

# STEEL NEWS & EVENTS

## Parametric Bay Studies v4.1 Now Available on the AISC Web Site

AISC has posted Parametric Bay Studies v4.1 on the Steel Tools™ section of the AISC web site, [www.aisc.org](http://www.aisc.org). Parametric Bay Studies is a downloadable, Visual Basic-enhanced Excel file that helps engineers identify the most economical bay size and steel-framing configuration for their project.

Parametric Bay Studies v4.1 looks at a typical bay in a composite, steel-framed structure and optimizes the design for either the overall weight or the relative cost of the structure. Designs are based on strength and serviceability limits.

A unique feature of this tool allows the user to change default fabrication cost to actual cost data for structural steel; in-place welded studs; and the cost to camber an individual beam to get a true estimate of the design cost. This function encourages designers to involve fabricators at the earliest stages of a project so that the most accurate cost information can be obtained. Default costs are based on an informal AISC poll of steel fabricators.

Steel Tools(TM) are easy to use, require limited input, and deliver immediate results. "The increasing sophistication of structural design pro-

grams creates an application gap for engineers who still need to do simple feasibility checks in the early stages of a project," said Roberta Marsteller, P.E., Steel Solutions Center Director. "Parametric Bay Studies v4.1 is a very comprehensive resource for both veteran and younger designers. Our goal is to provide online tools that help make designers more efficient when working with steel." ★

## SJI Announces Design Award Winners

The Steel Joist Institute has announced the winners of its annual Design Awards. The awards honor outstanding design in steel-joist construction. A panel of outside professionals evaluated the entries based upon flexibility, speed of construction, cost and aesthetics. Each first-place team received a cash prize and a personalized plaque.

Three projects won first place awards in their respective categories:

### Unique Applications Category

#### Ted Constant Convocation Center, Old Dominion University, Norfolk, VA

- **Structural Engineer:** Stroud Pence & Associates, Ltd., Virginia Beach, VA
- **Steel Fabricator:** Chesapeake Bay Steel, Norfolk, VA (AISC member)
- **Steel Joist Supplier:** Canam Steel Corporation, Point of Rocks, MD

### Non-Industrial Category

#### Dolphin Mall, Miami

- **Structural Engineer:** Bliss & Nyitray, Inc., Miami
- **Steel Fabricator:** E & H Steel, Midland City, AL (AISC member)
- **Steel Joist Supplier:** Nucor-Vulcraft, Florence, SC

### Industrial Category

#### King County Solid Waste Transfer Station Roof Replacement, Algona, WA

- **Structural Engineer:** Andersen Bjornstad Kane Jacobs, Seattle
- **Steel Joist Supplier:** Canam Steel Corporation, Sunnyside, WA

For more information, visit the SJI web site at [www.steeljoist.org](http://www.steeljoist.org). ★

## Designing Structures for Fire Conference

September 30-October 1, 2003

Radisson Plaza Lord Baltimore Hotel, Baltimore

Provision of appropriate fire resistance to structural members is one of the major safety requirements in building design. However, evaluating fire resistance of a structure is very complex and requires significant effort.

This conference is aimed at sharing the recent advancements in fire-resistance design with researchers, engineers and practitioners. The conference is of particular interest to scientists, fire protection/structural/material engineers, architects and regulators. Topics include:

- Current methodology of fire resistance evaluation—merits and drawbacks
- Fire-resistance evaluation through testing
- Fire-resistance evaluation through numerical modeling
- Fire-resistance evaluation through simplified (calculation) methods
- Material performance and properties under fire
- Performance-based fire safety engineering
- WTC and Pentagon disaster—fire resistance issues
- Fire resistance case studies of actual buildings
- Integrating fire and aesthetics
- Strategies for complying with fire resistance requirements in codes and standards

For more information visit: [www.sfpe.org](http://www.sfpe.org). ★

## SEAOC Convention and Western States Roundup

Lake Tahoe area, CA  
September 18-20, 2003

The 2003 Structural Engineers Association of California's (SEAOC) Convention and Western States Structural Engineers Association Roundup, held at the Resort at Squaw Creek, promises to be both an exciting learning opportunity and a chance to enjoy a beautiful natural setting. This is a once-a-year opportunity to participate in technical programs, learn about new products, and visit with colleagues.

"From Research ...to Practice" is the theme of the technical program, which addresses research from leading universities and scholars and provides practical applications from design professionals. The Business Operations and Practice Committee will offer a session with a keynote speaker that you won't want to miss! Also, this year's trade show features more than 40 exhibitors.

For more information or to register, please contact SEAOC at 916.965.1536 or [seaocc@aol.com](mailto:seaocc@aol.com). ★

## Seminars from AISC

### **NEW FOR FALL 2003: Seismic Design and the New 2002 AISC Seismic Provisions**

This seminar covers the new 2002 AISC *Seismic Provisions for Structural Steel Buildings*, which contains substantial revisions to the design provisions and a completely rewritten commentary. You'll learn how to use the new 2002 AISC *Seismic Provisions*, which are referenced in both the IBC and NFPA model building codes. In addition, you will learn about all the changes, where to find them in the provisions and their implications. This seminar is perfect for both seasoned designers of seismic structural steel systems and those with limited experience.

Author: Thomas A. Sabol, S.E., Ph.D., Principle, Englekirk & Sabol Consulting Structural Engineers, Inc.

Attendees will be issued 0.55 CEUs or 5.5 PDHs upon completion of the course.

