

## AWARDS

## Larry Muir Named Winner of 2014 Higgins Award

Larry S. Muir, P.E., is the 2014 recipient of AISC's T.R. Higgins Lectureship Award. Muir is being honored for his paper "Designing Compact Gussets with the Uniform Force Method," which was published in AISC's *Engineering Journal*. Muir has been involved with structural steel in one form or another for over 20 years and currently provides consulting services to fabricators, erectors, engineers and the AISC Steel Solutions Center. He is a member of the AISC Specification and Manuals Committees and a member of the SEI Committee on the Design of Steel Building Structures.

Presented annually by AISC, the Higgins Award recognizes an outstanding lecturer and author whose technical paper is considered an outstanding contribution to the engineering literature on fabricated structural steel. The award, which includes a \$15,000 cash prize, will be presented at the 2014 NASCC: The Steel Conference,

which takes place in Toronto, March 26-28. For more information on the T.R. Higgins Award and Muir, visit [www.aisc.org/TRHigginsAward](http://www.aisc.org/TRHigginsAward). And visit [www.aisc.org/nascc](http://www.aisc.org/nascc) for information on NASCC.



## RESEARCH

## Two New Tests Clarify Fire Protection Requirements

Two successful full-scale fire tests conducted by AISI and AISC at Underwriters Laboratories (UL) this year provided insight for construction professionals struggling to decide whether to specify restrained or unrestrained fire protection thicknesses for structural steel-framed buildings. The answer is that the required fire protection will be the same, at least for the floor construction described in the new U.L. Design No. D982.

AISI and AISC conducted tests of two unrestrained structural steel-framed floor specimens with 4.5 in. of normal weight concrete over steel deck supported by a W-shape beam. The first test ran for two hours and 32 minutes before the loading mechanism reached its limit. The second test ran for two hours and 29 minutes before the limit was reached. Both tests exceeded expectations.

"These new tests give the steel industry the opportunity to update the state of fire science and document for a new generation of architects, engineers and code officials that steel-framed

buildings can be designed with fire protection thicknesses that are both safe and cost-effective," said Robert Wills, P.E., vice president, Construction Market Development for the Steel Market Development Institute, a business unit of AISI.

"Simply stated, these test results are great," said Charles J. Carter, S.E., P.E., Ph.D., AISC vice president and chief structural engineer. "They provide a solution that eliminates the need to argue about what fire protection thickness is required."

The new UL Design No. D982 provides for two-hour unrestrained assembly ratings with unprotected steel deck and SFRM (spray-applied fire-resistive material) protection on the steel beam with thickness sufficient to obtain a one-hour unrestrained beam (temperature-based) rating.

For more on the tests, see "Restrained or Unrestrained?" (MSC 09/2013) by Carter and Farid Alfawakhiri, P.Eng., Ph.D.

## People and Firms

- The **American Galvanizers Association (AGA)** is seeking the best hot-dip galvanized steel projects of 2013. The 2014 call for entries is extended to any party involved with an after-fabrication hot-dip galvanized steel project completed in 2013. Each year, the Excellence in Hot-Dip Galvanizing Awards recognizes the special skill and efforts of galvanizers, fabricators, architects, engineers, contractors and all other parties in their use of hot-dip galvanizing in an innovative, ideal, creative, monumental or otherwise impressive fashion. All projects must be submitted at [www.galvanizeit.org/project-gallery/submit](http://www.galvanizeit.org/project-gallery/submit). Projects must be submitted by December 31, 2013, and winners will be announced at the AGA's Annual Conference in March 2014.
- **David J. Galey, P.E.**, has joined the Minneapolis office of architecture/engineering firm **LEO A DALY** as director of civil and structural engineering. In this role, he will be responsible for leading the office's civil engineering, structural engineering and landscape architecture disciplines.
- Architect **Peter Ruggiero**, AIA, has joined HOK's leadership team in Chicago as design principal. A senior vice president and member of **HOK's** firm-wide design board, Ruggiero brings 30 years of experience in the architectural profession to the Chicago region. He will continue to serve as a design principal for HOK's Florida and Texas practices.
- **Trilogy Machinery, Inc.**, has become the new exclusive U.S. distributor for Turkey-based **Akyapak's** plate and section bending rolls.

