

AISC NEWS

## Charles J. Carter Named New President of AISC

Charles J. Carter, SE, PE, PhD, has been named the new president of the American Institute of Steel Construction. Previously, Carter was vice president and chief structural engineer with AISC.

“AISC is one of the premier standard-setting organizations in the U.S., and I’m proud and honored to be offered this opportunity,” Carter said.

“I’ve been fortunate to have a number of very strong mentors,” he continued, “particularly Jerry Haaijer, who was AISC’s vice president of Engineering and Research when I started, and my friend Lou Geschwindner, who was my immediate predecessor as vice president as well as my professor and faculty advisor when I was a student at Penn State. So many of AISC’s fine and dedicated volunteers also have helped and guided me.”

Carter has a bachelor and master of science in architectural engineering from Penn State as well as a doctorate in civil and architectural engineering from Illinois Institute of Technology.

While at AISC, Carter has spearheaded a number of important initiatives, including the revitalization of the AISC *Code of Standard Practice*, the development of a unified *Steel Manual* (combining both ASD and LRFD), the development of AISC’s first *Seismic Design Manual* and the

expansion of AISC’s continuing education programs into the online realm. He’s also a well-known speaker and the author of numerous papers as well as AISC Design Guides on *Torsional Analysis of Structural Steel Members* and *Wide-Flange Column Stiffening at Moment Connections*. “I’m grateful to have worked closely with and learned from some of the top fabricators, structural engineers, researchers and educators throughout the country,” Carter added.

“AISC stands in such a good position thanks to its recent leaders, especially my immediate predecessors Roger Ferch and Lou Gurthet,” he explained. We need to continue to develop, promote and advance the use of structural steel, and help educate professionals and students. Our challenge for the future is to enhance the benefits we provide to the customers of the steel industry and tune our market development efforts to successfully communicate the advantages of structural steel to designers, constructors and owners.”

Carter succeeds Roger E. Ferch, PE, who is retiring this December. Ferch, who was previously vice president of the Herrick Corporation (the largest structural steel fabricator on the west coast), has served as AISC’s president since 2006. “I’m proud of the role I’ve

played in bringing together the entire structural steel industry to communicate our technical and marketing message of economy, efficiency and beauty when you build with structural steel,” Ferch said. “AISC has the best staff of any trade association in the industry and I’m happy that our board has recognized our staff’s quality by promoting our next president from within for the first time in our nearly 100-year history. I think Charlie will do an outstanding job of leading AISC and the structural steel industry.”



### VICE PRESIDENT OF ENGINEERING AND RESEARCH

AISC seeks a structural engineer who understands steel fabrication to lead its Engineering and Research Department. You’ll work with:

- the leading steel designers, fabricators and researchers to continue advancing the state-of-the-art in steel design and construction
- a staff of outstanding professionals and hundreds of volunteer committee members to produce superior codes, specifications, manuals and guides
- other standard setting organizations and code officials to ensure AISC standards are well coordinated, adopted and used

You’ll oversee:

- development of AISC’s standards, publications, *Engineering Journal* and other technical resources, including the flagship products: the AISC *Code of Standard Practice*, AISC *Specification*, AISC *Seismic Provisions* and AISC *Steel Construction Manual*
- AISC’s research and innovation efforts, totaling nearly \$1 million of AISC funds plus significant leveraged funds from outside sources
- AISC’s continuing education programs, delivering excellent and inexpensive lectures to more than 10,000 professionals each year

- AISC’s university relations programs for students and professors, including the National Student Steel Bridge Competition
  - technical assistance provided by the AISC Steel Solutions Center
  - the creation of technical features in *Modern Steel Construction* magazine and articles for *Modern Steel* and other magazines.
  - all other AISC technical activities
- SE or PE designations, a PhD and appropriate work experience are required.

If you’re interested in this fantastic Chicago-based opportunity, please send your cover letter and resume by email to [hr@aisc.org](mailto:hr@aisc.org).

