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Upcoming Meetings:

- **Wed, January 28th**
- **Wed, February 25th**
- **Wed, March 25th**

Frequently Used Links:

- National website at www.same.org
- Post website at www.same-msp.org
- Listing of [Post Leaders](#)
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Agenda:

Next Meeting Presentation
Wednesday, 17 December 2014

Ethics: An Engineer's Tool for Risk Management

Kristine A. Kubes
Principal of Kubes Law Office, PLLC

2-PDH

Presentation Synopsis:

Risk management is much more than insurance - it's a way of operating your business. One of the necessary tools for risk management is an awareness of the engineer's ethical obligations, which then informs how the engineer communicates about issues and addresses them. Today's engineer must meet the demands of the market while protecting one's practice, one's business, and one's integrity. In this course, we will examine the applicable Rules of Professional Conduct as well as case studies of ethical violations and, from them, learn how adhering to the ethical code and communicating effectively can strengthen your practice, help avoid ethical dilemmas, and manage risk.

Speaker Bio:

Kristine A. Kubes is the principal of the Kubes Law Office, PLLC, serving design and construction professionals. She concentrates her work on professional liability defense/litigation and proactive construction counseling, which involves addressing and cooperatively resolving project management, risk management, and payment issues.

Integrated with her legal practice, Kristine is a qualified neutral who mediates construction and design disputes. A graduate of the College of St. Catherine and the University of Minnesota Law School, Kristine serves as a Governing Committee Member of the American Bar Association Forum on the Construction Industry. Kristine is a frequent lecturer on legal issues in design/construction and on professional liability and ethics for the design professional. She is an affiliate member of her clients' professional societies: ACEC, AIA, and ASID. Governor Pawlenty appointed Kristine to serve as a public member on the MN State Board of AELSLAGID in 2005; she served as the Board's Chair from 2009 to 2011 and completed eight years of service on the Board in 2013.

Meeting Location:

****Location has changed for this month!* Please Note:*** 180 East 5th Building, downtown St Paul, 2nd Floor Conference Center, Room B (located right by the escalator on 2nd/Skyway Floor.)

For directions and parking information, please visit <http://www.180eastfifth.com/location-and-parking.html>.

Agenda:

The meeting will be held from 9:30 AM to 11:30 AM and will include snacks and beverages. Please RSVP with your intent so that enough snacks are provided. Either leave a message with Michelle Larson at **651-290-5632**, click the RSVP button in the left-hand column of page 1, or send an email to Michelle.J.Larson@usace.army.mil.

Highlights of the Previous Meeting

During the November SAME meeting, Colonel James Sellner, a 25-year+ member of SAME, gave a presentation on US Military support in the Gulf Region under "Operation Enduring Freedom". Jim is a principal engineer for the MN DNR Division of Lands and Minerals in Hibbing, MN. Jim was recalled to active duty in 2006-2007 and served as Deputy Director for Oil Reconstruction Sector in Iraq, served as deputy Program Manager for a \$1.7 Billion construction program and served as lead engineer on the stabilization of the Mosul Dam.



Because of Jim's professional mining and geological training and work experiences, he was assigned to lead the efforts in the stabilization of Mosul Dam. The construction of the project was directed by Saddam Hussein and completed in 1986, although its location was not advised by several engineer advisors. The dam was built on gypsum, anhydrite and karst limestone. Jim highlighted a fault zone parallel to the downstream toe of the dam. Karstic sink holes were forming both upstream and downstream of the dam.

Mosul Dam is the largest dam in Iraq, and the fourth largest dam in the Middle East by reserve capacity. It is located on the Tigris River, approximately 45 kilometers from Mosul. The dam provides 1/4 of the power available in Iraq, and is a significant source of water for agriculture.

Jim displayed a cross sections of the dam, and pointed out the location of an access gallery that ran under the dam along its length. The gallery was a critical component for access and grouting operations that have been initiated to stabilize the

dissolving bedrock below the dam. Fifteen drill rigs and cement grout pumps operate within the gallery below the dam. Cement grout is pumped continuously to fill voids throughout the grout curtain under the dam. Jim described the logistics of his efforts in the Gulf Region as especially challenging with regards to moving food, fuel and equipment. He also described the security concerns and some of the support services used to keep him safe during his assignment.

The dam has piezometer and strain gage monitoring networks installed around the dam. A warning system was put in place to provide warning for downstream cities. Dam failure would cause significant damage and loss of life downstream. The continuous grouting operation at the dam is a key factor in keeping the Mosul dam stable. The long term plan is to build another dam in a site better suited geotechnically for water retention.