## STEELDAY

## Fifth Annual SteelDay Draws More Than 10,000

The numbers are in! More than 10,000 people attended 125 free events around the U.S. on October 4, the fifth annual SteelDay ([www.steelday.org](http://www.steelday.org)), hosted by AISC, its members and partners.

AEC professionals, university faculty and students and the general public learned about the contributions the industry has made in the design and construction of steel buildings and bridges by visiting various structural steel facilities, touring job sites, attending educational presentations and joining in networking events.

“SteelDay enjoyed much success again this year for the fifth annual celebration,” commented Ross Allbritton, AISC’s industry mobilization manager. “Many hosts and attendees have participated in all five years, and new people join us every single year. We continue to add new opportunities to the events, and the feedback this year has been

very rewarding.”

One new opportunity for participants was a SteelDay Twitter contest. Those who follow AISC (@aisc) on Twitter and tweeted about SteelDay were entered into a drawing to win a Google Nexus 7 tablet. The contest winner was Chris Marvin (@BarelyCivil), a staff engineer with AISC-member fabricator Cives Engineering Corporation in Atlanta. He attended an event at the Gerdau mill in Cartersville, Ga., (also an AISC member) for a guided tour of the facility and a presentation on BIM and the steel market.

“I think from a steel industry standpoint everyone should go see a mill at least once in their life,” tweeted Marvin.

“Working for a fabricator I have always been curious about the process steel goes through to get to our plants,” he explained. “Seeing the massive operation at

the mill I visited gave me a lot of clarity as to just how efficient our industry is. I knew going into the tour that mills were dependent on scrap to recycle into their steel, but I had no idea just how many sources they acquired the scrap from.”

For a recap of highlights from this year’s SteelDay, visit the News section at [www.aisc.org](http://www.aisc.org). In addition, you can view photos from this year’s SteelDay events on AISC’s Facebook page at [www.facebook.com/AISCdotORG](http://www.facebook.com/AISCdotORG) in the “SteelDay 2013” photo album. If you’d like to share your photos, please contact AISC’s Victoria Cservenyak at [cservenyak@aisc.org](mailto:cservenyak@aisc.org).

If you attended a SteelDay event, you can receive your certificate of attendance and share your feedback at [www.SteelDay.org](http://www.SteelDay.org).

Next year’s SteelDay is scheduled for September 19. Mark your calendar!

## NASCC

## Steel Sculpture Finalists Headed to NASCC

SteelDay not only gathered more than 10,000 people nationwide to learn about the structural steel industry (see above item for more), but also encouraged participation from AISC full and associate members to show what they can do creatively with steel.

Fourteen sculptures were entered into this year’s SteelDay Sculpture Competition for a chance to be one of five finalists to have their creation on display at the 2014 NASCC: The Steel Conference, March 26-28, in Toronto. There, the ultimate winner will be chosen by attendees! (The finalists were chosen via

Facebook where fans were able to view photos of the sculptures and vote for their favorites.)

The top five finalists headed to The Steel Conference are shown below.

Planning on going to The Steel Conference? Not only will you see these amazing works of steel art on display—you’ll also learn the industry’s latest techniques, see the most innovative products and network with your peers and clients.

Registration is now open. Be sure to register early; the rate increases \$10 every week until the conference opens,

when the price becomes \$480 (for AISC members). This single registration fee gains you entry to all technical sessions, the exhibition hall, the keynote address and the T.R. Higgins Lecture. It also includes admission to all Structural Stability Research Council, Technology in Steel Construction Conference and World Steel Bridge Symposium sessions. The main conference offers up to 18.5 PDHs; attendees of short courses can earn an additional 4 PDHs.

Visit [www.aisc.org/nascc](http://www.aisc.org/nascc) to view register and to view the advance program.



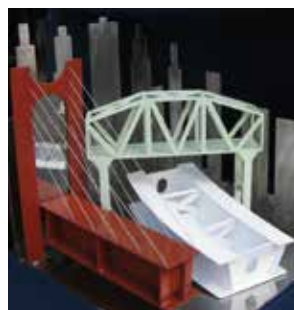
Memories of Steel



Lunch Atop a Skyscraper



Get a Grip



Reflecting the High Way



Steve the Robot

SCHOLARSHIPS

Annual AISC Scholarship Winners Announced

This summer, AISC administered a total of \$146,000 in financial aid to 40 undergraduate and master's students for the 2013-14 academic year. For the second straight year, AISC offered two distinct scholarship programs for university-level students.

