

AWARDS

Nominations Sought for 2019 Higgins Lectureship Award

Nominations are being accepted through August 1, 2018, for the prestigious T.R. Higgins Lectureship Award, which includes a \$15,000 cash prize. Presented annually by AISC, the award recognizes a lecturer-author whose technical paper(s) are considered an outstanding contribution to engineering literature on fabricated structural steel. The winner will be recognized at the 2019 NASCC: The Steel Conference, April 3-5 in St. Louis, and will also present their lecture, upon request, at various professional association events throughout the year.

Nominations should be emailed to AISC's Rachel Jordan at jordan@aisc.org. Or, if you'd prefer to mail your nomination, contact Rachel for mailing information. Nominations must include the following information:

- Name and affiliation of the individual nominated (past winners are not eligible to be nominated again)
- Title of the paper(s) for which the individual is nominated, including publication citation
- If the paper has multiple authors, identify the principal author
- Reasons for nomination
- A copy of the paper(s), as well as any published discussion

The author must be a permanent resident of the U.S. and available to fulfill the commitments of the award. The paper(s) must have been published in a professional journal between January 1, 2013 and January 1, 2018. In addition, the winner is required to attend and present at the 2019 Steel Conference and also give a minimum of six presentations of their lecture on selected occasions during the year.

The award will be given to a nominated individual based on their reputation as a lecturer and the jury's evaluation of the paper(s) named in the nomination. Papers will be judged for originality, clarity of presentation, contribution to engineering

knowledge, future significance and value to the fabricated structural steel industry.

The current T.R. Higgins Lecturer is Robert J. Connor, PhD, professor of civil engineering at Purdue University, who received the award for his papers "State-of-the-Art Fracture Characterization I: Master Curve Analysis of Legacy Bridge Steels," "State-of-the-Art Fracture Characterization II: Correlations between Charpy V-Notch and the Master Curve Reference Temperature" and other papers relating to fatigue, as well as for his outstanding reputation as an engineer and lecturer. If your organization is interested in hosting a T.R. Higgins lecture, please contact Christina Harber, AISC's director of education, at harber@aisc.org.

The award is named for Theodore R. Higgins, former AISC director of engineering and research, who was widely acclaimed for his many contributions to the advancement of engineering technology related to fabricated structural steel. The award honors Higgins for his innovative engineering, timely technical papers and distinguished lectures. For more information about the award, visit www.aisc.org/higgins.



This year's Higgins Award winner, Rob Connor, speaking at NASCC: The Steel Conference.

People and Companies

- **Ron Klemencic** is this year's **Engineering News-Record (ENR) Award of Excellence** winner. Klemencic, chairman and CEO of **Magnusson Klemencic Associates Structural + Civil Engineers (MKA)**, has led the development of SpeedCore, a revolutionary method of composite structural steel framing aiming to replace the reinforced concrete core in steel office-tower construction. A steel-framed building using a SpeedCore system is expected to take 40% less time to build than one using a reinforced concrete core. See "Core Solution" in the February issue (www.modernsteel.com) for more on the technology.
- **Qnect, LLC**, announced today that **Nucor Corporation** is the lead investor for Qnect's \$3.8 million funding round. Qnect provides software and digital engineering to optimize connections and production throughput for better steel project efficiency.
- **Trimble** announced that it has acquired the assets of **FabSuite, LLC**, a North American supplier of management information system (MIS) solutions for steel fabrication. The FabSuite software business will be part of Trimble's Buildings and Infrastructure Segment.
- **AISC** president **Charlie Carter** has been named a 2018 Outstanding Engineering Alumnus by the **Penn State College of Engineering**. Established in 1966, the Penn State Outstanding Engineering Alumni Award is the highest honor bestowed by the college and recognizes graduates who have reached exceptional levels of professional achievement. Carter, along with the 11 other award recipients, received his award at a ceremony in April at Penn State.

PROJECTS

Hunter's Point South Project in New York Sees Huge Truss Put in Place

A 100-ft-long steel truss structure was recently lifted into place as an elevated deck and viewing platform central to the Hunter's Point South redevelopment project in New York. One of the most ambitious waterfront projects in the city's history, it was designed by engineering and consulting firm Arup, which is working with the New York City Economic Development Corporation to transform the former industrial site into a sustainable and vibrant urban neighborhood, complete with a riverfront park, along the East River waterfront in Long Island City, Queens.

