

PROJECT NEWS

Steelwork Underway on Niners' New Stadium

Steel construction has begun on the new Santa Clara Stadium, the future home of the San Francisco 49ers.

The first beams were installed in early August, and steel erection is expected to take six months to complete. The framing system for the new stadium will use about 14,000 pieces of steel in all (equaling about 18,000 tons).

SME Steel Contractors, Inc. (an AISC member and certified fabricator) is the steel fabricator and erector for the 1.85-million-sq.-ft project. HNTB and Turner Construction are the project's architect and general contractor, respectively.

Santa Clara stadium will feature open pedestrian plazas, commercial community space, a 49ers team store and a 49ers Hall of Fame. The stadium is designed to be used for a wide range of events including professional and college football, soccer, motocross, concerts and civic events. It is expected to be completed in time for the 2014 NFL season.

You can view a live webcam of the stadium's construction progress at <http://newsantaclarastadium.com/live-view>. For more information about the new stadium, visit <http://newsantaclarastadium.com>.

IN MEMORIAM

John Wynne Barton, Jr., Dies at 85

John Wynne Barton, Jr., 85, died peacefully at home on August 20, 2012.

A longtime representative of the structural steel industry, he served on the AISC Board of Directors from 1969 to 1972 and was a former president of the Southern Structural Steel Board of Trade.

Born September 29, 1926, Barton spent two years in the U.S. Navy during World War II and went on to graduate from Vanderbilt University with a Bachelor of Engineering degree. He was president of McMurray Structural Steel Company in Nashville until he sold the company to Ingalls Iron Works of Birmingham, Ala., in the mid-1970s.

He was active in the real estate business for a brief time and subsequently became a general contractor, operating in partnership with his son-in-law at the Barton-

Riley Company until his retirement. He was also a former member and president of the Exchange Club of Nashville.

Barton is survived by his wife of almost 62 years, Carolyn Price Morrison Barton, one daughter and one son and five grandchildren.



CORRECTION

The September article "Global Presence" (p. 28) correctly listed GKC Associates as the Nature Research Center's structural engineer. However, the structural engineer for the Daily Planet portion of the facility was Weidlinger Associates, Inc., in Cambridge, Mass.



Courtesy North State Steel

People and Firms

- **Lindapter**, which produces steelwork clamping systems, has expanded its North American distribution network by appointing two new distributors: **Clement Support Services** and **Struct-Fast, Inc.** (the latter focuses on steel floor connections only). All of the company's authorized distributors are trained and supplied by its R&D and technical support departments.
- The **Thornton Tomasetti** Board of Directors and Managing Principals named **Stanley L. Welton, S.E., P.E., LEED AP**, to principal in the firm's Denver office. Welton serves as the manager of the firm's Denver office and has more than 30 years of structural engineering experience across a range of project types including sports, commercial and residential.
- The **Steel Market Development Institute** (SMDI) Steel Bridge Task Force and the **American Association of State and Highway Transportation Officials** (AASHTO) Technical Committee for Structural Steel Design have named **Hassan H. Abbas, Ph.D.**, assistant professor of structural engineering at the Samuel Ginn College of Engineering at **Auburn University**, as the 2012 recipient of the Robert J. Dexter Memorial Lecture. The program provides an opportunity for an individual early in his or her career in structural engineering to present a lecture on his steel bridge activities to the SMDI Steel Bridge Task Force and to participate in its semi-annual three-day meeting; the recipient also becomes a member of the Steel Bridge Task Force. SMDI and AASHTO have also named **Yoni Adonyi, P.E., Ph.D.**, as the recipient of the 2012 Richard S. Fountain Award. Adonyi is professor, Omer Blodgett Chair of Welding and Materials Joining Engineering and MJE Program Coordinator at **LeTourneau University** in Longview, Texas. The award recognizes leadership in steel bridge research and outstanding efforts to advance AASHTO specifications. (For more information on both honors, visit www.smdisteel.org.)

AISC NEWS

AISC's Moor to Chair NBIMS-US V3 Project Committee

Chris Moor, AISC's director of industry initiatives, has been selected as the new chair of the project committee tasked with developing Version 3 (V3) of the National BIM Standard for the United States (NBIMS-US).

A project of the National Institute of Building Sciences buildingSMART alliance (bSa), NBIMS-US is a consensus document that serves to standardize the way practitioners use BIM to more easily pass information from one phase of the building process to another. The NBIMS-US Project Committee oversees the standard's development.

