

ST. LOUIS ENGINEER

St. Louis Chapter Missouri Society of Professional Engineers

OCTOBER PROGRAM

(SPONSERED BY THE MSPE ST. LOUIS CHAPTER AND ENGINEERS CLUB OF ST. LOUIS)

Topic:

“How do you get from I-64 to Forest Park?”



The skills Lesley Hoffarth developed leading The New I-64 team were just what Forest Park Forever was looking for: a leader with strong management skills that can build relationships with the community and work collaboratively with the St. Louis City Parks Department to restore, maintain and sustain Forest Park. Find out how lessons learned from I-64 are being applied to taking care of the Park.

Guest Speaker:

***Ms. Lesley Solinger Hoffarth,
P.E.***

**President and Executive
Director
Forest Park Forever**



Location, Time and Cost:
Thursday, October 21, 2010
Engineers' Club of St. Louis
4359 Lindell Blvd.
St. Louis, MO 63108
Registration at 11:30 am
Lunch at Noon
Program to follow
Cost is \$15.00 per person
Please RSVP by Friday,
October 15, 2010 to Kurt
Krispin at the Engineers' Club.
Phone: (314)533-9333 or
Email Kurt at:
kurt.krispin@engineersclub.net

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Earlier this month, my younger daughter and I attended an air show at Scott's Air Force Base. It has been several years since I last attended and it was daughter's first. The Blue Angels unarguably were the highlight of the day, but the other aircraft were still impressive.

Many of our country's finest aircraft are now a generation old. The F-4 was a mainstay in Vietnam. The F-15 was introduced at the end of the Vietnam Conflict. The F-18 is slightly newer with some significant variants in improved radar and electronics. These aircraft have all been pivotal in winning the Cold War as well as fighting our War on Terror.

These aircraft could not have been developed without the excellence and superiority for the engineering education available in this country. All through the 50's, 60's and 70's, math and science were fundamental. President Kennedy's call to place a man on the moon helped solidify science and engineering's importance. During this time, many of our country's most ambitious engineering feats arose with the Space Shuttle and microprocessor out front.

Involved engineers with these key developments began as students that were steered toward science and math by a national sense of pride as well as curiosity, but it was also necessary to have an affordable education. I can't speak on engineering college prices in the 50's and 60's but I do know that it can be quite expensive today. One way that our Chapter is helping in the effort is through our Educational Foundation. The Foundation is budgeting three (3) scholarships to be awarded to high school students that attend an engineering program in Missouri. Josh Crews, Scholarship Chair, is coordinating with qualified students at most of the area high schools and soliciting nominations. Please encourage your local district or Archdiocesan school to contact Josh if they aren't already aware of the program. Josh Crews: JCrews@ameren.com.

As the Autumn leaves begin to turn into brown, red and gold color and the air turns cooler, many activities are taking advantage of the outdoors. There is no better location in our area for outdoor activities than Forest Park. Over the past recent years, many improvements in Forest Park have taken place. However, due to its immense size and years of neglect, much is left. Nonetheless, the Park is moving in the right direction with the help of Forest Park Forever. Ms. Lesley Solinger Hoffarth, P.E. has been tasked to lead this effort. Ms. Hoffarth is using her expertise from the I-64 project to improve the infrastructure of the park.

Please stop by the Engineers' Club on October 21st and listen to Ms. Hoffarth outline what Forest Park Forever is planning and how it will be done. By the way, if you attend, you will qualify for 1 PDH credit.

It's that time of year for the PE Ceremony which is held at the Missouri State Capital. This is an opportunity for newly minted Professional Engineers to be officially recognized by the Profession. MSPE has established this as a tradition. In order to place this in perspective, the number of new PE's invited to this particular Ceremony from the St. Louis area was nearly 50. Based on statistics compiled by the MSPE Office, the State Licensing Board has over 3200 PE's on its public roll representing the St. Louis area, which amounts to 45% of the PE's in the State. In other words, 45% of the PE's in Missouri reside or are employed in the St. Louis area which encompasses St. Louis County, St. Louis City, Jefferson County, Franklin County, St. Charles County, Warren County and Lincoln County.

The delegate from our Chapter attending the Ceremony will be Scott Becker, P.E. Scott is currently doing yeoman's work in helping PE's prepare for the Professional Engineer exam, so it is only fitting that he be the first to congratulate them on this honor. Scott takes pride in this responsibility and has a good time at the same time.

Bob Becnel, P.E., F.NSPE
President, 2010-2011

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**St. Louis Chapter
Missouri Society of Professional Engineers**

November Meeting

MODOT's Transportation Management Center (TMC)

Presentation and Tour

Teresa A. Krenning, P.E., TMC Manager



Date: Monday November 15, 2010

Location: 14301 South Outer 40 Road, Town and Country, MO 63017

Networking/Lunch: 11:15 a.m.

