

Call for I.D.E.A.S. and E.A.E. Entries

AISC announces that it is accepting submissions for its annual Innovative Design and Excellence in Architecture with Steel (IDEAS) awards. The program recognizes designs where structural steel forms a prominent architectural feature of a building, either as an interior or exterior application. Buildings must have been designed by architects licensed in the U. S. and must have been completed on or after January 1, 1999.

Project entries will be judged in four size categories according to constructed value. Each national award-winning project will receive a \$2,000 cash award.

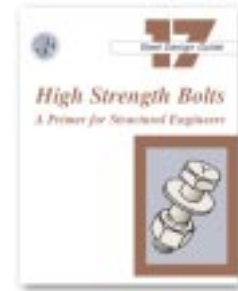
The awards will be presented in May 2003 at the annual AIA convention. All winners will be featured in *Modern Steel Construction*. For more information, see ad on pages 41-42.



AISC is also accepting entries for its annual Engineering Awards of Excellence (EAE). The awards give national recognition to structural engineering excellence and innovation in steel-framed building projects. In order to be considered, a significant part of the framing system must be steel wide-flange structural shapes or hollow structural sections. Building construction must have been completed between January 1, 1999 and December 31, 2002, and projects must be located in the U.S.A., Canada or Mexico.

Project entries will be judged in four size categories according to constructed value. The engineering design firm of each national award-winning project will receive a US \$2,000 cash prize. The awards will be presented at the 2003 North American Steel Construction Conference (April 2-5, 2003 in Baltimore, MD). All winners will be featured in *Modern Steel Construction*. For more information, see ad on pages 59-60.

AISC Releases Design Guide 17



AISC's *Design Guide 17: High Strength Bolts – A Primer for Structural Engineers* is a practical and easy-to-follow guide that clearly explains the basics of bolting for entry-level engineers. The text, developed by Geoffrey Kulak, Professor Emeritus from the University of Alberta, addresses the topics of bolt installation and inspection, individual bolt behavior, bolts in shear splices, bolts loaded in tension, and fatigue of bolted and riveted joints. The guide is a must-have for engineers who want to understand the basics of high-strength bolts. To purchase your copy of AISC *Design Guide 17* call 800.644.2400, or visit our online bookstore at www.aisc.org. Member price is \$26; non-member price is \$39.

Get Ready for NASCC 2003 in Baltimore!

The 2003 North American Steel Construction Conference (NASCC) is set for April 2-5 in Baltimore, MD—and 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.

The conference features presentations by industry experts such as Tom Ferrell (on designing with single-plate connections), Linda Hanagan (on building floor vibrations), Jeffrey Packer (on HSS connections), Michael West (on erection stability issues), Emily Bailey (on managing EEO exposure), Michael Lederle (on cambering), and Janine Reid. See the advance program in the December 2002 issue of *MSC*!



The NASCC is also the ideal place to view the tools you use everyday. This year's exhibit hall expects to feature more than 200 booths. Displays will include software (engineering, detailing and fabrication), fabrication equipment, bolts, safety equipment, coatings, and much more.

This year's NASCC features more than 40 technical sessions aimed at practicing structural engineers, fabricators, detailers, and erectors. In addition, the conference features six special events:

- SSRC Stability Tutorial, included with full registration
- Practical Steel Design Tutorial: a 4.5-hour program that provides instruction on basic design from wind and

low-seismic conditions; included with full registration.

- Marketing Short Course: a four-hour program that focuses on successful techniques to help increase business, including internal auditing and presentation skills.
- Financial Management Short Course
- Short Course on Correcting/Preventing Common Design & Construction Problems: a four-hour program that focuses on solutions to common problems, and suggestions to prevent the problems from occurring.
- Short Course on Bolting and Welding: a seven-hour program that focuses on both welded connection design and the fundamentals of high-strength bolting.

Join 3,000 of your peers for the steel industry's biggest event! Register online at www.aisc.org.