"I enthusiastically support the Nominating Committee's selection," commented AISC Chair William B. (Brad) Bourne III of Universal Steel, Inc., Lithonia, Ga. "They could not have chosen a more knowledgeable, energetic and experienced leader than Chris Moor to lead the development of their vision for NBIMS-US V3. We wish Chris the best of luck and stand behind him with all that AISC can offer."

Moor has been a long-time advocate for open standards and improving interoperability. He has worked with 3D technology and BIM since 1994 and leads AISC's efforts on technology integration and interoperability, which include exploring, implementing and promoting new technologies that support and enhance the entire structural steel supply chain. AISC is committed to maintaining the structural steel industry's leadership in interoperability and ensuring data related to structural steel can be exchanged throughout the supply chain and with other disciplines and trades. (Learn more at www.aisc.org/integration.)

"Involvement in bSa and NBIMS-US is an investment in the future of the whole construction industry," said Moor. "I am looking forward to the challenge ahead and am proud and humbled to be a part of the NBIMS-US effort."

A member of the NBIMS-US Project Committee and a director on the buildingSMART alliance Board of Direction, Moor was heavily involved in the development of NBIMS-US Version 2. He is also a member of the Design-Build Institute of America BIM Committee; co-chair of the American Iron and Steel Institute BIM Committee; secretary of AISC's Technology Integration Committee; member of the Level of Development Special Interest Working Group (an Associated General Contractors of America/BIMForum/American Institute of Architects effort); and serves as the AISC lead for a Fiatch project addressing interoperability for steel within the process industry. He was previously the managing director of Tekla Corporation's UK subsidiary.

The NBIMS-US Project Committee will next elect a vice chair and secretary and will call for committee members to join the various working committees and subgroups to develop V3. Individuals and organizational representatives can participate on the committee, but first they must become members of the National Institute of Building Sciences and its buildingSMART alliance. To get involved in the process, visit www.buildingsmartalliance.org/support/members.



DESIGN COMPETITION

Rules Posted for 2013 Student Steel Bridge Competition

Are you ready for another year of exciting collegiate competition? The 2013 ASCE/AISC Student Steel Bridge Competition rules are now available on the AISC website. To view the rules and other related competition information, visit www.aisc.org/steelbridge, where you can also view clarifications to the rules and read about the 2012 competition (also, see "Golden Moment for Golden Bears" in the August issue).

The preliminary round of the bridge competition consists of 18 regional events held each year throughout the spring. The 2013 National Competition will take place at the University of Washington in Seattle, May 31–June 1.

COATINGS COMPETITION

SSPC Accepting 2012–2013 Structure Awards Nominations

The Society for Protective Coatings (SSPC) is accepting nominations for its 2012–2013 Structure Awards. This annual awards program recognizes teams of contractors, designers, end users and coatings manufacturers for excellence on coatings projects. The awards will be presented at the SSPC 2013 Conference at the Henry B. Gonzalez Convention Center in San Antonio, January 14–17, 2013.

SSPC seeks nominations for all types of structures, including bridges and industrial or commercial facilities. Awards will be given in various categories, and with the exception of the Longevity Award and the Military Coatings Project Award of Excellence, work on the structures must have been completed between July 1, 2011 and June 30, 2012.

The deadline to submit award nominations is October 15. More information on the awards program and how to submit a nomination can be found on SSPC's website, www.sspc.org.

DESIGN COMPETITION

ACSA/AISC Steel Design Student Competition Winners Announced

Twenty-one architecture students from universities across the U.S. have been honored in the 12th Annual Steel Design Student Competition. Administered by the Association of Collegiate Schools of Architecture (ACSA) and sponsored by AISC, the program challenges architecture students, working individually or in teams, to explore a variety of design issues related to the use of steel in design and construction. A total of \$14,000 in cash prizes was awarded to the winning students and their faculty sponsors.

More than 400 project submissions from nearly 600 students were received during this year's steel design competition, and more than 100 faculty members served as student advisers for the competition. In total, 53 universities from across North America took part.

Students submitted designs in two categories that required steel to be used as the primary structural material, and with special emphasis placed on innovation in steel design. The Culinary Arts College category required students to design steel-framed facilities with at least one long-span steel structure; designs were to include amenities such as teaching kitchens, a pastry kitchen, classrooms and a demonstration laboratory. In the Open Category, students were given the opportunity to select a site and building program that included at least one long-span steel structure. This category required the designs to be of equal complexity and size as designs submitted in the Culinary Arts College category.

