

AWARDS

T.R. Higgins Award Nominations Sought

The American Institute of Steel Construction is accepting nominations now through August 1, 2006 for the 36th Annual T.R. Higgins Lectureship Award.

Each year, this award recognizes an outstanding lecturer and author whose technical paper or papers, published during the eligibility period, are considered an outstanding contribution to the engineering literature on fabricated structural steel.

The award is named for Theodore R. Higgins, Ph.D., a 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 the late Higgins for his innovative engineering, timely technical papers, and distinguished lectures.

ELIGIBILITY AND NOMINATIONS

The nominated author must be a permanent resident of the United States and must be available to fulfill the commitments of the award. The paper or papers must have been published in a professional

journal within the period of January 1, 2001 to January 1, 2006.

AISC encourages all those involved in structural steel construction to submit nominations. The following information must be included:

- Name and affiliation of the nominee
- Title of paper or papers to be named in the nomination, with publication citation
- Identification of the principal author in the case of multiple authors
- Reasons for the nomination
- A copy of the paper, as well as any published discussion

Nominations should be sent to: T.R. Higgins Award Nomination, c/o Janet Cummins, Engineering and Research Coordinator; American Institute of Steel Construction, Inc.; One East Wacker Drive, Suite 700; Chicago, IL 60601. Nominations will not be accepted after August 1, 2006.

BASIS OF SELECTION

The award will be given to a nominated

individual on the basis of two criteria:

1. The individual's reputation as a lecturer.
2. The jury's evaluation of the paper or papers named in the nomination.

The papers will be judged for originality, clarity of presentation, contribution to engineering knowledge, future significance, and value to the fabricated structural steel industry.

AWARD AND LECTURE

The 2007 award-winning author will present his or her lecture a minimum of six times on selected occasions during the year. A framed certificate will be presented at next year's NASCC: The Steel Conference in New Orleans. Co-authors of a paper or papers named in the successful nomination will also be recognized during the award presentation. The winner also will receive a \$10,000 cash award.

Questions about the nomination process should be sent to Janet Cummins at cummins@aisc.org. More information about the award and its past winners can be found at www.aisc.org/higgins.

STEEL EVENTS

Four Top Steel Seminars to be Presented in July

This month, designers have the opportunity to attend "the best of" recent AISC seminar programs at a substantially reduced cost. From July 25–28, AISC will consecutively present four recent and successful seminars at one location in Chicago. Each seminar will be presented by top speakers (usually the program's authors):

- **Field Fixes: Common Problems in Design, Fabrication, and Erection—Solutions and Prevention** (July 25)—Jim Fisher and Larry Kloiber
- **Steel Design after College** (July 26)—Larry Griffis
- **Seismic Braced Frames** (July 27)—Rafael Sabelli
- **Bolting & Welding** (July 28)—Duane Miller and Geoff Kulak

The programs are six hours each and provide 6 PDHs (0.6 CEUs). Registration fees for AISC members are substantially reduced: attend one seminar for \$100, two for \$180, three for \$240, or all four for \$280 (non-members pay \$200 for one seminar, \$360 for two, \$480 for three, or \$560 for all four). Early registration is encouraged as seating is limited.

The seminars will be held at Loyola University's Rubloff Auditorium in Chicago. Seminars begin each day at 8:00 a.m., break at 11:30 a.m., and then continue from 1:00 p.m. to 4:30 p.m. To keep costs down, the seminars include coffee breaks but not lunch (the venue is in the heart of Chicago's shopping district and numerous restaurants are within walking distance). Visit www.aisc.org/bestofseminars for more information and to download a registration form.

REQUEST FOR PROPOSAL

AISC Seeks Proposals for HSS Design Guide

Through August 1, 2006 AISC is accepting proposals to develop a design guide on HSS connections. For more information, please visit www.aisc.org/HSSrfp.

NEW PUBLICATIONS

AISC Seismic Design Manual in Print

The printed edition of AISC's *Seismic Design Manual* is now available. This hard-bound, six-part manual includes sections on general seismic design considerations; design of systems using $R = 3$ (braced and moment frames); design of braced frame systems using $R > 3$; design of moment frame systems using $R > 3$; and design of other systems using $R > 3$. The *Seismic Design Manual* also includes printed versions of ANSI/AISC 341-05 and ANSI/AISC 358-05.

AISC members who have not yet purchased the 13th Edition *Steel Construction Manual* may purchase both manuals for the discounted price of \$295. And through July 31, members who have already purchased the 13th edition manual may still receive a discounted price on the *Seismic Design Manual*. This offer is only available by calling 800.644.2400 and is not available to those who purchased the 13th edition manual in conjunction with an AISC seminar. For more information about the *Seismic Design Manual* and AISC member discounts, please visit www.aisc.org/bookstore.