Steel "Cocoon" Helps OSU's Arena Renovation

Oklahoma State University in Stillwater, OK, needed to renovate and double the existing size of its Gallaher Iba Arena, but had nowhere for its sports teams to practice and play during construction. In response to the challenge, architects at Rosser International, based in Atlanta, GA, designed a "cocoon" formed by steel box trusses to be erected around and over the arena and two existing adjacent buildings.

The massive box trusses measured a football field long, 40' tall, and weighed 1 million pounds each. Architects at Gary Sparks Companies of Tulsa, OK, oversaw the design implementation that allowed construction to take place while the building was in use.

Using this frame, the arena's seating bowl addition was constructed outside and above the existing walls and seating bowl. New outer walls were constructed around the entire facility with matching brick. The old roof was carefully dismantled, opening up to the arena's new upper bowl and suites. The original lower exterior walls remain as the inner walls of the facility's lobby, circulation paths, and hall of fame.

To turn the arena into an athletic complex, new buildings were grouped as pods along an indoor "mall," the area between the arena's new and former exterior walls. These function areas are accessed through "storefronts." They include a basketball practice court, a visitor team facility, a renovated two-story office building, a



new one-story training facility, and a renovated and expanded football locker/equipment building.

The second level of the facility includes an academic counseling center, athletic department offices, and offices for all men and women's sports.

The third floor, a wide main concourse, encircles and provides access to the arena's seating bowl. Standing 30' above ground and illuminated with natural light from a wall of windows, visitors can gaze upon the neighboring football stadium or look across the city of Stillwater in all directions. The concourse is accessible by escalators, elevators, and four large stair towers which also house mechanical and air conditioning equipment, and serve as wind braces.

The \$55-million arena went from seating 6,000 to now seating 13,000 fans. The facility bolsters increased athletic revenues, attracts top-flight recruits, projects a positive image to national television audiences, and above all, preserves the arena's original ambiance and 62-year history.

Got a Great Product? Let Modern Steel Know!

Modern Steel Construction is seeking articles about innovative products that have important applications in the structural steel industry. If your company has a product that fits this description, submit a brief description (no more than 500 words) of a real-life example of your product in action for MSC's "Product Case Study" feature in our "Product Highlights" section. Photos should accompany all submissions. Stories, ideas, questions or concerns can be sent to Beth Pollak at pollak@modernsteel.com.

New Online EDI Video

What is EDI? What can CIS/2 do for me? Why is AISC so excited about it? You can find out by visiting www.aisc.org/edi.html to view the *American Architectural Review* video feature on this exciting initiative. The video is on the web for both high-speed and 56k modem users. You will need Windows Media Player and Internet Explorer 5.0 or higher to view it.

You can also find case studies, FAQs, related articles, discussion groups, and links to online technical resources.

AGA 2003 Excellence Awards



The American Galvanizers Association (AGA) announces that it is now accepting applications for its 2003 Excellence in

Hot-dip Galvanizing Awards.

These annual awards recognize projects that utilize hot-dip galvanizing in an ideal, creative, innovative, or monumental fashion. Awards categories include: artistic, bridge and highway, building architecture, civic contribution, electrical utility and communication, industrial, international, original equipment manufacturing, recreation and entertainment, and water and marine.

Winning projects will be announced at the AGA annual conference, to be held April 5-9 in Amelia Island, FL. Winners will receive a four-color project brochure, and will be featured on the AGA website and in seminars and editorials. Non-winning projects might be publicized as well. All submissions will also be considered for the 2003 Most Distinguished Project of the Year.

Projects submitted must have been galvanized by an AGA member galvanizer and their construction completed during 2002. For project guidelines, rules, and applications, contact Madison Sterling at msterling@galvanizeit.org. All entries must be received or postmarked on or before Jan. 24, 2003.

CORRESPONDENCE

Nice Job

Just a quick response to the December 2002 issue—this is an excellent publication. I usually do not have enough time to read all of the journals and engineering papers we get, but I try to read MSC when I get the chance.

