MSPE Members Assist After Joplin Tornado

S.A.V.E. Coalition Deployed

In the wake of the deadly EF5 tornado that decimated a three-quarter mile wide by six-mile long section of the City of Joplin on Sunday evening, May 22, 2011, engineers from the Structural Assessment and Visual Evaluation (S.A.V.E.) Coalition were deployed to assess damaged residential, medical care facilities and multi-story structures. MSPE, along with numerous other professional and technical organizations, sponsored legislation in 1991 to form the S.A.V.E. Coalition, which allows architects, engineers and building inspectors to volunteer through the State Emergency Management Agency to assist communities after natural or manmade disasters by performing structural inspections of damaged buildings while receiving liability protection under the law-RSMO 44.023. In its largest deployment ever, S.A.V.E. volunteers worked over 1,100 hours inspecting damaged structures over the three-day period of Thursday to Saturday, May 26-28, 2011. At its peak, S.A.V.E. had 23 three-member teams paired with a City of Joplin representative at work. Over 6,300 structures were evaluated during the deployment which provided exterior only inspections intended to identify structural life safety problems. Of the inspected buildings, approximately 38% were found to be unsafe. 6% were deemed for restricted use only and 56% did not present life safety problems.

"Can Do" Service Project To Aid Joplin

Now more than ever, MSPE needs you to lend a helping hand to people in crisis by supporting the 2011 Community Service Project held during the Annual Convention, June 12-15, 2011. Monetary donations will aid the Carl Junction Helping Hands Ministries in providing food and clothing to needy families in the Carl Junction School District and victims of the deadly EF5 tornado that struck Joplin, Missouri on Sunday, May 22, 2011. Every dollar donated goes toward purchasing food at wholesale prices or transporting factory direct donations. You can participate in the "Can Do" Community Service Project, by completing a pledge card during the convention and returning it to the registration desk with your donation by 7:30 a.m. on Wednesday, June 15th.

Not going to convention? You can still donate by sending your donation with a chapter representative or mailing it to the MSPE office at 200 E. McCarty Street, Jefferson City, MO and we will forward your donation.

CHECKS SHOULD BE MADE PAYABLE TO: Carl Junction Helping Hands Ministries. The food bank is a 501(c)(3) public charity so donations are tax deductible.

During the convention, MSPE’s Chapters will engage in a friendly competition to see which chapter raises the most money per capita. The winning chapter will receive MSPE’s "Can Do" Award.

A red "unsafe" placard is posted on a structure by a S.A.V.E. volunteer.
Experiencing NSPE’s Relationship Building

By Benjamin Ross, P.E.,
MSPE Immediate Past President

I was invited to attend NSPE’s Federal Engineer of the Year Award luncheon in Washington D.C. and want to share my observations on NSPE’s relationships with Federal Engineers.

The Federal Engineer of the Year Award is a 32-year-old NSPE program that recognizes excellence among engineers employed by federal agencies. Each agency may submit a candidate for the national award. All of the agency winners receive their awards at the luncheon, the top ten finalists are recognized and the winner is announced and presented a medal. NSPE invites the federal agency leadership to attend the luncheon and be recognized along with their agency’s candidates.

This year’s awards presentation was at the National Press building ballroom, two blocks from the White House. The attendees included representatives from NASA, the Department of the Army, the Department of the Navy, Federal Highway Administration, Department of Health and Human Services, Department of the Interior – Bureau of Reclamation, and the National Park Service. It was a very impressive venue with lots of high ranking government officials and distinguished engineers including Rear Admiral Chris Mossey, P.E., Commander Naval Facilities Engineering Command and General Van Antwerp, P.E., Commander of the Army Corps of Engineers.