The centerpiece of the park project—for which Arup is the structural lead—is a cantilevering steel viewing platform overlooking the river, with sweeping views of the Manhattan skyline. This elevated deck is a 51-ton steel truss structure with a 50-ft cantilever, consisting of two side trusses laced together at the top and bottom. Each side truss was designed as three planar trusses that could be shipped individually and assembled on-site to create the curved plan of the overlook.

Clad with 36 tons of steel panels and handrails, the structure is 7.5 ft at its deepest, tapering to 6 in. at its 36-ft-wide edge. Fabricated by Newport Industrial Fabrication, Inc. (an AISC member and certified fabricator), the steel was delivered to the Hunter's Point South site this past November.



MANUAL

Digital Version of 15th Edition *Steel Construction Manual* Now Available

The digital version of AISC's 15th Edition *Steel Construction Manual* is now available. Intended as an affordable supplement to the print version, the digital 15th Edition is a subscription-based product that provides on-the-go access to the information in the *Manual*, including the most recent revisions. (This is a full version of the 15th Edition with digital rights management applied.)

"The next time you're heading out to a job site and need to refer to your *Steel Construction Manual*, the digital 15th Edition is a great alternative to carrying around the nearly 4-lb hardcover book," said Lawrence F. Kruth, PE, AISC's vice president of engineering and research. "You can view the entire *Manual* and search for keywords. It's a valuable online resource for students and engineers in their day-to-day practice."

Features include:

- Access with your AISC username and password from anywhere with an internet connection
- Completely web-based using HTML 5—no plug-ins or software to install
- Embedded hyperlinks for references
- Detailed table of contents
- Fully text searchable
- Exact reproduction of the print edition:
 - Tables appear in aligned, two-page spreads
 - Equations appear exactly as shown in the *Manual*

The initial, one-year subscription for the digital edition costs \$135 for members and \$270 nonmembers. Renewal pricing is \$25 for members and \$50 for nonmembers. To obtain the 15th Edition *Manual* in digital or printed edition, or both, visit www.aisc.org/publications.

BRIDGES

SMDI Updates High-Performance Steel Guide for Bridges

The Steel Market Development Institute (SMDI), a business unit of the American Iron and Steel Institute (AISI), has published an updated version of *Guide Specification for Highway Bridge Fabrication With HPS 100W (HPS 690W) Steel for Non-Fracture Critical Applications*, available for free at www.smdisteel.org. The updated guide replaces the 2012 edition and provides bridge owners, designers and fabricators with the latest recommended methodology to fabricate and weld structures using ASTM A709 or AASHTO M270, Grade HPS 100W (HPS 690W) steel.

High-performance steel (HPS) was developed primarily for the bridge girder fabrication industry. It is designed to have improved mechanical properties in the heat-affected zone (HAZ), improving the HAZ toughness and providing superior resistance to cracking. The guide recommends procedures for fabricators to achieve high-quality welds using HPS 100W steel.

The document includes certain consumables for submerged arc welding (SAW), shielded metal arc welding (SMAW), flux

cored arc welding (FCAW) and gas metal arc welding (GMAW) processes. It is based on continuing research with HPS fabrication and welding practices conducted under a cooperative agreement sponsored by the Federal Highway Administration, the U.S. Navy and SMDI. Led by Lon Yost, a consultant (retired from Lincoln Electric), the research was overseen by SMDI's Welding Advisory Group, a council of technical experts representing steel producers, fabricators, welding manufacturers, academia, government officials and related organizations that provide specification and code development, research, review of new technologies and market development related to the welding of steel products. The guide is highly recommended for bridge professionals who currently work with steel or are interested in learning more about HPS bridges.

HPS has made a rapid entry into the bridge industry. The first HPS 70W bridge was placed in service in December 1997, only three years after the onset of the cooperative research effort. Today, it is estimated there are more than 500 HPS bridges in service in the U.S.