The article on fire protection was timely. Please keep more articles like this one coming our way. The format is excellent. Keep doing what you're doing!

*Paul A Bergman, P.E.
Bergman & Associates, Inc.
Haverhill, MA*

AISC Design Guide 16: Moment End-Plate Connections



AISC Design Guide 16 addresses the design of flush and extended multiple-row moment end-plate connections. The text was developed by Thomas M. Murray, P.E., Ph.D. from Virginia Tech, and W. Lee Shoemaker, P.E., Ph.D. from MBMA. The book features multiple examples of typical end-plate configurations and designs. Flowcharts provide a step-by-step design sequence and explains the design process for connections once the desired geometry has been established.

Design Guide 16 includes a review of the applications and classifications of moment end-plate connections, general end-plate connection design procedures, and specific procedures for flush end-plate design, extended end-plate design, and gable-frame panel zone design. Order your copy by visiting www.aisc.org/bookstore.html.

Nucor Purchases Birmingham Steel

Nucor Corporation closed out 2002 with the \$615-million purchase of Birmingham Steel Corporation. The two companies closed the deal on Dec. 9, 2002.

In September 2002, the Delaware Bankruptcy Court had approved the sale of substantially all of Birmingham's assets to Nucor following an agreement signed by Nucor in May. Primary assets to be included in the purchase are Birmingham Steel's four operating mills in Birmingham, AL; Kankakee, IL; Seattle, WA and Jackson, MS, with an estimated combined annual capacity of approximately 2 million tons. Other included assets are the corporate offices located in Birmingham, AL; an inactive mill in Memphis, TN; the assets of Port Everglades Steel Corporation; the assets of the Klean Steel Division; and Birmingham Steel's ownership in Richmond Steel Recycling Limited. The purchase also includes about \$120 million in inventory and receivables.

2003 Automatic Data Collection In Construction Conference (ADCIC)

March 26-28, 2003
Las Vegas, NV

The 2003 ADCIC addresses the use of automatic data collection and management technologies for the construction industry. The conference is sponsored by Bechtel, Fluor, Black & Veatch, DuPont, Dow Chemical, Procter & Gamble, N.I.S.T., CMAA, FIATECH, and the UK's BSRIA organization.

The technologies that will be addressed include: RFID tags, 3-D laser scanning, GPS, 4-D technology, bar codes, hand-held computers, data exchange software, and much more. There will be presentations of special interest to the steel industry, including 3-D models for interfacing with construction, and CIS/2 software for data exchange and structural modeling. For more information, contact Dr. Connie Ciesielski at ciesielskic@mail.ecu.edu, or visit:

www.sitecu.edu/cm-dept/adcic1_2003.htm

Proposed ASN/Bar Code Standard released

Structural shapes mills, the Metals Service Center Institute and AISC have been working together for several years to create a standard business process for the metals industry that provides cost-effective, efficient and automated ways to ship and receive metals products. The culmination of their efforts is a bar code and electronic Advanced Shipment Notice process for the metals supply chain. It allows for the computer-to-computer exchange of information about product shipments through standard bar code tagging of the metals products. Each item would have a bar coded license plate that carries with it detailed information about when it is to be received, who sent it and how it is sent. All of this information can be linked together inside company databases.

The proposal is now posted online at www.aisc.org/barcode for review and public comment. For more information about bar coding, see "Scanning Steel" (p.40) in this issue of *Modern Steel Construction*.

AISC Continuing Education—Spring 2003 Schedule

Bracing of Steel Structures

(an AISC/SSRC joint seminar)

Featured Speakers: Joseph A. Yura, Ph.D., P.E., University of Texas at Austin, & Todd Helwig, Ph.D., P.E., University of Houston.