Now in its second year, the David B. Ratterman Fast Start Scholarship program for freshman and sophomore students awarded 11 scholarships totaling \$40,000 to students at two-year and four-year colleges. These students, who are required to be relatives of AISC member company employees, are full-time freshmen or sophomores during the 2013-14 academic year.

The AISC Education Foundation, in conjunction with several other structural steel industry associations, awarded

\$106,000 in scholarships to 29 juniors, seniors and master's students for the 2013-14 academic year.

Congratulations to the following students for earning their scholarships:

David B. Ratterman

Fast Start Scholarships

Winners Attending 2-Year Schools

- Charnette Armstrong, Scott Community College
- Donnica Fagan, Front Range Community College (*not pictured*)
- Nicholas Langdale, Blinn College
- Marlee Sherwood, Pima Community College
- Nicholas Wagoner, Universal Technical Institute

Winners Attending 4-Year Schools

- Clarissa Alvarez, Mount Saint Mary's College
- Maria De Leon, University of Oklahoma
- Ian English, Marshall University
- Olivia Postich, University of Cincinnati
- Josiah Schaffer, University of Rhode Island
- Zayla Tolland, Albright College



Alvarez



Armstrong



De Leon



English



Langdale



Postich



Schaffer



Sherwood



Tolland



Wagoner

AISC Scholarships for Juniors, Seniors and Master's Students

AISC Education Foundation

- Julius Doan, Georgia Institute of Technology
- Steven Earl, Stanford University
- Robert Fausett, Utah State University
- Alexander Hawkins, Brigham Young University
- Jennifer Kearney, Pennsylvania State University
- Alexander Motzny, University of California, San Diego
- Leah O'Neill, Brigham Young University
- Galen Reed, University of California at Berkeley
- Zach Treece, University of Missouri - Columbia
- Shue-Ting Tung, Princeton University

- Josh Weaver, University of Akron
- Caroline Williams, Michigan State University

AISC Education Foundation—Fred R. Havens Scholarship

- Zach Olson, University of Kansas

AISC Education Foundation—W&W/AFCO Steel Scholarship

- David Lasiter, University of Oklahoma

AISC/Great Lakes Fabricators and Erectors Association

- Matthew Hartigan, University of Michigan

AISC/Ohio Structural Steel Association

- Andre Silvers, Jr., Youngstown State University

AISC/Rocky Mountain Steel Construction Association

- Conor Lenon, Colorado School of Mines

AISC/Southern Association of Steel Fabricators

- Julius Doan, Georgia Institute of Technology
- Justin Lanier, Georgia Institute of Technology

AISC/Associated Steel Erectors of Chicago

- Abigail Christman, Northwestern University



AISC Scholarship Winners for the 2013–2014 Academic Year



Christman



Doan



Earl



Fausett



Friedman



Hardisty



Hartigan



Hawkins



Johnson



Kaiser



Kearney



King



Lakocy



Lanier



Lasiter



Lenon



Milavitz



Motzny



Nokes



Olson



O'Neill

- Eric Johnson, University of Illinois at Urbana-Champaign
- Jeremy Kaiser, University of Illinois at Urbana-Champaign
- Alexander Lakocy, University of Illinois at Urbana-Champaign
- Rose Milavitz, Northwestern University

**AISC/Indiana Fabricators Association**

- John “Nick” Hardisty, Purdue University
- Harrison King, Trine University
- Alex Schwinghamer, University of Evansville

**AISC/W&W Steel/Oklahoma State University**

- Bri Friedman, Civil Engineering
- Charles Spencer Nokes, Construction Management
- Benjamin Schwarz, Architectural Engineering

For more on AISC’s scholarship programs, visit [www.aisc.org/scholarships](http://www.aisc.org/scholarships).



Reed



Schwarz



Schwinghamer



Silvers



Treece



Tung



Weaver



Williams