The award winners in each category are:

Category I: Culinary Arts College

➤ **First Place: "The Paris Market Lab"**

David Heck (student) and Jonathan Reich (faculty sponsor), California Polytechnic State University

"Steel was a wonderful facilitator of what I had envisioned for this adaptive reuse project," said Heck. "In some places, I wanted the steel to provide the project with bold gestures that would be able to stand alone, aesthetically, from the existing conditions. Other places, the steel intervention was more subtle, so as not to draw attention from some of the existing conditions, such as the beautiful stone arches and the old Parisian façades, but rather make them more vivid by the presence of the steel and glass addition. Steel was the only structural material versatile enough to do both and at the same time helped to create an honest dialogue between the existing and new conditions. Steel was also the only structural material able to create many of the spaces in this project."

Reich called the award "a wonderful reward for all of David Heck's talent, effort and sustained attention to his fine project. It is yet another example of how the architecture department as a whole continues to prove its excellence internationally."

➤ **Second Place: "Culinary Arts College"**

Eric Simon (student) and Jeff Krieger, David Ade, Jim Rowe, David Brawer, Kurt Raymond and Robert E. Nalls (faculty sponsors), Drexel University

➤ **Third Place: "Native American Culinary Arts Institute (NACAI)"**

Michael Markham (student) and Kevin Stevens (faculty sponsor), Louisiana Tech University

➤ **Honorable Mention: "Futurist.**

Culinary.Matrix" Jingjie Zhao (student) and Keith Evan Green (faculty sponsor), Clemson University

➤ **Honorable Mention: "Culinary_**

Bridge" Jose Sanchez and Adam Strauss (students) and Thomas Fowler IV (faculty sponsor), California Polytechnic State University

➤ **Honorable Mention: "Culinary Arts Institute of San Diego"**

Michael Knowlton, Forest Agnew and Daniel Botten (students) and Hussein Munaim (faculty sponsor), NewSchool of Architecture and Design

➤ **Honorable Mention: "San Diego**

School of Culinary Arts" Kyle Duvernay, Ian Patzke and Siah Afrasiabi (students) and Hussein Munaim (faculty sponsor), NewSchool of Architecture and Design

Category II: Open

➤ **First Place: "Kansas City Soccer**

Training Center" Dan DeWeese (student) and Kent Spreckelmeyer (faculty sponsor), University of Kansas

"The idea was to create a brand/identity for the project through the steel structural system," said DeWeese. "The hexagon, derived from many images of the sport, is emphasized to develop this identity for both the project and the competition; it was the basis of the design and critical in developing the project from concept to solution. The open category allowed me to focus a portion of my architectural education on my interest in sports training and rehabilitation, and it has been an honor to take part in the competition."

"It's an honor to be a part of the competition process and to have Dan DeWeese bring recognition to the University of Kansas," commented Spreckelmeyer. "His concept of a steel structural and enclosure system derived from a hexagonal geometry was a central part of his design from the beginning, and was critical in organizing and explaining his solution."



➤ The Paris Market Lab, winner of the Culinary Arts College category, presents steel in both bold and subtle roles.





▲ Kansas City Soccer Training Center, winner of the Open category, uses steel to mimic the hexagons of a soccer ball.



- **Second Place: "Landscape: Rehabilitation Research Center"**
Jason Allred (student) and Roman Montoto (faculty sponsor), University of Idaho
- **Third Place: "[Re]Purposed"** Teagan Castellon and Brian Diaz (students) and Eric Olsen and Gerard Smulevich (faculty sponsors), Woodbury University
- **Honorable Mention: "Cartesia: Bridging Pertinent Space"** Andrew Coenen and Connor Fischer (students) and Gil Snyder (faculty sponsor), University of Wisconsin-Milwaukee
- **Honorable Mention: "INTERTWINE: An Energy Resource Machine & Wildlife Habitat for Maldives"**
Marilina Cianci and Yekaterina Artemchuk (students) and Sinisha Brdar (faculty sponsor), McGill University
- **Honorable Mention: "Multi-Functional Urban Connectivity"**
Fabio Segre (student) and Camilo Rosales (faculty sponsor), Florida International University

This year's competition jury consisted of: Carol Burns, Taylor & Burns Architects; Erleen Hatfield, Buro Happold; Gerard Smulevich, Woodbury University; Seung K. Ra, Oklahoma State University; Ursula Emery McClure, McClure/Emery Architects; and Christine Theodoropoulos, University of Oregon.

For more information on the ACSA/AISC Steel Design Student Competition, as well as images and descriptions of the winning projects, visit www.aisc.org/studentdesign.