiso Board of Works and Public Safety condemned the bridge in 1967, it was moved about

1.5 miles from VU. The bridge remained there for 37 years until it was restored and relocated to the north end of VU's campus.

The 33'-4" long bridge contains about 8,000 pounds of steel with trusses 6'-0" on center. Its deck and guardrails are timber.

Many individuals and companies contributed to the bridge's revival, including HSS from AISC-member LTV Copperweld (Chicago Division) and W-shapes from Cives Steel Co. (Mid-West Division, Wolcott, IN). Cives Steel's Mid-West Division is also VU's AISC Adopt-A-School partner.

The restored "Kissing Bridge" was presented to VU alumni and students during its formal reintroduction October 9, 2004, as a part of the school's homecoming weekend celebration. Now, a walk across the bridge not only lets alumni take a trip down memory lane, but it also sets the scene for new VU students to create their own memories and traditions. ★

## For Detailers Only!

The February 2005 issue of *Modern Steel Construction* magazine will once again include a free listing of structural steel detailing firms. To be included in the listing, steel detailers should go to [www.aisc.org/detailersurvey](http://www.aisc.org/detailersurvey) and follow the instructions for the electronic form.

Even detailers who have completed surveys in the past must complete a new survey every year. This is to ensure that we have the most current and accurate information for our readers. The deadline for this information is December 31, 2004. Late surveys will not be included in the February issue of *Modern Steel Construction*. However, late entries and any corrections will be included in an updated listing on the MSC web site ([www.modernsteel.com](http://www.modernsteel.com)) in March 2005.

Detailers interested in advertising in the February issue should contact John Byrne at [byrne@modernsteel.com](mailto:byrne@modernsteel.com) or at 847.699.6049.

If you have any questions, please call 312.670.8316 or e-mail [detailersurvey@modernsteel.com](mailto:detailersurvey@modernsteel.com). ★

## Tylk Receives NCSEA Award

Michael J. Tylk, principal in the firm Tylk Gustafson Reckers Wilson Andrews, LLC, has received the Robert C. Cornforth Award from the National Council of Structural Engineers Associations (NCSEA). Tylk was nominated for the award by the Structural Engineers Association of Illinois (SEAOI) for exceptional dedication and exemplary service to the association and to the structural engineering profession.

Tylk received both his M.S. in Architectural Engineering and his Bachelor of Architecture from the University of Illinois, Urbana-Champaign. He is a licensed structural engineer and architect in the State of Illinois. Tylk has been in practice since 1966, when he started with the Chicago firm of Skidmore, Owings and Merrill. ★

## Experts Offer Solutions to Weld Cracking

Welding engineers will learn to control and prevent weld cracking at AWS-sponsored conference, February 15–16, 2005 in New Orleans, LA.

The fifth “Weld Cracking: Causes & Cures” conference will feature experts from academia and industry who will focus on the causes of weld cracking, methods of detecting cracks in weldments, and techniques for control and prevention. Attendees to this conference can expect to hear new information not yet covered in textbooks and technical codes.

Conference registration is \$550 for AWS members, \$675 for non-members. Registration includes conference sessions, a continental breakfast and a lunch, and refreshment breaks. Register by calling 800.443.9353, ext. 449, or visit [www.aws.org/w/s/conferences/](http://www.aws.org/w/s/conferences/) for more information. ★

## QMC Launches New Web Site

Quality Management Company, LLC (QMC), provider of independent quality audits for AISC’s certification program, has launched a new web site at [www.qmconline.com](http://www.qmconline.com). Visitors to the site can learn



more about AISC’s fabricator and erector certification programs, browse and download information resources related to certification and steel construction, and search frequently-asked questions about certification and the certification process. ★

## Book Review

*Pushing the Limits: New Adventures in Engineering* is a collection of essays, originally published in *American Scientist* magazine, written by Henry Petroski, author and professor of civil engineering and history at Duke University.

The first half of Petroski’s book focuses on marvels of bridge engineering from the past and present—how bridge-building has evolved over time as successive designers “pushed the limits” of engineering knowledge and material performance.

The second half of the book features chapters on such varied topics as the Dorton Arena in Raleigh, NC (an early example of tension-supported roofs), the 1999 Bonfire collapse at Texas A&M University, and an in-depth essay on Petroski’s trip to China to view the construction of the Three Gorges Dam on Yangtze River.

Although the book lacks sufficient illustrations—a recurring deficiency in many of Petroski’s books—*Pushing the Limits* demonstrates once again Petroski’s love of engineering history.

Petroski is also the author of *The Evolution of Useful Things* (1992), a combined historical and engineering look into the evolution of everyday objects. ★

## Correction

Corle Building Systems of Imler, PA, was inadvertently omitted from the listing of certified metal building fabricators in the November issue. We regret any confusion caused by the omission. ★