One attendee I spoke with was Federal Highway Administrator Victor Mendez, the top political appointee at FHWA. As I was talking with him before lunch, I explained how MSPE is working at the state level to get a multi-year extension of the Federal Highways bill passed. He immediately asked if we were working with Kevin Keith, P.E. I told him that we were not working directly with MoDOT but that we had the same goals in mind. It was really neat that the top FHWA leader has the name of MoDOT’s leader on the tip of his tongue. Victor said the engineering community needs to be engaged in the political process to support a strong transportation infrastructure.

I told him that one of NSPE’s and MSPE’s goals.

NSPE President Michael Hardy, P.E., NSPE Executive Director Larry Jacobson, both impressed upon me the value NSPE members receive from NSPE’s leadership developing personal relationships with the federal engineering agency leadership through events such as this one.

While NSPE certainly receives a lot of member benefits by developing personal relationships with the federal agency leaders, it was the comments by FHWA Administrator Mendez about being engaged in the political process which resonated even more strongly with me. Both MSPE and NSPE encourage its members to develop personal relationships with our elected leaders at the federal, state and local levels.

I think engineers need to become more active in the political process and use our problem-solving and technical skills to benefit humankind. So, I urge you to begin building relationships.

The Missouri Engineer

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Missouri Team Places 15th At National Competition
Yang Liu Second Overall

Missouri's MATHCOUNTS team for the national competition is composed on the top four individual winners from the state competition. Picture above, from left to right are: Yang Liu, Amanda Cao, Spencer Chen, and Michael Huang.

Missouri's MATHCOUNTS team for the national competition is composed on the top four individual winners from the state competition. Picture above, from left to right are: Yang Liu, Amanda Cao, Spencer Chen, and Michael Huang.

Individual Competition
To determine their individual ranking, each student participates in the Sprint Round which is composed of answering 30 questions in 40 minutes. Next is the Target Round which is made up of eight questions given two at a time with only six-minutes per set to solve the problems. Missouri's mathletes fared quite well: Yang Liu was 4th, Amanda Cao placed 68th, Michael Huang finished 80th, and Spencer Chen was 109th out of the 224 national participants.

Team Round
Next the students joined together to for the Team Round where the team works together strategically to solve 10 harder level questions within a time allotment of 20-minutes TEAM rankings are determined by adding the average score of the individual scores to the Team Round score. Missouri's team placed 15th out of the 56 teams!

Countdown Round
The top 12 finishers from the Sprint/Target rounds qualify for the Countdown Round, which was live broadcasted on www.espn3.com. Yang Liu's 4th place ranking qualified him for this next level where he was competing for the title of NATIONAL CHAMPION. Yang displayed his superior abilities by advancing to the final round and forcing a tie-breaker question. Although unable to grab the National Champion title, Yang won 2nd place in the National Countdown Round which qualified him for the last and final level of the National Competition.

Masters Round
The Masters Round is the last level of competition. Here, the top two Countdown Round qualifiers and the top two Individual Round qualifiers compete for the title of Masters Round National Champion. Each qualifier is given a set of questions about a unique mathematical concept and must present their findings. This year the concept was 'Unique Numbers.' Competitors had 50 minutes to complete their packet of problems, before giving an 11-minute presentation on their findings in front of an audience of over 100 peers, coaches, family members and a panel of judges. Judges then have 4 minutes to question the depth of knowledge of the each competitor. While the other 3 competitors understood the concept and were able to explain it, Yang Liu made an amazing presentation, leading him to a 1st place ranking and becoming the Masters Round National Champion. Yang's presentation had MANY competitors, coaches, and judges saying how impressed they were at his abilities and composure. Yang's ranking as the 2nd Place National Champion will send him and his coach, Joe Kleine, to meet President Barack Obama later this summer.

Yang did an amazing job showing he is a Mathematical Force to be reckoned with competing against some of the best and brightest Mathletes in the Nation - like Shyam Narayanan from Kansas, a three-time MATHCOUNTS National competitor and Alex Song from Michigan, an International Math Olympiad competitor and the ARML high school competition winner.