Presentation and Tour: 11:45 a.m. – 1:00 p.m.

Abstract: TMC is the operational hub for Gateway Guide - St. Louis' Intelligent Transportation System (ITS) program. The system encompasses a broad range of information, control and electronics technologies for managing surface transportation such as roads and bridges. When integrated into the roads and vehicles, these technologies help monitor and manage traffic flow, reduce congestion, provide alternate routes to travelers, enhance productivity and save lives, time and money.

Biography: Teresa A. Krenning, P.E., TMC Manager, Missouri Department of Transportation serves as the first MoDOT manager of the Gateway Guide program and the Transportation Management Center in the St. Louis area. Teresa began her career with MoDOT in 1990 as a traffic studies engineer and has worked on the Gateway Guide program, which includes the Intelligent Transportation Systems and Incident Management programs, since 1996. She graduated from the University of Missouri - Rolla with a Bachelor's degree in Civil Engineering and is a licensed professional engineer. She is a member of ITS America and ITS Heartland.

Directions: Located at the southwest quadrant of the Route 40 and Route 141 interchange.

http://www.modot.mo.gov/stlouis/links/docs/TICMap_web_1204.pdf

No reservations required, but please contact Dianne Milton

at dianne.g.milton@boeing.com or 314-233-6801 by COB

Nov 11 if you plan to attend, for a lunch count. Contact Bill Bezdek at 314-233-6824 with questions or suggestions.



Cost: \$10.00 for Lunch



<http://www.incose.org/mdwest/>

CALL FOR NOMINATIONS SOUGHT FOR AWARDS

Please consider nominating a member or company for one or more of the St. Louis Chapter's Awards for the 2010-2011 year. Awarding includes Outstanding Engineer in a Practice Division, Private Practice Professional Development, Quality Based Selection (QBS), Engineer of the Year and the Young Engineer of the Year. The awards will be given at the annual Engineers Week Awards Banquet (February 2011). Deadline for submitting nominees and applications is **Friday, November 26, 2010**. Nomination may include resume, biographical data or formal application at the MSPE website. Direct questions to the specific individual listed below, or general questions to Award's Chair, Adam Kucharski, at kucharski@pbworld.com or 314-206-4273.

List of Awards

Engineer of the Year

Outstanding Engineer in Private Practice (PEPP)

Outstanding Engineer in Construction (PEC)

Outstanding Engineer in Industry (PEI)

Outstanding Engineer in Education (PEE)

Outstanding Engineer in Government (PEG)

- PE in Missouri
- Membership in MSPE/NSPE is not required

Young Engineer of the Year

- Age 34 or younger as of January 1, 2010
- Membership in MSPE/NSPE is required

Qualifications-Based Selection (QBS)

- Public or Private Entity
- Membership in MSPE/NSPE is not required

Private Practice Professional Development (PPPD) Award

- For-profit firm making outstanding contributions to the St. Louis region
- Employees are not required to be MSPE/NSPE members

Award descriptions

A full list of past award winners, award descriptions and specific qualifications is available at the MSPE website in an MS Word file downloadable from http://www.mspe.org/chapters/Chapter9/09_Awards_guide_2009.doc.

Contacts

AWARD	COMMITTEE CHAIR	PHONE	E-MAIL
Engineer of the Year	Adam Kucharski	314-206-4273	kucharski@pbworld.com
Outstanding Engineer: PEPP, PEC, PEI, PEE and PEG	Jerry Godfrey	314-705-2073	jerry.l.godfrey@boeing.com
Young Engineer of the Year	Ed Austin	636-349-2225	eaustin@aspeninc.net
Qualifications-Based Selection (QBS)	Adam Kucharski	314-206-4273	kucharski@pbworld.com
Professional Development Award (PPPD)	Adam Kucharski	314-206-4273	kucharski@pbworld.com



MSPE St. Louis Chapter Scholarship Program

The Missouri Society of Professional Engineers St. Louis Chapter will award two (2) \$1,000 scholarship and one (1) \$500 scholarship to high school seniors.