January 7 & 8 - Philadelphia, PA

January 9 & 10 - Charlotte, NC

March 11 & 12 - Omaha, NE

March 13 & 14 - San Francisco, CA

Seismic Design and the 2002 AISC Seismic Provisions

Featured Speaker: Thomas A. Sabol, Ph.D., S.E., President of Englekirk & Sabol Consulting Engineers, and Adjunct Associate Professor at UCLA.

January

14 - Denver, CO

16 - Salt Lake City, UT

28 - Portland, OR

30 - Seattle, WA

February

25 - Sacramento, CA

27 - Irvine, CA

March

25 - Waltham, MA

26 - New York City, NY

27 - Atlanta, GA

April

22 - San Diego, CA

25 - Anchorage, AK

May

6 - San Francisco, CA

8 - Pasadena, CA

Practical Steel Design: 2 - 20 Stories

Speakers will vary by location. Check www.aisc.org/seminars for information on the speaker in your area. This seminar will also be featured as a tutorial at the 2003 NASCC, April 2-5, in Baltimore, MD.

January

14 - Jacksonville, FL

15 - Tampa, FL

15 - Homewood, AL

16 - Miami, FL

16 - New Orleans, LA

29 - Richmond, VA

29 - Wichita, KS

30 - Norfolk, VA

February

5 - N. Little Rock, AR

6 - Memphis, TN

11 - Charleston, WV

11 - Honolulu, HI

12 - Pittsburgh, PA

19 - Grand Rapids, MI

25 - South Portland, ME

26 - Concord, NH

26 - Des Moines, IA

March

11 - Batavia, NY

12 - Syracuse, NY

13 - Schenectady, NY

18 - Jackson, MS

22 - Stillwater, OK

23 - Dallas, TX

For more information on AISC continuing education opportunities, visit www.aisc.org/seminars.



Call for papers: SEAOC 2003

September 18-20, 2003

Squaw Creek near Lake Tahoe, CA

"From research...to practice" is the theme of the technical program for the 2003 Structural Engineers Association of California (SEAOC) Convention. Papers and presentations should emphasize the technologies of structural engineering research and testing which have been incorporated into structural engineering practice—including research and testing that was originated, developed, or verified by universities, private research and testing programs. Possible subjects may include analysis and design methods, structural member connections, and seismic force-resisting systems. Also welcome are case studies of the implementation of these technologies in seismic retrofit, new building, or bridge projects.

In addition to the technical program, the SEAOC Business Forum will conduct a four-hour program at the

2003 SEAOC Convention. The business forum is soliciting a call for papers on the topic of "The business of structural engineering."

Interested presenters should submit a brief abstract of their paper (300 words or less, on one side of an 8^{1/2}" by 11" page). The deadline for receipt of abstracts is March 1, 2003. Indicate whether it is your desire for the paper to be presented to the audience during the technical sessions or for it to be displayed at the poster sessions.

Please submit hard copy abstracts to: SEAOC 2003 Technical Program Committee or SEAOC 2003 Business Forum
P. O. Box 2590
Fair Oaks, CA 95628

The Technical Program Committee and Business Forum will review the abstracts, and authors will be notified by April 1, 2003 of acceptance. Final papers by selected authors shall be submitted no later than July 1, 2003. Detailed instructions for the paper format will be sent to the authors upon notification of acceptance. For ques-

tions on the technical program, contact Tom H. Hale at thale@oshpd.state.ca.us. For questions on the business forum, contact M. Todd Thorp at tthorp@bbse.com.

In Memoriam

Javier F. Horvilleur, P.E.

Javier F. Horvilleur, P.E., managing director of Walter P. Moore and Associates, Inc.'s Central Texas structural engineering services group, died Sept. 14, 2002.

He was one of the firm's six senior principals and had a guiding responsibility for many noteworthy structural engineering assignments. He also chaired Walter P. Moore's Structural Technical Oversight Committee, and was a member of AISC and ASCE. Horvilleur was known for his sharp intellect, his pursuit of creative structural solutions, his gentle spirit, and his sense of humor.