Missouri State MATHCOUNTS Highlights

- 42 schools competed
- 149 mathletes participated
- First place team: Ladue Middle School MATHCOUNTS team
- Top Four Individuals: Yang Liu, Ladue Middle School; Amanda Cao, John Burroughs; Michael Huang, LaSalle
- 25 years serving as a MATHCOUNTS volunteer
MSPE’s Ozark Chapter held its 22nd annual model bridge contest for area high school students on April 6th in conjunction with the Ozarks Science and Engineering Fair at Hammons Student Center on the Missouri State University campus in Springfield. The annual event is open to area high school students and is intended to spark a student’s interest in engineering; while challenging students’ skills in applied physics, mathematics, and model building.

Each contestant constructs a bridge spanning an open area of about one foot which conforms to a set of specifications. Bridges must be built from the 3/32” x 3/32” basswood sticks supplied, but may use any commercially available glue. The maximum bridge mass permitted is 25 grams. At the contest the bridges are loaded at mid-span to failure and judged on the basis of efficiency, or the failure load divided by bridge mass.

A total of 439 bridges from 17 different classes representing 24 area high schools were tested. Pavel Antonyuk of Central High School in Springfield placed first with a 21.18 gram bridge supporting 116.46 pound-load and efficiency of 2,494.1. Tyler Jackson of Ash Grove High School was second with an 18.72 gram bridge, load of 93.22 pounds load and 2,258.7 efficiency. Third place went to Erika Fielder of Nixa High School with a 24.88 gram bridge supporting a 95.32 pound load that yielded an efficiency of 1,737.8. The top three students were presented a framed certificate as well as a cash prize ($125 for first place, $100 for second place, and $75 for third place). Additional information on the contest can be found at http://www.ozarkelectric.com/mspe.

### Ozark Chapter Model Bridge Contest Draws 439 entries

Bridges are loaded at mid-span until failure to judge load and efficiency.

Some of the model bridge entries in the 22nd Ozark Chapter contest.
Newly Licensed Professional Engineers Honored At P.E. Certificate Ceremony

Representative Bart Korman, P.E. (R-District 99) addressed 13 newly licensed professional engineers attending the Professional Engineers Certificate Ceremony hosted by MSPE in conjunction with the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects on Friday, April 15, 2011 in the capitol rotunda.

The ceremony provides a unique opportunity for MSPE to recognize the newly licensed P.E.’s and applaud their achievement in passing all the hurdles to licensure—education, experience, and examination. Invitations are sent to all engineers that have passed the professional practice exam to attend and bring their families.


New P.E. Derick Miles of the Jefferson City Chapter with his family.

MSPE members earning their P.E. license included Ross Kasemann, Central Chapter; Derick Miles, Gregory Nehring, and Ashley Reinkemeyer, all of Jefferson City Chapter; Christopher Dunnaway, Ozark Chapter; Matthew A. Rector Sr., P.E., Rolla Chapter; Darrell D. Butler, P.E., Michael R. Mueller, P.E., Laura E. Rapp, P.E., all of St. Louis Chapter; Neil A. Randol, P.E., Southeast Chapter; Daniel L. Johnson, P.E., Southwest Chapter, and Kisa Caruthers, Western Chapter.

Supporting the event with their attendance were MSPE Executive Committee members President, Kurt Higgins, P.E., President-Elect Britt Smith, P.E., Vice President David Howe, P.E., Immediate Past President Ben Ross, P.E. and Board of Director Representatives Scott Becker, P.E. and Gary Strack, P.E. who met the new P.E.’s during a reception after the ceremony and invited them to join MSPE’s efforts to protect and defend the licensure law.