## People and Firms

- **Josh Cilley**, president of **American Steel and Precast Erectors (ASPE)** and Buckner Steel and Precast Division of **Buckner Companies**, has been inducted as president of the Steel Erectors Association of America (SEAA). Cilley, previously SEAA's vice president, will serve a two-year term and succeeds Stephen Burkholder, president of S&R Enterprises, who was instrumental in the implementation of SEAA's Ironworker Training and Apprenticeship program.
- The **American Society of Civil Engineers (ASCE)** has honored **Matthew R. Eatherton**, SE, PE, PhD, **Xiang Ma**, **Helmut Krawinkler**, PhD, **Gregory G. Deierlein**, PE, and **Jerome F. Hajjar**, PE, PhD, with the 2016 Moisseiff Award for their paper "Quasi-Static Cyclic Behavior of Controlled Rocking Steel Frames," published in the November 2014 *Journal of Structural Engineering*. The paper describes testing and analysis of a new controlled rocking system, a seismic lateral force resisting system for steel-framed buildings. The experimental program described in this paper is part of a multi-institution, international research project to develop the controlled rocking system.
- The **Steel Tube Institute (STI)** has released Design Forms HSS Tools Pack, a new software for the design of hollow structural sections (HSS) members and connections. Developed in conjunction with SCIA, a maker of BIM-related structural design software, the pack is a suite of engineering checks to aid engineers in the design of HSS beams and columns as well as their connections. It is being made available at no charge to STI Professional Members. For more information, visit [www.scia.net/hss](http://www.scia.net/hss).

## ENGINEERING JOURNAL

### Third Quarter *Engineering Journal* now Available

The third Quarter 2016 issue of *Engineering Journal* is now available at [www.aisc.org/ej](http://www.aisc.org/ej). Articles in this issue include:

► **Kinematics of Self-Centering Steel Plate Shear Walls with NewZ-BREAKSS Post-Tensioned Rocking Connection**

By *Daniel M. Dowden and Michel Bruneau*

This paper presents information on the combined contribution of post-tensioning and beam-to-column joint rocking connections in self-centering steel plate shear walls (SC-SPSWs) with the NewZ-BREAKSS connection (i.e., NZ-SC-SPSW). Detailed free-body diagrams developed and presented in this paper provide insights on the basic, fundamental kinematic behavior of this lateral force-resisting system.

► **Notes on the AISC 360-16**

*Provisions for Slender Compression Elements in Compression Members*

By *Louis F. Geschwindner, PhD, and Matthew Troemner*

This paper will briefly discuss past specification provisions for slender element compression members and introduce the new provisions in the 2016 AISC *Specification*. It will present a simplification that reduces the number

of constants that must be used and will present the specification requirements in an alternate format. Because the 2016 requirements result in different strengths than the 2010 requirements, figures are provided to illustrate the overall impact of these changes on column strength.

► **Establishing and Developing the Weak-Axis Strength of Plates Subjected to Applied Loads**

By *Charles J. Carter, SE, PE, PhD, Larry S. Muir, PE, and Bo Dowswell, PE, PhD*

This paper provides a suitable method for determining the minimum size of fillet welds necessary to prevent weld rupture as out-of-plane deformations occur. It can be used for fillet-welded gusset plate edges in SCBFs to satisfy the exception provided in Section F2.6c.4 of AISC 341-16.

► **Strength of Beams in Beam-to-Column Connections with Holes in the Tension Flange**

By *James A. Swanson*

A discussion of several approaches to predicting the flexural strength of beams with holes in the tension flanges is presented. Experimental data pertinent to the discussion is then presented, summarized and analyzed.

## UNIVERSITY RELATIONS

### 2017 AISC Milek Fellowship Call for Proposals

University faculty are invited to apply for the 2017 AISC Milek Fellowship, a four-year fellowship awarding \$50,000 per year (for a total of \$200,000) to a promising university faculty member to conduct structural steel research. In addition, the awarded faculty member will be recognized in *Modern Steel* and receive complimentary registration to NASCC: The Steel Conference for the four years following their selection as a Milek Fellow.

Named for William A. Milek, a former AISC vice president of engineering and research, the award is intended to contribute to the research careers of young faculty who teach and conduct research investigations in the U.S. related to structural steel, while producing research results beneficial to designers, fabricators and erectors of structural

steel. It also supports students with a high potential to be valuable contributors to the U.S. structural steel industry. Funds are provided to conduct research that meets the long-term needs of the structural steel industry, to assist in leveraging additional outside funds for fellowship-related research and to develop graduate students for academic and design careers in the structural steel industry.

The selected faculty fellow is required to fund one doctoral candidate each year with at least half of the yearly fellowship funds. The chosen students will be named AISC Graduate Fellows and also will be featured in *Modern Steel*.

Proposals will be accepted until September 15, 2016. For information on submitting a proposal, please visit [www.aisc.org/facultyfellowship](http://www.aisc.org/facultyfellowship).