

RESOURCES

New Reference List on Industrial Buildings and Non-Building Structures

In 2006, the American Institute of Steel Construction created an ad hoc committee under the Committee on Specifications to study and evaluate the design, fabrication and construction of steel industrial buildings and non-building structures. It has produced an extensive list of references for the design of industrial buildings and non-building structures, which can be found at www.aisc.org/ibnbsreferencelist.

The primary goal of this AISC ad hoc

committee is to address design problems and issues in steel industrial buildings and non-building structures that are not normally encountered in other types of structures. It includes representatives from design firms, contractors, fabricators, and the metal building industry that have significant experience in the design and construction of these types of structures.

Questions or comments regarding the reference list or other committee activities can be directed to ibnbs@aisc.org.

COMPETITION

2010 ASCE/AISC National Student Steel Bridge Competition

The road to the National Student Steel Bridge Competition has begun. The first regional competition was held at the University of Texas, San Antonio on January 16, 2010. Seventeen additional regional competitions will follow in March and April culminating in the national competition to be held at Purdue University in West Lafayette, Ind., on May 28-29, 2010. More information about the competition can be found at www.aisc.org/steelbridge.

More than 200 schools compete in the regional competitions, and all do an

impressive job of planning, designing and building their bridges. If you would like to become involved in this great event, you can volunteer to be a judge at a regional or the national competition. No previous experience is required. Simply contact one of the host schools and offer your services. For a list of contacts at the regional host schools see <http://content.asce.org/student/conferences.html>. For Purdue University's official national host web site go to <https://engineering.purdue.edu/NSSBC2010/>.

2010 Regional Competition Schedule

Conference	Host	Date
Carolinas	Duke University	April 8-10
Deep South	University of New Orleans	March 26-27
Great Lakes	Rose-Hulman Institute of Technology	April 23-24
Metropolitan	Farleigh Dickinson University	April 23-25
Mid-Atlantic	Pennsylvania State University	April 9-10
Mid-Continent	University of Oklahoma	April 23-24
Mid-Pacific	California State University, Chico	April 8-10
Mid-West	South Dakota State University	March 19-20
New England	Tufts University	April 10
North Central	Western Michigan University	March 26-28
Ohio Valley	University of Kentucky	April 22-24
Pacific Northwest	Washington State University	April 22-24
Pacific Southwest	University of Nevada, Las Vegas	April 8-10
Rocky Mountain	New Mexico State University	April 8-10
Southeast	Auburn University	March 19-20
Texas-Mexico	University of Texas, San Antonio	January 15-16
Upstate New York	Rensselaer Polytechnic Institute	April 8-9
Virginias	Catholic University of America	April 8-10

People and Firms

- **Lawrence G. Griffis, P.E.**, president of the Structures Division and senior principal with Walter P Moore, Houston, has been presented with the National Council of Structural Engineers Association's (NCSEA) James M. Delahay Award. This prestigious award recognizes outstanding individual accomplishments toward the development of building codes and standards.



- **Oscar W. Stewart**, 85, of Houston, passed away December 23, 2009, after a brief coronary illness. Stewart served in the U.S. Marine Corps during World War II and the Korean War, after which he built a 41-year career in the steel industry. A staunch supporter of AISC throughout his career, Stewart served on the AISC board of directors from 1976-1992 while president of Mosher Steel Company, Houston. He also served a term as AISC treasurer, beginning in 1989. Stewart later became CEO of the Structural Division of Trinity Industries, Inc.

- **William Earle Betts Jr.**, 98, of Lynchburg, Va., died on December 29, 2009. Betts served on the AISC board of directors from 1975-1981. An officer in the U.S. Army Corps of Engineers, he served in the European Theater during World War II and was among the troops who landed on Omaha Beach during the Allied invasion at Normandy. Betts was co-founder of Montague-Betts, a Lynchburg Va.-based fabricator whose projects included the World Trade Center in New York.

- Chicago-based **Ranquist Development** recently received an Honorable Mention in the Chicago Architecture Foundation's Patron of the Year program. The firm was recognized for its nine-story steel-framed condominium building at 156 West Superior, Chicago, which was featured on the cover of the June 2007 issue of *Modern Steel Construction*. The Chicago office of Thorton Tomasetti provided the structural engineering, and The Miller Hull Partnership LLP, Seattle, was the architect.

SUSTAINABILITY

Steel Recycling Rate Hits All-Time High

The Pittsburgh-based Steel Recycling Institute (SRI) reports the overall steel recycling rate for the world's, and America's, most recycled material—steel—reached a record high of 83.3% in 2008. This means that more than 82 million tons of domestic steel scrap was charged into furnaces, both in the U.S. and abroad, to make new steel products to be used by the steel industry's customers in meeting consumers' needs. Steel recycling rates are compiled based on data from scrap processors, steel producers, the U.S. Geological Survey and the U.S. Environmental Protection Agency, which can take up to a year to compile.

The first three quarters of 2008 marked high levels of production and scrap usage in the United States and that, along with a full year of high levels of steel scrap exporting, contributed to these record numbers. These high levels of production drew upon record

levels of steel scrap, as new steel simply is not made without steel scrap.

"All new steel made in the North America contains a minimum of 28% steel scrap with some processes using upwards of 90% steel scrap to make new steel," said Bill Heenan, president of the Steel Recycling Institute (SRI). "Steel continues to be recycled at a higher volume than paper, plastic, glass, copper and aluminum combined, and the steel can still hold the distinction of being food and beverage's most recycled container."

More than 1.5 million tons of steel containers were recycled in 2008 at a rate of 65.2%, while more than 14.8 million tons of steel was recycled from automobiles at a rate of 106%. Recycling rates for automobiles are often near or over 100% as older vehicles being recycled are often heavier than new cars which are more fuel efficient through use of advanced high-

strength steels, which are now available to automobile manufacturers.

Appliance recycling rates remained stable at 90% as did structural steel at 97.5%, while construction reinforcement steel (i.e. rebar) increased slightly to 70%. These steel recycling rates accomplish much more than simply saving landfill space. For every ton of steel recycled, 2,500 pounds of iron ore, 1,400 pounds of coal and 120 pounds of limestone are conserved.

Recycling is also key to energy savings and other sustainable benefits. The U.S. steel industry has been the only major industry to reduce energy demands while still increasing production. In fact, the steel industry has reduced energy consumption by 33% since 1990 along with a 45% reduction in greenhouse gases per ton since 1975. For other sustainable advancements of the steel industry, visit <http://sustainable-steel.org>.

AWARDS

Great Architectural Performance Recognized

Miami's Adrienne Arsht Center for the Performing Arts has been selected as Project of the Year by the Urban Land Institute's Southeast Florida/Caribbean District Council. This distinction recognizes the real estate project that best embodies the institute's mission of ensuring the responsible use of land in an effort

to create sustainable, thriving communities. The project was designed by Pelli Clarke Pelli Architects, New Haven, Conn., the design architect of AISC's 2009 IDEAS² award-winning BOK Center performance and entertainment venue in Tulsa, Okla. (See *Modern Steel Construction*, May 2009.)



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