Revised Base Plate Design Guide Available

A second edition of AISC's *Design Guide 1: Base Plate and Anchor Rod Design* has been released to provide engineers and fabricators with guidance that is up-to-date with the latest AISC specification.

Design Guide 1 was created to assist engineers and fabricators in the design, detailing, and specification of column base plate and anchor rod connections in a manner that avoids common fabrication and erection problems. The second edition is based on the 2005 AISC *Specification for Structural Steel Buildings* (AISC 2005) and includes design guidance in accordance with both load and resistance factor design (LRFD) and allowable stress design (ASD).

Topics include material selection; fabrication, erection, and repairs; base plate and anchorage design for compression, tension, and bending; and design of anchors for fatigue applications. Design examples on common design cases are also presented side-by-side for both ASD and LRFD. Visit www.aisc.org/bookstore for information on how to order.

New ASTM "Twist-Off" Bolt Spec Available

The ASTM *Standard Specification for "Twist Off" Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treated, 150 ksi Minimum Tensile Strength* (ASTM F2280-06) is now available through ASTM International's web site at www.astm.org.

This new standard covers tension control bolts with a strength level equal to that of A490 bolts. It complements the ASTM F1852-05 standard, which covers tension control bolts with strengths equal to A325 bolts. Both standards provide for plain carbon and weathering steel types.

F2280-06 was published after the release of both the 2006 edition of *Selected ASTM Standards for Structural Steel Fabrication*, distributed by AISC, and the 2006 edition of *ASTM Standards, Volume 01.08—Fasteners; Rolling Element Bearings*. It is not included with either one of these compilations. Though it is now a separate standard, it will be published in the 2007 edition of *ASTM Standards, Volume 1.08*. Please visit www.astm.org for more information.

Seismic Supplement to AWS Welding Code

The American Welding Society has published a new seismic supplement to *AWS D1.1/D1.1M Structural Welding Code—Steel*.

AWS D1.8/D1.8M:2005 Structural Welding Code—Seismic Supplement is applicable to welded joints in seismic load resisting systems designed in accordance with AISC's *Seismic Provisions for Structural Steel Buildings*. It covers the additional controls on detailing, materials, workmanship, testing, and inspection necessary to achieve adequate performance of welded steel structures under conditions of severe earthquake-induced inelastic straining. It also includes a commentary section. Visit www.aws.org for more information or to order.

UNIVERSITY RELATIONS

Save the Date: AISC Workshop for Architecture Educators

A workshop on two new AISC steel teaching aids for architecture educators will be held in Chicago on October 11. This day-long workshop will introduce the aids "Design Studio Case Studies" and "Structures of Everyday," both scheduled to be released prior to the workshop in fall 2006 through AISC's University Relations Department (see "Learning Opportunities" at www.aisc.org).

A travel stipend of \$300 will be given to those who attend. To register, please contact Megan Maurer by phone at 312.670.5418 or by e-mail at maurer@aisc.org.

Both PowerPoint-based teaching aids are highly visual and meant to help students learn about different methods of steel construction. They were developed specifically to complement architecture design studio and lecture curricula alike and can be used interchangeably in either environment.

"Design Studio Case Studies" gives students the opportunity to analyze buildings that have employed structural steel in creative, aesthetic ways. The three buildings presented are former winners in AISC's Innovative Design and Excellence in Architecture with Steel (IDEAS) competition.

"Structure of the Everyday" will benefit students in lecture courses that address materials and methods of construction and architectural structures. Students will be exposed to structural steel shapes and their properties and applications. This module also presents structural steel systems such as space frames, beams, open web joists, columns, braces, and lintels and includes an overview on structural steel connections.

STEEL EVENTS

Tube Symposium

The 11th International Symposium and IIW International Conference on Tubular Structures will be held August 31 to September 2, 2006 in Québec City, Canada. The symposium will feature technical presentations, special lectures, an exhibition hall, and a conference dinner. A full program and registration form are available online at www.ists11.org.

STEEL NEWS

SEI Announces 2006 Award Winners

The Structural Engineering Institute (SEI) of the American Society of Civil Engineers (ASCE) announced the recipients of the 2006 SEI Awards and ASCE Society Awards on May 19 in St. Louis. AISC members accounted for six of this year's 16 award recipients.

