

CERTIFICATION

AISC to Release New Certification Requirements

AISC will post the new Program Requirements for its Building Fabricator and updated Erector Quality Management System (QMS) Certification Program on August 1. These documents will be the governing criteria for each program and will reference their respective standards: the *Standard for Steel Building Structures* (AISC 201-06) for building fabricators and the new *Standard for Structural Steel Erectors – 2013* (AISC 206-13) for erectors.

For the Erector Program, this negates the former erector checklists and existing categories (Certified Steel Erector and Advanced Certified Steel Erector), a move previously accomplished with AISC’s Fabricator QMS Programs. (Previously, companies were audited to checklists, which were intended to demonstrate that they had created the required management and quality procedures.) The updated program is designed to ensure that companies not only say they have procedures in place, but are actually following them.

New erector applicants must meet the new Program Requirements on September 1 when applying for Erector Certification. For current erector participants, the conversion between the “Certified and Advanced Certified Erector Checklists” and the new erector requirements will begin on August 1, 2015. The conversion is mandatory for all participants and will be completed in August 2016. Starting August 1, 2014, current erector participants will be given a gap analysis during their annually scheduled audit.

New building fabricator applicants must meet the new Program Requirements on September 1 when applying for Building Fabricator Certification. Current building fabricator participants must meet the new requirements on August 1, 2015.

For more information, please visit www.aisc.org/certification. If you have additional questions or comments, please contact AISC’s Certification Department at certification@aisc.org.

IN MEMORIAM

Charles Salmon, Renowned Structural Engineering Professor and Author, Dies

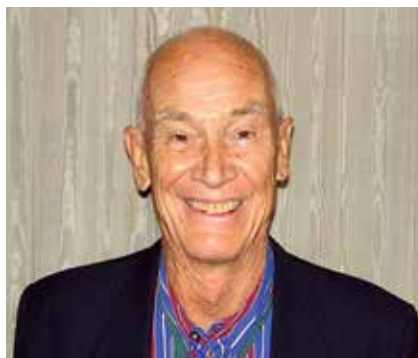
Charles (Chuck) G. Salmon, professor emeritus of civil and environmental engineering at the University of Wisconsin-Madison, died unexpectedly on April 28 in Las Vegas, where he had been living since his retirement from UW. He was 83.

Throughout his career as a professor, Salmon taught and mentored thousands of students. He was highly respected within the structural engineering community and also authored/co-authored several widely used textbooks on structural analysis and steel design, most notably *Steel Structures, Design and Behavior*. He received AISC’s T.R. Higgins Lectureship Award in 1981 and an AISC Lifetime Achievement Award in 2009.

Over the years, he was very active in numerous professional engineering societies including: AISC, American Welding Society (AWS), American Society of Civil Engineering (ASCE),

American Society of Engineering Education (ASEE), National Society of Professional Engineers (NSPE) and the Wisconsin Society of Professional Engineers (WSPE).

He is survived by his children, Margaret (Hans) Eusch, David (Ellen Kodis) Salmon and Martha (Robert Witt); his sister; and seven grandchildren, and was preceded in death by his wife Elizabeth “Bette” Salmon.



People and Firms

- Building information modeling (BIM) software provider **Tekla** has acquired **SVS Innovations’** (SVSi) construction software business and its advanced **Field3D** mobile technology. Field3D is a 3D collaboration software solution for BIM that works on mobile devices, enabling stakeholders in a construction workflow to access complete 3D model information for an entire building on smartphones and tablets.
- **Independence Tube Corporation** (an AISC member) has achieved **ISO 9001:2008** certification at its manufacturing divisions in Chicago and Marseilles, Ill., and Decatur, Ala., through registrar **SAI Global**.
- **Walter P Moore** has made several new additions to its team, including: **Yavor Cekov**, P.E., senior engineer, Houston Structural Engineering; **Rob Field**, P.E., senior project manager, Washington, D.C. Diagnostics; **Bryan Frank**, S.E., P.E., senior project manager, San Francisco Structural Engineering; and **Viswanath Urala**, P.E., senior engineer, Los Angeles Structural Engineering.
- **Trimble** has announced its collaboration with **Bentley Systems** to enhance information mobility between the design and field construction processes. This collaboration enables users to share their 3D constructable models between design and engineering applications and Trimble Field Link 2.20 via Bentley’s mobile i-model technology. A Bentley CONNECTIONS Passport, which entitles use of Bentley’s mobile apps and mobile i-models, is provided with Trimble Field Link.

AWARDS

2015 AISC Milek Fellowship Call for Proposals

University faculty are invited to apply for AISC's 2015 Milek Fellowship, which is given to a promising university faculty member to conduct structural steel research. The award amount has been increased to a four-year, \$50,000-per-year award for a total of \$200,000. The winning faculty member will also be recognized in industry publications and receive free registration to NASCC: The Steel Conference for the four years following their selection as an AISC Milek Fellow.