Engineers and Technical Professionals Need to Help with Future City Competition



This will be the 13th year that teams from Minnesota have participated in the national Future Cities Competition and will be the 7th year that the SAME M-SP Post will be sponsoring a special award category for the team that best addresses "Readiness for Natural and Man-made Disasters". **Volunteers willing to help any of the following capacities are very much needed ...**

The M-SP Post needs the assistance of four volunteers on the morning of Saturday January 17, 2015 to help select the team to receive our special award. If you are willing to help with this portion of the event, please contact M-SP Post Junior Vice President **Peter Allen** at peter.j.allen@urs.com.

The organizers of the state competition are looking for engineers and technical professionals who are interested in being either a Mentor to a specific school team or a judge in one of the three judged events as described below. Mentors help students and educators better understand the practical applications of math and science as they work with students in the design of a future city. 5.0 PDHs of community service are awarded to all mentors whose teams complete the competition and are printed on the mentor's certificate of appreciation. Engineers in all fields are welcome. Just as cities need all types of engineers, so do our students. For complete details about mentoring see <http://www.futurecity.org/region/mentoring>. Volunteers are needed to help judge the various portions of this season's National Engineers Week Future City Competition (FCC). Volunteer judges are needed during the months of December and January. For complete details see <http://www.futurecity.org/region/volunteer-judge>. The competition is comprised of three judged parts: 1) Computer design & layout using SimCity software 2) A 700-1000 word essay on an assigned engineering-related topic 3) Building a table top scale model of a section of the city and a team oral presentation of their city and model

If you are interested in helping with any aspect of the state competition, send your contact info (name, company, work phone, work address, and email) to **Colleen Feller** at colleen.feller@metroecu.edu or phone, **612-638-1511**.

Small Business News

As a follow up from our September 2014 Small Business Panel on the topic of Mentor Protégé, one of our panelists Gene Kuppenbender from Bay West, announced that Bay West and G2RJ Incorporated (dba Trevet) completed their formation of a mentor-protégé relationship and joint venture. The Small Business Administration-approved Mentor-Protégé agreement combines Trevet (Protégé), a Small Disadvantaged Business 8a firm with 9+ years DoD experience, and Bay West (Mentor), a 40-yr-old environmental firm with 22+ years of DoD experience. In addition, the Trevet-Bay West Joint Venture LLC is an 8(a)-compliant Small Business that unites Trevet's Navy experience and Bay West's Army and Air Force experience with a combined 30+ years executing Hazardous, Toxic and Radioactive Waste (HTRW) and Military Munitions Response Program (MMRP) federal projects. For more information about the Mentor Protégé program, contact Tae Parrish, Trevet, 210-441-9783, tparrish@trevetinc.com, and Gene Kuppenbender, Bay West, 651-291-3450, genek@baywest.com.

Save the Date!

Mark your calendars! The 2014-2015 Explore Engineering Event will be held at Willow Lane Elementary in White Bear Lake on Thursday, April 9th, 2015 from 6:00 PM to 8:00 PM.

Be on the lookout for Habitat for Humanity volunteer dates for February 2015! More information for both events to follow in the upcoming newsletters!



Volunteers Needed for Engineering and Construction Camps

SAME has three outstanding one-week Engineering and Construction Camps: the Air Force camp at the U.S. Air Force Academy, Colorado; the Marine Corps Camp at Camp Lejeune, North Carolina; and the Army Camp at Vicksburg, Mississippi. Efforts are underway to reestablish the Navy-Seabee Camp at Port Hueneme, California as a five-day Science, Technology, Engineering and Math (STEM) camp.

The STEM camp will be planned for 40 high school students. Development of a dynamic camp curriculum is underway. Due to the restrictions on outreach, the Navy cannot provide staffing for the camp as in previous years. Therefore, the ability of SAME to re-start the camp is dependent on SAME having volunteers perform all required camp staff duties, to include camp directors, operations, and mentors.

We are soliciting the following volunteers for the following SAME camps-all positions require individuals to be at the camp for the entire duration:

- * SAME-Air Force Engineering and Construction Camp, (June 25 - July 1) for 96 High School Students: 2 Operations Staff, 16 Mentors (SAME YM or NCO)
- * SAME-Marine Corps Engineering and Construction Camp, (June TBD) for 40 High School Students: 2 Operations Staff, 8 Mentors (SAME YM or NCO)
- * SAME-Navy STEM Camp, (July 21-25) for 40 High School Students: 1 Camp Director, 1 Head Mentor (SAME Fellow Preferred), 2 Operations Staff, 8 Mentors, 4 Squad Leaders (NCOs or Young Members)

Please respond with your potential interest to COL Kurt Ubbelohde, F.SAME, USA (Ret.), Chair, SAME Camp Committee at KFUbbelohde@leoadaly.com by December 5, 2014. We need firm commitments no later than April 1, 2015. Be a Leader — volunteer!

www.same-msp.org