SEI AWARDS

The **Dennis L. Tewksbury Award** was presented to James A. Rossberg, P.E. for his untiring work as SEI's director and for his innovative and visionary leadership in promoting growth and visibility for the organization, providing service to SEI's membership and to the society at large, and fostering relationships between SEI and other structural engineering organizations.

The **Walter P. Moore Jr. Award** was given to AISC member **Lawrence G. Griffis, P.E.** for his long and dedicated contributions to the development of state-of-the-art wind load provisions in structural engineering codes and standards.



ASCE SOCIETY AWARDS

The **Jack E. Cermak Medal** was presented to Giovanni Solari, Ph.D., P.E. for his relevant scientific research in wind engineering, his significant influence on U.S. wind engineering practice, and for his important contributions to the development of the International Association for Wind Engineering (IAWE).

AISC member **Bruce R. Ellingwood, Ph.D., P.E.** was awarded the **Nathan M. Newmark Medal** for his outstanding contributions to enhancing and incorporating probabilistic mechanics and structural reliability tools in code development and engineering practice.



AISC member **Michel Bruneau, Ph.D., P.E.** and Jeffrey Berman, Ph.D. were presented with the **J. James R. Croes Medal** for their paper, "Plastic Analysis

and Design of Steel Plate Shear Walls," published in the November 2003 edition of *Journal of Structural Engineering*.

Donald W. White, Ph.D., an AISC member, received the **Shortridge Hardesty Award** for his leadership and groundbreaking research on advanced frame stability concepts and practical design formulations, as well as for his contributions to enhanced stability design criteria for steel and composite flexural members for buildings and bridges.

The **Walter L. Huber Civil Engineering Research Prize** was given to Khalid Mosalam, Ph.D., P.E. for advanced computational research integrated with large experiments to solve practical structural engineering problems.

Stephen J. Seguirant, P.E., AISC member **Richard Brice, P.E.**, and Bijan Khaleghi, Ph.D., P.E., S.E. received the **T.Y. Lin Award** for their paper, "Flexural Strength of Reinforced and Prestressed Concrete T-Beams," which appeared in the January-February 2005 edition of *PCI Journal*.

The **Moisseiff Award** was given to Eduardo Miranda, Ph.D., P.E. and Shahram Taghavi for their papers, "Approximate Floor Acceleration Demands in Multistory Buildings. I: Formulation," and "Approximate Floor Acceleration Demands in Multistory Buildings. II: Applications," which appeared in the February 2005 edition of *Journal of Structural Engineering*.

M.R. Bambach, Ph.D. and K.J.R. Rasmussen, Ph.D. received the **Raymond C. Reese Research Prize** for the development of practical design guidelines for slender plate elements subjected to moment gradients based on careful experimentation and rigorous analysis, as seen in their paper, "Design Provisions for Sections Containing Unstiffened Elements with Stress Gradient," from the October 2004 *Journal of Structural Engineering*.

The **George Winter Award** was presented to AISC member **Duane S. Ellifritt, Ph.D., P.E.** for his contributions to the role of aesthetics in structural engineering through his educational and artistic endeavors, particularly the development of the steel connection sculpture now present on nearly 200 university campuses nationwide.

STEEL NEWS

Steel Industry Addresses 13% Nationwide Growth in Demand

Recognizing increased demand for structural steel on construction projects, members of the structural steel industry are taking action to ensure that steel continues to be readily available for every type of project. Every level of the structural steel supply chain—producers, service centers, fabricators, and erectors—has been working with architects, engineers, general contractors and developers to supply steel in a timely manner. Efforts to continue prompt supply of product and services have included:

Early Involvement. Architects, engineers, contractors, and developers are finding that a key to ensuring their projects run smoothly and their structural steel satisfies the project schedule is the early involvement of fabricators in the design and planning process. Early involvement provides significant cost and schedule benefits by using the expertise of the fabricator early in the project's life, when the greatest opportunity for capturing value exists. More structural steel industry members are now working with customers under the early-involvement approach than ever before.

Flexible Solutions. Industry members are also taking a proactive approach to providing flexible solutions for material acquisition through the involvement of steel service centers. Service centers currently stock nearly one million tons of structural products and have become a highly effective resource in assisting in the selection of commonly available structural sections during the design process. As with the early involvement of fabricators, the work of service centers has been instrumental in helping designers and builders complete projects in a timely, cost-effective way.

Steel Solutions Center. The Steel Solutions Center has aided hundreds of projects in providing conceptual solutions and technical expertise. The Steel Solutions Center can assist in the identification of particular section shapes available from area service centers and producing mills. Fielding over 200 inquiries a week, it is the top technical and steel availability resource. Contact the Solutions Center at 866.ASK.AISC or solutions@aisc.org.