Assisting MSPE Director of Membership Marla Day in making the event a special occasion for the new P.E.’s were Christopher Criswell, P.E., Art Rice, P.E. and his wife Nancy, Jason Sommerer, P.E., Christina Baker, P.E., and Cliff Jarvis, P.E.
Professional Card Listings

Add Your Business Card Today!
For Placement Contact Cherie L. Bishop Phone: 573-636-6949  Email: cheriebishop@mspe.org
More Life Members Make Voluntary Donations

Life members are asked annually to help support MSPE’s goals and objectives by making a voluntary donation. Those offering their support through May 31, 2011 are listed below. A grateful society extends its thanks to:

Joel Cerwick, P.E.
Overland Park, KS

Richard Herndon, P.E.
Kansas City, MO

August R. Savu, P.E.
St. Louis, MO

Joseph Senne, Jr.
Rolla, MO

Arthur J. Wernle, P.E.
Chesterfield, MO

MSPE Welcomes New Members

Jefferson City Chapter
James Diemer, P.E.
Ameren Missouri
1310 Industrial Dr.
Jefferson City, MO 65109

Students
Mark Hogan
Cheeksba Nelson

Ozark Chapter
Student
Jason Williams

Rolla Chapter
Frank Robedeau, P.E.
530 Johnson St
St. Louis, MO 63102
(transfer in)

St. Louis Chapter
Chad Boeving, P.E.
Utility Design Services LLC
100 Lakefront Parkway
Edwardsville, IL 62025

Richard Haar, P.E.
American Water
727 Craig Road
St. Louis, MO 63141

Renee Ross, P.E.
Jacobs Engineering Group, Inc.
501 N Broadway
St. Louis, MO 63102

William Ragsdale, P.E.
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Chesterfield, MO 63017

Ty Sander, P.E.
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St. Louis, MO 63102

Students
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Karylntha Orenduga
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Evan Stein
Jacqueline Stern
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Rubiyeyb Turner
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David Vilcek
Jason Wheeler
Andrew Wiens
Kate Wilson
Alexander Ying
Chengtong Yeh
Fei Yi
Jianyi Yu
Yezang Yu
Zhenming Zha
Fen Zhu

Southwest Chapter
Dina Bautista, E.I.
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Joplin, MO 64801

Brittie Oakley, P.E.
Sprenkle & Associates, Inc.
218 5th Street
Monett, MO 65708

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Smith Electric Vehicles
7018 N Hickory St.
Kansas City, MO 64118

Diane Crouch, P.E.
HNTB
715 Kirk Dr.
Kansas City, MO 64105

Students
Harlan Barros
John Fiszar
Timothy Gitau
Elliott Goff
Mathew Heimann
Nicholas Sandefur
Timothy Williams
Crystal Wolfe

In Memoriam

MSPE received notice of the deaths of the following members:

Robert Brooks, P.E. of St. Louis, Missouri joined MSPE in 1958. He was granted life membership in February 1986.

James Chaffin, P.E. of Ozark, Missouri held membership in MSPE since 1965. He received life member status in 2002.

Lester Gross, P.E. of St. Louis, Missouri joined in July 1953 and was made a life member in July 1981.

Paul Heineman, P.E. of Lake Lotawana, Missouri began his membership in March 1965. He was awarded life membership on July 21, 1997.

Donald Jack, P.E. of Parkville, Missouri joined MSPE on October 1, 1962. He was granted life membership on January 24, 2004.

Robert MacDermott, P.E. of Lee’s Summit, Missouri began his membership in the society in 1951. He achieved life membership on April 24, 1996.

Kenneth Morton, P.E. of Olathe, Kansas began his MSPE membership in November 1963. He was awarded Life Membership on February 4, 1995.

Paul Q. Olschner, P.E. of Chester, Illinois joined MSPE on November 1, 1951. He served as president of MSPE in 1970 and was granted Life Member status in January 1989.


Herbert M. Sigman, P.E. of Seffner, Florida joined MSPE in February 1960 and has been a life member since May 1989.

Lloyd Weast Jr., P.E. of Springfield, Missouri began his membership with MSPE in August 1954. He received life member status on August 24, 1982.