September 4 - Kansas City, MO  
September 9 - Bozeman, MT  
September 25 - Cleveland  
September 30 - Las Vegas  
October 2 - Santa Clara, CA  
October 21 - Anaheim  
October 30 - Dallas  
November 6 - Spokane  
December 2 - Sacramento  
December 2 - Philadelphia  
December 4 - San Diego  
December 4 - Charlotte, NC

Cost: \$250.00 AISC member/\$300.00 non-member

For more information on seminar times, speakers, and hotel accommodations, visit [www.aisc.org/seminars](http://www.aisc.org/seminars). Questions? Call 312.670.2400. ★

### **NEW FROM AISC & SSRC: Basic Design for Stability— Columns and Frames**

AISC and the Structural Stability Research Council team up for a six-hour program focusing on the compressive strength of columns and frames to provide a fundamental understanding of buckling. With a strong emphasis on applications via example problems and case studies, you'll understand the stability provisions in the AISC *Specification*, as well as methods of stability analysis outlined in the AISC *Commentary*.

Authors: Theodore Galambos, Ph.D., University of Minnesota; Perry Green, Ph.D., University of Florida; Todd Helwig, Ph.D., University of Houston; Joseph Yura, Ph.D., University of Texas

Attendees will be issued 0.6 CEUs or 6.0 PDHs upon completion of the course.

September 17 - Boston  
September 18 - New York City  
October 8 - Washington, DC  
October 9 - Atlanta  
November 5 - Detroit  
November 6 - Chicago  
November 19 - Seattle  
November 20 - Portland  
December 9 - St. Louis  
December 10 - Houston

Cost: \$250.00 AISC or Structural Stability Research Council member/\$300.00 non-member

### **NEW FOR FALL 2003: Field Fixes— Solutions and Prevention**

This seminar discusses design, fabrication, and construction problems found in structural steel projects. You'll learn ways to prevent field problems in the design process and solve problems that occur on the job. A discussion of proper procedures and documentation to verify that revisions comply with specified requirements will help prepare you to solve and prevent errors in your structural projects.

Authors: James M. Fisher, P.E., Vice President, Computerized Structural Design, SC; Lawrence A. Kloiber, P.E., Vice President Engineering, LeJeune Steel

Upon completion of the seminar, attendees will be issued 0.5 CEUs or 5.0 PDHs

September 16 - Albuquerque  
September 17 - Denver  
September 23 - Greenville, SC  
September 24 - Columbia, SC  
October 1 - Birmingham, AL  
October 2 - New Orleans  
October 14 - Milwaukee  
October 30 - Phoenix  
November 4 - Salt Lake City  
November 4 - Richmond, VA  
November 5 - Raleigh, NC  
November 6 - Greensboro, NC  
November 18 - Providence, RI  
November 18 - Cincinnati  
November 19 - Cromwell, CT  
November 19 - Columbus, OH  
November 20 - Edison, NJ  
December 3 - Nashville

Cost: \$250.00 AISC member/\$300.00 non-member

### **Public Review of Nuclear Specification Requested**

AISC is now requesting public review and comment on the AISC *Load and Resistance Factor Design Specification for Safety-Related Steel Structures for Nuclear Facilities*. This new specification can be downloaded from the AISC web site at [www.aisc.org](http://www.aisc.org). Review copies are also available (for

a \$12 nominal charge) by calling 312.670.5411.

Please send your comments to Cynthia J. Duncan, Director of Specifications, at [duncan@aisc.org](mailto:duncan@aisc.org) or by fax to her attention at 312.644.4226. Comments must be received by September 8, 2003 for consideration. ★

### **Correction**

In the July 2003 issue of *Modern Steel Construction*, HSS availability information for Leavitt Tube Co., LLC was incorrectly tabulated. For complete HSS availability information, visit [www.aisc.org/shapeavailability](http://www.aisc.org/shapeavailability). ★

## Crane & Rigging Workshop

September 18–20, 2003  
Arlington, VA

The Specialized Carriers & Rigging Association (SC&RA) hosts its annual Crane and Rigging Workshop at The Hyatt Regency Crystal City, Arlington, VA. This international gathering of more than 400 crane- and rigging-industry professionals features a full schedule of educational and networking opportunities. The program includes a keynote presentation by workplace recruitment and retention expert Dan Baker, and a variety of sessions led by industry authorities that will explore crane and rigging issues.

Participants also can attend an all-inclusive, guided tour of Manitowoc Crane Group's Grove Worldwide manufacturing facility in Shady Grove, PA on Saturday, Sept. 20. For registration information and a full schedule of events, please visit the SC&RA web site at [www.scranet.org](http://www.scranet.org) or contact the Association office at 703.698.0291. ★

## CBN Steel Receives NEA Awards

The National Erectors Association presented two of its annual awards to CBN Steel Construction, of Novi, MI. CBN is an AISC Associate Member, an AISC-certified Advanced Certified Steel Erector, and a certified Women's Business Enterprise.

The 20<sup>th</sup> Annual NEA Thomas J. Reynolds Awards were presented to NEA Contractors who achieved a Lost Time Incidence Rate of 25% or more below the national average. CBN Steel was a winner in Category III (100,000 - 499,999 hours worked) and received an award for the best overall rating in the respective work hour category.

The 14<sup>th</sup> Annual NEA Craftsman Award for Ingenuity and Innovation and Construction is a symbol of the NEA's commitment to labor-management cooperation and quality craftsmanship in the industry. In Category II (projects between 25,000 and 100,000 craft work hours), CBN Steel Construction General Foreman Mike LeBlanc was commended for the roof raising of the Allen County War Memorial Coliseum in Fort Wayne, IN. This project was featured in the February 2003 issue of *Modern Steel Construction* in the article "Raising the Roof". ★