The Milek Fellowship program is designed to contribute to the research careers of young faculty who teach and conduct research investigations related to structural steel, while producing research results beneficial to designers, fabricators and erectors of structural steel.

The award recipient is also to use the

fellowship to support students with high potential to be valuable contributors to the U.S. structural steel industry. Funds are provided to conduct research that meets the long-term needs of the industry, assist in leveraging additional outside funds for fellowship-related research and develop graduate students for academic and design careers in the industry.

The selected faculty fellow is required to fund at least one doctoral candidate during the Fellowship. The chosen student(s) will be named AISC Graduate Fellows and featured in MSC.

Proposals will be accepted until September 15. Required application information includes:

- Candidate's name, affiliation, mailing address, telephone and email address

- Description of the research to be conducted
- Discussion of the relevance and usefulness of the research to structural steel construction (design, detailing, fabrication, installation, maintenance, renovation, materials, management, protection from corrosion, etc.)

The award is named after William A. Milek, former AISC vice president of engineering and research, in recognition of his invaluable contributions to AISC and the structural steel industry.

For complete information about the Milek Fellowship program, past faculty fellows, AISC research interests and the full proposal requirements and application, visit www.aisc.org/facultyfellowship.

BOARD NEWS

Nucor Promotes Chad Utermark to Executive Vice President

Nucor Corporation announced last week that Chad Utermark, vice president and general manager of Nucor-Yamato Steel Company, has been promoted to executive vice president of beam and plate products. Joe Stratman, who has served in the position since 2007, will continue to focus on the business development activities for which he assumed responsibility in 2010.

Utermark began his career with Nucor as a utility operator at Nucor Steel-Arkansas in 1992, became shift supervisor in 1995 and was promoted to hot mill manager in 1999. In 2003, he transferred to Nucor Steel-Texas as its roll mill manager and was promoted to general manager in 2008 and vice president in 2009. He has served as vice president and general manager of Nucor-Yamato Steel Company since 2011. He also has served on AISC's Board of

Directors for the past two years.

Leon Topalian, vice president and general manager of Nucor Steel Kankakee, Inc., will become vice president and general manager of Nucor-Yamato Steel Company. A replacement for Topalian will be named at a later date.

John Ferriola, Nucor's chairman, CEO and president, commented, "The promotions of Chad and Leon result from the thoughtful and orderly succession planning that has been a significant strategic initiative through the Nucor organization in recent years. Chad will be a strong addition to our executive management team and will continue the success that Joe and his team have achieved in optimizing existing operations and completing strategic acquisitions to profitably grow Nucor's beam and plate businesses."



STEELDAY

Steel Sculpture Competition Entries Due Sept. 2

Make your structural steel vision come to life! How? By entering AISC's fourth annual Steel Sculpture Competition!

AISC is searching for the greatest steel sculptures around. If you're an AISC full or associate member, join this year's competition and create your own innovative steel sculpture for a chance to win. Here are the rules:

- The sculpture must be steel (and only steel), but shapes, sizes and steel type can be your personal preference.
- The sculpture must be made entirely by your staff.
- The finished sculpture must fit in a 2-ft by 2-ft by 2-ft box (for shipping purposes).
- All entries must include a title and the name of the company submitting the project.
- There's no theme! But keep in mind these characteristics of steel:

adaptable, economical, quick and sustainable.

Submit photos of your sculpture by September 2 to AISC's Jenny McDonald at mcdonald@aisc.org.

From September 8-12, all entries will be posted to AISC's Facebook page (www.facebook.com/AISC-dotORG) where they'll be voted on by fans. The top five finalists will be put on display at the 2015 NASCC: The Steel Conference, March 25-27 in Nashville, where the ultimate winner will be chosen by attendees. The winner will also be featured in *Modern Steel* and receive a catered lunch for their company.

Learn more about the competition at www.steelday.org/sculpturecomp, and read about this year's winning sculpture, "Lunch Atop a Skyscraper," in the May issue.

The competition is part of SteelDay,

the structural steel industry's largest educational and networking event, held nationwide. It's scheduled for September 19 this year; mark your calendars! If you're interested in hosting or attending an event, visit www.steelday.org.



PROJECT NEWS

9/11 Memorial Museum Opens

President Barack Obama joined Sept. 11 survivors, victims' families and rescue workers in May to commemorate the opening of the National September 11 Memorial Museum. It is now open to the public.

The Museum's 110,000 sq. ft of exhibition space tells the story of 9/11

through multimedia displays, personal narratives and a collection of monumental and personal artifacts. The space includes two core exhibitions at the archeological heart of the site: the memorial exhibition, called "In Memoriam," and a three-part historical exhibition that explores the day of the attacks, what led to them and their aftermath.