To be eligible, this student must enroll in an engineering program that has been accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET-EAC) or a Pre-Engineering Program at a Missouri College or University that has a working agreement to transfer credits with one of the named schools listed below. The top-scoring candidate will be awarded the MSPE St. Louis Chapter Scholarship. The recipient is chosen in the spring from a chapter wide competition. The scholarship is awarded after enrollment verification in the fall semester at one of these state institutions:

These scholarships are awarded to high school seniors preparing to attend one of the following Missouri schools of engineering or one of the approved transfer programs:

College of the Ozarks, Point Lookout, MO
Southeast Missouri State University, Engineering Physics Program (BS), Cape Girardeau, MO
Southwest Missouri State University, Computer Science (BS), Springfield, MO
St. Louis University, Parks College of Engineering & Aviation (AE, EE, ME), St. Louis, MO
Truman State University, Pre-Engineering 2-year Program (University of Missouri System), MO
University of Missouri-Columbia, College of Engineering, Columbia, MO
University of Missouri-Kansas City, School of Engineering, Kansas City, MO
University of Missouri-Rolla, School of Engineering, Rolla, MO
University of Missouri-Rolla, School of Materials, Energy, and Earth Resources, Rolla, MO
University of Missouri St. Louis/Washington University Joint Undergraduate Engineering Program
Washington University, School of Engineering and Applied Sciences, St. Louis, MO

Eligibility is limited to students who reside within the Chapter boundaries. Applicants must reside in one of the following Counties: Franklin, Jefferson, Lincoln, St. Louis, St. Charles, or Warren

The Deadline for scholarship application (postmark) is **December 20th, 2010**.

For a downloadable application go to: <http://www.mspe.org/chapters/stlouis.html>

If you have any questions or require additional information, please feel free to contact:

Josh Crews

MSPE - St. Louis Chapter Scholarship Committee Chair

3700 South Lindbergh Blvd.

St. Louis, MO 63127

Phone (314) 957-3404

Email jcrews@ameren.com

Eligibility Requirements for St. Louis Chapter Scholarship:

- 1) Be a high school senior
- 2) Be a citizen of the United States at the time of application
- 3) Have at least a 3.0 grade point average (based on a 4.0 scale) for the 10th and 11th grades.
- 4) Have at least a minimum score on the American College Testing Program (ACT) test of 29 in Math and 25 in English.
- 5) Must enroll in an engineering program that has been accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET-EAC) at one of the following state institutions or a Pre-Engineering Program at a Missouri College or University that has a working agreement to transfer credits with one of the named schools listed.
- 6) Reside in one of the following Counties: Franklin, Jefferson, Lincoln, St. Louis, St. Charles, or Warren.

Engineering Ethics

Announcing

A 3-Hour Short Course on Engineering Ethics.

**11:00 – 2:00
October 22, 2010**

**Engineer's Club of St. Louis
4359 Lindell Blvd
St. Louis, MO**

**Instructors:
Dr. Paul Munger, PE
Dr. Bob Berry, PE**



This three-hour course provides insight through lecture, discussion and case studies into the ethics of engineering. Included is a discussion of the Missouri State engineering ethics laws as well as rules and guidelines from national technical and professional societies. Real ethics cases are discussed and analyzed in group settings.

A certificate for 3 PDH's will be provided for all in attendance.

Cost is \$185, which includes a box lunch.

**Sign up or Ask Questions by email to:
Paul Munger at prmunger@fidmail.com
Or Bob Berry at rberrytwin@aol.com**

Payment in advance is encouraged but not mandatory.

**To pay in advance fill out the form below and mail with check.
Make checks payable to: Paul Munger LLC and mail to:
Paul Munger
35 Sydney Court
Rolla MO 65401**



Name of Trainee: _____

Phone: _____

Email: _____

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE IS SEEKING VOLUNTEERS!

A request for volunteers from Greg Hempen with the Earthquake Engineering Research Institute:

Architects, SAVE Coalition members, and Structural Engineers are being sought as volunteers to conduct for Structure Inventories in St. Louis City and County, and Southeast Missouri. This voluntary assessment is not an action of, or training by, the SAVE Coalition. The voluntary assessment just happens to be very similar to actions by contacted SAVE Coalition members following a disaster. The volunteers would be briefly trained to use smart phone to take the FEMA 154 structure assessments, exactly like rapid post-disaster assessments without the damage evaluation. (SAVE Coalition members already have been trained on completing the FEMA 154 paper form.) This State Emergency Management Agency program will aid the individual community, the state's ability to assess potential disaster impacts, and the New Madrid Earthquake Scenarios. Volunteers will be asked to take the information at each structure quickly without going on private property. The volunteers will only be going to communities that are interested in the inventories AND have furnished a document for the volunteers to carry. Volunteers will be asked to take the information at each structure quickly without going on private property. Volunteers are being sought in Southeast Missouri (near Sikeston, MO) on either Saturday, October 23 or 30, 2010. Volunteers are being sought in St. Louis City and County on either Saturday, November 6 or 13, 2010.