More than 8,000 tons of structural steel was used in the 9/11 Memorial and Museum, which was designed by Davis Brody Bond. The entry pavilion, designed by architect Snøhetta (Adamson Associates was the architect of record) and structural engineer Buro Happold, uses 1,200 tons of steel, fabricated and erected by W&W/AFCO Steel (AISC member/AISC Certified fabricator/Advanced Certified Steel Erector).

"The magnitude of the historic importance of the site and its symbolism

made it essential for us to find a balance between the collective and the individual experience," said Steven M. Davis, FAIA, founding partner of Davis Brody Bond. "We relied on four principles to guide our work—memory, authenticity, scale and emotion—hoping to provide the most sensitive, respectful and informative experience for visitors."

Craig Dykers, founding partner of Snøhetta, added, "As a reflection of the present, the museum pavilion we designed serves as a bridge between the memory of past events embraced by the Memorial design and the trust in the future, signified by the neighboring office towers."

See "Trident True" in the January 2014 issue for additional details about the towering tridents. To learn more about the 9/11 Memorial Museum, visit www.911memorial.org.



BIM NEWS

Vision Task Force Foretells How Projects Will Be Built in 2021

The Vision Task Force of the National Institute of Building Sciences' buildingSMART Alliance has launched www.nationalbimstandard.org/vision2021, a new website that offers a glimpse into the not-too-distant future of the building industry.

The Alliance is the developer of the nation's BIM standard, *National BIM Standard – United States* (NBIMS-US). Its NBIMS-US Planning Committee formed the NBIMS-US 2021 Vision Task Force (VTF) last year to focus on defining, forecasting and, in some cases, guessing at the future of the building industry to gain insight into what the NBIMS-US will need to be able to support that future.

"The initial effort of the 2021 Vision Task Force was to ask subject matter experts from every part of our industry to provide short essays about the nature of their role, profession or industry as it will be in eight to 10 years—a timeframe we believe it is possible to reasonably predict," explained Chris Moor, chair of the NBIMS-US Project Committee and VTF and AISC's director of industry initiatives.

The VTF collected nearly 40 of these essays and then spent considerable time researching additional sources about the future of the industry.

"We then wove this knowledge together into a single, compelling and tangible vision of how a construction project may be built in the future, including the technologies and processes that would be in common use," said Moor. "We delivered this vision in both novel and newspaper article formats to capture the imaginations of different audiences."

The website offers the reader the opportunity to download a story delivered via a choice of two literary vehicles—a short novel and a fictional newspaper article—through which to explore the design, construction and opening day of a fictional children's care center in Springfield, U.S., and to meet the key players of the team that created the project.

Major findings among the VTF's essays and other research used to develop the story fall into six broad categories: sustainability; facility management and operations; data, interoperability and integration; building codes, specifications

and standards; technology; and processes, efficiency and collaboration. All of the categories are expanded upon in the summary within the publications.

But while these categories identify some of the anticipated progress of the industry during the next decade, what was more revealing was how the industry might get there.

"Everything we discovered points to an industry looking for solutions—looking for a better way—and it's up to the owners, the government and everyone who wants our industry to succeed to embrace the challenge of finding those solutions," added Moor. "We have to find a way to get there. We need mandates, investment, a cultural shift and a brand-new educational platform to help the industry become more efficient."

To learn more about the buildingSMART Alliance, visit www.nationalbimstandard.org.

You can also meet "George Jetson," the steel fabricator of the future, in Moor's article "Tomorrowland" in the October 2013 issue.

GALVANIZING

Galvanizing Awards Winners Announced

The American Galvanizers Association (AGA) recently announced the winners of this year's Excellence in Hot-Dip Galvanizing Awards. More than 100 projects representing the versatility of hot-dip galvanizing were submitted and judged online by a panel of architects and engineers.

This year's highest honor, the Most Distinguished award, was given to the San Diego Central Library. It features a hot-dip galvanized steel façade and a three-story arched domed terrace. (The dome portion of the project is also a National Award winner in this year's AISC IDEAS² Awards program; see the May issue.)

The Lifetime Achievement award,

which recognizes a galvanized project with at least 15 years of service, was given to the Bridges of Stark County in Ohio. In the early 1970s, Stark County engineer Rich Larocco decided to dismantle the bridges, galvanize the steel beams and reinstall them in an effort to lower maintenance costs. After seeing the impact of the recycled bridges, Stark County continued to install new galvanized bridges.

In addition to these two awards, 13 other projects were selected to represent the best of the best in 12 categories that are common sectors for the use of hot-dip galvanized steel. View all of the winning projects in the AGA Project Gallery at www.galvanizeit.org/project-gallery.