Willing Architects, SAVE Coalition members, and Structural Engineers should email Steve Besemer, Steve.Besemer@sema.dps.mo.gov, indicating their interest in volunteering with their phone number and the date or dates (each Saturday is associated with only one area) they would be able to volunteer. Please email your interest by Friday, October 8, 2010. Potential volunteers will be given more information about the inventory by email. Approximately one week before the Saturday of inventory details of structure assessments will be provided.

Please consider volunteering as technical civic assistance that will help the broader community!



Missouri University of Science and Technology Engineering Education Center in St. Louis

The Missouri University of Science and Technology-Engineering Education Center in St. Louis offers M.S. degrees in Aerospace, Civil, Computer, Electrical, Environmental and Mechanical Engineering, Engineering Management, Engineering Mechanics and new Internet-based M.S. and M.Eng. Degrees in Manufacturing Engineering to working engineers.

The Center started its operations in 1964. Over 2,500 engineers used this excellent opportunity to enhance their knowledge and status. All classes are offered in the evening. 10 classes are needed to acquire a M.S. degree that will affect your entire professional life. For more information, call (314) 516-5431 or visit the MST website: www.eec.mst.edu.



FROM: Larry Jacobson, Executive Director NSPE

RE: Government Relations Log

From time-to-time members ask about our lobbying, government relations and public affairs work in Washington DC. Within the last few weeks the Minnesota Society suggested we publish regular updates for all members to see. We think that's a great idea. I think we've expanded their suggestion by creating a running log of activities for all to see and we've uploaded it to the NSPE website. On the home page find Resources in the left hand column. Click on Government Relations and then click Latest News to see the log. Or, you can go to the following link.

<http://www.nspe.org/GovernmentRelations/LatestNews/index.html>

The log begins with the arbitrary date of August 31, 2010 and will continue from that point. Each new event will be added to the top of the log so the latest is always seen first, and we'll do our best to refresh and upload the cumulative list weekly. When background information is available, we'll include a link so you can find it easily.

We participate in a wide spectrum of government relations activities, sometimes with the lawmakers on the Hill that create laws but much more often with the administrators along the Mall that interpret and apply the laws. Sometimes we act on our own, but often we work through coalitions of organizations that are interested in similar fundamental issues even if they are not always within the engineering profession. NSPE is often invited to comment on proposed regulations or interpretations of regulations, and we try to comply with requests that may further the protection of the public via licensed Professional Engineers.

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**MSPE ST. LOUIS CHAPTER
PROGRAMS
FOR 2010-2011**

Topic	Speaker	PDH	Date	Time	Location
Taum Sauk Upper Reservoir Rebuild	Mr. Craig J. Giesmann, PE, PMP	1	September 23	11:30 am Lunch, 12:00 pm Program	Engineers Club of St. Louis
Forest Park Forever	Ms. Lesley Hoffarth, PE	1	October 21	11:30 am Lunch, 12:00 pm Program	Engineers Club of St. Louis
MODOT's Transportation Management Center (TMC) Presentation and Tour	Ms. Teresa A. Krenning, PE	1	November 15	11:15 am Lunch, 11:45 am – 1:00 pm Presentation and Tour	MODOT Transportation Management Center
Wind Energy		1	December	Lunch	Engineers Club of St. Louis
MSD Update		1	January	Lunch	Engineers Club of St. Louis
US FIRST National Robotics Competition		1	February	Lunch	Engineers Club of St. Louis
Engineer's Week Intra Society Luncheon*	NASA Astronaut	1	During Eweek	Lunch	Engineers Club of St. Louis
MoDOT/IDOT		1	March	Lunch	Engineers Club of St. Louis
Great Rivers Greenway		1	April	Lunch	Engineers Club of St. Louis
Chapter Officer Installation			May		To be determined

* Part of the Engineers Week Department

7th Annual

Fall PDH Days

Save The Date

Tuesday and Wednesday, December 7 and 8, 2010
Capitol Plaza Hotel, 415 West McCarty St., Jefferson City, Missouri

- 15 PDH Credits in 2 days
- Member rates: \$400 for both days; \$225 for single day
- Lunch and breaks included in registration fee
- Lodging \$79 plus tax until November 22, 2010
- For room reservations call 573-635-1234 or 1-800-338-8088

Tuesday, December 7 (9 am -6 pm): Disaster Recovery: Emergency Planning, Minnesota I-35W Bridge Collapse, Missouri I-470 Slope Failure, Crisis Communication and more. **Wednesday, December 8 (8 am- 4 pm):** Design Build: Contractual Differences, Ethics, Leadership Skills and more.

Look for the registration form online at www.mspe.org by October 15, 2010



Missouri Society of Professional Engineers